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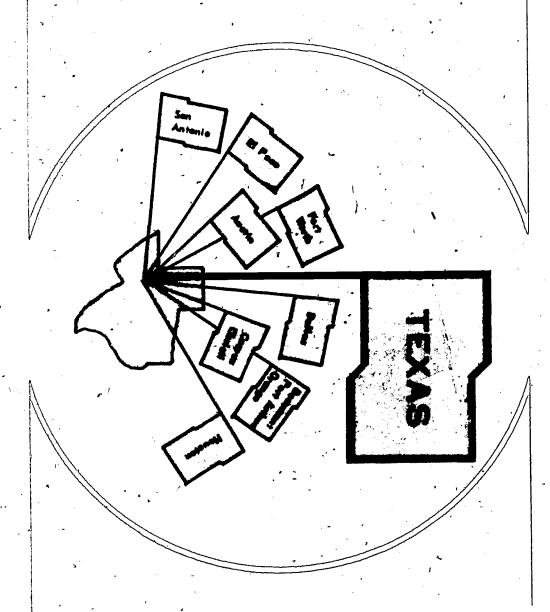
*Texas

ABSTRACT

Training programs are often linked to current demand and are unable to adjust to changing needs rapidly enough to provide an equilibrium in worker supply and demand. To help with planning for future needs, the information contained in this report covers preliminary employment projections to 1980, by industry and by occupation, for the State of Texas. Population growth in Texas is expected to continue at a rapid rate, as is industrial growth, and the participation rate of potential labor force members to total employment has increased substantially. The report includes tables of 1970 employment by detailed industry with projections to 1976 and 1980; employment and projected employment by occupation; and projected job openings by occupation for 1976. Employment trends by industry and by occupation are also discussed. (MF)

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A PROFILE OF JOBS TO 1980

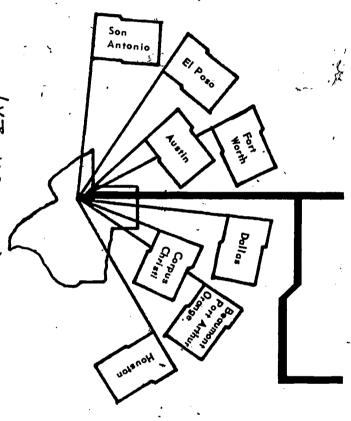


EDYCATION

PROFILE OF JOBS TO 1980

Employment Projections by Specific Industries and Occupations

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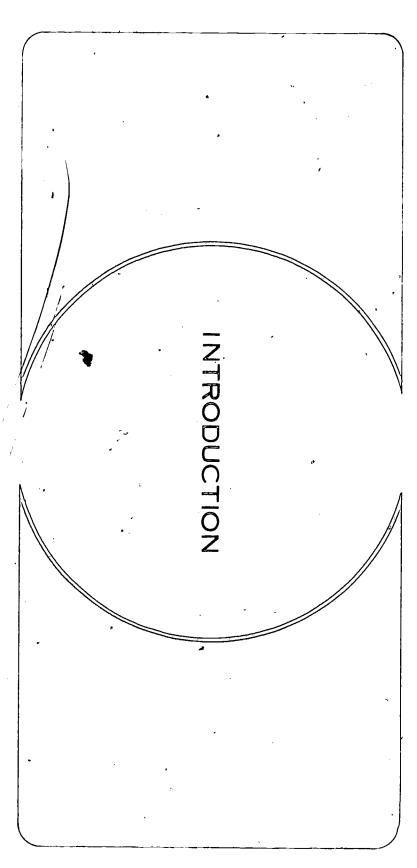
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INTRODUCTION

and private industry. good occupational information. troduced to try to alleviate some of the shortcomings, but much remains to be done to provide tion has presented a real problem for planners at all levels. New programs are always being inmanpower becomes little more than guesswork. In the past, the lack of occupational informathese programs; it is hoped that this effort will help with planning for the future Planning for tomorrow remains one of the primary concerns of leaders in government, education, Without some insight into the needs of the future, the training of available The data found in this publication was produced through one of

already overburdened labor force. are linked to current demand and are unable to adjust to changing needs rapidly enough to keep The training of tomorrow's workers has become no simple task. All too often, training programs An equilibrium in worker supply and demand must be sought to relieve the pressure on an

sought out and trained as quickly and as reasonably as possible. Skills that require a relatively long 'lead time' or training period furnish an excellent example sible, and that persons who can be qualified for these positions through education and training be employment opportunities caused by a lack of qualified applicants be identified as soon as posof current information's inadequacies. picture of the labor force is simply inadequate for long-range planning of manpower programs. The rapid growth of Texas is adding to the urgency for good comprehensive planning. Therefore, it is in the best public interest that unfilled

trices for 1970 and 1980, 1970 Census data for Texas, and Texas industry employment estimates the Interim Manpower Projection Project which utilized the national industry-by-occupation maindustry and by occupation, for Texas. Computerized data development was accomplished through The information contained in this report covers preliminary employm ϕ nt projections to 1980, by

employment by occupation" tables contained in this report. Each matrix was summed, consisted of individual data cells for 421 different occupations in each of 201 separate Industries The actual computer operations were handled by the Lawrence Berkeley Laboratories. in turn, to arrive at the "total employment by industry" and "total

Certain assumptions concerning economic conditions must be made to form a base for employ demand, permitting thereby the achievement of a stable, long-term economic growth-rate training and educational programs will achieve a satisfactory balance between labor supply and air and water pollution, urban congestion, income, and leisure; (3) efforts to solve major domestic challenges such as those associated with cal, and scientific advances will continue, framework of the American economy will not change radically; (2) economic, social, technologi used in making the interim projections contained in this publication were: sources, but they will have only a marginal effect on long-term economic growth; (4) manpower even though these forecasts are often subject to revision. with additional emphasis being placed on education and energy shortages may require more of our re (1) the institutional The assumptions

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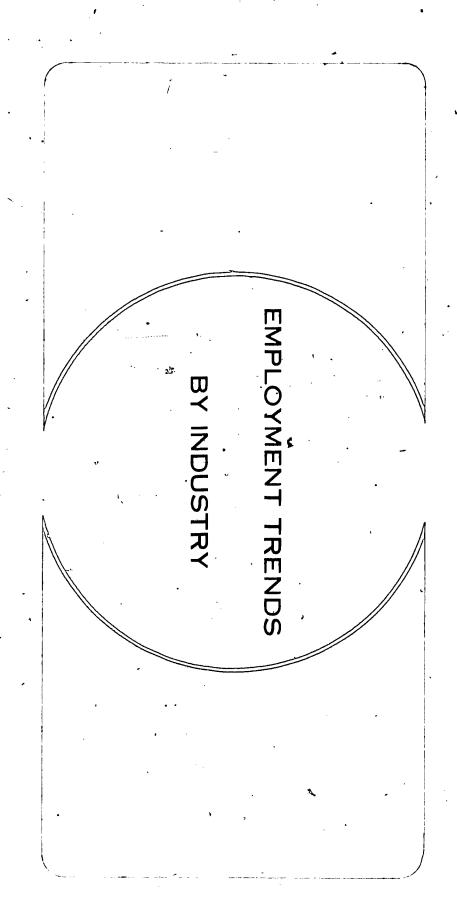
velopment of these projections do not reflect the implications or effects on future employment of such things as "energy crises" or "economic slumps", Since the assumptions mentioned above all relate to a long-range, stable economic situation, refualadjustments were made to 1976 estimates. Moreover, the national projections used in the deother factors as sudden openings or closings of large plants, except in selected cases where man erence should be made to the short-term occurrences that cannot be considered in a project of balance themselves out over a long period. situations can affect future employment levels, but it is hoped that most short-term occurrences this nature. The projection methods are unable to take into account cyclical, seasonal, or such It is acknowledged that any or all of these

continue expanding at a rapid rate. If population tends to expand in areas of strong economic growth, the population in Texas should In addition to a natural increase caused by a birth rate that

tive retirement location as well as an industrial site. migration into the State will also be increased by the further development of Texas as an attrac enable the State's population to grow at an even faster rate than during the 1960's. is higher than the death rate, the anticipated increases in job opportunities during the 1970's will In addition,

ted to the excellent conditions for greater industrialization found throughout the State. has a growth rate greater than that of the nation as a whole. Much of this growth can be attributrial growth. Population growth in Texas is expected to remain very rapid, At present, the State is among the leaders in the country in actual growth; it also in order to keep pace with indus

will be needed to meet the 1980 labor force demand presented here. substantially. This change in concept must be considered when comparing past rates to the ones cept, the participation rate of potential labor force participants to total employment has increased today's economy, it is no longer felt that this is the general rule. Because of this change in conof age and over, participated in the labor force in 1970, but only 58.4 percent of this same group labor force participants. Today; only members of the population 16 years of age and older are considered to be potential Under this new definition, some 59.9 percent of the State's population, 16 years In the recent past, 14-and-15-year-old's were also included,



EMPLOYMENT . TRENDS BY INDUSTRY

ing industries in 1970; by 1980, its share will increase to 42.4 percent. portion of employment has shifted from goods-producing to service-producing industries. 27.6 percent. 1970-1980 decade, the percentage of employment in service-producing industries will increase The Services Industry alone comprised over 40.3 percent of total service-produca definite trend has emerged as the Texas labor force expands.

cellaneous; and Public Administration. and Utilities; Wholesale and Retail Trade; Finance, Insurance and Real Estate; Services and Mis day-to-day operations. they will rely on the specialized services (legal, business, medical, educational) needed in their sonal services for convenience. As business organizations become more and more complicated Our constantly expanding economy has come to require and depend upon various business and perbe concentrated in the service-producing industries -- Transportation, As shown in Chart 1, over 69 percent of total industry employment will Communication

crops have curtailed employment additions in this area. percent in 1970 to only 3.6 percent in 1980. estry and Fisheries during the seventies, this industry's share of total employment fell from 6. dustries can be attributed to Manufacturing. With employment cut by 79, 200 in Agriculture, For will be minimal--12.2 percent. As employment swells in service-producing industries, growth in goods-producing industries is Between 1970 and 1980, the overall employment increase in goods-producing industries Over 94 percent of the total net gain in the goods-producing in-Mechanization and new methods for yielding larger

The annual growth rate, previously 3.1 percent in the 1960-1970 decade, will fall to 2.2 percent

Texas during the seventies. and raw material shortages are factors that will serve to limit growth in our nation as well as in experiences temporary cutbacks during the mid-19701s. in the 1970-1980 decade. This slowdown in employment expansion is anticipated, as our economy The energy crisis, inflation, and food

CHART 1

INDUSTRIAL SHIFT FROM 1970 TO 1980

Percent Distribution Of Goods-Producing
And Service-Producing Industries In Texas



