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THE BUSINESS SITUATION IN TEXAS

John R. Stockton

Even though a feeling of optimism pervades the air and the belief is becoming prevalent that the worst of the slowdown in business is over, statistical data on the performance of business do not point with certainty to this conclusion, for either Texas or the United States. Some of the business barometers for Texas and for the country as a whole show definite signs of improvement, but many uncertainties persist and the balance is still rather precarious.

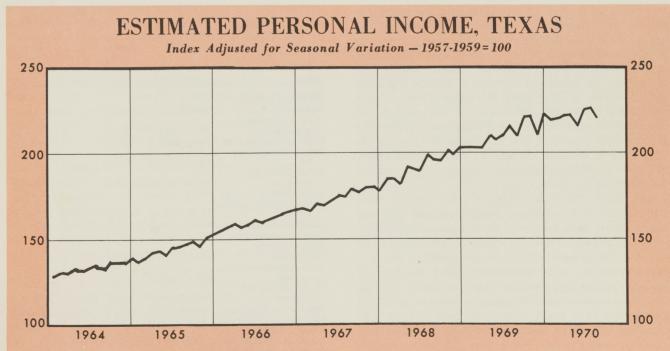
The most comprehensive measure of total economic activity in Texas is provided by the estimates of changes in personal income to individuals. The average level of this index for the first eight months of 1970 was 6 percent above that of the same period last year. The last four months, however, registered an increase of only .3 percent over the first four months of 1970. Out of these eight months, four showed an increase over the previous month, three decreased, and one month was unchanged. The latest month, August, was 1.1 percent below the level of December 1969. The only conclusion from this barometer that seems tenable is that very little change occurred in the economy of the state during the first eight months of 1970.

Industrial production is one of the most sensitive indicators of changes in the economy, and this series shows essentially the same trend in Texas as the income data. The average for the last four months was 1.2 percent below the

average for the first four months, although the August value was 1.2 percent above the value for December 1969. Four of the months in 1970 have registered increases over the previous month and four have declined. The August index increased 2 percent over July, to the highest point reached since February of this year.

The index of industrial production for the United States also has been fluctuating within a rather narrow range. The August index declined .1 percent from July, dampening the hopes of many observers that the July increase would continue and could be interpreted as a signal that a definite upward trend had been established. Four out of the last five months have shown a decline. All of the decline in August occurred in the manufacture of durable goods and the output of utilities. The output of consumer goods changed very little in August.

The value of new construction authorized in Texas declined 6 percent in August, and the average value for the first eight months of this year was 3 percent below the same period of last year. Since the cost of housing has increased during this time, the figures represent an even greater percentage of decline in the physical volume of construction. The only major category of construction to show any appreciable increase in August was multiple-family dwellings, with an increase of 9 percent over July. The year-to-date figure for this category, however, was 12



SOURCE: Quarterly measures of Texas personal income made by the Office of Business Economics, U.S. Department of Commerce.

Monthly allocations of quarterly measures, and estimates of most recent months, made by the Bureau of Business Research with regression relationships of time, bank debits, and manufacturing employment.

percent below the value for the same period of 1969.

It appears that the only hope for the construction industry is a loosening of credit. The recent cut in the prime rate has raised hopes that more money will be available for housing. Homebuilders are becoming more optimistic as the tight money situation eases. The Council of Housing Producers says members expect to build about one third more houses in 1970 than in 1969. However, builders of expensive houses have reported difficulties in finding buyers.

The construction industry is one of the most strategic factors in the business situation at the present time. It employs an important segment of the labor force and furnishes the demand for great quantities of materials. A sound construction industry is an essential part of the basis for any sustained growth in the economy. The price inflation and the shortage of credit have been felt by this industry more than by other portions of the economy. A strong recovery in construction is dependent on an increase in the supply of funds, and the Texas economy is as vulnerable to the problems of the construction industry as any region.

Consumer spending for goods and services represents the largest portion of the total income generated by the economy, but is the area of the economy for which satisfactory current data are most difficult to obtain. Though total consumer spending is subject to less violent changes than other segments, particularly industrial production and construction, consumer purchases of nondurable goods and services tend to maintain their volume better than purchases of durable goods. Information on retail sales in Texas is provided by the United States Department of Commerce, but no current information is available on expenditures for services. Furthermore, the data on retail sales are two months later than information on most other portions of the Texas economy. Retail sales for the first six months of 1970 were 3 percent greater than for the first six months of last year. If allowance is made for the increase in retail prices this dollar volume of sales represents a smaller physical volume of business than was transacted last year. Sales of nondurable-goods stores held up better than total sales, with an increase of 7 percent. No information is available for sales of durable-goods stores, but they probably showed a decrease even without adjustment for the rise in prices.

Information on retail sales for the United States indicates that sales continued sluggish through July and August. Retail trade has shown no real improvement since last spring. In spite of the poor showing of retail sales so far this year, the prospects for consumer spending are considered good by many economists, since the level of consumer income has remained high throughout 1970 to date. With a slower rate of spending, savings have been accumulating at a much faster rate than is usual. The percentage of personal income saved is at the highest level in nearly twenty years. These accumulated savings are available for consumer spending, and businessmen are hoping that consumers will lead the way to an upturn in business activity.

The survey of consumer buying intentions published by the Commerce Department shows anticipated automobile purchases increasing 4 percent in the third quarter of 1970. It is hoped that this improvement will continue into 1971. Unless the strike against General Motors is settled soon, however, this increase is not likely to materialize. Another view of the future demand for automobiles is found in the survey of consumer attitudes released by the Research Center of the University of Michigan, which found that more families in August than in May felt that the present was a bad time to buy a car. As with many economic indicators, the prospects for future car sales are not very clearly indicated.

The slowdown in business has inevitably affected government revenues, with the result that the federal deficit continues to grow in spite of the attempts to reduce expenditures. The easier money policy of the Federal Reserve has begun to be felt as more money has been funneled into the market; so some easing of interest rates was not unexpected. The timing of the reductions in interest rates, however, was something of a surprise, but in spite of the uncertain character of the recovery of business to date, it appears that some increase in the supply of credit was due.

The easing of credit should furnish a healthful climate for the nurturing of whatever mild upturn in business may have developed. However, in the early stages of a recovery movement it does not take much bad news to turn a

SELECTED BAROMETERS OF TEXAS BUSINESS
(Indexes-Adjusted for seasonal variation-1957-1959=100)

				Percent	change
					Year-to
			Year-to-		average
			date	Aug 1970	
	Aug	July	average	from	from
Index	1970	1970	1970	July 1970	1969
Estimated personal					
income	219.1 ^p	226.8 ^p	221.3	- 3	6
Crude-petroleum					
production	124.7 ^p	119.3 ^p	121.2	5	7
Crude-oil runs to stills	134.3	135.0	133.7	- 1	- 1
Total electric-power					
use	280.2 ^P	279.2 ^p	261.0	**	5
ndustrial electric-	n	n			
power use		222.4 ^p	226.9	4	5
Bank debits	297.1	339.9	303.7	- 13	10
Jrban building permits					
issued	201.5	197.9	188.0	2	- 2
New residential	144.1	163.0	143.5	- 12	- 8 3
New nonresidential	292.5	261.6	261.6	12	3
Total industrial	p	p			
production	179.3°	175.3 ^p	177.8	2	4
Total nonfarm em-	p	p		**	1
ployment	150.3°	150.3 ^p	150.2	**	4
Manufacturing em-	p	150.3 ^p	1500		**
ployment			152.9 94.4	- 1 - 5	29
Total unemployment	109.5	115.1 85.6	71.0	- 5 5	69
Insured unemployment	89.8	85.0	/1.0	3	0,
Average weekly earn-	150 AP	148.2 ^p	149.1	1	4
ings-manufacturing	130.4	140.2	147.1	•	
Average weekly hours— manufacturing	97 8P	98.0 ^p	99.0	**	- 2
manuracturing	77.0	70.0			

^{**} Change is less than one half of 1 percent.

BUSINESS-ACTIVITY INDEXES FOR TWENTY SELECTED TEXAS CITIES (Adjusted for seasonal variation—1957-1959=100)

				Percent	change
					Year-to-
					date
			Year-to-		average
	. p		date	Aug 1970	1970
T	Aug	July	average	from	from
Index	1970	1970	1970	July 1970	1969
Abilene	136.0	149.4	142.0	- 9	**
Amarillo	199.5	208.6	202.9	- 4	6
Austin	298.6	341.3	336.9	- 13	- 6
Beaumont	169.9	178.3	179.8	- 5	- 7
Corpus Christi	143.5	166.8	160.1	- 14	1
Corsicana	170.0	170.8	164.9	**	5
Dallas	329.3	372.5	334.7	- 12	7
El Paso	159.5	176.2	158.9	- 9	4
Fort Worth	172.6	192.1	184.9	- 10	4
Galveston	118.5	129.0	130.8	- 8	4
Houston	257.8	301.0	275.2	- 14	7
Laredo	268.2	271.9	256.6	- 1	8
Lubbock	200.6	200.3	171.5	**	- 2
Port Arthur	116.9	123.9	119.6	- 6	1
San Angelo	163.2	177.4	173.1	- 8	4
San Antonio	217.7	251.4	219.3	- 13	7
Texarkana	224.5	221.1	217.7	2	- 11
Tyler	174.3	179.8	177.6	- 3	- 1
Waco	203.4	210.4	200.7	- 3	8
Wichita Falls	131.5	149.0	132.0	- 12	- 6

p Preliminary.

prospective upturn into a sharp decline. It is to be hoped that nothing serious interferes with the favorable developments beginning to appear in the business news. The effects of a major strike on the overall business situation can easily be exaggerated, but developments in the international situation can have substantial effect. Any forecast of the development abroad is always subject to a high risk of error.

Expenditures of business concerns for new plants and equipment have been scaled down from earlier expectations. In spite of this downward revision of the estimates, total capital expenditures for 1970 are now expected to be \$80.56 billion, an increase of 6.6 percent over 1969. Although this expansion would be smaller than the 11.5-percent increase registered in 1969, it would make this year's expenditures the largest amount ever spent for capital items by American business.

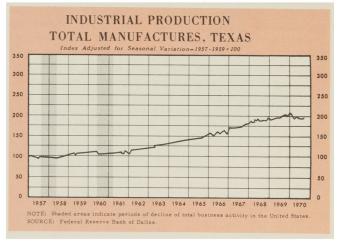
The expenditure on capital goods is one of the most dynamic segments of the economy and in recent years this steadily increasing investment has contributed substantially to the inflationary pressures on the economy. The expenditures of businesses on capital goods are more stimulating to business than the same amount spent by consumers. As long as capital spending continues to increase, the total level of business activity is not likely to show a serious decline. The downward revisions of the figures for capital expenditures that have occurred as the year 1970 has progressed have not been surprising, since commitments are necessarily made considerably in advance and are subject to revision as the outlook for business changes. Projected capital increases for 1970 over 1969 had

been 7.75 percent in May and 9.75 percent in February. Actual capital outlays in the second quarter of 1970 were .5 percent lower than expected in May and scheduled outlays for the second half have been revised downward about 2 percent. The decline in the economy can be traced in the successive reductions in these anticipated expenditures, but the relative strength of this portion of the economy is an important factor in the mildness of the decline in total business to date.

In August 1970, 3.9 percent of the Texas labor force was unemployed, compared with 2.8 percent a year earlier. This August percentage, however, was an improvement over the 4.1 percent unemployed in July and the 4.5 percent in June. These figures are definitely encouraging indicators of a slight improvement in the business situation during the summer. The rate of unemployment of the labor force is one of the simplest and most direct measures of the state of the economy.

The growing concern about declining business activity has somewhat shifted attention from the problem of inflation, but for most of 1970 the continual rise in the price level in spite of the slowdown in business has been a source of worry to economists. The Consumer Price Index for August was still rising, but the increase of .2 percent was the smallest month-to-month change since December 1968. With adjustment for seasonal variation in prices it was the smallest increase in three years. For the past three months the rate of increase in prices has been slowing down, giving a sound basis for concluding that the worst of the inflation might be past.

A summary of all of the measurements of business for August provides a basis for cautious optimism. The decline seems to be fairly well stabilized, although no indication of a strong rise appears for the immediate future. A modest rate of recovery should be generally satisfactory; it is important that nothing interrupt the upward movement now under way before it gathers enough momentum to withstand bad news and unfavorable developments. If the present improvement can be maintained, while the price level is kept simultaneously under control, the prospects for 1971 can be considered to be noticeably brighter. The recovery movement is still not strong, however, and the threat of inflation has not completely subsided.



^{**} Change is less than one half of 1 percent.

TEXAS CONSTRUCTION

Robert M. Lockwood

Although the adjusted index of urban building permits for new residential construction fell off 12 percent in August for the second straight month, the index of total construction in Texas was buoyed 2 percentage points above the July level by the second straight rise in urban nonresidential permit issues and by a disaster-stimulated surge in additions, alterations, and repairs. The relatively healthy urban nonresidential sector is running 3 percent ahead of January-August 1969, but sluggish 1970 homebuilding has depressed the index of the first eight months 2 percent below that for January-August 1969—even with consideration of seasonal influences.

The tailing-off of new-construction urban permit values by \$11.2 million from July levels was not necessarily significant. The decline of almost \$6 million in residential construction authorized, however, ran counter to the seasonal norm, as indicated by the slump in the seasonally adjusted index of 11.6 percent. The \$5.2-million dip in permits covering new nonresidential construction, on the other hand, failed to equal the usual decline at this time of year. Besides the strength of nonresidential building activity, the category of additions, alterations, and repairs rose \$2.4 million, further offsetting the decline of more than 4 percent in the unadjusted total and accounting for the seasonally adjusted rise of almost 2 percent in the index of total construction authorized in the state during August.

The most striking trend in urban residential construction apparent in a comparison of January-August 1970 with the same period last year is the performance of housing construction outside the standard metropolitan statistical areas, which contain all but about 3 million Texans. Throughout the state both the value and the number of dwelling units declined: the single exception was one-family dwelling units, which increased in number. Outside the metropolitan areas, however, both the number and the value of single-family houses gained over the first eight months of 1969.

The trend toward more but less expensive housing was uniform throughout the state, although some areas demonstrated greater extremes than others. Among the twenty-three reported metropolitan areas, fifteen exhibited a drop in the indicated average cost per unit for single-family housing for the first eight months of the year. Including all of the state's largest population centers, these fifteen SMSA's accounted for \$236 million of the \$350 million in permits issued for one-family homes. Their permits covered 15,925 units of the state total of 22,432. Houston, with about 2,300 homes valued at some \$48 million, showed a decline of 20 percent in both number and value of units and therefore reflected little change from January-August 1969 in average value per unit.

Only seven SMSA's demonstrated a trend toward more expensive housing: Abilene, Amarillo, Galveston-Texas City, Laredo, Odessa, Texarkana, and Waco. Representing

about 821,000 persons, these areas recorded only 695 single-family homes valued at \$12,338,000 during January-August 1970, an indicated average value per unit of roughly \$17,800. This figure compares with an average of about \$20,500 for Houston and \$14,800 for the fifteen areas which reflected declining average values.