Goods-Producing Industriés - Agriculture, Forestry, & Fisheries; Mining; Contract-Construction; & Manufacturing

Service Producing Industries - Transportojon, Communications, & Public Utilities; Whalesole & Retail Trade; Finance, Insurance, & Real Estate; Services; & Public Administration

AGRICULTURE

dustry group in which the actual number of workers declines ment is declining. The downtrend should continue to 1980, but to a lesser degree than the nationa cut-backs in employment in this category, the return of farmland to productivity--in order to meet greater export demands--may slow the pace at which employment in the agricultural segcent of the total industry employment for Texas. While labor-saving techniques continue to cause (including agricultural production) is expected to show a slight curtailment in 1976, to 4.5 ollowing the national pattern, employment in Agriculture, Forestry, and Fisheries industries Nevertheless, Agriculture, Forestry, and Fisheries is forecast to be the single Texas in

MINING

Gas Production. in Oil and Natural Gas Production. demands resulting from fuel shortages necessitate employment growth in Coal Mining as well a percent of the Texas employment is concentrated in the field of Petroleum and Natural there were 106, 700 Texas workers employed in the Mining Industry. While Texas Coal Mining has been relegated to a minor role in the past, recent In this category,

ment should reach 111, 400 by 1976, and 116, 500 by 1980. experience a 9.2 percent upturn between 1970 and 1980. as long as the output quantities are In order to meet these production needs, overall employment in this industry group is expected to insufficient to fill the need for these vital resources During this time span, industry employ-Steady growth is expected in Mining

CONTRACT CONSTRUCTION

year period. ernment spending pected to add 47, 300 workers; by 1980, another 31, 700--or a total increase of 79,000 over the 10otal employment in Contract Construction was 310, 100 in 1970. population growth, industrial expansion, rising personal and corporate incomes, and gov As in the past, prospective construction activity appears promising for these rea-By 1976, the industry is ex-

tors, growth in other segments of this industry group will offset any slowdown in new housing mainly in the residential construction sector of General Building Contractors. terial shortages, and high interest rates, conditions that will serve to limit additions to employment are soaring construction costs, mament will tend to moderate growth in Contract Construction. In this 1970-80 decade, prefabricated building materials and labor-saving techniques and equip-These economic considerations will slow expansion During the mid-70's, Despite these fac-

is anticipated, as government funds are made available for buildings, highways, and other instalrate than any other segment of Contract Construction. Moderate expansion in heavy construction area of construction is projected to grow 29.5 percent during the ten-year period -- at a faster activity will shift to home improvement and remodeling in the General Building section. national increase of 20.6 percent between 1970 and 1980. Texas construction activity is predicted to grow 25.5 percent by 1980--slightly faster than the lations As new home building declines, more

tral heating and air-conditioning, and other items of this nature will require additional workers come to be regarded as necessities, the installation of dishwashers, garbage-disposal units, centhe need continues for painters, plumbers, carpenters, electricians, etc. As labor-saving devices The largest employment sector, Special Trade Contractors, will add 29,000 workers by 1980, as



struction industry should resume by the latter part of the decade. construction should reach 389, 100. rarily slow as a result of the economic downturn in the mid-70's, a steady growth in the conto satisfy the demand for these household conveniences. Even though construction will tempo-By 1980, total employment in

MANUFACTURING

cent of Texas employment, the third largest major industry group in the State. Manufacturing workers in Texas will total 918, 100. cent; in comparison, gain will occur in the Durable Goods sector, with a substantial 1970-1980 growth rate of 25.9 per-Texas Manufacturing employment is forecast to move upward at a moderate pace. there will be a lesser 17.0 percent upturn in Nondurable Goods. Total Manufacturing will account for 17.5 per

dustry, Canning and Preserving, Grain Mill Products, dustries offsetting very pronounced growth in others. dition of only 2,700 workers by 1980. ber 89,300 by 1980. In Nondurable Goods, growth in the Food Industry will slow to a mere 3.1 percent, Unstable economic conditions will cause the seventies to be a decade of apparent inconsistencies and Bakery Products, while expansion is anticipated for the Beverage In and Meat Products. This modest growth is the result of several declining in Downturns are expected in Dairy Products Employees in the Food Industry will num with the ad-

ducts and Petroleum and Coal Products, are expecting a reduction in employment; the remaining employment in the Apparel and Fabricated Textile Products Industry will experience a sizeable industries in Nondurables should show an upward movement in employment amount to 23.4 percent of total employment in Nondurable Goods. expansion--48.9 percent. Goods will be relinquished to Apparel and Habricated Textile Products. As a result of the Food Industry's limited By 1980, this industry should employ 92,600 workers, which wil growth, its spot as the largest employer in Durable Two industries, Leather Pro During the seventies

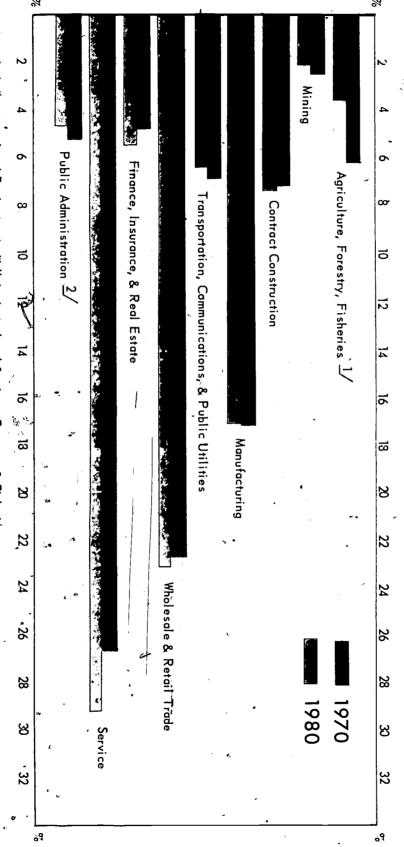
marily responsible for the bulk of the projected increase include manufacturers of Machinery tation Equipment to a 64.0 percent advance in Stone, Clay, and Glass Products. In Durable Goods, employment fluctuations will range from a $\mathcal{V}_i'^2$ percent decrease in Transpor (electrical and non-electrical) and Stone, Clay, Glass Products Industries pri-

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eral Texas manufacturers of men's wearing apparel have gained a nation-wide market, employ should be stimulated by rapid growth in the Apparel and Fabricated Textiles Industry. Since sev ployment growth in other establishments, the Machinery Industries involved in actually producing computer-regulated machinery, manufacturers of these products and other new innovations can total net change in the Manufacturing Group of Industries. With the ever-increasing utilization of ment in the Appareland Fabricated Textiles Industry is sparing. these devices should thrive. be assured of growing production demands. While these labor-saving tools tend to reduce empansion expected for Total Manufacturing. three segments should record advances instrumental in achieving the overall 21.9 percent exisfy market demands Tools and Equipment Industry is also climbing, as fuel producers operate at full capacity to sat Textiles Industry and Machinery (electrical and non-electrical) account for 50.5 percent of the Although most Manufacturing activity will not trigger spectacular growth between 1970 and 1980 , The manufacturing employment in Textile Machinery, for example The combined net gains in the Apparel and Fabricated At the same time, the Oil Field

CHART 2

PERCENT DISTRIBUTION OF EMPLOYMENT BY MAJOR INDUSTRY GROUPS IN TEXAS, 1970 AND 1980



ヒ Includes Agricultural Production As Well As Agricultural Services, Forestry, & Fisherips.

^{2/} Enterprises Such As Construction, Monufacturing, Etc. Are Clyssified in Their Appropriate Industry. Includes Government Workers Engaged In Activities Unique To Government. Those Workers Engaged In Activities Also Conducted By-Private

TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

a 15.8 percent growth-rate during the decade. By 1976, this number will grow to 315, 400; in 1980, employment is anticipated to reach 333, 700-Total employment in Transportation, Communications, and Public Utilities was 288, 100 in 1970

percent increase from 1970. of Transportation. occurring in Railroad Transportation and Pipelines will fail to offset growth in other segments are primarily responsible for the upward movement. As in the sixties, employment reductions The Transportation segment of this industry group will gain 18, 200 workers by 1980--an 11.3 Employment advances in Trucking Services and Air Transportation

ployment will add 12,800 workers during the seventies. These additional Trucking Service work establishments, factories and service-related centers are also migrating to outlying communi ers will account for over 70 percent of the employment gained in the entire Transportation seg ties, thereby compounding the need for these transportation services. creates a demand for more Local Trucking employment to move the populus. ment between 1970 and 1980. ment additions; at the same time, however, the constant expansion of the population to suburbia To a certain extent, more productive freight-handling methods and equipment are limiting employ-Trucking Service em-In addition, trade

dropped to 57.9 percent and Public Utilities category was centered in Utilities, and by 1970, the Utilities portion had grouping, the Utilities sector will slip to 56.7 percent of the total by 1980, somewhat less than is a 21.5 percent increase from 1970. By 1980, employment in Communications and Public Utilities is predicted to reach 154, 600, which its former preponderance. In 1960, over 62 percent of all employment in the Communications Within the Communications and Public Utilities industry

and .1980, Telephone employment is expected to increase 27.0 percent. is a direct reflection of the growing population and its constant mobility 34. 7 percent in 1970 to 36. 2 percent in 1980. share of the total employment in Communications and Public Utilities will gradually rise result of rapid employment growth in the Telephone division of Communications. ment to that of total Communications and Public Utilities will still be lower. Even though Utilities employment is expected to grow at a faster sate in the 1970-1980 decade (19.0 percent) than the previous 1960-1970 decade (14.4 percent), the ratio of Utilities employ-This growth in the Telephone Communications field The telephone industry's This paradox is the Between 1970

munications; when combined, entire Transportation, Communications, and Public Utilities Industry. In the 1970-1980 decade, the largest net gains will occur in Trucking Service and Telephone Comthey will account for 54.2 percent of the total net increase in the

WHOLESALE AND RETAIL TRADE

concentrated in Wholesale and Retail-Trade. growth can be attributed to an expanding population and increased consumer demand 1980 will be 29.1 percent greater than expansion in the previous 1960-1970 decade. grow to 1, 124, 300. During the 1970-1980 decade, this industry category will remain the second largest employing unit in the State of Texas. total Wholesale and Retail Trade employment was 978, 300; by 1976, this number should The net gain in Trade employment between 1970 and By 1980, 23.3 percent of Texas employment will be This faster

In Wholesale Trade, over 29 percent of the total number added were employed in Machiner Equipment, and Supplies. Employment in this particular portion of Trade grew from 57,000 in

improved warehousing and packaging procedures, as well as new computerized inventory billing chinery and machine products will more than offset limiting effects on employment resulting from 1970 to 79,000 in 1980--a 38.6 percent advance. The entire Wholesale segment of Trade will increase by 74,000 between 1970 and 1980 A rapidly growing market for Texas-made ma

Retail Trade Division will be in Apparel and Accessory Stores, where 15,800 workers will be Retail Trade, in contrast to Wholesale Trade, will increase considerably more in actual numbers added between 1970 and 1980--a growth rate of 38 percent. employment additions in Retail Trade will be in General Merchandise, Food and Dairy Stores, and Trade expected to experience an employment reduction. Eating and Drinking Establishments. (168, 900) but at a slower growth-rate (23. 7 percent). Gasoline Service A substantial portion (63, 1 percent) of the Stations comprise the only segment of The highest percentage increase

more convenient, longer business hours and additional workers will be needed. ment stores, supermarkets, etc. expanding population's movement to the suburbs will necessitate extra manpower for new shopping a thriving Texas business scene. malls housing all types of establishments -- eating and drinking places, clothing stores, departappear, thus providing more positions to be filled. As Texans grow in number and earn more spending dollars, new and larger shopping malls will employ 1, 221, 600 of the workers in the Texas labor force By 1980, They will come into existence in order to meet the demand of the Wholesale and Retail Trade Industry is expected Following recent trends to make shopping In addition, the

FINANCE, INSURANCE, AND REAL ESTATE

come the sixth largest concentration of employment in Texas. 284, 600 -- a 10-year gain of 37.0 percent. With this advance, the Finance Industry Group will bethis count will have grown to 253, 900, and by 1980, employment in this category is expected to be Total employment numbered 207, 700 in Finance, Insurance, and Real Estate in 1970.

States, with numerous resort communities evolving in several areas of the State butable to the fact that Texas is rapidly acquiring a role as the vacation center of the South Central nance, Insurance, and Real Estate. substantially surpass the 27.0 percent increase expected in this field at the national level. Texas In the 1970-1980 decade, the percentage increase of those employed in Real Estate in Texas should Real Estate employment is increasing at a faster rate--48. 9 percent--than any other part of Fi-A large portion of this sizeable employment advance is attri-

tate field in order to sell available space. and office buildings has also created the need for the services of those employed in the Real Esleisure apartment-living with the tax benefits of home ownership. The flourish of shopping malls multiple-unit dwelling continues to increase its popularity, as it combines the conveniences of to multiple-unit dwellings. At the same time, a new innovation -- the townhouse or condominium -- has been introduced to the Texas home market. The prospective buyer's attention is shifting from the single-unit dwelling Despite rising interest rates and climbing construction costs, the

the exception of Stockbrokers and Investment Companies. This segment is predicted to grow only All sectors of the Finance, Insurance, and Real Estate Industry will experience fair growth, with ticular area is forecast to increase faster -- 50.8 percent--than any other segment of the industry 5.2 percent between 1970 and 1980 in Texas, while, on the national level, employment in this par-

in the Banking segment). ter operations in the Banking Industry will net a 41.5 percent increase during the seventies. By The expansion of customer services and the creation and development of more extensive compudecade. 1980, total Texas Finance employment will number 113, 100 (58.4 percent of which will be found The Insurance segment will grow by 32.3 percent over the 1970-1980

SERVICES AND MISCELLANEOUS

nity to create more service-oriented jobs. By 1976, Service workers will number 1,381,100; by In 1980, employment in Services will comprise 29.3 percent of the Texas total. fact that more money is being spent on services affords establishments in this field the opporturising; more money will become available for disposable income. As these expendable funds 1980, total Texas employment in this industry group will reach 1,537,300 grow, more services come within the reach of a larger portion of our growing population. The Services Industry Group will remain the State's largest employing unit during the seventies With incomes

division will reach 161, 400 ment, will more than double their 1970 employment in ten years. lated services -- Advertising, Business Management, cellaneous Business Services sector. This segment encompasses a wide variety of business-rein these Miscellaneous Business Services will experience a 101. 5 percent gain between 1970 and Computer Programming, Detective and Protective, for example, to name just a few. Employment During the seventies, the fastest growing division (percentage-wise) in Services will be the Mis-All sectors of Miscellaneous Business Services, except Advertising and Business Manage Commercial Research and Development, By 1980, employment in this

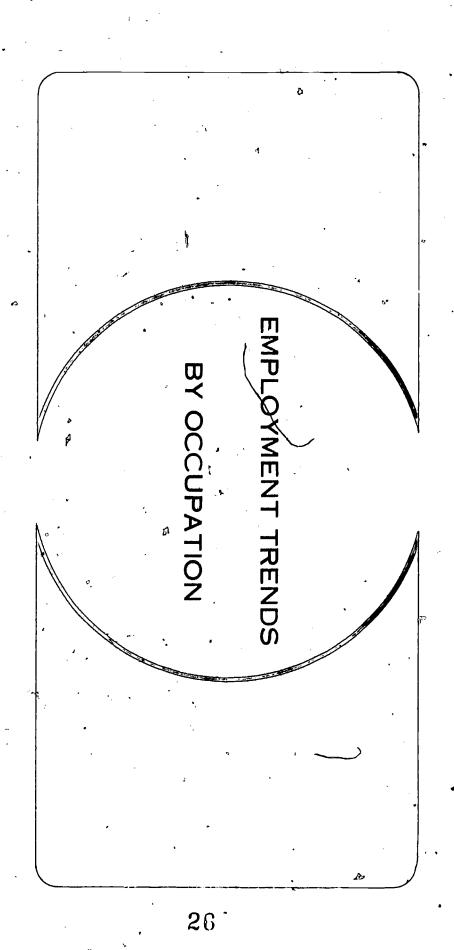
for numerous clerical and maintenance personnel. ployment in Colleges and Universities is expected to advance by 22. 1 percent during the 1970-1984 facilities and more education-related jobs in areas concerned with higher levels of learning. adults to further their education in colleges and universities has intensified the need for better the result of a rapidly expanding school-age population. account for 71.8 percent of the total number of workers in 1980. Growth in this field is primarily 27.4 percent by 1980. The largest employing unit of the Services Industry Group, Educational Services, will grow by In the Educational Services category, Elementary and Secondary School employment will The growth of these institutions creates additional job openings for teachers as well as This section will employ 389, 900 workers by the end of the 1970-1980 Likewise, the recent trend for young

tors that will enhance job growth significant growth-rates, but with smaller net gains. The more widespread utilization of preven-Service employment, additions -- between 1970 and :1980. Over 53 percent of this advance is concentrated in Hospital tive medicine, in addition to new discoveries and cures in the field of Medical Research, are fac-The Medical and Other Health Services division is expected to have the largest net gain -- 100, 900 Convalescent Institutions; Health Practitioners, nec; and Health Services, nec--will experience All other sectors -- Offices of Physicians, Dentists, and Chiropractors

PUBLIC ADMINISTRATION

only 2,600 additional positions -- an increase of 13.0 percent. will necessitate the rapid expansion of Local Public Administration employment. will be dispensed directly to this Local sector for implementation of new "revenue-sharing" Fed and 1980 is the result of limited growth on both the Federal and State scenes. Public Administra be in this division. of total employment in Texas; by 1980, numbering 252,600 workers by 1980. Administration, where an increase of 20,900 is expected. bution (76.6 percent of the total net gain for the group), however, will come from Local Public tion at the Federal level will expand by a mere 2.8 percent; its State counterpart will contribute During this decade, employment in Public Administration will experience a 12.1 percent gain These programs, in addition to the services demanded by a growing population The declining ratio of Public Administration to total Employment between 1970 In 1970, Public Administration accounted for 5.3 percent however, only 4.8 percent of the State's employment will In the 1970-1980 decade, extra funds By far the most noteworthy contri

struction, their appropriate industry. This division includes all workers engaged in activities unique to government, such as the leg judicial, administrative, and regulatory activities of Federal, State, and Local govern-Those workers engaged in activities also conducted by private enterprises such as Con-Public Utilities, Educational Institutions, Medical l Facilities, etc. are classified in



EMPLOYMENT TRENDS BY OCCUPATION

od is only 22 percent. of 32 percent from 1970 to 1980, while the anticipated increase for all occupations during the periin 1980 from their 1970 level. cials, and Proprietors; Sales Workers; and Clerical Workers) have an average expected increase comprizing this white-collar segment (Professional, 50 percent of Texas' employment will be white-collar workers. (See Chart 3) The various groups my, the need for white-Edllar and service workers will become even greater. As Texas and the United States continue shifting more and more toward a service-oriented econo Only Farm Workers are expected to have an actual reduction in numbers Technical, and Kindred; Managers, By 1980, over

ments resulting from deaths and retirements will be made for each group. only the major developments within each group. cupational groups will be presented. sition of Texas employment during the 1970-to-1980 period, an analysis of each of the broad oc In order to identify some factors responsible for anticipated changes in the occupational compo Time and space limitations will necessitate discussion of In addition, reference to manpower require

PROFESSIONAL, TECHNICAL, AND KINDRED WORKERS

major group. the fastest-growing ones. By 1980, employment of Professional, Technical, and Kindredworkers tions in Texas. In 1970, over 572,000 workers were employed in Professional, Technical, and Kindred occupa While these occupations were the largest numerically, they were not necessarily Engineers, Medical Workers, and Teachers accounted for over 50 percent of this

a gradual shift to a service-oriented economy, while the balance may be linked to the increased need for goods and services in Texas caused by a steady growth in population. In addition, there occupations to replace workers lost because of death or retirement will also be a need for approximately 225,000 workers in Professional, Technical, and Kindred is expected to rise 30.3 percent, to 746,590.A sizeable portion of this gain, can be attributed to

more of the duties previously reserved for Physicians and Nurses must now be performed by 35.5 percent. qualified Technicians. to expand by 68.4 percent, while Medical Workers Other Than Technicians are anticipated to rise Health Technicians category. An ever increasing need for Medical attention has brought about a situation in which more and The result of this increased demand has been to stimulate growth in the Between 1970 and 1980, this group of Medical Workers is expected