Across the state about 34 percent of the number of units and 55 percent of the value of all housing authorized during the first eight months of 1970 were attributable to one-family homes. Multiple-family units accounted for approximately 67 percent of the number and 45 percent of the value of building permits issued during January-August 1970.

Although the January-August 1970 growth of urban nonresidential construction, compared to the same period last year, has been erratic, the nonresidential sector has blunted to a considerable extent the yawn-provoking homebuilding activity. These differences have rarely been considerable. For example, both residential and nonresidential indexes have risen in eight of the last twelve months, although the index of total construction activity—

ESTIMATED VALUES OF BUILDING AUTHORIZED IN TEXAS*

			Percent	change
				Jan-Aug
	Aug	Jan-Aug	A 1070	1970
	1970	1970	Aug 1970 from	from Jan-Aug
Classification	(thousands	of dollars)		1969
ALL PERMITS	194,899	1,562,226	- 4	- 2
New construction	170,586	1,392,167		- 3
Residential				
(housekeeping)	83,325	689,066	- 7	- 8
One-family dwellings	46,329	379,155	- 16	- 4
Multiple-family				
dwellings	36,996	309,911	9	- 12
Nonresidential buildings	87,261	703,101	- 6	4
Hotels, motels, and				
tourist courts	645	26,424	- 87	42
Amusement buildings	1,259	40,963		215
Churches	2,130	24,873	- 22	3
Industrial buildings	16,370	79,337	94	- 10
Garages (commercial				
and private)	1,450	11,911	- 19	10
Service stations	933	9,514	- 39	- 22
Hospitals and				
institutions	6,675	79,644	- 26	20
Office-bank buildings	22,026	147,307	52	65
Works and utilities	2,875	30,722	164	24
Educational buildings Stores and mercantile	10,071	99,584	- 57	- 35
buildings	20,300	132,536	- 2	- 2
Other buildings and	20,300	132,330		
structures	2,527	20,286	12	- 52
Additions, alterations,	2,321	20,200	12	- 32
and repairs	24,313	170,059	11	1
SMSA vs. NON-SMSA	21,010	170,000		
Total SMSA†	178,577	1,394,863	- 2	- 3
Central cities	105,392	993,581	- 17	- 1
Outside central cities	73,185	401,282	33	- 6
Total non-SMSA	16,322	167,363	- 24	1
10,000 to 50,000	10,522	107,505	-	1
population	8,539	88,952	- 23	- 6
Less than 10,000	0,339	00,732	23	3
population	7,783	78,411	- 26	12

^{*} Only buildings for which permits were issued within the incorporated area of a city are included.

^{**} Change is less than one half of 1 percent.

[†] Standard metropolitan statistical area as defined in 1960 Census and revised in 1968.

Source: Bureau of Business Research in cooperation with the Bureau of the Census, U.S. Department of Commerce.

which includes additions, alterations, and repairs—has risen only half the time. During the last three months, the nonresidential index has risen twice in contrast to declines in two of the last three months in both residential and total construction indexes.

The structure of planned expenditures in the non-residential sector exhibited no broad changes from 1969 over the first eight months of this year. The same five categories led in values authorized in both instances: office-bank buildings (which rose to first place from third); stores and mercantile buildings (second); educational buildings (which dropped to third from first in 1969); hospitals and other institutional buildings (which rose from fifth to fourth); and industrial buildings.

Although the nonresidential values through August gained only about 4 percent this year (some \$24 million), the distribution of values was considerably different. The largest increase—\$58 million in office-bank buildings—was almost precisely offset by a \$54-million drop in school buildings. Works and utilities construction picked up \$28 million, in addition to another \$26 million or so in hospitals, amusements buildings, hotels, and churches. These gains were partially offset by various declines, the most significant of which were \$9 million in industrial buildings and \$2.6 million in stores. Remarkably, however, the five leading nonresidential sectors accounted for almost precisely identical totals in both eight-month periods: \$533 million in 1969 and \$538 million in 1970.

A pair of natural disasters, twelve weeks and five hundred miles apart, have measurably affected the construction economy of the state during 1970. An estimated \$135 million in damage has been attributed to the May 11 tornado in Lubbock, with a metropolitan-area population of about 176,000. A study recently completed by the Lubbock Economic Council sets out some remarkable facts concerning the effects of this tornado.

The real-property loss in Lubbock came to about \$64 million, on a total real-property base of \$786 million. The number of business firms damaged or destroyed was set at 513. The Council estimates that \$55-60 million will be spent on rebuilding, a sum equivalent to about two years' building permits at the 1969 rate. Most of the smaller repair projects ought to be completed this year. With the time involved in completing plans, settling insurance claims, and making financial arrangements, the larger rebuilding projects will begin in 1971. The entire rebuilding program is projected over five to eight years.

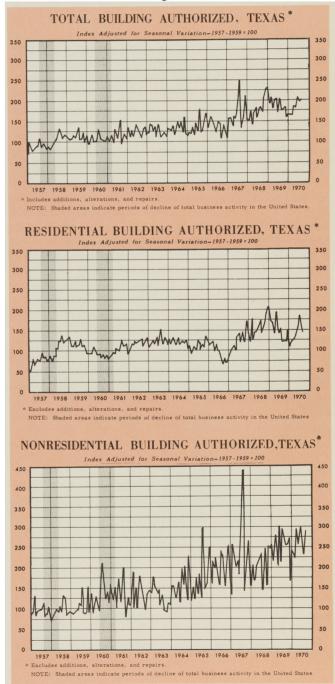
Since the storm, building permits have been issued at the rate of about \$1 million per week. The 1970 total is projected at \$40 million, or about 37 percent over the 1969 total of \$29 million. For 1971 the estimate is \$50 million, 72 percent above that for 1969.

A comparison of the May-August 1969 and May-August 1970 figures for additions, alterations, and repairs in Lubbock provides a striking measure of the significance of the tornado. This category of construction permits amounted to less than \$100,000 in May 1969 (in the Lubbock SMSA); the May 1970 figure was \$1.7 million. The June figures were about \$104,000 in 1969 and about \$2.5 million in 1970. In July 1969 the permits for

additions, alterations, and repairs fell to about \$46,000; the July 1970 total was \$2 million. The August 1970 figure was more than \$2.1 million, considerably more than the \$436,000 for August of last year.

The Lubbock SMSA, ranging in May-August 1969 from a low of 0.07 percent to a high of less than 2 percent of the total state authorization for additions, alterations, and repairs, accounted for 8.2-9.1 percent of this category of building permit values during the same four months this year.

During May-August 1970, therefore, Lubbock SMSA permits for additions, alterations, and repairs amounted to about \$8.3 million. Although some of this work is not



related to the storm, most of it clearly is. The 1970 four-month total increased almost 13 times over the 1969 total, from \$654,000 to \$8.3 million, and the ratio of the Lubbock SMSA value to that of the entire state rose from less than 0.8 percent to 8.8 percent.

On August 3 Hurricane Celia invaded the Texas coast at Corpus Christi, the center of a population concentration of close to 300,000. Housing especially was hard hit by the storm. In Portland, for example, a relatively small community adjacent to Corpus Christi in San Patricio County, about 1,700 homes were damaged or demolished, along with 26 businesses. During August the city authorized almost \$700,000 in additions, alterations, and repairs, a type of permit which normally is not even applied for in this relatively new community.

Through September 13 the Small Business Administration office in Aransas Pass had accepted applications for 623 home loans totaling \$3.7 million and 141 business loans aggregating \$3.1 million. This office also served Ingleside and Port Aransas.

For the communities of Sinton, Taft, Odem, and Edroy, and adjacent rural areas, all affected by the hurricane, the Small Business Administration, through September 5, handled 1,335 loan applications totaling almost \$4 million.

In the Corpus Christi SMSA, which does not include quite all of the area affected by the storm, the additions, alterations, and repairs category in July 1969 amounted to considerably more (\$560,000) than in July 1970 (\$412,000), whereas in August 1970, the month of Hurricane Celia's visit, this sector rose to almost \$800,000 over the figure of \$265,000 for August of 1969. New construction, on the other hand, which amounted to \$1.8 million in July 1969 and \$1.7 million in August 1969, dropped from almost \$2 million in July 1970 to \$931,000 in August 1970.

One of every twenty-three or twenty-four persons in the state were affected by these two disasters. The economies of two areas holding close to half a million persons will be altered noticeably for the next several years by the pattern of reconstruction and recovery which follows all major disasters. From the point of view of economic observers, these misfortunes occurred in a year in which the construction industry was already affected by a welter of shifting and contradictory influences. Although some, at least, of the rebuilding programs in the Lubbock and Corpus Christi areas will stimulate the construction economy, the outlook for this sector still is uncertain throughout the state. (Concluded p. 257)

ONE-F	'AMILY, TWO-FAMILY, AND APARTMENT BUILDING DWELLING UNITS AUTHORIZED
	IN STANDARD METROPOLITAN STATISTICAL AREAS, AUGUST 1970†

(Values in thousands of dollars)

		One-	family dw	elling un	its		1	wo-fan	ily dwe	ellin	g units			Apartm	ent-buildir	ng dwellin	g units	
	Aug l	1970	Jan-Aug	; 1970	Perc cha Jan- 19 fro Jan- 19	nge Aug 70 m Aug	Aug 197	'0 Jan-	A ug 19'	70	Perc cha Jan- 19 fro Jan- 19	nge Aug 70 om Aug	Aug 1	970	Jan-Au	g 1970	cha Jan- 19 fro Jan-	cent ange -Aug 970 om -Aug
C		No.		No.		No.	N		No			No.		No.		No.		No.
Standard metropolitan statistical area	Value	of units	Value	of	Walna	of	17-1C		of		37.1	of	*7.1	of	** 1	of	37.1	of
statistical area	value	units	Value	units	Value	units	Value un	its Val	ue uni	ts	Value	units	Value	units	Value	units	Value	units
Abilene	81	4	645	25	- 34	- 40			17	4	68	**					-100	-100
Amarillo	709	29	3,319	116	- 28	- 36					-100	-100			100	20	- 92	- 86
Austin	3,318	168	24,269	1,185	- 18	- 10	395 2	6 2,5			3	2	340	28	19,658	1,904	- 50	- 47
Beaumont-Port Arthur-																		
Orange	650	43	3,992	241	- 36	- 31			59	6	- 73	- 63			2,913	367	17	8
San Benito	237	29	1,561	198	37	50					-100	-100	4	3	1,902	221	- 44	- 26
Corpus Christi	187	18	7,228	617	- 5	10				2	164	200			1,963	268	- 5	- 25
Dallas	8,801	604	102,618	6,883	- 2	11		8 2,8			- 28	- 31	14,286	1,321	87,878	11,599	2	- 8
Fort Worth	1,916 3,900	128 245	17,732 35,863	1,227 2,224	- 3	10	85 1		00 1		- 84	- 77	260	32	8,004	894	- 3	- 16
Galveston-Texas City	292	16	2,382	136	-10 -18	- 7 - 23		8 2,5			47 -100	87 - 100	597 386	77 84	16,498	1,968	- 61 - 53	- 66 - 35
Houston	5,876	287	47,553	2.315	- 10 - 20	-23 -20	230 1	6 1,1			39	35	7,770	1.105	85,212	10,788	- 53 - 22	- 33 - 34
Laredo	289	34	1,579	185	113	59							91	1,103	1,663	52		
Lubbock	949	43	6,704	310	- 10	2	130 1			0	- 51	- 64	592	63	3,660	378	1.198	779
McAllen-Pharr-Edinburg	355	30	3,169	329	- 2	11				4					411	47	116	81
Midland	155	6	1,610	60	19	25			10	2	- 33	**			50	4	- 93	- 96
Odessa	122	5	1,186	49	15	9		. 2	00 2	0	82	150			1,306	128		
San Angelo	186	15	1,513	121	- 18	- 6				2	- 51	- 80			2,544	449	287	410
San Antonio Sherman-Denison	2,600	213	19,857	1,915	14	25				4	- 37	- 19	2,241	216	7,882	759	- 18	- 40
Texarkana	535 99	31	3,391	213	- 15	- 7		. 1)2 1	2	- 92	- 83			3,571	309	86	23
Tyler	540	11 30	917 3,811	85 186	43 24	15									75	22	- 94	- 87
Waco	242	12	2,310	99	- 27	31 - 32	110			8	31	11	1 005	200	1,080	113	38	47
Wichita Falls	345	28	2,712	216	22	60	110	0 2			-100	-100	1,965	200	6,147 2,070	594 334	303 367	179 486
Total SMSA's	32,383	2,029	295,920	18,935	- 8		1,248 9	4 10 9	73 1.00		-100	-100	28,532	3,138	255,676	31,440	- 19	- 27
Outside SMSA's	7,440	470	53,783	3,497	6	11		2 1.4	, , , , ,		- 2	- 4 - 17	885	112	16,053	1,821	16	- 12
State Total	39,823	2,499	349,703		- 6		1,595 13				- 13	- 6	29,417		271,729	33,261	- 17	- 26

[†] Metropolitan areas are listed in accordance with 1968 Bureau of the Census definition. This table includes only the cities reporting in metropolitan areas. ** Change is less than one half of 1 percent.



TEXAS IN THE SEVENTIES

9. A NEW ERA FOR FORESTRY

Nelson T. Samson*

The decade of the seventies will usher in a completely new era in Texas forestry. Forest practices will become more intensive, wood-using industries will expand in size and diversify in output, smaller, locally owned units will be absorbed by larger, national, multiproduct complexes, wood procurement will become more difficult, new products will appear, environmental management and recreational planning will influence policies, harvesting systems will be revolutionized, and perhaps most important will be a change in forest-management policies.

An increased national demand for forest products is expected in the next decade. While some forest products will increase in demand, others will continue to lose rank in the marketplace, with a resulting steady but not spectacular expansion. Figure 1 indicates that forest-product consumption has not shown dramatic growth since the peak of the virgin-timber cutting in the first decade of this century.

The 1907 peak in apparent consumption¹ of timber products, 13,380 million cubic feet, was followed by a steady decline, which reached bottom in the depression year of 1932, when the apparent consumption dropped to 8,380 million cubic feet. The 1907 level of consumption has never been reattained, but hopefully it will be reached in the seventies. To properly evaluate this historical trend one must look at the product mix, which has shown significant changes.

Logs for lumber production have made up approximately 50 percent of apparent consumption for the past seventy years with the exception of the depression years, when building was sharply curtailed. In 1900 fuelwood, a major product of our forests, made up about 40 percent of total consumption, but now its share of demand has dwindled to below 6 percent. Plywood and pulpwood, which were hardly measurable at the turn of the century, have picked up fuelwood's loss and now constitute 9 percent and 31 percent respectively of apparent consumption. Miscellaneous forest products² have declined in

importance until they now make up only about 4 percent of consumption. It seems evident that increases in the use of some forest products will come at the expense of others, thus tending to restrain the net increase in demand. With very little volume left to squeeze out of fuelwood and miscellaneous forest products, it appears that lumber will suffer relatively from the expected expansion of plywood and pulpwood. Some regions and states will benefit more than others because of their proximity to markets, the condition of their forest land, or other related characteristics.

The rate of increase in Texas wood-products production should be greater than that of the country as a whole or that of the South as a region. Since World War I Texas forests have received little pressure for production of wood crops. The demands of local industries were small in relation to the volume of wood available, the eastern markets were being supplied by timber closer at hand, and the westward thrust of industry did not begin until the fifties, when much of the industrial holdings were looked upon as future reserves. The increased demand on the forests in the fifties was cushioned by the upsurge in the use of residues, which bought more growing time for the forests of the state. Changes in the tempo of demand for forest land and forest products became evident in the sixties, with the beginning of the pine-plywood industry, the great expansion of the pulp and paper industry, and the influx of large, nationally oriented wood-products corporations.

Texas has a big stake in the products of her forests. Wood-using industries add more than \$750 million to the state's economy each year, give employment to more than 40,000 people, and have invested more than \$0.5 billion in plant and equipment and another \$0.5 billion in land. According to a 1965 survey conducted by the Texas Forest Service³ the industry is composed of:

- 141 pineywoods sawmills
- 46 chipping plants
- 45 wood-treating plants

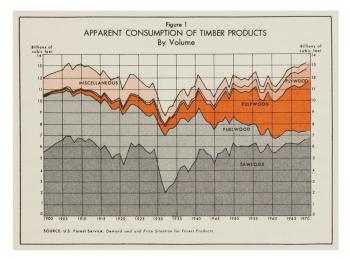
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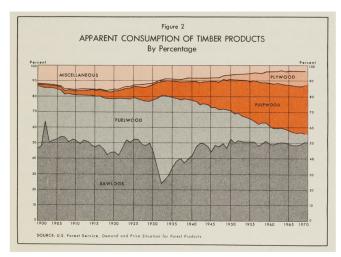
Apparent consumption is domestic production plus or minus the difference between imports and exports.

² Miscellaneous forest products include cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, excelsior bolts, chemical wood, shingle bolts, and miscellaneous items.

³ H. B. Sorenson and W. A. Smith, "Texas Wood-A Surging Industry," *Texas Agricultural Progress*, Vol. 12, No. 3 (March 1966), p. 4.

- 23 post- and pole-processing plants
- 9 building-felt mills
- 8 charcoal plants
- 5 container-veneer plants
- 5 hardwood-plywood plants
- 5 paper mills
- 3 pine-plywood plants
- 2 cooperage plants
- 2 particleboard plants
- 1 fiberboard plants





In addition, there are 500 furniture and fixture plants, 125 paper-converting establishments, and over 700 miscellaneous small industries which use wood as a raw material.⁴

The lumber industry, which has been the mainstay of the forest-products industry in Texas since the turn of the century, has been dwindling in importance. From a peak production of 2,197,233,000 board feet in 1907 it has declined to an average of less than 1 billion board feet during the sixties.

In 1909,799 sawmills were operating in Texas, but by 1968 this number had dropped to fewer than 160.

Nationally the per capita use of lumber dropped from 526 board feet in 1906 to a low of 102 board feet in 1932. From 1932 to 1950 it steadily climbed back to 269 board feet, but has been declining ever since to an estimated 1969 figure of 211 board feet. The increase in population has not been sufficient to offset the drop in per capita use. Much of the decline in lumber usage has been associated with replacement by substitute materials, some forest-based, like plywood and particleboard, and some nonforest-based, such as steel and cement. Also contributing to the decline in the use of lumber are changes being made in building methods. Lumber has been strongly dependent upon residential housing. In 1962 new residential construction was the most important market for lumber, making up about 38 percent of total use.⁵ The amount of lumber needed for future demand, however, will depend upon the type of dwellings being built. Some types of residential construction require larger quantities of lumber than others. In 1962 the U.S. Forest Service estimated that one- and two-family units required 11,190 board feet of lumber per dwelling on the average, while multifamily units averaged 4,500 board feet and mobile homes 1,800 board feet.⁶ In recent years the trend has been away from one- and two-family homes toward multifamily dwellings and mobile homes. In 1962 multifamily units constituted 29 percent of residential construction. By the first half of 1969, however, this proportion had increased to 45 percent. Many reasons explain the swing toward multifamily units: rising land costs in urban areas often make the investment in land too great for the construction of single-family residences, the cost of apartment renting has been rising less than the cost of home ownership, and the increased difficulties encountered in commuting have been causing many people to live in city apartments, offsetting the higher rental cost by elimination of commuting. The increase in older-age groups is also leading to more apartment living, since they cherish their freedom of movement, have little need for large quarters, and dislike house and yard maintenance. Mobile homes have made an even more dramatic impact upon the housing industry and thereby upon the lumber industry. In 1969 mobile homes accounted for 92 percent of the sales of all housing units under \$15,000. An estimated total of 428,000 mobile homes were sold that year. The popularity of mobile homes can be attributed to their low cost in relation to a single-family home, their ease and simplicity of financing, and the deficit of desirable housing of other types in price ranges which low or medium-income families can afford. Young married couples buy almost half of all mobile homes sold. Mobile homes have special appeal to this group because they cannot afford a single-family house, own little or no furniture, do

⁴ Information compiled by the author.

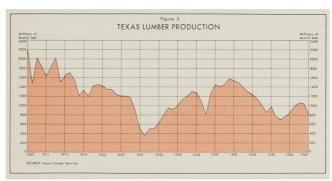
⁵ Dwight Hair and Alice H. Ulrich. *The Demand and Price Situation for Forest Products*, 1964 (Forest Service, U.S. Department of Agriculture, Miscellaneous Publication No. 983, 1965), p. 6.

⁶ Timber Trends in the United States, 1965 (Forest Service, U.S. Department of Agriculture, Forest Resource Report No. 17, February 1965), p. 19. All forest-resource data used, unless otherwise specified, should be credited to the U.S. Forest Service.

not want time taken up with housework, or have limited need for space and like the compactness.

These trends in housing demands will tend to moderate the demand for lumber, but should strengthen the demand for other wood products, such as plywood, particleboard, and composition board. Most of the large-scale replacement opportunities have already been completed, and this, together with the release of pent-up demands for housing in the seventies, will strengthen the position of lumber in the marketplace. The remaining permanent mills should strengthen their economic position, while the smaller, portable mills without debarking and chipping facilities will disappear from the scene. Lumber production in the seventies should stabilize at about 1 billion board feet annually. The sixties also witnessed in Texas the addition of multiproduct, nationally oriented corporations, such as Owens-Illinois, in Orange, Jasper, and Keltys; International Paper Company, in Nacogdoches: Georgia-Pacific, in New Waverly; and U.S. Plywood, in Diboll and Camden. These companies, plus some progressive local organizations, brought a more competent level of forest management to the state, with results which will become more evident in the decade to follow.

Softwood plywood production came to the South in December 1963 and tended to crowd into the West Gulf region, since this area had the most suitable timber supply. Until this time the industry had been concentrated in the Northwest, where large, high-quality timber could still be found in abundance. With the development of high-speed lathes capable of operating on smaller-diameter, woods-run logs and with breakthroughs in glueing techniques the industry headed south. Since its beginning in December 1963 it has grown at a rapid rate and now accounts for almost 20 percent of national production.

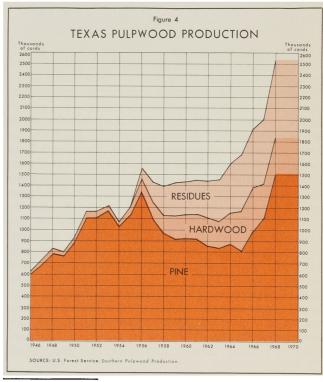


Many factors favor the South over the West for future expansion: the way in which the industry developed favored consolidation of many mills under large corporations with well-established distribution channels and competent administrative management; the more favorable shipping costs encouraged growth to the southeastern and southcentral markets, which provide approximately 30 percent of the nation's population, lower wage scales, lower fuel costs, and lower mill-construction costs. Texas should be a leader in future plywood expansion in the South. Between 1955 and 1965, according to the U.S. Forest Service study of timber trends, Texas softwood volume rose

40 percent. In 1955 trees above fifteen inches in diameter totaled about 1.1 billion cubic feet, or 24 percent of the softwood inventory. In 1965 trees of these sizes made up 29 percent, or 1.8 billion cubic feet. These are the sizes of trees needed by the Southern Pine plywood industry, which makes Texas the logical location for the next jump in softwood-plywood production. Texas has three pineplywood plants operating, with an annual capacity of around 210 million square feet. An additional three mills, representing an investment of over \$11 million, are under construction. By 1971, when the current construction is completed, over 1,200 employees will be working in softwood plants and capacity should reach 550 million square feet annually. New uses for plywood in shipping, manufacturing, and construction plus completely new products developed by the combination of plywood with plastics, aluminum, and paper will open up entirely new fields in the seventies.

Texas pulp and paper production has been steadily increasing from a 1950 capacity of 970 tons per day to a 1968 figure of 5,500 tons per day, or an increase of almost six times in a period of less than twenty years. Pulpwood production in Texas has likewise been increasing at a rapid rate, having quadrupled since World War II. Almost half of the increase has been brought about by the use of hardwoods and residues which were formerly considered waste material from the production of lumber.

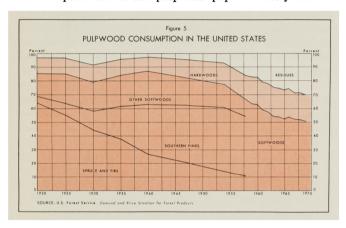
The impact of residue use on the raw-material needs of the pulp and paper industry nationwide can be seen from the accompanying graph.



⁷ R. C. Beltz, *Southern Pulpwood Production*, 1968 (Forest Service, U.S. Department of Agriculture, Forest Service Resource Bulletin, SO-18, 1969), p. 21.

The nationwide production of pulp chips from residues in 1969 amounted to 18,500,000 cords. Texas forests are growing at the rate of 0.6 cords per acre annually. This means that the use of chips preserved from cutting the equivalent of the growth on over 30 million acres of forest land. Stated another way, it is the equivalent of clearcutting almost 3 million acres of Texas timberland. During the past three years Texas has been in the forefront in appropriation of expansion funds for the pulp and paper industry.8 The raw-material outlook for the industry is excellent. Softwood growing-stock volume has increased 40 percent during the last decade and 55 percent of it is in trees six to twelve inches in diameter, which are highly suitable for intensive management. Hardwood growing stock over the last decade has decreased slightly, but a considerable volume of sound wood is available in rough and rotten hardwood which was not tallied. According to the U.S. Forest Service annual growth exceeds annual drain by 202.3 million cubic feet. The wood fiber available is greatly in excess of the current demand and should provide all that is needed for the expansion plans of the next ten years.

New products in the pulp and paper industry should



New products in the pulp and paper industry should become commonplace during the seventies. The nonwoven paper revolution got its start in 1966, when Scott Paper Company offered its \$1.25 paper dress "Duraweve" as an advertising gimmick aimed mainly at the disposable medical-products market. Within six months 500,000 dresses were sold. Mars Manufacturing Company, of Asheville, North Carolina, brought out a paper shift dress and sold \$750,000 worth in six months. Paper dresses and other clothing items are now available in almost all large department stores. Paper diapers such as Proctor and Gamble's "Pampers" are accepted items. Paper disposable medical products are a \$300-million annual market. Paper has exploded into the market of mass feeding and mass housing in restaurants, hotels, hospitals, schools, and institutions. The Armed Services are researching the use of paper in bedding, curtains, underwear, field gear, fatigue

uniforms, and assorted medical products. You can buy paper garbage bags, paper furniture (widely used by the Bureau of the Census), paper houses, and paper with a life expectancy of four hundred years. The overall market for paper disposables in 1969 exceeded a billion dollars. The seventies should witness an explosion in new paper products. As a result of increased operating rates, the higher selling price of paper, the improved rate of worker productivity, and the favorable rate of capital investment the capacity of Texas mills should increase to over 8,500 tons a day during the seventies. The industry should also achieve added stability as a result of new sources of earnings based on land development, mineral utilization, real-estate ventures, and increased merger activity.

Associated with the pulping expansion has been a strong trend toward a greater use of residues for pulping. From a negligible amount in 1955 residue use has grown to a 1968 production of 701,400 cords, which made up almost 28 percent of the pulpwood production for that year. 9 Despite the fact that most of the large producers of residues are already selling all they can produce and lumber production is not expected to increase markedly it is well within reason to anticipate an annual residue production of 1 million cords by 1980. Increased plywood production, changes in utilization standards, and greater salvage of chippable material currently being left in the woods will make larger contributions to residue production. Because of the increased installation of continuous digesters huge quantities of sawdust will also become economically usable for pulping.

Miscellaneous wood products, such as poles, piling, posts, and fuelwood, have been declining rather steadily over the years as a result of their susceptibility of replacement by substitute materials. They now constitute only about 4 percent of the timber cut each year. Since most of the substitution has already occurred, it appears that the drain from these souces will stabilize around 5 percent of the timber cut each year.

Research and development will play an increasingly important role in the future of the forest-products industry. It has often been stated, and is probably true, that most of the profits in the pulp and paper industry ten years from now will come from products which have not yet been discovered. While an increasing population plays a part in market demand, evidence suggests strongly that it may not be the dominant part. Throughout the twentieth century in America the great expansion of the pulp and paper industry has been mostly the result of an increased use of paper by each individual rather than the result of an increase in population. During the period from 1925 to 1968 population growth accounted for only 18 percent of the increased consumption with the remaining 82 percent attributed to the increase in per capita use. Choosing other time periods will yield results of different magnitude, but in almost every case population expansion will be found to be the minor element in the growth of this industry. In the seventies research will be essential for continued growth,

⁸ F. Gantzhorn, "Texas, Alabama, Louisiana-A Billion-Dollar Triumvirate," *Pulp and Paper*, November 27, 1967, p. 46.

⁹ R. C. Beltz, Southern Pulpwood Production, 1968, p. 6.

new-product development will become an integral part of any research program, advertising will take on added importance, and merchandizing will require greater attention. The policies developed in the seventies must give more consideration to per capita use and place less emphasis upon an anticipated population explosion. Lumber is a good example to examine. In the short period from 1950 to 1960 lumber lost 26 percent of its market because of a decreasing per capita use. About 53 percent of the loss was offset by consumption from an increasing population, but even the high population growth of that period was not sufficient to make up the loss arising from a smaller use of lumber by each individual. Without more research, better advertising, new products, and enlightened merchandizing the population growth in the decade ahead may not be great enough to offset the losses to substitutes and changing technologies.

All of the rosy predictions enumerated above are also dependent upon a strong upsurge in management policies. Business as usual will not be sufficient to meet the needs of the seventies. The problems from an industrial standpoint are twofold: more wood fiber must be grown; the wood fiber produced must be available to industry.

For all practical purposes, forestry to support these industries must be practiced within the Piney Woods of East Texas, which extend along the eastern edge of the state in a strip from 80 to 120 miles in width from the Red River on the north to the prairies of the Gulf on the south. They comprise an area larger than the states of Massachusetts and Vermont combined and their daily growth is sufficient to build 5,000 average single-family homes. Forests cover 61 percent of the land area of East Texas, almost all of which is available for timber growing. The total acreage of commercial forest land today (11.5 million acres) is about the same as it was a decade ago.