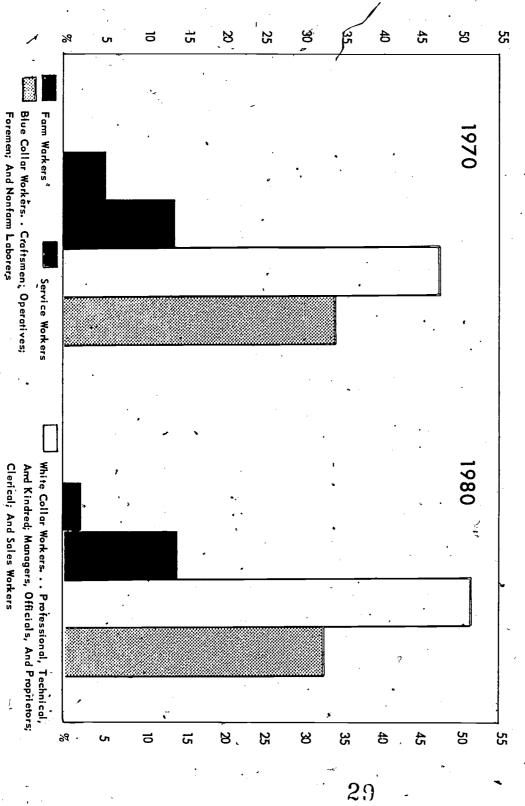
of Urban Planners,. Psychologists, and Economists -- occupations formerly relegated Scientists" follows closely behind Health Technologists and Technicians in rate of growth during cific occupations are expected to record gains of 67 percent, 89 percent, and 56 percent, respec academic institutions and establishments concerned with public administration. With an increase of 64 percent between 1970 and 1980, the group of professionals known as "Socia This spectacular surge to the forefront can be attributed to the newfound importance These three speto roles in

growing of all professions, Technicians (44%), and Computer Specialists (43%). Other occupational fessional and Technical group include Mathematical Specialists (50%), Engineering and Science categories in which expected increases should exceed that for the entire Pro is expected to net a more modest gain of 14 percent during the 1970, Teachers, in years past one of the fastes

CHART 3

OCCUPATIONAL SHIFT IN TEXAS

Percent Distribution Of Employment By Broad Occupational Categories, 1970 And 1980





MANAGERS, OFFICIALS, AND PROPRIETORS

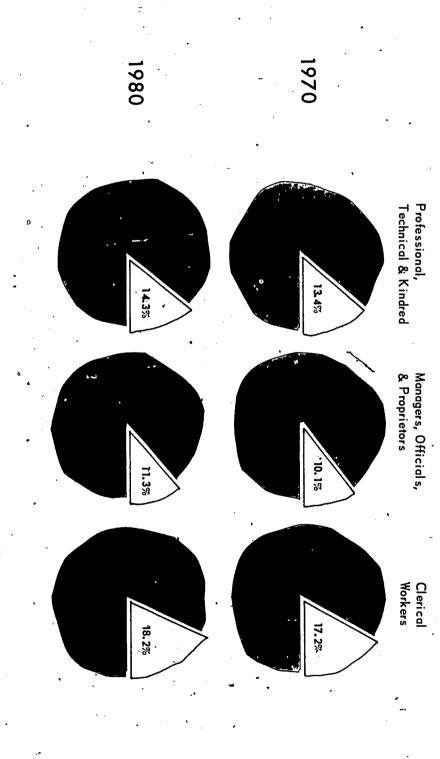
needed to meet expansion expectations, some 134, 900 Managers, tions in the private enterprise sector are showing strong gains, some of their push employment in these occupations to 591, 200 by 1980. Much of this growth can be attributed prietors, making it the fastest growing of any occupational group. lated counterparts are experiencing little growth or a decline. In addition to the 160,100 persons tors up to a level more in line with non-supervisory personnel. to a "catch-up" phase in which employers are bringing the number of Managers and Administra he necessary to replace persons leaving the Labor Force for various reasons percent gain is expected during the 1970-to-1980 decade in Managers, Officials, and Pro-Officials, and Proprietors wil While several of these occupa-This rate of growth should government-re

which will experience only a 1.6 percent increase during the 1970-to-1980 decade. creases. One such occupational category is Public Administration Officials and Administrators cupations in the Managers, Officials, and Proprietors group are not expected to show strong in with an anticipated growth rate of 72, 7%. Other groups expecting substantial increases are Health One of the fastest growing occupational groups should be Building Managers and Superintendents be noted that Postmasters and Mail Supervisors are expected to be Administrators (63.3%), and Bank Officers and Financial Managers (50%). Officials, and Proprietors recording a loss (-12.5%) during the 10-year period the only occupational In contrast, some oc-It should also

CHART 4

EMPLOYMENT IN OCCUPATIONAL GROUPS, 1970-1980

Percent Distribution Showing Significant Gains



31

NET CHANGE

+.9%

+1.2%

+1.0%

SALES WORKERS

of these developments. ment rely heavily on salespersons from their infancy, and this need continues throughout the lives attempts to meet the demands of an expanding population. Other factors are the success and popuclimb to 386, 600 by 1980. In 1970, larity of regional shopping malls and large resort communities. there were 296, 700 persons employed as Sales Workers. THE PERSON NAMED IN Much of this increase is being brought on by growth in Trade, as it These types of building develop-Their number is expected to

ten-year trend. effect on some sales operations, it is not expected to have a substantial bearing on the overall While the limited activity in residential development during the mid-seventies has had a sobering Sales Workers during the 141, 200 persons will be needed to replace those who retire or die--making the total demand for In addition to the 89, 900 workers necessary to meet anticipated expansion needs 1970-to-1980 decade 231,000

32

CLERICAL AND KINDRED WORKERS

ties to a total of 954, 700 by 1980. Manpower needs in this occupational group reflect rather var Employment in the Clerical and Kindred Workers category will climb steadily during the seven-

puter technology for speed and accuracy in all types of organizations. ers; this 56.5 percent addition over the 1970-1980 period is the result of increased use of com pite overall growth in the Secretarial field (Secretaries, Stenos, and Typists) from 204,400 in cipating growth, Keypunch Operators and Stenographers are expected to decline in number. ied trends as a result of our changing technology. While most occupations in this group are anti puter Operators grows, reduction. Employment in Computer and Peripheral Equipment Operators will gain 4,800 workhand, Stenographers will decrease from 5, 900 workers in 1970 to 3, 900 in 1980--a 33.9 percent Medical, Other) will expand 43.0 percent, with an addition of 66, 700 new employees; on the other 12. 3 percent decline in Keypunch Operators. 1970 to 281,000 in 1980, some occupations within this category will decline. New innovations within the computer field itself (new methods of data entry) will cause a employment in related occupations--such as Keypunch As the demand for Com-Secretaries (Legal Operators -- will

perform the clerical duties related to the Teaching profession. satisfy the rapidly growing need for Teachers, for example, 97.4 percent between 1,970 and 1980. With this advance, they will number 15,200 by the end of requiring less skill, are being substituted to meet the demands for these positions. In some fields, the demand in a specific occupation has become so great that other occupations Teacher Aides are being utilized to Teacher Aides will increase by

demand for basic Clerical skills needed for daily operations and retirements, the 1970-1980 decade. With the need for 220, 700 new workers and an additional 405, 000 to man jobs left vacant by deaths Clerical Workers will continue to be the largest occupational group throughout This fact shows clearly the increasing complexity of our economy and the

CRAFTSMEN, FOREMEN, AND KINDRED WORKERS

gradual expansion is expected in this group, faster growth in other major occupational groups will employment growth in Craftsmen, Foremen, and Kindred Workers between 1970 and 1980. While men, Foremen, and Kindred Workers Business activity and industrial expansion are two of the principal factors anticipated to influence reduce slightly (to 13.3 percent) the share of total occupational employment belonging to Crafts.

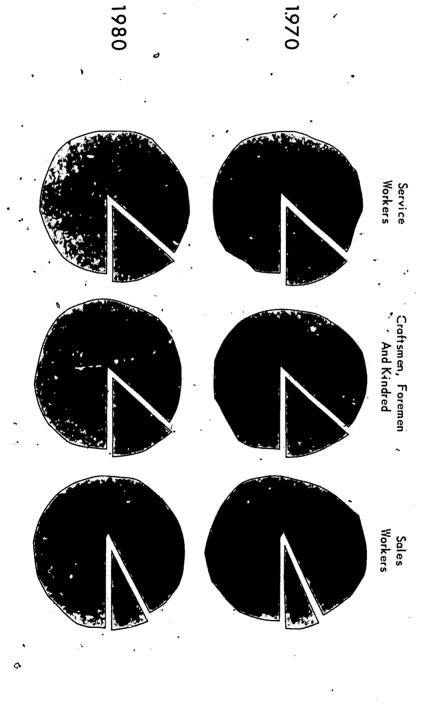
Kindred Workers. mobiles, and Heavy Equipment. for Repairmen in Air Conditioning; Heating, Refrigeration, and Mechanics for Aircraft, Road Machine Operators; and Plumbers and Pipefitters reveal a favorable market for job-seeker: total for Mechanics, Repairmen, and Installers by 1980. more than 20 percent between 1970 and 1980. trained in these fields through 1980. the addition of 88,800 workers -- 73.7 percent of the total net gain for Craftsmen, Repairmen, Construction Craftsmen, the largest division within this group, is followed closely by Mechanics and Installers. Employment demands for Carpenters; Electricians; Excavating, Grading, and The combined pet increases of these two divisions will account for They will contribute 70 percent of the employment added to the Each of these types of Construction Craftsmen will expand Promising employment prospects are forecast also Foremen, and Auto-

are the only occupations in Craftsmen, Foremen, and Kindred Workers that will experience emproyment reductions during the 1970-1980 decade. Labor-saving, technological innovations will cause minor employment cutbacks affecting some Compositors and Typesetters, Locomotive Firemen, and Stationary Engineers

CHART 5

EMPLOYMENT IN OCCUPATIONAL GROUPS, 1970-1980

Percent Distribution Showing Little Change



35

NET CHANGE

+.3%

-.1%

+.5%

will number 695, 800 -- a 20. 9 percent increase over the 1970-1980 period. ers will be needed to fill job openings created by deaths and retirements men, and Kindred Worker group between 1970 and 1980. Overall business activity will demand the addition of 120,500 workers in the Craftsmen, By the end of the current decade, they Another 128, 500 work

OPERATIVES (SEMISKILLED WORKERS)

the labor force because of deaths and retirements tional need for some 16,000 semiskilled workers annually to replace those who will withdraw from ment in Texas -- 17.1 percent compared to 22.4 percent. ment of Operatives will slip from the second largest occupational category in Texas to third place 737,800 by 1980. Although the manpower requirements for occupational growth are slowing, there will be an addi-Employment of Operatives (semiskilled workers) is expected to increase from 630, 100 in 1970 to This growth will be at a considerably slower rate than that for that all employ-Because of this slower trend, employ-

the greatest promise, with a 24.5 percent increase between 1970 and 1980. tion. By 1980, there should be 198,700 Operatives working in occupations connected with Transporta 26 percent of all semiskilled workers in 1970 were working in Transportation-related occupations ing Workers should also experience satisfactory growth, with an anticipated increase of 20.9 per While most of the occupations found in the Operatives category are related to Manufacturing, over In the of cupations associated with Manufacturing, the Metalworking Operatives group shows Packing and Inspect-

skilled Textile Workers decrease, the only group in its entirety expected to register a loss is the one comprised of Semi cent during the decade. It should be noted that while some specific occupations are expected to