In recent decades the loss of commercial forest land to expanding cities, highways, water impoundments, and airports has been offset by the reversion of abandoned agricultural land to forest use. Abandonment has slowed down, however, and since little more agricultural reversion is likely to occur more wood must be grown on less land. This is true for Texas as well as for most of the other areas of the East.

To the outright loss of timber-growing land must be added the loss due to economic unavailability. As cities and towns expand, the forested areas surrounding them take on new value for real-estate development and their value increases accordingly. The consequent increase in tax assessments ultimately makes the practice of forestry uneconomical. A similar phenomenon occurs in areas in the vicinity of large water impoundments. Not only is the submerged area lost to timber growing, but owners in the surrounding areas begin to view their holdings as sources of income from recreation, which is generally considered incompatible with timber harvesting.

Texas is not making full use of its forest land. In fact, it is not growing more than one third of its potential. The average growth rate in East Texas is 0.6 cords per acre

annually after deducting for mortality. 10 A reasonable goal would be an average growth rate of 1 cord per acre annually by 1980 for the East Texas area. Achievement would require better fire, insect, and disease protection, the use of genetically superior tree stock for planting, a realistic thinning program, the use of fertilizers on the better sites, and an enlightened utilization program aimed at recovering more of the fiber which is grown and harvested. Mortality from uncontrolled fires accounts for about 100 million cubic feet of wood annually. This loss combined with other losses from fire—a slowing down of the growth rate of trees that survive, the ill effect upon wildlife production, and the deteriorating influence upon the soil, the air, and the water affords a more realistic estimate of the loss. Currently the cost-benefit ratio of fire protection is estimated at 1:4, which should justify added expenditures in the seventies. As long as the cost of control plus the value of the loss is less than the value of the material gained it will pay to protect the forest from fires. More intensive control of insect and disease losses also can add to the wood available for use. The timber-trends study estimated annual mortality from insects at 95 million cubic feet and from disease at 58 million cubic feet.11 The addition of associated losses would greatly enlarge these figures. Unknown causes which make up more than half of all mortality losses are principally made up of crowding and suppression, which could be greatly reduced by thinning and other management techniques. The production of more wood per acre would result from a wider use of genetically superior planting stock. Genetic research has developed progeny from superior trees, which have been planted in orchards and are now producing large quantities of improved seed. One of the leaders in this program is International Paper Company, which has announced that it is going to harvest 3.8 million acres of their land in nine Southern states and replant them with a new strain of super-trees it has been developing in its research program. It has been estimated that by the end of the seventies growth from plantations should be more than one tenth of all growth. 12 Fertilization of forest land is just emerging from the experimental stage and should make big strides in the seventies. In addition to improving growth by manipulating the genetic make-up of our trees and by changing the species which are to be grown on a particular site, we can also increase yields by manipulating the site itself. The addition of a few essential elements, such as nitrogen, phosphorus, and potassium, which are commonly deficient in land which has reverted from agricultural use, will normally yield good results. As the economics of fertilization becomes better known the practice should become widespread on the better sites. The need for more wood from less land should

¹⁰ H. D. Sternitzke, East Texas Pineywoods (Forest Service, U.S. Department of Agriculture, Forest Service Resource Bulletin SO-10, 1967), p. 7.

¹¹ Timber Trends in the United States, 1965, p. 182, Appendix Table 35.

¹² The South's Third Forest, A Report of the Southern Forest Resource Analysis committee, 1969, p. 17.

hasten the use of this silvicultural tool. All of this know-how is already available, but until now the need has not been sufficiently acute to stimulate foresters into concerted action. This intensive program should become reality in the seventies.

The wood fiber that is produced must be available to industry. This need will be one of the most acute forest-industry problems to be solved in the seventies. Conflicting use desires and changing ownership patterns will make wood procurement a test of managerial skill and resourcefulness. The demand for outdoor recreation has been growing rapidly as a result of the trend to greater affluence, more leisure time, longer vacations, shorter work weeks, greater retirement income, more dependable means of travel, and better facilities. As the urban population grows, the pace of day-to-day activities increases and living becomes more congested, pressure is generated to get away from it all, to relax in the woods, or to forget troubles by hunting, fishing, or picnicking.

The public lands in Texas are feeling this pressure and many areas have been set aside for recreational use only. The remaining public acreage, including that retained in multiple use, is experiencing policy modification which will cause an estimated 10- to 13-percent drop in its productive capacity. These same pressures are beginning to be felt by private forest holdings in Texas and the eventual impact may be substantial. Some 22 million acres of pulp-andpaper-company forest in the South are now open to hunting and fishing. Many more millions of acres of private woodlands in other industrial, farm, and miscellaneous ownerships are also open to the public. The number of acres of forest land set aside for single-purpose use, such as recreation, will increase in the seventies as a result of the Supreme Court's "one person-one vote" ruling. City residents will have a widening influence on public policies and if they desire public land to be set aside for recreational use they now have the vote with which to obtain their wish. Similar restrictions on harvesting of timber crops will result from the urgent need for water conservation and environmental planning. The time has come when forestry decisions must be based upon total environmental management instead of only sound silvicultural techniques.

Pulp mills in the South will not be able to obtain sufficient wood from their own holdings to meet their needs in the foreseeable future. Mill requirements have been expanding more rapidly than land acquisition and development, a situation which will require the purchase of more wood from outside sources. In 1968 pulp companies in the South were growing 45 percent of their requirements, but were actually obtaining only 25 to 30 percent of their mill requirements from their own lands. It is estimated that they will be able to obtain about 38 percent of their requirements from their own lands by 1980, still leaving a large amount to be obtained on the open market.

The economic and social conditions of the past two decades have influenced the ownership pattern of forest land in the South. In 1952 farm ownership in the South accounted for 46.7 percent of the commercial forest land, but by 1962 only 29.2 percent was farmer-owned. Miscel-

laneous private ownership in 1952 accounted for 27.4 percent of the acerage but by 1962 it had risen to 33.8 percent. During this time Texas followed the trend of the South. Following 1962, however, the forest industry in Texas began a serious program of land acquisition which temporarily slowed down the trend toward miscellaneous private ownership of forest lands. It is anticipated that the seventies will witness an acceleration in the rate of acquisition by miscellaneous private owners and a slow-down in fee simple acquisition by forest industries.

The characteristics of this new ownership class are different from those of former owners. In 1967 a study was conducted in East Texas covering the sales of forest land made during 1965 and 1966. Information obtained by questionnaires from both the buyer and the seller of each tract provided interesting information. The educational level attained by the new owners was found to be significantly higher than that of the sellers. Educationally, at least, it may be assumed that the new owners are better equipped to evaluate alternative users of their land, tend to have a better knowledge of its true value, and should be more prone to listen to management advice.

The income level of the buyers also was found to be higher than that of the sellers. While 61 percent of the sellers had incomes exceeding \$6,000, the buyers' incomes exceeded that figure in 97 percent of the cases. The new owners are not under the same financial pressure to sell their timber. This more affluent group includes a greater percentage of absentee owners, who normally will not be as concerned about property-tax increases as are local residents. Such nonresident ownership tends to create an atmosphere conducive to higher taxes, which could add to the cost of growing timber on all private lands.

The reasons given for ownership also varied. The sellers generally had owned the land for a considerable period of time and had acquired it by inheritance or as an adjunct to their main occupation. To many of them the woodlot was an occasional source of ready cash for the purchase of a washing machine or a car, or for an addition to the house. The new owners, in most cases, purchased the land not as a source of primary income, but for other reasons, such as esthetics, the joy of ownership, a tax write-off, or for other objectives which were not related to timber production. Current income from the land was often not sought or desired.

How will these changes affect management in the seventies? Over 65 percent of the commercial forest land in East Texas is owned by private landowners, many of whom know little about forestry, have no interest in selling forest crops, and feel that timber harvesting and their main reason for owning the land are not compatible. In order to obtain the timber on these holdings industry may have to control their logging more closely, make lighter and more frequent cuts, lop the tops so that the logging residue is less visible and will deteriorate more rapidly, use smaller equipment so

¹³L. Levens, "An Analysis of Changes in Forest Land Use Intention in Southeast Texas," unpublished master's thesis, Stephen F. Austin State University, Nacogdoches, Texas, 1967.

that damage to the residual stand will be kept to a minimum, reinstitute the practice of having Conservation Foresters who work directly with the landowner and inform the landowner of the income-tax implications of his cutting. All of these things will increase the cost of the wood to the company, but it seems the only choice is between higher-cost wood or no wood.

For many years foresters have dealt unsuccessfully with the problem of the small woodlot owner. He is constantly pointed out as the main problem in producing the wood fiber deemed essential. Free advice has been heaped upon him, extension-services assistance has been widespread, governmental subsidies have been handed out, college programs in farm forestry have been made available, short courses, symposiums, seminars, demonstrations, farm forties, and innumerable other schemes have been tried and the problems still remain. The seventies will hopefully witness significant progress in handling these properties as industry finally decides that the only solution is industrial management of the lands for the small owner. Industry is well equipped for the job, having the trained personnel, the organization, and most of all, the need for the wood.

RADIO STATIONS AIRING TEXAS BUSINESS REVIEW INTERVIEWS

Alpine - KVLF	Denison – KGCC	Odessa-KOYL
Amarillo – KIXZ	Fort Worth — WBAP	Odessa – KQIP
Austin - KNOW	Freeport - KBRZ	Pecos-KIUN
Austin - KOKE	Galveston-KGBC	$San\ Angelo-KPEP$
Austin - KVET	Gonzales - KCTI	San Antonio – KEEZ
Ballinger - KRUN	Henderson - KGRI	Sherman-KDSX
Big Spring — KBST	Henderson - KWRD	Shreveport-KEEL
Big Spring – KHEM	Houston-KILT	Stephenville-KSTV
Bowie – KBAN	Houston - KLEF	Texarkana - KATQ
Brownsville - KBOR	Houston-KODA	Tyler-KDOK
Brownwood - KBWD	Houston - KTHT (now KULF)	Uvalde-KVOU
Carrizo Springs — KBEN	Huntsville - KSAM	Victoria – KNAL
Conroe – KMCO	Kermit - KERB	Victoria – KVIC
Cuero – KCFH	La Grange - KVLG	Waco-KAWA
Dalhart - KXIT	Lampasas — KCYL	$We ather for d-KZ\!EE$
Dallas – KBOX	Lufkin – KRBA	Weslaco - KRGV
Dallas – KRLD	Monahans - KVKM	$Wichita\ Falls-KWFT$
	Navasota – KWBC	

TEXAS CONSTRUCTION

(Concluded)

Construction remains at the mercy of forces ranging, at one extreme, from the quite deliberate adjustments to the mechanism controlling interest rates to the wholly mindless occurrence of natural catastrophes at the other extreme. The downward adjustment of prime interest rates in late September, like several other recent tendencies in the state and national economies, is too recent and too tentative to be said to imply an early upswing in either residential building or urban construction generally.

SECURITIES REGISTRATION IN TEXAS FISCAL 1970

Ernest W. Walker

Fiscal 1970 marked the first decline in the volume of securities certified for sale by the State Securities Commissioner since 1963. The decline came as no surprise, since the market for securities during the year was extremely depressed. As a matter of fact, it is surprising that the volume remained above the \$1-billion mark. While the decrease was expected, an analysis of the various components of the total reveals some major changes that were quite unexpected.

The data in Table 1 reveal that the total dollar volume of all types of securities offered for sale during 1970 decreased \$330 million, a drop of 21.5 percent. Of the two types of securities approved for sale, original applications or renewal applications, renewals will ordinarily increase in volume at a more rapid rate during a depressed market than during a bull market. This trend prevailed during 1970, when renewals rose not only in dollar volume but relatively as well. In fact, the size of the relative increase was unusually large, for example, 33 percent of all applications in 1970 as compared to only 22 percent in fiscal 1969. Renewals resulting from all corporations except mutual investment companies increased 90.2 percent, while renewals from mutual investment companies increased only 16.5 percent. The increase for corporations other than mutual investment companies was not unusual, but the scant increase in applications by mutual investment companies was wholly unexpected, since as a general rule the volume of renewals in these organizations rises rapidly in a depressed market. The year 1969, when the market was depressed most of the

time, illustrates this concept, since renewals in mutual investment companies increased that year 62.1 percent over renewals in 1968.

There is sufficient reason to believe that the worst is over insofar as the market is concerned. If this is true the relative importance of renewals should decrease again during 1971; however, because of the time lag between recovery in the general market and its effect upon renewal applications, we should not expect a major reversal in renewals. In other words, if the market continues to recover we should not see a decline in the relative status of renewals until the third or fourth quarter of 1971.

Total applications approved declined \$393.4 million during 1970, a drop of 32.8 percent. An examination of the activity by quarters reveals that the decline in subsequent quarters was at an increasing rate except in the last quarter (Figure 1). For example, decreases of 5.2 percent, 14.7 percent, and 10.7 percent occurred in the second, third, and fourth quarters—the activity of each quarter declining in comparison to the activity of the preceding quarter. It may be significant that the decrease in the fourth quarter was not as great, in volume or in percentage, as that of the third quarter. While it is too early to make a prediction, it is believed that the downward movement has been reversed and that improvement should develop during the rest of 1970 and 1971.

An examination of the various components of the total reveals that original applications approved for sale (by Texas companies as well as foreign companies) experienced the greatest relative decline, accounting for \$331.2 million, or 84 percent of the total. It is also interesting to note that 59 percent of this decrease came in the second half of the year; but since the decrease in the fourth quarter was only slightly less than that of the third quarter, it appears that companies are beginning to go back into the market for funds.

	Table 1		
SECURITIES	REGISTRATION	IN TEXAS,	1969-1970
	(Millions of do	ollars)	

	First	half	Percent	Secon	d half	Percent	Full year		Percent
	1968-1969	1969-1970	change	1968-1969	1969-1970	change	1968-1969	1969-1970	change
Original applications									
Mutual investment companies Other corporate securities	203.3	215.7	6.1	217.5	142.9	- 34.3	420.8	358.6	- 14.
Texas companies	149.2	71.7	- 51.9	161.8	72.5	- 55.2	310.9	144.2	- 53.
Other companies	222.0	163.0	- 26.5	244.2	138.6	- 43.2	466.2	301.6	- 35.
Subtotal	371.2	234.8	- 36.7	406.0	211.1	- 48.0	777.1	445.9	- 42.0
Total original applications	574.5	450.5	- 21.6	623.5	354.0	- 43.2	1197.9	804.5	- 32.
Renewal applications									
Mutual investment companies Other corporate securities	176.4	190.1	7.7	146.1	185.7	14.8	322.5	375.8	16.
Texas companies	1.5	1.0	- 33.3	5.4	8.3	53.7	6.9	9.3	34.
Other companies	2.1	2.6	23.8	2.2	9.4	327.3	4.3	12.0	179.
Subtotal	3.6	3.6	0	7.6	17.7	132.9	11.2	21.3	90.
Total renewals	180.0	193.7	7.6	153.7	203.4	32.3	33.7	397.1	19.
GRAND TOTAL	754.4	644.2		777.2	557.4	- 28.3	1531.6	1201.6	- 21.