SERVICE WORKERS

employed in private households as Child Care Workers, Cooks, Housekeepers, Laundresses, and for another 195,000 workers. Servants, while, outside of private households, employment in these same occupations accounted ranged from Policeman to Health Trainee to Housekeeper. Almost 100,000 Service Workers were In 1970, some 576, 700 persons were employed as Service workers in Texas. Their occupations

specific occupation in the Health Service Workers group expecting a decrease will be Health Traincategory. Health Service Workers are expected to be the fastest growing group of occupations in the Service They are expected to rise from 79,000 workers in 1970 to 117,500 by 1980. The only

ment. occupations in this group range from Airline Stewardesses to Ushers in Recreation and Amuse-Another occupational group expecting substantial growth is the Personal Service Workers. 1970-to-1980 period, several occupations in the group are expected to decline in employment While Personal Service Workers are anticipated to increase by 43. 2 percent during the

during the 1970-to-1980 decade One occupation -- Boarding and Lodging Housekeepers--should experience a 75 percent decrease

very nature of Services creates an atmosphere for change and innovation, thus necessitating changes expansion, some 295, 700 workers will be needed to replace those who will leave the labor force other factor to be remembered when considering future growth in Service occupations is, that the ness activities, because of death or retirement in Service-related occupations. In addition to the anticipated manpower requirements created by 1980. A number of factors contributing to this growth are the growing population, expanding busi-The employment of Service Workers is expected to increase some 25.5 percent between 1970 and increasing leisure time, and rising levels of disposable personal income. An-

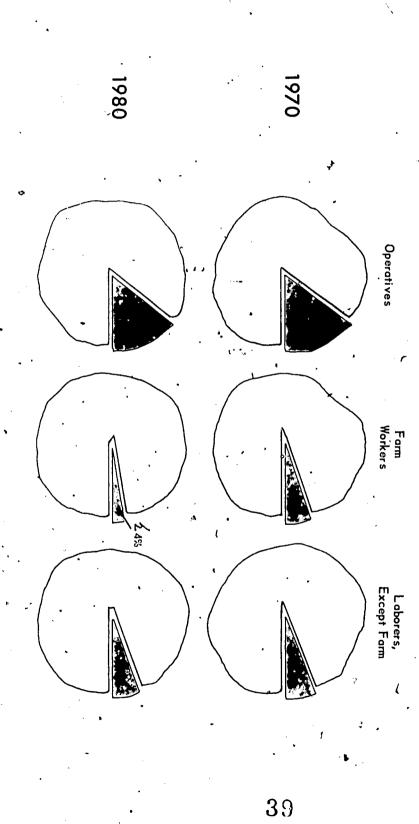
LABORERS, EXCEPT FARM AND MINE

for Texas Laborers. advances in these three largest categories will account for 87. I percent of the total net change Freight and Material Handlers will grow to 43,500; and Stock Handlers will total 50,000. predicted to be employed as Laborers. In 1970, there were about 249,800 Laborers in Texas, and in 1980, about 276,100 workers are By 1980, Construction Laborers will number 67, 600;

seventies and be the increased use of mechanized equipment. Employment demands for Laborers will be limited by a slackening of business activity in the mid Needs for additional employment

EMPLOYMENT IN OCCUPATIONAL GROUPS, 1970-1980

Percent Distribution Showing Substantial Loss



NET CHANGE

-.6%

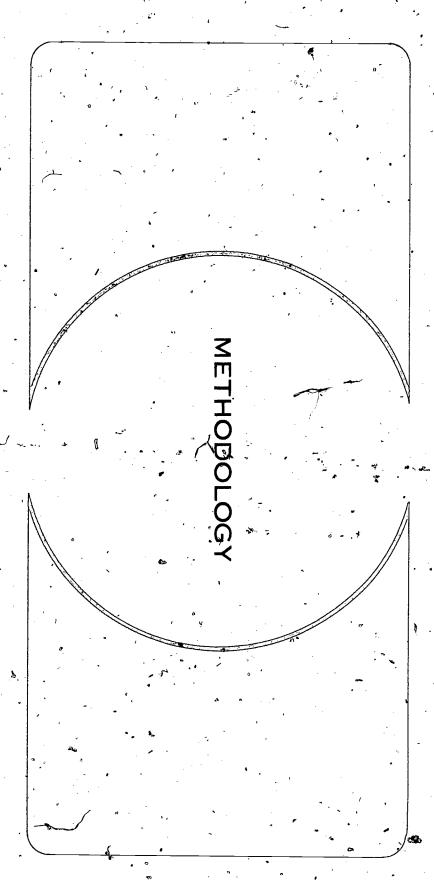
-2.6%

-.5%.

workers will be needed to replace those who die or retire. will account for only a 10.5 percent increase between 1970 and 1980, but an additional 41,000

FARMERS AND FARM WORKERS

shift from small independent Farmers to large "Agri-business" farming operations is also playaddition to the increased productivity brought about by improved techniques and fertilizers, the of acreage, that same acreage can sometimes produce yields far greater than in years past. ers and Farm Workers is showing a sharp decline. during the decade to replace those who withdraw from the labor force because of deaths or re technological advances in Farming. While fewer workers are being needed to work a given amount needs for Farmers ing a part in the overall decline. It should be noted, reduce their number to 127, 200 by 1980. This trend has been brought about partly by tremendous Although Texas has been noted for its Agricultural Production over the years, the need for Farmand Farm Workers are negative, some 58,000 persons will still be needed An anticipated 40 percent decrease should however, than even though the expansion



METHODOLOGY

ous publications such as Tomorrow's Manpower Needs, published by the U. S. Bureau of Labor the Interim Manpower Projection Rrogram. Additional information was also obtained from varidating data from the industry projections, the 1970 Census of Texas, and projected National staf-1980 trend fing patterns for 1980. formation for this publication. Occupational projections to 1980 were then developed by consoli-Employment level projections to 1980 for 198 separate industries in Texas provided the base The 1976 projections were derived through simple linear interpolation of the 1970 to The merging of these three separate sets of data was accomplished through

NDUSTRY PROJECTIONS

with either one, or both, were made by computer, using a program designed to enable the computer to select the best retional employment) to identify any existing relationships. lationship based on sound statistical tests. was compared to one or two independent variables (time, national employment, or time and na 1958 through 1970, for each industry. This historical data, combined into broad industry groups projections were based of the independent variables on annual average wage and salary estimates for the years A regression analysis then compared State estimates These comparisons and determinations

gressions. comparison of two independent variables to the dependent one, The regression equations used in the program were either simple least-squares or multiple re-The two different equations were employed; since the multiple regression allows the while the least-squares provides

other studies and their own knowledge of anticipated industry employment changes was reviewed--and revised, when necessary--by staff members, using information from various rived projections, however, were not accepted at face value. Every projected employment leve only a one-on-one comparison of dependent and independent variables.

employed in activities carried on by a particular industry, workers on unpaid absences, and mul using national data and 1970 State total employment data previously submitted for use in another Once the wage and salary projections were accepted, they were submitted to the U. were made where necessary. following classes of wdrkers: self-employed and unpaid family workers, government workers program. Labor Statistics for conversion to a total employment concept. This conversion was accomplished The total employment concept includes, in addition to wage and salary employment, the These total employment projections were given a final review, and revisions

OCCUPATIONAL PROJECTIONS

industry's total employment belonging to each of 469 specific occupations. profile for each of 260 industries. These profiles consist of ratios showing the percentage of each the 1970 and 1980 National Industry-Occupation matrices which contain a national occupationa The occupational projections developed for this study were derived through a technique relying or

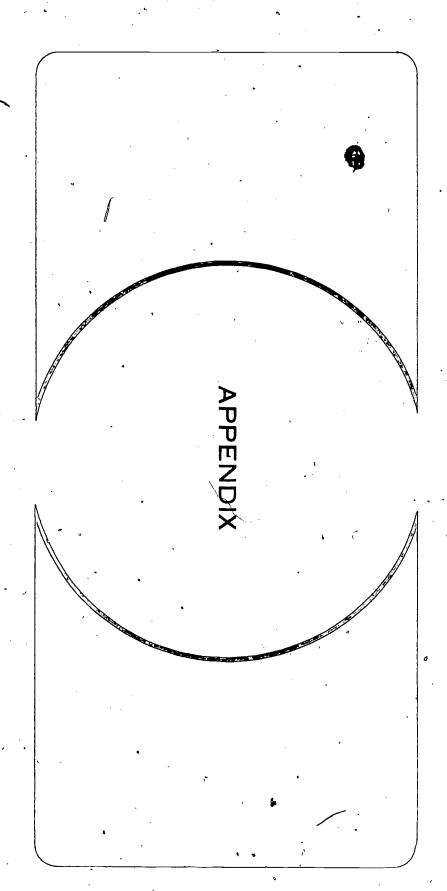
ployment data from the 1970 Census, cent change between the two estimates was then calculated and applied to Texas occupational em tries, producing separate sets of occupational employment estimates for 1970 and 1980. The national matrices for 1970 and 1980 were applied to state industry estimates for the respec The resulting new matrices were then summed for each occupation over all indus to produce an estimate of 1980 projected employment by The per

sistency and credibility. occupation. Once again, all mathematical estimates were reviewed by staff members

REPLACEMENT NEEDS

sidered in this study. employed workers who die or retire. There are other reasons why workers leave their jobs and years. "Replacement demand" is the number of new workers required to replace those already. demand" can be estimated as simply the difference between employment in the base and matter to estimate the number of jobs created (or abolished) during the study period. "Expansion thereby, create job vacancies; however, they are for the most part unmeasurable and are not con-Where current employment and estimated future employment levels are-available,, it is a simple

demand" and "annual replacement demand" for each occupation were then combined to obtain an estimate of total demand for workers for 1976. employment to yield estimates of annual separations in 1976, separation rates for 1976. applied against estimated rates of separation for each age group, by sex, to obtain estimates of of several variables. The method selected to estimate occupational demand created by death and retirements consists State employment for each occupation and for twelve age groupings-were These rates were then applied to the interpolated estimates of by occupation. "Annual expansion



ERIC

APPENDIX TABLES

	• ,	
Table C.	Table B.	; ; ;
Job Openings by Occupation for Texas (1976)	Employment in Texas by Occupation 1970, and Projections to 1976 and 1980	1970, and Projections to 1976 and 1980
91	65	51
	46	t
•	40	