The data indicate that approved applications of Texas companies, which fell 53.6 percent, decreased substantially more than those from other corporations, which declined only 35.3 percent. One explanation of this difference is that the stock of smaller companies, such as most of the Texas corporations, is not as acceptable generally as that of larger corporations. As a consequence, small corporations are more hesitant about going to the market. In all likelihood, the volume of stock submitted for approval by Texas companies will be greater than that of other corporations once the market rights itself.

A paradox seems to exist in the relationship between the volume of securities approved for sale and the number of licenses issued. That is to say, while volume was declining, licences increased 1,287 or 14 percent in 1970 as compared to 1969. It should be pointed out, however, that the increase in 1970 was approximately one half of that experienced in 1969.

The data in Table 4 reveal that the number, as well as the dollar value, of withdrawals showed a sizable growth during 1970, reaching their highest level of the past ten years. While the reason why each request was withdrawn cannot be ascertained, it can be assumed that the depressed market played a major role. Rather than continue to offer

Table 2

SECURITIES REGISTRATION IN TEXAS RENEWALS, FISCAL YEARS 1960-1970

Years	All applications (Millions of dollars)	Renewals (Millions of dollars)	Renewals as percent of total
1960	264.1	70.1	26.5
1961	351.6	83.1	23.6
1962	357.3	100.5	28.1
1963	249.3	97.9	39.3
1964	321.1	104.7	32.6
1965	385.1	101.8	26.4
1966	539.9	146.8	27.2
1967	624.2	162.0	26.0
1968	1,087.7	214.3	19.7
1969	1,531.6	333.7	21.8
1970	1,201.6	397.1	33.0

Table 3

DOLLAR VALUE AND PERCENT INCREASE
OF ALL APPLICATIONS AND ORIGINAL APPLICATIONS
AUTHORIZED FOR SALE DURING FISCAL 1960-1970

(Millions of dollars)

	Dollar value previous 1,201.6 - 21. 1,531.6 40. 1,087.7 74. 642.2 15. 540.1 40. 385.1 19. 321.1 28. 249.3 - 30. 357.3 1.	applications	Origina	l applications
Year		Percent increase over previous year	Dollar value	Percent increase over previous year
1970	1,201.6	- 21.5	804.5	- 32.8
1969	1,531.6	40.8	1,197.9	37.2
1968	1,087.7	74.3	873.4	90.0
1967	642.2	15.6	462.2	17.6
1966	540.1	40.2	393.1	38.8
1965	385.1	19.9	283.3	30.9
1964	321.1	28.8	216.4	42.9
1963	249.3	-30.2	151.4	- 41.0
1962	357.3	1.6	256.8	- 4.4
1961	351.6	33.1	268.5	38.4
1960	264.1		194.0	

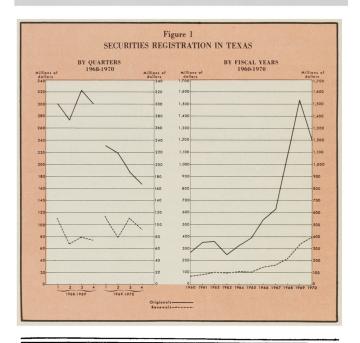
the securities at depressed prices, companies presumably withdrew them, with the idea that they could be reoffered at a better price at a later date.

It is important to note that general market conditions govern the characteristics of the securities market in Texas. Though the volume of securities offered for sale in Texas is off, the Texas market continues to be relatively strong. In spite of definite evidence that the volume of securities approved for sale will increase during 1971, we should not expect a major recovery until the last half of fiscal 1971.

Table 4

NUMBER AND DOLLAR VOLUME
OF APPLICATIONS WITHDRAWN
FISCAL 1969-1970

	1969 hdrawals	Wi	1970 Withdrawals				
Number	Amount	Number	Amount				
endment 0		0	0				
142	\$62,386,599	293	\$169,999,571				
0	0	2	825,000				
23	5,901,180	26	7,778,213				
1	271,450	3	241,094				
166	\$68,559,229	324	\$178,843,878				
	Wit Number 0 142 0 23 1	Withdrawals Number Amount 0 0 142 \$62,386,599 0 0 23 5,901,180 1 271,450	Withdrawals Wi Number Amount Number 0 0 0 142 \$62,386,599 293 0 0 2 23 5,901,180 26 1 271,450 3				



Correction of Errata

The Texas Business Review regrets two errors which appeared in the August 1970 issue, p. 200:

In the last stub in both divisions (senior and junior colleges) of the table relative to "Texas Biennial Legislative Appropriations" for higher education the first year in the biennium should be 1969 instead of 1960.

In the table on "Expenditures for Texas Public Schools" the footnote on projections should have included the phrase, "using current trends."

LOCAL BUSINESS CONDITIONS

Statistical data compiled by Mildred Anderson, statistical associate, Constance Cooledge and Glenda Riley, statistical assistants, and Kay Davis and Lydia Gorena, statistical technicians.

The indicators of local business conditions in Texas which are included in this section are statistics on bank debits, urban building permits, and employment. The data are reported by metropolitan areas in the first table below and by municipalities within counties in the second table.

Standard metropolitan statistical areas (SMSA's) in Texas are defined by county lines; in the first table the counties included in the area are listed under each SMSA. Since the Bryan-College Station area and the Longview-Kilgore-Gladewater area are functioning as significant metropolitan complexes in their regions, although not officially designated as SMSA's by the Bureau of the Census, data for these areas have been included in the table for SMSA's. In both tables the populations shown for the SMSA's and for the counties are the preliminary population counts of the 1970 census. In the second table the population values for individual municipalities are also preliminary counts of the 1970 census, unless otherwise indicated. Population estimates made for municipalities in noncensus years are commonly based on utility connections, and these estimates are subject to the errors inherent in a process dependent on base ratios derived in 1960.

The values of urban building permits have been collected from participating municipal authorities by the Bureau of Business Research in cooperation with the Bureau of the Census of the U.S. Department of Commerce. Inasmuch as building permits are not required by county authorities, it must be emphasized that the reported permits reflect construction intentions only in incorporated places. Permits are reported for residential and nonresidential building only, and do not include public-works projects such as roadways, waterways, or reservoirs; nor do they include construction let under federal contracts.

The values of bank debits for all SMSA's and for most central cities of the SMSA's have been collected by the Federal Reserve Bank of Dallas. Bank debits for the remaining municipalities have been collected from cooperating banks by the Bureau of Business Research.

Employment estimates are compiled by the Texas Employment Commission in cooperation with the Bureau of Labor Statistics of the U.S. Department of Labor.

INDICATORS OF LOCAL BUSINESS CONDITIONS FOR STANDARD METROPOLITAN STATISTICAL AREAS AUGUST 1970

		Percent fro				Percent	_
Reported area and indicator	Aug 1970	July 1970	Aug 1969	Reported area and indicator	Aug 1970	July 1970	Aug 1969
ABILENE SMSA				BRYAN-COLLEGE STATION MET	TROPOLITAN A	REA	
Jones and Taylor Counties; popula	ation 112,168			Brazos County; population 56,079	9		
Urban building permits (dollars)	138,437	- 95	- 56	Urban building permits (dollars)	897,382		61
Bank debits, seas. adj. (\$1,000)	181,985	2	10	Bank debits (\$1,000)	77,811	- 14	1
Nonfarm employment	41,350	**	2	(Monthly employment reports	are not ava	ilable fo	r th
Manufacturing employment	5,510	1	5	Bryan-College Station Metropolitan	Area.)		
Unemployed (percent)	4.1	11	46		,		
				CORPUS CHRISTI SMSA			
AMARILLO SMSA				Nueces and San Patricio Counties	population 278	.410	
Potter and Randall Counties; popu	ulation 140,876			Urban building permits (dollars)	1,723,240	- 27	- 11
Urban building permits (dollars)	1,580,550	33	- 61	Bank debits, seas. adj. (\$1.000)	383,339	- 5	- 1
Bank debits, seas. adj. (\$1,000)	476,837	- 3	5	Nonfarm employment	98,200	7	
Nonfarm employment	63,400	**	4	Manufacturing employment	11,840	- 1	
Manufacturing employment	8,360	* *	34	Unemployed (percent)	6.6	32	6
Unemployed (percent)	3.4	- 17	- 11	chemployed (percent)	0.0	32	U
AUSTIN SMSA				DALLAS SMSA		".	
Travis County; population 289,49	0			Collin, Dallas, Denton, Ellis, Kauf	man, and Rocky	vall Count	ies;
Urban building permits (dollars)	14,296,741	- 13	123	population 1,539,350			
Bank debits, seas. adj. (\$1,000)	736,949	- 13 5	5	Urban building permits (dollars)	37,428,401	- 31	- 1
Nonfarm employment	123,500	1		Bank debits, seas. adj. (\$1,000)	9,792,136	- 10	1
Manufacturing employment	12,160		3	Nonfarm employment	723,200	- 1	
Unemployed (percent)	2.6	1	11	Manufacturing employment	156,825	- 3	- 1
onemployed (percent)	2.6	- 13	53	Unemployed (percent)	3.2	- 6	7
BEAUMONT-PORT ARTHUR-ORA				EL PASO SMSA			
Jefferson and Orange Counties; po	opulation 313,09	19		El Paso County; population 347,1	03		
Urban building permits (dollars)	1,175,531	- 34	- 31	Urban building permits (dollars)	4,695,039	- 28	
Bank debits, seas. adj. (\$1,000)	495,977	- 4	3	Bank debits, seas. adj. (\$1,000)	619,825	1	1
Nonfarm employment	119,400	1	**	Nonfarm employment	117,000	**	1
Manufacturing employment	37,600	1	**	Manufacturing employment	24,570	- 1	
Unemployed (percent)	4.6	- 6	39	Unemployed (percent)	5.1	- 1 - 7	3
BROWNSVILLE-HARLINGEN-SAI	N BENITO SMS.	A		FORT WORTH SMSA			
Cameron County; population 137	.506			Johnson and Tarrant Counties; po	mulation 757 10	· E	
Urban building permits (dollars)	1,717,062	194	122	Urban building namits (d. 11			
Bank debits, seas. adj. (\$1,000)	103,128	- 39	9	Urban building permits (dollars)	22,670,018	63	11
Nonfarm employment	39,750	3	**	Bank debits, seas. adj. (\$1,000) Nonfarm employment	1,887,064	4	1
Manufacturing employment	6,100	- 3	- 5		302,600	**	
Unemployed (percent)	6.8	- 3	- 5 24	Manufacturing employment Unemployed (percent)	90,300	- 1	-