EMPLOYMENT IN TEXAS BY DETAILED INDUSTRY TABLE A

TABLE A

EMPLOYMENT 1 /IN TEXAS BY DETAILED INDUSTRY 1970, AND PROJECTIONS TO 1976 AND 1980

3					٠
	ANNUAL AV	AVERAGE EMPL	EMPLOYMENT	1970-1980	CHANGE
INDUSTRY	1970	19762/	19802/	NET	PERCENT
Total All Industries	4,279,700	4,.855,800	5,239,900	960, 200	22.4
Agriculture, Forestry and Fisheries	265,600	217, 100	186, 400	-79, 200	-29.8
-	262, 000	214, 200	184,000	-78,000	-29. 8
Agricultural Production	233, 200	190,000	162,800	-70,400	-30.2
Services, Except Horticulture	19,600	16,800	15,000	-4,600	-23.5
	, 9, 200	7, 400	6, 200	-3; 000	-32.6
Forestry	. 700	700	700	0	0.0
Fisheries	2, 900	2, 200	1,700	-1,200	-41.4
Mining	106,700	111,400	116,500	9,800	9. 2. 4.8
Metal Mining	500	500	500	0	0.0
Coal Mining	0	. ~		400	1
Crude Petroleum and Natural Gas	100,100	103,800	7 500	8,000	23 . C
Nonmetallic Mining, Quarrying	6,100	6,900	7,500	1,400	23.0
Construction	310,100	357, 400	389, 100	79,000	25.5
General Building Contractors	82,000	96,400	106,200	24,200	29. 5
General Contractors, Except Building	101,600	. 117, 100	7,	25,800	25.4
Special Trade Contractors	126, 500	143,900	, 155, 500	29, 000	22.9
Manufacturing	753, 100	853 . 500	918,100	165,000	21.9
Durable Goods	414,600	479,000	521, 900	107, 300	25.9
Ordnance	13, 700	14,200	14,500	800	5.8
Lumber and Wood Products	22, 400	26,800	2	₁ 7, 400	3 3.0
Logging	2, 300	3,900	5,100	2,800	121.7
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	•			,	RIC RIC at Provided by Et
4		,		\	E)
		,		``	•

TABLE A (Continued)

EMPLOYMENT 1 /IN TEXAS BY DETAILED INDUSTRY 1970, AND PROJECTIONS TO 1976 AND 1980

3			Machinery, n.e.c.	Electronic Computing Equipment	counting Ma	Metalworking Machinery	Construction Machines	Farm Machinery, Equipment		Misc. Fabricated Metal Products	Metal Stamping	Screw Machine Products ;	Fabricated Metal Products	Cutlery, Other Hardware	Fabricated Metal Products	Other Primary Nonferrous	Primary Aluminum Industries	Other Primary Steel	Blast Furnaces, Steel Works	Primary Metal Industries .	Misc. Nonrnetallic, Stone	Pottery and Related Products	Structural Clay Products	Cement, Concrete, Plaster	· Glass and Glass Products	Stone, Clay, Glass Products	Furniture and Fixtures	Misc. Wood Products	Sawmill, Planing Mill, Mill Works	INDUSTRY	,	
•			22,400	4, 200	2, 100	3,400	36,700	_p 1,500	70,300	22,000	1,400	800	29, 500	1,200	. 54,900	6,200	8,500	12, 300	7, 900	34, 900	5,000	1,000	4,500	16,700	. 3, 100	30 , 300	17, 200	4,500	15,600	1970	ANNUAL AVERAGE	
	•	•	26, 700	5,000	2,600	4,100	44, 100	1,800	84, 300	24,600	1,600	. 800	33,000	1,400	61,400	6,400	8,700	12, 700	.8, 100	35,900	6,600	1,100	5,400	24,800	4,000	900	22,500	\ 5,200	17,700	19762/		
		,	29,600	•_	2, 900	4,500	49,000	2,000	93,600	26, 400	1,700	900	35,300	1,500	65,800	6,500	8,900	12,900	8,300	36,600	7,600	1,200	6,000	30, 200	<u>.</u>	49,700	25,900	5,700	19,000	1980 <u>2</u> /	EMPLOY MENT	
			7, 200	1,400	800	1,100	12,300	500	23,300	4,400	300	100	5,800	300	10,900	300	400	600	400	1,700	2,600	200	1,500	13,500	1,600	19,400	8,700	1,200	3,400	NET	1970-1980	
	•		32.1	33.3	38.1	32.4	33. 5	33.3	33.1.	20.0 ~	•	12.5	19.7	25.0	19.9	4.8	4.7	4.9	5.1 4	4.9 C	52.0	20. ò	33.3	80.8	51.6	64.0	50.6	26.7	21.8	PERCENT .	CHANGE	
	EI		~~	•			•												-1	U												

TABLE A (Continued)

EMPLOYMENT 1 /IN TEXAS BY DETAILED INDUSTRY 1970, AND PROJECTIONS TO 1976 AND 1980

	Nor		•	
	Nondurable Goods. Food and Kindred Products Meat Products Dairy Products Canning and Preserving Grain-mill Products Bakery Products		INDUSTRŸ	
••	338, 500 86, 600 18, 100 9, 100 11, 000 8, 300 12, 000	54, 400 20, 900 32, 600 54, 500 68, 200 9, 000 5, 800 13, 200 7, 400 4, 400 8, 800	ANNUAL AVERAGE	
	374, 500 88, 200 18, 400 8, 700 11, 600 11, 800	72, 200 1, 100 4, 27, 800 43, 300 10, 800 65, 400 10, 500 10, 500 900 16, 200 9, 100 5, 400 1, 700 9, 700	1 () 1	
•	396, 200 89, 300 18, 600 8, 500 12, 000 7, 200 11, 600	84,100 1,300 32,300 50,500 93,400 11,100 63,600 11,400 6,000 18,200 10,300 6,100 1,800	EMPLOYMENT	
	57; 700 2, 700 500 -600 1, 000 -1, 100 -400	29, 700 11, 400 11, 400 17, 900 -1, 100 -4, 600 2, 400 2, 200 0 200 1, 700 1, 700	1970-1980 NET	
ERIC Arithmet resolution (100	17.0 .3.1 2.8 -6.6 9.1 -13.3	54.6 44.4 54.5 -1.2 -1.2 -6.7 26.7 0.0 37.9 39.2 38.6 39.2 17.0	PERCENT	

TABLE A (Continued)

EMPLOYMENT¹/IN TEXAS BY DETAILED INDUSTRY 1970, AND PROJECTIONS TO 1976 AND 1980

	Yarn, Fabric Mills Misc: Textile Mill Products Apparel, Textile Products Apparel and Accessories Misc. Fabricated Products Paper and Allied Products Pulp, Paper, Paperboard Mills Paperboard Containers, Boxes Misc. Paper and Pulp, Products Printing and Publishing Newspaper Publishing Printing, Publishing Except Newspaper Chemical and Allied Products Industrial Chemicals Plastics, Synthetics Synthetic Fibers Drugs and Medicines	Confectionery Products Beverage Industries Misc. Food Preparation Textile Mill Products Knitting Mills Dyeing, Finishing Fextiles Floor Coverings	INDUSTRY
	5, 100 1, 000 62, 200 57, 800 4, 400 17, 300 6, 800 44; 600 21, 800 62, 600 34, 700 11, 400 0 2, 200	1,900 13,500 12,700 7,500 1,100	ANNUAL AVERAGE
70	5, 100 1, 000 80, 400. 74, 700 5, 700 19, 800 6, 900 7, 800 47, 200 22, 200 69, 800 38, 600 12, 800 2, 500	1,900 15,500 12,700 7,500 1,100	ZERAGE EMPLOYI
	26, 600 74, 500 26, 600 7, 400 8, 500 27, 400 28, 500 28, 500 26, 600 74, 500 41, 300 13, 700 2, 600	1,900 16,800 12,700 7,500 1,100	J1980 <u>2/</u>
	30, 400 28, 300 28, 300 2, 100 4, 200 1, 400 1, 100 4, 500 11, 900 6, 600 2, 300	3,300 0 0	1970-1980
	0.0 48.9 49.0 47.7 24.3 23.3 25.0 24.4 10.1 16.7 19.0 19.0 20.2 18.2	0.0 24.4 0.0 0.0 0.0	CHANGE
ERIC Fruit leat Provided by ERIC	51		



· TABLE A (Continued)

EMPLOYMENT 1 /IN TEXAS BY DETAILED INDUSTRY 1970, AND PROJECTIONS TO 1976₈AND 1980

		•	•	•	•
• {	ANNUAL A	AVERAGE EMP	EMPLOYMENT	1970-1980	0 CHANGE
INDUSTRY	1970	19762/	19802/	LIN	PERCENT
•	,	•			
Soaps and Cosmetics	2, 100	2, 300	2,400	300	14.3
Paints and Varnishes	3-, 000	. 3, 400	3,600	600 -	20.0
Agricultural Chemicals	, 3,800	4,200	4,500	-700	18.4
Misc. Chemicals	. 5,400	6,000	6,400	1,000	18.5
Petroleum and Coal Products	39, 100	39,400	37, 200	1,900	-4.9
Petroleum Refining '	36,500	36,600	34,200	-2,300	-6.3
Misc. Petroleum, Coal Products	2,600	2,800	3,000	400	15.4
· Rubber, Misc. Plastic Products	13,800	17,800	20,400	· 6,600	47.8
Rubber Products	5,900	,6, 100	6,300	400	6.8
Misc. Plastic Products .	7, 900	11,700	14,100	6,200	78.5
Other Nondurable Goods	4,800	•4, 400	4,100	-700	-14.6 2
Tobacco Manufacturing ²	1	1		1 1	5
Leather Tanning, Finishing	200	200	200	0	0.0
Footwear, Except Rubber	2,600	2,400	2,200	-400	-15.4
.) • All Other Leather Products $\frac{3}{}$	1	1	!	, ,	1
		•	•		-
Transportation, Other Public Utilities	288, 100	315,400	333,700	45,600	15.8
Transportation, Total	160,900	170, 400	179, 100	, j8, 200	11,3
Railroads Railway Express	28,600	26,100	24,500	-4,100	-14.3
Local, Interurban Transit	11,800	13,100	14,000	2,200	18.6
Street Railways, Bus Line	8,700	9,700	10,500	1,800	20.7
Taxicab Service	3, 100	3,400	`3,500	400	17.9
Trucking and Warehousing	68,400	75, 200.	81,700	13,300	19.4
Trucking Service	60,300	66,800	73, 100	12,800	21.2
Warehousing and Storage	8,100	8,400	8,600	500	6.2
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TABLE A (Continued)