			t change			Percent	change
Reported area and indicator	Aug 1970	July 1970	Aug 1969	Reported area and indicator	Aug 1970	July 1970	Aug 1969
GALVESTON-TEXAS CITY SMSA				ODESSA SMSA			
Galveston County; population 16				Ector County; population 90,132			
Urban building permits (dollars)	1,035,905	21	- 40	Urban building permits (dollars)	278,266	- 53	- 57
Bank debits, seas. adj. (\$1,000)	225,977	- 2	5	Bank debits, seas. adj. (\$1,000)	136,453	8	1
Nonfarm employment Manufacturing employment	66,500	- 1	13	Nonfarm employment	61,600	**	- 1
Unemployed (percent)	12,100 4.6	- 1 - 12	7 - 6	Manufacturing employment Unemployed (percent)	5,190	- 1 - 13	2
enemployed (percent)	4.0	- 12	- 6	(Employment data are reported f Odessa SMSA's since employment	3.9 for the combin	ed Midla	nd and
HOUSTON SMSA Brazoria, Fort Bend, Harris, Liber	rty, and Montgo	nery Cou	nties;	Counties, composing one labor-n combined form by the Texas Emplo	narket area, a	re recor	ded in
population 1,957,688				CAN ANCELO CMCA			
Urban building permits (dollars)	44,512,035	10	- 4	SAN ANGELO SMSA	0.53		
Bank debits, seas. adj. (\$1,000) Nonfarm employment	8,546,943	- 4	11	Tom Green County; population 70 Urban building permits (dollars)			
Manufaturing employment	868,100 147,000	**	5 2	Bank debits, seas. adj. (\$1,000)	242,888 101,434	- 90 1	- 7: 10
Unemployed (percent)	2.7	- 10	29	Nonfarm employment	23,950	1	10
*		10		Manufacturing employment Unemployed (percent)	3,980 3.5	2 - 19	- 12 - 3
LAREDO SMSA				CAN ANTONIO CMCA			
Webb County; population 69,024				SAN ANTONIO SMSA	1-4: 062 66		
Urban building permits (dollars)	1,091,873	- 29	666	Bexar and Guadalupe Counties; po Urban building permits (dollars)			41
Bank debits, seas. adj. (\$1,000) Nonfarm employment	82,877	3	22	Bank debits, seas. adj. (\$1,000)	10,925,778 1,510,907	31 - 5	10
Manufacturing employment	24,850 1,550	**	1 15	Nonfarm employment	290,200	**	2
Unemployed (percent)	8.7	- 6	34	Manufacturing employment Unemployed (percent)	34,250 5.6	- 1 - 3	10 30
LONGVIEW-KILGORE-GLADEW A Gregg County; population 73,510 Urban building permits (dollars) Bank debits (\$1,000) Nonfarm employment	115,493 35,100	- 8 - 1	··· 2 **	SHERMAN-DENISON SMSA Grayson County; population 80,84 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) (Monthly employment reports Sherman-Denison SMSA.)	703,836 87,801	– 78 – 9 ilable fo	- 39
Manufacturing employment	10,070	- 2	- 1	Sherman-Demson SMSA.)			
Unemployed (percent) (Building permits and bank debits a Kilgore and Gladewater in Rusk Co				TEXARKANA SMSA Bowie County, Texas and Miller Co population 100,000	ounty, Arkansas	;;	
				Urban building permits (dollars)	143,119	- 19	- 61
				Bank debits, seas. adj. (\$1,000)	118,878	**	- 2
				Nonfarm employment	40,800	**	- 8
Lubbock County; population 175				Manufacturing employment			- 29
Lubbock County; population 175 Urban building permits(dollars)	7,171,085	109	324		10,670	**	111
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000)	7,171,085 446,877	4	15	Unemployed (percent)	7.1	- 5	
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment	7,171,085 446,877 62,100		15 - 3	Unemployed (percent) (Since the Texarkana SMSA includ	7.1 es Bowie Coun	- 5 ity in Tex	xas and
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment	7,171,085 446,877	4	15	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.)	7.1 es Bowie Coun	- 5 ity in Tex	xas and
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent)	7,171,085 446,877 62,100 6,880 4.7	4 1 **	15 - 3 - 2	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA	7.1 es Bowie Coun	- 5 ity in Tex	xas and
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) McALLEN-PHARR-EDINBURG SM	7,171,085 446,877 62,100 6,880 4.7	4 1 **	15 - 3 - 2	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081	7.1 es Bowie Coun , including pop	– 5 ity in Tex pulation, r	xas and refer to
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) McALLEN-PHARR-EDINBURG SM Hidalgo County; population 172,4	7,171,085 446,877 62,100 6,880 4.7	4 1 ** - 24	15 - 3 - 2 38	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars)	7.1 es Bowie Count, including pop	- 5 ty in Texturble - 5 ty	xas and refer to - 88
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) McALLEN-PHARR-EDINBURG SM Hidalgo County; population 172,6 Urban building permits (dollars)	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025	4 1 ** - 24	15 - 3 - 2 38	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081	7.1 es Bowie Coun , including pop	– 5 ity in Tex pulation, r	cefer to
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) MCALLEN-PHARR-EDINBURG SM Hidalgo County; population 172,4 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000)	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025 118,678	4 1 ** - 24	15 - 3 - 2 38	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment	7.1 es Bowie Count, including pop 687,702 188,931	- 5 aty in Texturbation, resultation, results - 66 2	vas and refer to - 88
Lubbock County; population 175 Jrban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Jnemployed (percent) McALLEN-PHARR-EDINBURG SM Hidalgo County; population 172,4 Jrban building permits (dollars) Bank debits, seas. adj. (\$1,000)	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025	4 1 ** - 24 47 - 18 1 - 13	15 - 3 - 2 38 225 11 2 - 7	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment	7.1 es Bowie Coun , including pop 687,702 188,931 40,700	- 5 ity in Textulation, r - 66 2 **	- 88
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Jnemployed (percent) MCALLEN-PHARR-EDINBURG SM Hidalgo County; population 172, Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025 118,678 41,800	4 1 ** - 24 47 - 18 1	15 - 3 - 2 38 225 11 2	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WACO SMSA	7.1 es Bowie Coun , including pop 687,702 188,931 40,700 13,100 3.1	- 5 ity in Textulation, r - 66 2 ** **	efer to
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Jnemployed (percent) MCALLEN-PHARR-EDINBURG SM Hidalgo County; population 172,6 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Jnemployed (percent)	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025 118,678 41,800 3,730	4 1 ** - 24 47 - 18 1 - 13	15 - 3 - 2 38 225 11 2 - 7	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WACO SMSA McLennan County; population 142	7.1 es Bowie Coun , including pop 687,702 188,931 40,700 13,100 3.1	- 5 hty in Textulation, results of the second control of the secon	- 88
Lubbock County; population 175 Jrban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Jnemployed (percent) MCALLEN-PHARR-EDINBURG SM Hidalgo County; population 172,6 Jrban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Jnemployed (percent)	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025 118,678 41,800 3,730 6.5	4 1 ** - 24 47 - 18 1 - 13	15 - 3 - 2 38 225 11 2 - 7	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WACO SMSA McLennan County; population 142 Urban building permits (dollars)	7.1 es Bowie Coun , including pop 687,702 188,931 40,700 13,100 3.1 2,772 2,726,406	- 5 hty in Textulation, results of the second secon	- 88 () 16 24
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Jnemployed (percent) MCALLEN-PHARR-EDINBURG SM Hidalgo County; population 172, Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Jnemployed (percent) MIDLAND SMSA Midland County; population 64,10	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025 118,678 41,800 3,730 6.5	4 1 ** - 24 47 - 18 1 - 13 - 8	15 - 3 - 2 38 225 11 2 - 7 3	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WACO SMSA McLennan County; population 142	7.1 es Bowie Coun , including pop 687,702 188,931 40,700 13,100 3.1	- 5 hty in Textulation, results of the second control of the secon	- 88
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) McALLEN-PHARR-EDINBURG SM Hidalgo County; population 172, Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) MIDLAND SMSA Midland County; population 64,10 Urban building permits (dollars)	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025 118,678 41,800 3,730 6.5	4 1 ** - 24 47 - 18 1 - 13	15 - 3 - 2 38 225 11 2 - 7	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WACO SMSA McLennan County; population 142 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Manufacturing employment	7.1 es Bowie Coun , including pop 687,702 188,931 40,700 13,100 3.1 2,772 2,726,406 253,753 59,300 12,830	- 5 ty in Textulation, resultation, resultat	- 88
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) MCALLEN-PHARR-EDINBURG SM. Hidalgo County; population 172,6 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Jnemployed (percent) MIDLAND SMSA Midland County; population 64,10 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025 118,678 41,800 3,730 6.5 68 325,750 156,216 61,600	4 1 ** - 24 47 - 18 1 - 13 - 8	15 - 3 - 2 - 38 225 111 2 - 7 3	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WACO SMSA McLennan County; population 142 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment	7.1 es Bowie Count, including pop 687,702 188,931 40,700 13,100 3.1 2,772 2,726,406 253,753 59,300	- 5 ty in Textulation, resultation, resultat	- 88
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) McALLEN-PHARR-EDINBURG SM Hidalgo County; population 172,6 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) MIDLAND SMSA Midland County; population 64,16 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Unemployed (percent)	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025 118,678 41,800 3,730 6.5 68 325,750 156,216 61,600 5,190	4 1 ** - 24 47 - 18 1 - 13 - 8	15 - 3 - 2 38 225 11 2 - 7 3	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WACO SMSA McLennan County; population 142 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent)	7.1 es Bowie Coun , including pop 687,702 188,931 40,700 13,100 3.1 2,772 2,726,406 253,753 59,300 12,830	- 5 ty in Textulation, resultation, resultat	- 88
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) McALLEN-PHARR-EDINBURG SM Hidalgo County; population 172, Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) MIDLAND SMSA Midland County; population 64,10 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Unemployed (percent) MIDLAND SMSA Midland County; population 64,10 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent)	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025 118,678 41,800 3,730 6.5 68 325,750 156,216 61,600 5,190 3.9	4 1 ** - 24 47 - 18 1 - 13 - 8	15 - 3 - 2 38 225 11 2 - 7 3	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WACO SMSA McLennan County; population 142 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent)	7.1 es Bowie Coun i, including pop 687,702 188,931 40,700 13,100 3.1 2,772 2,726,406 253,753 59,300 12,830 3.8	- 5 ty in Textulation, resultation, resultat	- 88
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) McALLEN-PHARR-EDINBURG SM Hidalgo County; population 172, Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) MIDLAND SMSA Midland County; population 64,10 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Jnemployed (percent) Employment data are reported	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025 118,678 41,800 3,730 6.5 68 325,750 156,216 61,600 5,190 3.9 for the combin	4 1 ** - 24 47 - 18 1 - 13 - 8	15 - 3 - 2 38 225 11 2 - 7 3 - 55 2 - 1 1 30 nd and	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WACO SMSA McLennan County; population 142 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WICHITA FALLS SMSA Archer and Wichita Counties; population 142	7.1 es Bowie Coun i, including pop 687,702 188,931 40,700 13,100 3.1 2,772 2,726,406 253,753 59,300 12,830 3.8 dation 124,238	- 5 hty in Textulation, resultation, resulta	- 88 () () () () () () () () ()
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) McALLEN-PHARR-EDINBURG SM Hidalgo County; population 172,4 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) MIDLAND SMSA Midland County; population 64,10 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Unemployed (percent) Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) Employment data are reported obdessa SMSA's since employment	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025 118,678 41,800 3,730 6.5 68 325,750 156,216 61,600 5,190 3,90 for the combin figures for Mic	4 1 ** - 24 47 - 18 1 - 13 - 8	15 - 3 - 2 - 38 225 111 2 - 7 3 - 55 2 - 1 10 10 10 10 10 10 10 10 10 1	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WACO SMSA McLennan County; population 142 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent)	7.1 es Bowie Coun i, including pop 687,702 188,931 40,700 13,100 3.1 2,772 2,726,406 253,753 59,300 12,830 3.8	- 5 ty in Textulation, resultation, resultat	- 88 () () () () () () () () ()
Lubbock County; population 175 Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) McALLEN-PHARR-EDINBURG SM Hidalgo County; population 172,4 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) MIDLAND SMSA Midland County; population 64,10 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) (Employment data are reported obdessa SMSA's since employment Counties, composing one labor-	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025 118,678 41,800 3,730 6.5 68 325,750 156,216 61,600 5,190 3.9 for the combin if figures for Mic	4 1 ** - 24 47 - 18 1 - 13 - 8 - 37 - 9 ** - 1,-13 ed Midla: dland and re recorr	15 - 3 - 2 - 38 225 111 2 - 7 3 - 55 2 - 1 10 10 10 10 10 10 10 10 10 1	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WACO SMSA McLennan County; population 142 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WICHITA FALLS SMSA Archer and Wichita Counties; population building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment	7.1 es Bowie Count, including pop 687,702 188,931 40,700 13,100 3.1 2,772 2,726,406 253,753 59,300 12,830 3.8 dation 124,238 1,557,799 195,428 48,600	- 5 ty in Textulation, resultation, resulta	- 88 6 7 16 24 88 8 9 1 - 2 * * *
Urban building permits(dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) McALLEN-PHARR-EDINBURG SM Hidalgo County; population 172, Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) MIDLAND SMSA Midland County; population 64,10 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment	7,171,085 446,877 62,100 6,880 4.7 MSA 469 1,779,025 118,678 41,800 3,730 6.5 68 325,750 156,216 61,600 5,190 3.9 for the combinic figures for Mimarket area, appropriate operation of the combinic operation operation of the combinic operation of the combinic operation operation of the combinic operation operation operation operation operation operation operation operation operation operat	4 1 ** - 24 47 - 18 1 - 13 - 8 - 37 - 9 ** - 1 1 - 13 ed Midla dland and re recordion.)	15 - 3 - 2 - 38 225 111 2 - 7 3 - 55 2 - 1 10 10 10 10 10 10 10 10 10 1	Unemployed (percent) (Since the Texarkana SMSA includ Miller County in Arkansas, all data the two-county region.) TYLER SMSA Smith County; population 93,081 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WACO SMSA McLennan County; population 142 Urban building permits (dollars) Bank debits, seas. adj. (\$1,000) Nonfarm employment Manufacturing employment Unemployed (percent) WICHITA FALLS SMSA Archer and Wichita Counties; population building permits (dollars) Bank debits, seas. adj. (\$1,000)	7.1 es Bowie Coun I, including pop 687,702 188,931 40,700 13,100 3.1 2,772 2,726,406 253,753 59,300 12,830 3.8 Idation 124,238 1,557,799 195,428	- 5 ty in Textulation, resultation, resulta	- 88 6 24 88 9 1 111 5

INDICATORS OF LOCAL BUSINESS CONDITIONS FOR INDIVIDUAL MUNICIPALITIES AUGUST 1970

		Urban bu	ilding perr	nits	Ban	k debits		Nonf	arm place	ments
			Percent			Percent				t change
COUNTY City	Population*	Aug 1970 (dollars)	fro July 1970	om Aug 1969	Aug 1970 (thousands of dollars)	fro July 1970	Aug 1969	Aug 1970	July 1970	om Aug 1969
ANDERSON Palestine	26,593 14,518	118,625	- 37	95	19,212	- 15	10	32	23	- 55
ANDREWS Andrews	10,217	52,450	- 24	71	8,010	- 12	9			
ANGELINA Lufkin	49,153 23,739	470,990	430	279				49	123	- 30
ARANSAS Aransas Pass (1960)	8,468 6,956				7,378	- 14				
ATASCOSA Pleasanton (1969)	18,360 6,000	61,650	65	69	5,824	- 11	19			
AUSTIN Bellville (1960)	13,243 2,218	50,000	933	- 15	7,546	- 1	15			
BAILEY Muleshoe (1969)	8,172 4,945				14,766	- 14	19			
BASTROP Smithville (1969)	16,828 2,935	49,289		721						
BEE Beeville	22,161 13,080	12,995	- 57	- 81	18,121	- 8	7	155	158	85
BELL Bartlett (1960) Belton	117,242 1,540 8,476	151,400	133	208	2,034	69	- 6			
Killeen Temple	34,953 32,645	482,108 550,150	- 23 - 31	- 5 39	35,117 61,269	- 2 - 2	3 16	287	61	24
BEXAR (In San Antonio SMSA) San Antonio	830,656 648,189	10,409,487	31	53	1,416,735	- 13	12			
BOWIE (In Texarkana SMSA)	66,926	,,			-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Texarkana (1969)	50,006	110,450	- 11	- 67	119,656	3	4			
BRAZORIA (In Houston SMSA) Angleton	9,469	2,000	- 98	- 94	16,767	- 9	2			
Clute Freeport	5,871	42,180	- 90	- 27	3,695	- 35	4			
Pearland (1960)	11,953 1,430	3,000 295,440	- 94 - 61	- 99 - 48	27,323 7,846	- 9 13	7 24			
BRAZOS	56,079									
Bryan College Station	32,489 17,283	737,400 159,982	99	103 - 19	68,228 9,583	- 13 - 21	14 - 13	437	73	51
BREWSTER Alpine (1960)	7,534 4,740	192,167	242		4,993	- 9	9			
BROWN Brownwood	24,397 16,277	157,550	- 7	- 60				137	46	59
BURLESON Caldwell (1969)	9,721 2,204				4,043	- 13	- 5			
BURNET Marble Falls	10,655 1,979				4,998	- 18	15			
CALDWELL Lockhart	20,694 6,444	16,590	- 52	- 26	8,278	- 1	4			
CAMERON (Constitutes Brownsville- Harlingen-San Benito SMSA	137,506 A)									
Brownsville	51,080	1,624,216	253	130	56,101	- 24	11	530	58	- 7
Harlingen La Feria (1969) Los Fresnos (1960)	34,005 3,740 1,289	20,480 0	- 78 	- 54 	82,296 2,215 2,904	- 1 - 23 - 9	2 - 24 9	357	26	- 5