EMPLOYMENT 1/1IN TEXAS BY DETAILED INDUSTRY 1970, AND PROJECTIONS TO 1976 AND 980

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	ρ.			•	•	
Market .		ANNUAL /	AVERAGE EMP	EMPLOYMENT	1970-1980 CHANG	0 CHANGE
•	INDUSTRY	1970	1976 <u>2</u> /	19802/	NET	LNÍO NEA
			R	•	- 1	,
. Food a	and Related Products	36,300	36,700	37,000	700	1.9
· - Farm	Products - Raw Materials	13, 100	16,000	18,000	4,90Q	37.4
Electi	Electrical Goods	18,500	21,000	.22, 700	4,200	~ 22.7
Hardware,	vare, Plumbing	11,100	12,700	13,700	2,600	. 23.4
Machi		57,000	70,200	79,000	22,000	38.6
Misc. W		83, 200	100,200	111,500	28, 300	34.0.
Metal	Metals and Minerals, d.e.c.	9,800	11,800	13, 300	3,500	35.7
Petro	Petroleum Products	15,200	18, 200	° 20,200	5,000	32, 9
Scrap and	and Waste Material	6,700	7,900	8,700	2,000	29.9
Alcoh	Alcoholic Beverages /	5,600 .	. 6,800	7,500	1,900	33.9
Paper	Paper and Its Products	7,000	8,500	9,500	2,500	35.7
Lumber,	er, Construction Materials	11,800	14,300	15, 900	4, 100	34.7
, Wholesale,	sale, n.e.c.	27, 100	, 32,700	36,400	9, 300	34.~3
Retail Trade		713,800	815,100	882, 700	168,900	23. 7.
Building	Building Materials	35,300	38, 500	40,600	5,300	15.0
Lumber,	er, Building Materials	25,000	27, 200	28,700	3,700	14.8
Hardw	Hardware and Fárm Equipment	10,300	. 11, 300	11,4900	1,600	15.5
General	General Merchandise, Total	155, 200	186, 700	207, 700	¸52 , 500	33.8
Depar	Department, Mail Order	78,200	98,400	111, 900	33,700	43.1
Limited	ed Price Stores	20,200	20,700	21,000	800	4. 0
Vendi	Vending Machine Operators	2,600	3, 100	3,400	.800	30.8
Direct		23, 100	27,000	29,600	6,500	28.1
· Misc.	Merchandise Stores	31,100	37,500	41,800	10,700	34.4
Food and	Dairy Stores	ľ14,300	130,000	140,500	26,200	22. 9
Groce	Grocery Stores	106, 300	121, 200	131,200	24,900	23.4
	,					•
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TABLE A (Continued)

EMPLOYMENT $^{1/}$ IN TEXAS BY DETAILED INDUSTRY 1970 AND PROJECTIONS TO 1976 AND 1980

		, , , , ,			
	ANNÙAL AVERAGE	VERAGE EMPI	OYMENT	1970-1980	CHANGE
INDUST XX	1970	19762/	19802/	, NET	PERCENT
	•			,	
	3 000	• 000	• 900	200	10.5
Retail Bakeries	4,100	4,600	4, 900	800	19.5
Food Stores; n.e.c.	3, 100	3,400	3,500.	400.	12.9
Auto Dealers, Gas Stations	113,300	115,100	119,300	6,000	5.3
Motor Vehicle Dealers	52,600	53,000	.54,700	2,100	4.0
Tire, Battery Accessory	15,400.	17, 200	18,500%	3,100	20.1
Gasoline Service Stations	40,300	39, 100	39,700	-600	1.5
Misc. Vehicle Dealers	5,000	5,800	6, 400	·1, 400	28.0
Apparel and Accessories	41,600	51,900	-	15,800 .	38.0
Apparel, Accessories Stores	33, 300	43, 200	48,300	15,000	45.0
9	8,300 ;	8, 700	, 9, 100	800	9.6 5
Furniture and Appliances	31,000	33,500	35,300	4,300	13.9
Home Furnishing Stores,	20,000	21,600	22, 8,00	2,800	14.0
Appliance, TV, Radio Stores	1 41,000	11,900	12,500	1,500	13.6
Eating and Drinking Places	141,400 ,	158, 100	169, 200	27,800	19.7
'Misc. Retail Trade Stores	81,700	101,300	112,700	31,000	37.9
Drug Stores	29, 300	34,000	39,200	9, 900	33. 8
Liquor Stores	5,400	, 5, 900	6,200 ,	800	14.8
Farm, Garden Supply Stores	. : 7,100.	8,000	8,600	1,500	21.1
Jewelry Stores *	8,500	9, 5,00	10,200	1,700	20.0
Fuel and Low Dealers	4,200	4,800	5,200	1,000	, 23.8
Ketall # lorists	4,500	4,600.	4,600	100	2: 2.
Misc., Retail Trade Stores	22, 700	34; 500	38, 700	16,000	70.5
Finance Insurance Real Estate	207 700	253 900	784 600	76 900	. 370°
	• •	•	ω 	• •	5
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	•		•		RĬ
		,		,	



TABLE A (Continued)

EMPLOYMENT $^{1/}$ IN TEXAS BY DETAILED INDÜSTRY 1970 AND PROJECTIONS TO 1976 AND 1980

	ANNII AI AVER AGE	र्हें	MDI O&MENT	1970_1980	CHÁNGF
INDUSTRY	1970	1976‡/	1980-2/	NET	PERCENT
P. Banking	46 700	58 400	66 100	19 400	
Credit Agencies		. 00	2.8	• •	`
Stock Brokers, Investment	13,500	, 90	• '	700	
Insurance	79,900 .	95,400	105,700	5	`
Deal Estate, Including Law Insurance	44,200	57, 200	•	21,,600	
	,		e.		9 .
Services	1,144,800	1,381,100	1,537,300	. 392,500	
Hotels and Lodging Places	45,900	59,400	68,400	22,500	
Hotels and Motels	38,700	. 51,400	59, 900	21,200	_
Lodging Places, Except Hotels.	7,200 .	8,000	8, 500	1,300	
Other Personal Services	95,900	114, 100	126,300	30,400	,
Laundry, Cleaning	43,200	48,800	52,500	9,300	•
Beauty Shops	28,800	35,000	39, 200	10,400	
Barber Shops	8,900	10,700	11,900	3,000	•
Shoe Repair Shops	1,600	2,100	2,500	900	
Dressmaking Shops	3,000	4,400	5,300	,2; 300	-
	10,400	13,100	14,900	•	,
Misc. Business Services	80,100	128,600	161,400	81,300	_
Advertising .	5,100	5,600	5,900	800'	_
Business Management Services	6,400	9,800	12,100	5,700	- :
. Commercial R and D	3,100	5,300	6,700	•	_
'Computer Programming	7, 900	13,500	17, 300	9,400	1
Detective and Protective	5,200	8,800	11,200	6,000	, 1
Employment, Temporary Help	11,900	20,00¢	25,500	13,600	
_	17,5,00	, 60	36,200	18,700	_
	23,000	37,000	46,500	23,500	
	1	•	•• —	γ,	
		•		Š	•
	1 0			n (,
		•		• •	

TABLE A (Continued)

EMPLOYMENT¹/IN TEXAS BY DETAILED INDUSTRY 1970 AND PROJECTIONS TO 1976 AND 1980

	Galleries, Zoo	Libraries Fducational Services: n.e.c.	Colleges and Universities	Elementary, Secondary	Educational Services.	Legal Services	Health Services, n.e.c.	Health Practitioners, n.e.c.	Convalescent Institutions	Hospitals,	Offices of Chiropractors	of.	Offices of Physicians	Medical, Other Health	Misc, Entertainment	Bowling Alleys, Billiards	Misc. Entertainment	Motion Pictures, Theaters	Other Repair Services	Electric Repair Shops		Auto Services, Except Repair	Auto Repair	Autòmobile Repair Services		INDUSTRY		
	1,000	2,500 17,500	72,000	214, 100	306,100	. 19,300	12,700	1,700	30,700	137, 200 🕵	1,300	12,100	34, 500	230;200	14,500	3,600	18,100	11,600	16,700	8,500	25, 200	9,500	23, 900	33,400	1970		ANNUAL A	3:
	1,200	3,000 18,200	81,700	254,300	357,200	22,400	15,500	. 2,300	42,100	169, 900	1,800	15,500	44,200	291,300	17, 900	4,600	22,500	14,300	18,900	9,600	28,500	11,300	25,400	36,700	1976 ² /	*	AVERAGE EMPLO	•
		3,300	7,	,08	9,	4,	17,300	2,700	.49,600	191,200	. 2, 100	17,700	50,500	1,	•	•	25,400	6,	20,400	•	30; 700	12,500	6,4	38, 900	1980 <u>-</u> 2/	2	OYMENT	
•	, 300	1 100	5,9	66,000	ψ	, 2	*· 6	1,000	18,900	54,000	, 800 _,	5,600	Ç	100, 900 4	5,700	1,600	7,300	4,500	3,700	1,800	5,500	3,000	ů,	5,500	ŅET		1970-1980	
,	• •	32.0 6.3	22.1	30.8	27.4	26.9	6.	8	61.6	39.4	61.5	6.	6.	∞	9.	. 4	40.3	38.8	22.2	2,1.2	21.8	31.6	, 10.5	16.5	PERCENT		CHANGE	,

TABLE A, (Continued)

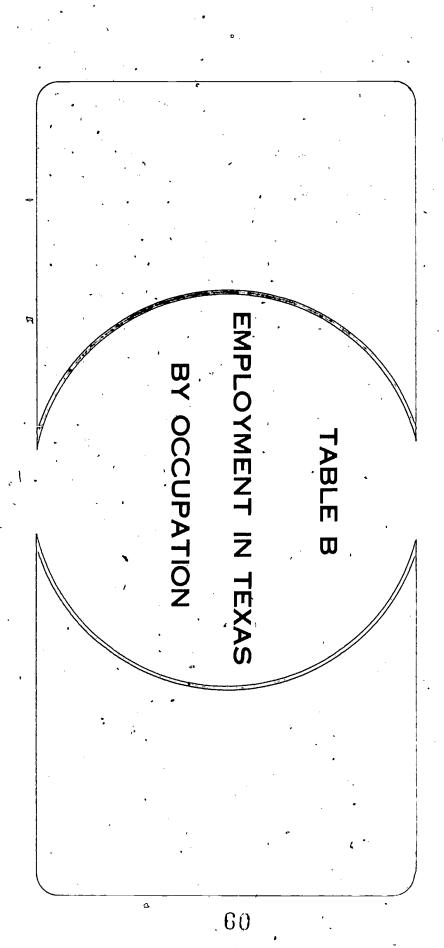
EMPLOYMENT $^{\perp}$ /IN TEXAS BY DETAILED INDUSTRY 1970 AND PROJECTIONS TO 1976 AND 1980

Nonprofit Organizations 91,600 100,200 100,200 14,600 15.9
--

Total employment less the secondary jobs of multi-jobholders.