		Urban bu	ilding perr	nits	Ban	k debits		Nonfarm placements		
			Percent	change		Percent			Percent	change
COUNTY City	Population*	Aug 1970 (dollars)	fro July 1970	Aug 1969	Aug 1970 (thousands of dollars)	fro July 1970	M Aug 1969	Aug 1970	July 1970	Aug 1969
Port Isabel (1960) San Benito	3,575 14,909	72,366	554	212	2,181 8,120	8 - 13	- 17 - 5		.:	
CASTRO Dimmitt (1969)	10,292 4,500				19,445	- 4	22			
CHEROKEE Jacksonville	31,041 9,411	13,500	- 96	193	21,819	- 11	- 4			
COLLIN (In Dallas SMSA)	65,355									
McKinney Plano	14,773 17,600	96,350 1,142,233	- 75 - 16	96 - 52	13,908	- 14 · ·	8	63	57	- 38 · ·
COLORADO Eagle Lake (1960)	17,155 3,565				5,703	18	6			
COMAL New Braunfels	23,601 17,610	492,127	22	50	23,301	- 4	5			
COOKE	22,856									
Gainesville	13,565	75,000	- 21	- 78	18,123	- 10				
Muenster (1960) CORYELL	1,190 34,761	11,000	83	450	2,923	- 11	- 19			
Copperas Cove	10,608	87,467	- 79	162	3,779	2	16			
Gatesville (1969)	5,180				9,534	- 9	16			
CRANE Crane	4,132 3,447	0			2,382	- 4	22			
DALLAS (In Dallas SMSA)	1,316,222									
Carrollton	13,701	2,113,504	393	- 3	11,238	- 7	19			
Dallas	836,093	13,480,085	- 56	- 50	9,410,967	- 7 8	15			
Farmers Branch Garland	27,177 80,659	802,753 3,685,218	$\frac{38}{-26}$	- 77 113	22,104 61,025	- 11	63			
Grand Prairie	52,409	6,482,868	102	239	33,528	10	4			
Irving	97,457	4,705,701	- 13	340	78,442	- 2 **	$-10 \\ -18$			
Lancaster Mesquite	10,612 55,134	632,440 2,045,716		238 88	8,413 22,569	2	14		::	::
Richardson	47,596	3,562,058	254	126	50,302	- 2	7			
Seagoville	4,253	19,143	- 83	195	11,012	9	61			
DAWSON Lamesa	16,231 12,348	1,100		- 69	22,527	- 5	25	81	23	- 1
DEAF SMITH Hereford	18,533 13,092	418,600	26	167						
DENTON (In Dallas SMSA)	73,533									
Denton	38,865	906,469	23	- 31	53,758	- 9	15	124	28	- 13
Justin (1960)	622	0			1,163	2	12			
Lewisville Pilot Point (1969)	9,146 1,603	2,274,785 66,500	48 40	983 171	11,399 2,519	- 14 - 4	70 22		::	
1 not 1 omt (1909)	1,005	00,000			_,					
DE WITT Yoakum (1960)	17,872 5,761	50,210	- 85		11,789	4				
EASTLAND Cisco	17,527 3,817				3,921	- 11	- 9			
ECTOR (Constitutes Odessa SMSA)	90,132									
Odessa	76,617	278,266	- 53	- 57	132,454	- 2	1	605	54	- 47
ELLIS (In Dallas SMSA) Ennis	45,693 10,904				8,852	- 12	- 4			
Midlothian (1969) Waxahachie	1,580 13,147	64,000 29,145	- 93	- 83	2,267 18,099	- ² 4	17 9	67	49	- 32
EL PASO (Constitutes El Paso SMSA)	347,103									
El Paso	317,462	4,695,039	- 27	2	561,570	- 10	11			
ERATH Stephenville	17,527 9,297	103,100	- 49	- 32	14,452	- 8	12			

FANNIN Bonham (1969) FORT BEND (In Houston SMSA) Richmond (1969) Rosenberg GAINES Seagraves (1960) Seminole (1960)	22,018 9,506 51,410 4,500 11,960 11,575 2,307 5,737 165,669 4,715 60,714 15,984 38,393 10,277 5,240	Aug 1970 (dollars) 145,180 3,450 163,396 1,000 2,195 633,950 93,658 401,955	Percent fro July 1970 61 - 95 ** - 93 33 16 34	M Aug 1969 - 55 - 97 40 - 46	Aug 1970 (thousands of dollars) 12,403 7,341 3,045 6,304	Percent fro July 1970 - 6 - 5 - 12 - 11		Aug 1970	Percent fro July 1970	
City Pop FANNIN Bonham (1969) FORT BEND (In Houston SMSA) Richmond (1969) Rosenberg GAINES Seagraves (1960) Seminole (1960) GALVESTON (Constitutes Galveston- Texas City SMSA) Dickinson (1960) Galveston La Marque Texas City GILLESPIE Fredericksburg	22,018 9,506 51,410 4,500 11,960 11,575 2,307 5,737 165,669 4,715 60,714 15,984 38,393 10,277 5,240 16,766	(dollars) 145,180 3,450 163,396 1,000 2,195 633,950 93,658 401,955	1970 61 - 95 ** - 93	- 55 - 97 - 40 - 46	7,341 3,045 6,304	1970 - 6 - 5 	1969 13 - 5 			
Bonham (1969) FORT BEND (In Houston SMSA) Richmond (1969) Rosenberg GAINES Seagraves (1960) Seminole (1960) GALVESTON (Constitutes Galveston- Texas City SMSA) Dickinson (1960) Galveston La Marque Texas City GILLESPIE Fredericksburg	9,506 51,410 4,500 11,960 11,575 2,307 5,737 165,669 4,715 60,714 15,984 38,393 10,277 5,240 16,766	3,450 163,396 1,000 2,195	- 95 ** - 93	- 97 40 - 46	7,341 3,045 6,304	- 5 	- 5 8	::	::	::
(In Houston SMSA) Richmond (1969) Rosenberg GAINES Seagraves (1960) Seminole (1960) GALVESTON (Constitutes Galveston- Texas City SMSA) Dickinson (1960) Galveston La Marque Texas City GILLESPIE Fredericksburg	4,500 11,960 11,575 2,307 5,737 165,669 4,715 60,714 15,984 38,393 10,277 5,240 16,766	1,000 2,195 633,950 93,658 401,955	** - 93	40 - 46	3,045 6,304	- 12	8			
Richmond (1969) Rosenberg GAINES Seagraves (1960) Seminole (1960) GALVESTON (Constitutes Galveston- Texas City SMSA) Dickinson (1960) Galveston La Marque Texas City GILLESPIE Fredericksburg	11,960 11,575 2,307 5,737 165,669 4,715 60,714 15,984 38,393 10,277 5,240 16,766	1,000 2,195 633,950 93,658 401,955	** - 93	40 - 46	3,045 6,304	- 12	8			
Seagraves (1960) Seminole (1960) GALVESTON (Constitutes Galveston- Texas City SMSA) Dickinson (1960) Galveston La Marque Texas City GILLESPIE Fredericksburg	2,307 5,737 165,669 4,715 60,714 15,984 38,393 10,277 5,240 16,766	2,195 633,950 93,658 401,955	- 93 33 16	- 46 68	6,304					
(Constitutes Galveston- Texas City SMSA) Dickinson (1960) Galveston La Marque Texas City GILLESPIE Fredericksburg	4,715 60,714 15,984 38,393 10,277 5,240 16,766	633,950 93,658 401,955	33 16	68	13,900					
Dickinson (1960) Galveston La Marque Texas City GILLESPIE Fredericksburg	60,714 15,984 38,393 10,277 5,240 16,766	633,950 93,658 401,955	33 16	68	13,900					
Galveston La Marque Texas City GILLESPIE Fredericksburg	60,714 15,984 38,393 10,277 5,240 16,766	633,950 93,658 401,955	33 16	68		2	- 2			
La Marque Texas City GILLESPIE Fredericksburg	38,393 10,277 5,240 16,766	401,955			141,543	- 8	6			
GILLESPIE Fredericksburg	10,277 5,240 16,766		34	- 21	19,719	- 2 2	11			::
Fredericksburg	5,240 16,766			- 68	40,386	2	0		•	
GONZALES		29,335		- 98	18,105	4	21		••	
Nixon	1,893	4,500	96	- 61						
GRAY Pampa	26,273 21,239	52,700	217		32,950	- 9	- 1	154	52	- 4
GRAYSON (Constitutes Sherman- Denison SMSA)	80,847									
Denison Sherman	24,436 28,352	158,717 477,119	- 47 - 83	239 - 57	27,702 51,657	- 11 - 20	- 9 **	254 132	135 326	30 - 52
GREGG (Constitutes Longview- Kilgore-Gladewater Metropolitan Area)	73,510									
Gladewater Kilgore Longview	5,290 9,120 44,397	44,255 721,000	- 79 - 36	88 - 77	6,383 17,077 92,033	- 23 - 8 - 7	- 6 - 1 3			
GUADALUPE (In San Antonio SMSA)	33,013									
Schertz Seguin	3,980 15,569	400 208,980	8	124	801 20,668	- 5 - 3	16 5			
HALE	33,374									
Hale Center (1960) Plainview	2,691 18,664	24,000 63,200	57	73	67,046	16	52	223	105	2
HARDEMAN Quanah	6,649 4,564	0			5,466	- 22	- 11			
HARDIN Silsbee (1969)	28,618 8,447				10,521	- 5	- 22			
HARRIS (In Houston SMSA)	1,722,533									
Baytown	43,606	3,004,473	398	- 64	57,460	- 2	5			
Bellaire Deer Park	18,978 12,690	14,875 181,454	- 96 36	- 44 62	12.025		1.5			
	1,212,928	35,043,113	6	- 62 2	12,027 7,584,438	1 - 10	15 7			::
Humble (1960)	1,711	153,300	- 4		10,076	- 2	41			
La Porte Pasadena	6,152 89,291	70,075 4,669,254	- 85 89	24 920	4,840 107,454	- 12 - 7	- 3			
South Houston	11,465	133,880	- 38	920	107,454	- 7	24			
Tomball	2,707				17,322	16	34			
HARRISON Hallsville (1969) Marshall	44,073 1,015	116 345	7.4		1,229	- 5	- 24			
	22,656	116,345	- 74	- 12	27,215	- 12	5	159	99	- 48
HASKELL Haskell	8,236 3,602	11,000			5,158	- 14	28			
HAYS San Marcos	26,977 18,566	294,300	63	- 39	13,847	- 17				

		Urban bı	ilding peri	nits	Ban	k debits		Nonf	arm place	ements
				change		Percent	0			t change
COUNTY City	Population*	Aug 1970 (dollars)	fro July 1970	Aug 1969	Aug 1970 (thousands of dollars)	fro July 1970	Aug 1969	Aug 1970	fr July 1970	om Aug 1969
HENDERSON Athens	25,703 9,554	57,820	370	- 38	15,133	- 9	2			
HIDALGO (Constitutes McAllen-Pharr-	172,469									
Edinburg SMSA) Alamo (1960)	4,121				3,647	1	59			
Donna (1969)	7,612	36,925		236	4,144	- 5	3		::	
Edinburg	16,748	1,231,900	275	970	24,338	- 16	- 1	197	40	22
Elsa (1960) McAllen	3,847 36,761	12,998 259,250	877 - 56	250 31	4,514	- 22	- 7			
Mercedes	9,116	35,547	- 30	19	44,748 7,023	- 8 **	7 - 41	238	20	13
Mission	12,065	123,115	80	394	15,736	- 31	12			
Pharr	15,269	15,995	- 65	- 63	5,890	- 40	- 1			
San Juan (1960) Weslaco	4,371 14,562	2,700 60,595	- 83 - 48	- 49 - 45	2,912 15,474	- 20 - 19	- 5 22		::	
HOCKLEY	20,199									
Levelland	11,386	97,325	621	94	21,020	3	33			
HOOD Granbury (1960)	6,182 2,227				2,782	- 12	- 15			
HOPKINS	20,334									
Surlpur Springs	10,447	203,170	66	54	25,013	- 4	10			
HOWARD Big Spring	37,136 28,165	95,120	44	172	52,509	- 13	- 4	137	30	- 6
HUNT Greenville	46,602 21,867	86,860	- 81	- 87	28,271	- 13	- 12	84	47	- 38
HUTCHINSON Borger	23,980 13,928	31,740	9					84	211	- 3
JACKSON	12,597	16.406								
Edna (1960) JASPER	5,038	16,426	21	- 19	10,156	26	18	••		•••
Jasper (1969) Kirbyville (1969)	24,149 5,120 2,021	25,800		198	14,869 3,001	- 11 4	- 5 3			
JEFFERSON (In Beaumont-Port Arthur-	242,719				2,001					
Orange SMSA)										
Beaumont	115,716	699,241	- 41	- 29	292,209	- 9	- 3			
Groves Nederland	18,012 16,647	62,462	9	- 55	14,600 11,168	- 7 **	8 18			
Port Arthur	56,552	150,197	- 20	- 28	87,573	- 9	- 4			
Port Neches	10,611	170,077	- 5	438	18,229	- 4	16			
JIM WELLS Alice	32,100 19,682	131,901	343	38	39,763	- 20	16			
JOHNSON	45,718									
(In Fort Worth SMSA) Cleburne	16,950	88,300	- 11	1	21,930	- 8	15			
KARNES Karnes City (1969)	13,147	76,245	141	63	4,349	- 19	-			
KAUFMAN	3,000 31,666	70,243	141	0.3	4,349	- 19	- 5			
(In Dallas SMSA) Terrell	13,985	221,410	158	- 4	16,154	- 8	11			
KIMBLE	3,845									
Junction	2,654	26,700	968		3,211	17	32			••
KLEBERG Kingsville	32,172 27,809	663,662	289	60	22,614	- 8	11			
LAMAR Paris	35,564 23,194	131,603	- 9	- 12				177	27	6
LAMB Littlefield (1960)	17,427 7,236	28,200	33	- 32	10,818	13	23			
LAMPASAS Lampasas	9,140 5,773	11,950	87	- 52	10,288	- 12	6			

		Urban bui	ilding pern	nits	Ban	k debits		Nonfa	rm placen	
			Percent	change	Aug 1970	Percent			Percent fro	
COUNTY City F	opulation*	Aug 1970 (dollars)	July 1970	Aug 1969	(thousands of dollars)	July 1970	Aug 1969	Aug 1970	July 1970	Aug 1969
LAVACA Hallettsville (1960) Yoakum (1960)	17,483 2,808 5,761	75,800 50,210	165 - 85	391	4,573 11,789	1 4	11	::		
LEE Giddings (1960)	7,776 2,821	25,415	- 66	364	6,823	1	4			
LIBERTY	30,565									
(In Houston SMSA) Dayton (1960) Liberty (1960)	3,367 6,127	1,500	- 72 ··	::	5,729 12,107	- 3 - 5	10 - 4	::	::	
LIMESTONE Mexia (1969)	17,581 7,621	34,000	6	- 51	8,402	- 22	9			
LLANO Kingsland (1969) Llano	6,583 1,200 2,575	1,700	- 85	- 76	4,372 6,555	- 9 8	18 27			::
LUBBOCK	175,757									
(Constitutes Lubbock SMSA) Lubbock Slaton (1960)	146,379 6,568	7,155,185 1,150	109 - 77	323	340,004 6,424	- 8 - 5	8 28			
LYNN Tahoka (1969)	8,829 3,600	0			7,218	41	17			
McCULLOCH Brady	8,422 5,571	74,710	57	31	8,764	- 12	- 5			
McCLENNAN	142,772									
(Constitutes Waco SMSA) McGregor (1960) Waco	4,642 92,600	10,800 2,697,650	620 40	113 91	5,652 225,492	9 - 11	45 5			
MATAGORDA Bay City	27,630 12,196	41,000	- 72	- 63	24,284	10	6	53	121	- 27
MAVERICK Eagle Pass	17,919 15,277	166,152	6	59	12,867	- 15	28			
MEDINA Castroville (1969) Hondo (1960)	19,123 1,800 4,992	114,250	53	248	1,698	18	19			.:
MIDLAND (Constitutes Midland SMSA)	64,168									
(Constitutes Midland SMSA) Midland	58,199	325,750	- 37	- 55	151,399	- 10	4	778	72	21
MILAM Cameron (1960) Rockdale (1960)	19,600 5,640 4,481	333,764 35,460	704 - 81	751 825	7,983 7,671	** - 22	- 3 **		::	::
MILLS Goldthwaite	4,047 1,653				6,714	- 7	10			
MITCHELL Colorado City	8,878 4,915				6,092	- 18	**			
MONTGOMERY	46,850									
(In Houston SMSA) Conroe	10,931	164,500	- 35	- 11	40,418	12	32			
MOORE Dumas (1969)	13,323 10,547	74,950	92	25						
NACOGDOCHES Nacogdoches	35,693 22,316	630,235	24	193	32,946	- 14	1	64	64	7
NAVARRO Corsicana	30,294 19,839	475,116	521	158	35,149	5	33	198	32	29
NOLAN Sweetwater	15,403 11,317	11,465	- 58	- 67	18,045	- 29	6	79	52	- 9
NUECES (In Corpus Christi SMSA)	233,965									
Bishop (1969) Corpus Christi	4,180 205,548	1,006,150	- 56	- 2	3,229 325,463	- 3 - 14	- 2 **			
Port Aransas (1960) Robstown	824 11,047	14,168	- 59		000	- 12	- 37 4		::	

		Urban bu	ilding pern	nits	Ban	k debits		Nonfarm placements			
			Percent			Percent	-		Percent		
COUNTY City	Population*	Aug 1970 (dollars)	fro July 1970	m Aug 1969	Aug 1970 (thousands of dollars)	fro July 1970	M Aug 1969	Aug 1970	fro July 1970	Aug 1969	
ORANGE (In Beaumont-Port Arthur-	70,380										
Orange SMSA) Orange	24,112	86,679	- 48	- 63	46,760	**	17	107	81	8	
PALO PINTO Mineral Wells	28,505 17,109	104,330	- 85	122	31,569	- 7	6	102	46	36	
PANOLA Carthage	15,554 5,389	362,000	412	783	5,381	- 5	5				
PARKER Weatherford	32,542 12,742	70,375	- 64	- 9	23,628	- 7					
PARMER Friona (1969)	10,374 3,149	47,600	11	40	24,981	3	18				
PECOS Fort Stockton	12,987 7,773	20,600	- 98	- 62							
POTTER (In Amarillo SMSA) Amarillo	87,985 123,973	1,515,605	34	- 62	435,478	- 13	5				
RANDALL (In Amarillo SMSA)	52,891	1,313,003	34	- 02	433,476	- 13	3				
Amarillo (See Potter County) Canyon (1969)	9,296	64,945	14	- 12	10,896	12	33				
REEVES Pecos	16,263 12,492	33,250	- 61	- 4	18,719	- 23	- 12	76	49	10	
REFUGIO Refugio (1960)	9,089 4,944	2,600		- 95	5,599	3	- 3				
RUSK Henderson Kilgore	32,773 10,003 9,120	59,000 44,255	- 91 - 79	- 55 88	18,479 17,077	- 1 - 8	9 - 1				
SAN PATRICIO (In Corpus Christi SMSA)	44,445										
Aransas Pass (1960) Sinton	6,956 5,085	::	::	::	7,378 10,545	- 14 - 16	**		::		
SAN SABA San Saba	5,431 2,529	27,000	350	89	7,073	- 16	- 2				
SCURRY Snyder	15,115 10,722	30,500	- 69	- 68							
SHACKELFORD Albany	3,233 1,959	0			3,297	- 12	2				
SHERMAN Stratford (1969)	3,603 2,500	0			13,082	- 30	7				
SMITH (Constitutes Tyler SMSA)	93,081								-		
Tyler STEPHENS	56,301 8,205	674,702	- 67	- 88	170,544	- 8	3	572	97	50	
Breckenridge	5,873	40,480		31							
SUTTON Sonora	3,051 2,076	1,300	- 91	- 48	3,861	- 18	17				
TARRANT (In Fort Worth SMSA)	711,387 88,385	14,489,450	138	590	115,558	- 10	8				
Arlington Euless	18,771	251,566	- 45	- 43	15,661	- 12	8				
Fort Worth	388,225	5,127,977	14	23	1,563,404	- 6	7				
Grapevine	7,513	120,515	- 25	208	6,870	- 10	- 16				
North Richland Hills	16,365	1,073,700	222 156	328 - 88	19,283 6,205	70 - 17	41 - 36				
White Settlement	13,461	191,625	130	- 88	0,203	17	30	1300			
TAYLOR (In Abilene SMSA) Abilene	96,463 88,433	129,337	- 95	- 54	139,907	- 9	6				
TERRY	14,239	127,337	73	34	107,701						
Brownfield	9,701	139,050	- 72	3	25,551	- 17	23				

		Urban bu	ilding perr	nits	Ban	k debits		Nonf	arm place	
			Percent		Aug 1070	Percent				change
COUNTY City	Population*	Aug 1970 (dollars)	fro July 1970	Aug 1969	Aug 1970 (thousands of dollars)	July 1970	Aug 1969	Aug 1970	July 1970	Aug 1969
TITUS Mount Pleasant	16,486 8,654	57,460	60	- 12	19,378	- 11	8			
TOM GREEN	70,852									
(Constitutes San Angelo SM San Angelo	63,928	242,888	- 90	- 71	99,280	- 11	9			
TRAVIS (Constitutes Austin SMSA) Austin	289,490 246,799	14,259,371	- 14	123	756,793	10	**			
UPSHUR Gladewater	20,468 5,290				6,383	- 23	- 6			
UPTON McCamey	4,564 2,589				1,812	- 16	- 23			
UVALDE Uvalde	16,619 10,403	38,473	- 66	- 43						
VAL VERDE Del Rio	26,984 20,928	108,734	9	23	19,430	- 4	10			
VICTORIA Victoria	52,776 39,349	811,800	- 47	34	85,813	- 10	- 4	664	173	31
WALKER Huntsville	24,885 15,367				19,558	- 11	- 1			
WARD Monahans (1969)	13,056 9,476	206,900		509	12,940	9	17			
WASHINGTON Brenham (1960)	18,378 7,740	187,825	79	37	19,096	- 13	3			
WEBB (Constitutes Laredo SMSA) Laredo	69,024 65,491	1,091,873	- 29	666	77,546	- 4	18	339	55	- 18
WHARTON El Campo	36,234 8,442	80,199	184	- 55	25,549	46	18			
WICHITA (In Wichita Falls SMSA)	118,501									
Burkburnett Iowa Park Wichita Falls	9,148 5,741 94,976	68,576 172,130 1,317,093	679 117 – 47	- 40 113	9,136 3,702 164,445	-12 -12 -11	- 9 4			
WILBARGER Vernon	15,051 11,204	86,200	- 60	- 64	19,812	- 12	- 8	55	120	- 52
WILLACY Raymondville	15,432 7,988	2,000	- 64	- 89	16,035	- 28	17	47	96	- 11
WILLIAMSON	36,020									
Bartlett (1960) Georgetown (1960)	1,540 5,218	123,100	::	- 15	2,034 8,364	69 - 13	- 6 15			
Taylor	9,253	127,460	- 31	800	15,030	4	- 11	30	88	15
WINKLER Kermit	9,453 7,685	60,085		88						
WISE Decatur (1960)	18,830 3,563	27,000		- 54	5,092	- 7	7			
YOUNG Graham Olney (1969)	15,343 7,383 4,200	22,050 4,000	- 88 	- 33 	11,776 5,825	- 21 - 20	4 – 2			
ZAVALA Crystal City (1960)	11,239 9,101	78,600	- 10	22	5,984	- 7	19			
* For 1970 unless otherwise i ** Absolute change is less than . No data, or inadequate basi	one half of 1									

BAROMETERS OF TEXAS BUSINESS

(All figures are for Texas unless otherwise indicated.)

All indexes are based on the average months for 1957-1959 except where other specification is made; all except annual indexes are adjusted for seasonal variation unless otherwise noted. Employment estimates are compiled by the Texas Employment Commission in cooperation with the Bureau of Labor Statistics of the U.S. Department of Labor. The symbols used below impose qualifications as indicated here: p-preliminary data subject to revision; r-revised data; *-dollar totals for the fiscal year to date; †-employment data for wage and salary workers only.

		Aug 1970		July 1970		Aug 1969	Year-		ite avera	
GENERAL BUSINESS ACTIVITY										
Estimates of personal income		n		n						
(millions of dollars, seasonally adjusted)	\$	3,144 ^p	\$	3,255 ^p	\$	3,001 ^r	\$ 3,1	78	\$ 2,9	987
Income payments to individuals in U.S. (billions, at	0	807.4 ^p	0	803.3 ^p	6	750 51	9 705	2	6 72	0 1
seasonally adjusted annual rate)	\$	117.2 ^p	\$	117.7 ^p	\$	758.5 ^r 113.4 ^r	\$ 795 116			2.3
Consumer prices in U.S. (unadjusted index)		136.0		135.7		128.7	134			6.5
Newspaper linage (index)		131.8		139.3		119.7	125		12	6.5
Sales of ordinary life insurance (index)		254.9		270.8		236.2	251	.7	23	5.6
PRODUCTION		n		n		-				
Total electric-power use (index)		280.2 ^p 231.9 ^p		279.2 ^p		280.4 ^r	261			7.8
Crude-oil production (index)		124.7 ^p		222.4 ^p 119.3 ^p		221.7 ^r 117.0 ^r	226 121			6.3
Average daily production per oil well (bbl.)		17.5		16.4		15.9	17			5.5
Crude-oil runs to stills (index)		134.3		135.0		136.7	133			5.4
Industrial production in U.S. (index)		169.0 ^p		169.2 ^p		174.3°	169	.8	17	2.2
Texas industrial production—total (index)		179.3 ^p		175.3 ^p		175.7	177			1.3
Texas industrial production—total manufactures (index)		198.0 ^p		196.8 ^p 204.3 ^p		199.2 ^r 208.2 ^r	199 213			6.6
Texas industrial production—nondurable manufactures (index)		194.3 ^p		191.8 ^p		183.4 ^r	189			8.8
Texas industrial production—mining (index)		137.7 ^p		128.7 ^p		127.3 ^r	132			4.7
Texas industrial production—utilities (index)		260.0 ^p		260.1 ^p		253.9 ^r	258	.3	24	6.3
Urban building permits issued (index)		201.5		197.9		174.0	188			1.6
New nonresidential building authorized (index)		144.1 292.5		163.0 261.6		120.7 254.4	143 261			5.2
AGRICULTURE		272.3		201.0		234.4	201	.0	23	2.9
Prices received by farmers (unadjusted index, 1910-14=100)		280		272		272	2'	76		264
Prices paid by farmers in U.S. (unadjusted index, 1910-14=100)		389		389		374		87		371
Ratio of Texas farm prices received to U.S. prices paid										
by farmers		72		70		73	,	71		71
FINANCE										
Bank debits (index)		297.1		339.9		270.4	303			6.9
Bank debits, U.S. (index)		364.0		352.2		326.7	346	.1	31	3.4
Loans (millions)	\$	6,126	\$	6,042	\$	6,032	\$ 6,03	33	\$ 6,0	083
Loans and investments (millions)	\$	8,785	\$	8,617	\$	8,499	\$ 8,62		\$ 8,7	
Adjusted demand deposits (millions)	\$	3,336		3,190		3,366	\$ 3,27		\$ 3,3	
Revenue receipts of the state comptroller (thousands) Federal Internal Revenue collections (thousands)		13,904 12,789		25,634 99,651		74,906	\$275,91 \$812,44		\$235,7 \$735,5	
Securities registrations—original applications	Ψυ	12,707	Ψ2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	φυ	10,737	\$612,4-	10	φ133,	104
Mutual investment companies (thousands)	\$	8,555	\$	42,124	\$	46,772	\$358,59	94*	\$420,8	308*
All other corporate securities										
Texas companies (thousands)		10,714		24,007		51,647	\$144,21		\$310,9	
Other companies (thousands)	Þ	10,466	Þ	27,675	Þ	18,736	\$301,71	13"	\$466,1	169*
Mutual investment companies (thousands)	\$	30,305	\$	38,521	\$	23,770	\$375,7	79*	\$322,5	537*
Other corporate securities (thousands)	\$	0	\$	841	\$	522	\$ 21,35		\$ 11,1	
LABOR		n		n						
Total nonagricultural employment in Texas (index)†		150.3 ^p		150.3 ^p		147.3°	150			5.1
Manufacturing employment in Texas (index)†		149.1 ^p 97.8 ^p		150.3 ^p 98.0 ^p		157.0 ^r 99.8 ^r	152			3.6
Average weekly hours—manufacturing (index)†		150.4 ^p		148.2 ^p		99.8 145.8	99 149			0.9
Total nonagricultural employment (thousands)	3	3,733.0 ^p	3	3,732.0 ^p		$3,657.5^{\rm r}$	3,706		3.58	3.2
Total manufacturing employment (thousands)†		727.7		732.5 ^P		766.2	740		,	4.5
Durable-goods employment (thousands)†		397.1 ^p		402.0 ^P		435.5	410		42	2.2
Nondurable-goods employment (thousands)†		330.6 ^p		330.5 ^p		330.7 ^r	329	.9	32	2.3
Total civilian labor force in selected labor-market areas (thousands)		3,505.2		3,519.9		3,339.4	3,488	0	2 25	7 0
Nonagricultural employment in selected labor-market		,303.2		,,519.9		3,339.4	3,400	.9	3,35	1.0
areas (thousands)	3	3,292.0	3	3,285.4		3,163.6	3,286	.4	3,11	1.6
Manufacturing employment in selected labor-market										
areas (thousands)		620.1		627.5		632.7	635	.2	61	7.7
Total unemployment in selected labor-market areas (thousands)		135.4		146.1		02 0	110	0	0	1.2
Percent of labor force unemployed in selected		133.4		146.1		92.8	118	.9	9	1.3
labor-market areas		3.9		4.1		2.8	3	.4		2.7
										ALC: UNKNOWN

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One of the best mediums for telling the story of a country graphically is maps. This concept has motivated the Bureau of Business Research at The University of Texas at Austin in establishing its series of atlases, the first of which was the Atlas of Texas, an attractive and comprehensively informative book. No. 2 in the series is the Atlas of Mexico, just off the press, equally enjoyable to look at, and equally comprehensive in its range of facts.

The currency of this collection of maps is symbolized by the covers, which reproduce an official Apollo 9 space photograph (Number 3012), on the front, and, on the back, a contour diagram of the photo which provides names of the salient physical features and cities caught in the picture. Inside, the *Atlas* presents 193 easily readable maps—many in color—which tell in rich detail the story of Mexico as it is today.

This description of our neighbor south of the Rio Grande includes information on practically all segments of her economy: the physical setting (location, political divisions, physiography, topography, geology, climate); population (distribution of both urban and rural populations in various decades; projections; marriage, birth, and mortality rates; literacy; homes according to amenities; student populations; educational institutions; educational status; languages); agriculture (areas cultivated, production, irrigation, separate crops, pest damage, fertilization); transportation, services, and commerce (highways, railways, air routes and flights, automobiles and trucks, truck freight, number and kind of establishments for theaters, sports, hostelries, medical and other professional services, commercial activities, construction, trade); industry (petroleum products, mining, manufacturing).

This comprehensive array of graphically presented information is concluded by an Appendix, with seven charts, which summarizes verbally and statistically the basic economic facts relative to Mexico, and by a helpful selective Bibliography.

The Bureau believes that the Atlas of Mexico is a fitting expression of the strong and continuing interest in Mexico prevalent at The University of Texas at Austin, and that it will fill a frequently expressed need among geographers, historians, anthropologists, economists, other academicians, businessmen, and all those with a special interest in Mexico.

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