(Footnotes continued on next page)

- 2/ Projections based on relationship to National employment.
- 3/. Employment figures not published because of non-disclosure restrictions.
- Includes workers engaged in activities unique to government. Workers engaged in activities also concal Facilities, etc. are classified in their appropriate industry. ducted by private enterprises such as Construction, Public Utilities, Educational Institutions, Medi-



EMPLOYMENT $^{1/}$ IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

TABLE B

		•	'			
	Chemists Geologists Marine Scientists Physicists and Astronomers Life, Physical Scientists, n. e. c.	Life and Physical Scientists Agricultural Scientists Atmospheric, Space Scientists Biological Scientists	Engineers, Technical Engineers, Aero-astronautic Engineers, Chemical Engineers, Civil Engineers, Electrical Engineers, Industrial Engineers, Mechanical Engineers, Metallurgical Engineers, Mining Engineers, Petroleum Engineers, Sales Engineers, Other	Total All Occupations Professional, Technical, and Kindred	OCCUPATION	
	4,600 6,700 .100 600 (N)	14,100 600 300 1,200	60, 200 5, 700 4, 900 9, 100 13, 600 6, 600 7, 500 7, 500 300 4, 400 1, 800 5, 800	4, 279, 700 572, 700	ANNUAL AVER AGE 1970 1976	
	5, 500 7, 400 100 700 (N)	15, 900 600 300 1, 300	71, 500 6, 800 5, 100 10, 600 16, 900 8, 400 8, 700 600 200 4, 600 2, 100 7, 500	4,855,800 678,000]2 E	
	6, 100 7, 800 200 800 100	17, 400 600 400 1, 400	78, 700 7, 400 5, 200 11, 600 19, 600 9, 400 700 200 4, 700 2, 300 8, 600	5,239,900 746,500	MPLOYMENT 1980 ² /	
	1,500 1,100 100 200	3, 300 0 100 200	18,500 1,700 300 2,500 5,400 3,000 1,900 200 -100 300 500 2,800	960,200	1970-1980 NET	
ERIC	32.6 16.4 100.0 33.3	23.4 0.0 33.3 16.7	30.7 29.8 6.1 27.5 39.7 45.5 40.0 6.8 6.8 27.8	22. 4. 30. 3	PERCENT	

; ;

TABLE B (Continued) .

EMPLOYMENT $^{1/}$ IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

	Mathematical Specialists Actuaries Actuaries Mathematicians Engineers, Science Technicians Agricultural, Biological Technicians Agricultural, Biological Technicians Except Health Chemical Technicians Draftsmen Electrical, Electronic Technicians Industrial Engineering Technicians Mechanical Technicians Mechanical Engineering Technicians Surveyors Engineering, Science Technicians Chiropractors Dentists Dietitians Optometrists Pharmacists Physicians, Medical and Osteopaths Podiatrists	OCCUPATION
	1,200 200 300 700 1,200 6,700 17,000 9,400 800 0 3,900 3,800 1,500 800 6,700 12,800 12,800	ANNUAL AVERAGE
	$ \begin{array}{c} 1,600 \\ 300 \\ 400 \\ 900 \\ 62,200 \\ 7,000 \\ 20,900 \\ 12,500 \\ 900 \\ 0 \\ $	
	1,800 1,800 300 500 500 1,000 1,700 1,700 1,700 1,4,500 1,000 1,000 1,000 1,000 1,000 1,400 5,200 1,400 5,200 1,400	EMPLOYMENT
	NET 600 100 200 300 21,700 500 6,400 5,100 200 0 1,300 7,700 22,800 500 1,600 600 1,400 3,500 100	1970-1980
	PERCENT 50.0 66.7 42.9 44.3 44.3 7.5 37.6 54.3 25.0 0.0 0.0 33.3 79.4 40.0 50.0 50.0 20.9 27.3	0 CHANGE
ERIC	62	1 1

TABLE B (Continued)

EMPLOYMENT $^{1/}$ IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

•		•				
-		A TVONNÀ	AVERAGE EMPI	EMPLOYMENT	1970-1980) CHANGE
	, OCCUPATION	1970	19762/	19802/	NET.	PERCENT
•	Registered Nurses	32,100	38.800	43.300	11.200	34.9
		4,000		•	2,700	67.5
	Veterinarians	1,500	2,000		800	53.3
	Other Medical and Health	(Z)	(Z)	(Z)	-	*
•	Health Technologists and Technicians	13,300	18,900	22,400	9,100	68.4
;	Clinical Lab Technologists and	•	•			
	Technicians Dental Hygienists	6,700 500	9,700	11,500	ं. 4, 800 500	71.6
	Health Record Technologists and				,	
	-	600	1,100	1,400	. 800	133.3.7
	Radiologic Technologists and				••	Č
· .•	Technicians	2,900	3,600	4, 100	1,200	41.4
	Technicians	2,600	3,700	4,400	1,800	69.2
•	,	,				
0	Technicians, Except Health	11,800	14,900	17,100	5,300	44.9
	Airplane Pilots	4,800	5,900	6,700.	1,900	
	Air Traffic Controllers	2,000	2,200	2,300	300	15.0
	Embalmers	. 200	, 200	300	100	
	Flight Engineers	. 400	, 500	. 600	200	50.0
	Radio Operators	2,000	2,400	2,600	600	30.0
	Tool Programers, Numerical	100	100	100		
	Other Technicians, Except Health	2,100	-3, 300	4, 1,00	2,000	
	Therapy Assistants	. 200	300	400	200	100.0
			•	•		,,,
		•	b			~
						IC ded by ERIC
	•	•	,		•	ER Full Text Provide
		,				

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TABLE B (Continued)

EMPLOYMENT $^{1/}$ IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1975 AND 1980

	~ H	Coaches, Physical Ed. Teachers Economics Teachers	ric, Earth, Marine rs eachers	Teachers Adult Education Teachers Agriculture Teachers Art, Drama, Music Teachers	Social Scientists Economists Political Scientists Psychologists Sociologists Urban and Regional Planners Other Social Scientists	Computer Specialists Computer Programers Computer Systems Analysts Other Computer Specialists,	OCCUPATION	
	300 76, 200	900 400	300 1,100	183, 200 2, 800 300 1, 700	3, 900 2, 500 (N) 900 (N) 300	14,300 9,100 4,400 800	ANNUAL A	
	300 82,800	1,000 1,000 500	400 1,400	1, 199, 200 3, 100 300 1, 900	5, 400 3, 300 (N) 1, 400 400 300	· 18,100 11,200 · 5,900 1,000	AVER AGE EMPL	
,	300 87,300	1,000	500 1,500	209, 400 3, 200 300 2, 100	6, 400 3, 900 (N) 1, 700 (N) 500	20,500 12,500 6,800 1,200	1980 ² /	
	11,100	100	200 400	26, 200 400 0 400	2,500 ° 1,400 ° 800 ° 200	6,200 3,400 2,400 400	1970-1980 NET	
ERIC	0.0	0.0	66.7 36.4	14.3 14.3 0.0 23.5	64.1 56.0 88.9 66.7 50.0	43.4 · .37.4 54.5	NET PERCENT	

TABLE B (Continued)

EMPLOYMENT $^{1/}$ IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

· · · · ·	*												•							•		
	Writers, Artists, Entertainers, Actors	Teachers, n.e.c., Except College and University Teachers	Trade, Industrial and Technical Teachers	Theology Teachers	College and University Teachers,	Teachers	Science	Sociology Teachers	Secondary School Teachers		Preschool and Kindergarten Teachers	Mathematics Teachers Dhysics Teachers	Law Teachers	Home Economics Teachers		pecialties	English Leachers	Engineering Teachers		OCCUPATION		
•	37, 100 200	, 12,400	200	200	7,900	700	500	300	58, 200	600	8 600	1,400 700	200	200	700	1.300	. 1, 900	, 800	٠	1970 ·	ANNUAL AVERAGE	
	45,900 300	13,700	. 300	300	9,500	. 900	. 600	400	60, 300	800	9.900	1,600	200	, 200	700	1, 900	. 1 000	800	Q.	19762/		
	51,700	14,500	300	300	10,500	1,000	700	500	61,600		10,800	1,700	300	200	700	2, 200	, 1,100	,800	7	19802/	EMPLOYMENT	,
	14,600	. 2,100	100	100	. 2,600	300	200	. 200	3,400	300	2.200	- 100	100	0	0 .	900	, , , , , , , , , , , , , , , , , , , ,	. 0		NET	1970-1980	
ERIC Fredheliy III	39.4	16.9	50.0	50.0	32.9	42.9 .	. 40,0	66.7	5.8	50.0 6	25.6 2	-143	50.0	0.0.	0.0	69.2	.37 5	0.00	•	PER CENT	0 CHANGE	

TABLE B (Continued)

EMPLOYMENT 1 /IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

	Other Professional, Technical and Kindred Worker's Accountants Architects Archivists and Curatons Clergymen Religious, Except Clergymen Farm Management Advisors Foresters, Conservationists Home Management Advisors Judges Lawyers Librarians	Attributes and Kindred Workers Authors Dancers Designers Editors and Reporters Musicians and Composers Photographers Public Relations Men, Writers Radio and TV Announcers Writers, Artists and Entertainers, n.e.c.	•
•	120, 400 37, 900 3, 500 200 15, 400 2, 400 1, 300 300 700 14, 800 5, 600	1970 2,900 700 4,300 6,000 5,900 4,300 4,300 3,400 4,200 1,200	ANNUAL A
		$ \begin{array}{c} 19762/\\ 3,400\\ 700\\ 200\\ 5,500\\ 7,100\\ 7,000\\ 5,500\\ 4,300\\ 5,200\\ 1,400\\ \end{array} $	ANNUAL AVERAGE EMPI
		4 1 1 1	LOYMENŤ
	43,000 8,900 2,200 100 2,600 -100 -100 300 0 4,500	NET 900 100 0 2,000 1,800 1,800 1,900 1,400 1,800 300	1970-198
ERIC.	30003566	PERCENT 31.0 14.3 0.0 46.5 30.5 44.2 41.2 42.9 65.8	1970-1980 CHANGE

TABLE B (Continued)

EMPLOYMENT $\frac{1}{2}$ IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

						. .				rs.								4				o		-	. '					-	k .	,
a		•		Officials and Public Administrators	Public	Inspectors, Except Construction and	·Health Administrators	Construction Inspector, Public	urers, Local Public Admin.	Assessors, Controllers, and Treas-	Administrators, Public Inspectors	•	Sales Manager, Except Retail Trade	Sales Manager, Retail Trade .	Purchasing Agents, Buyers, n.e.c.	Buyers, Wholesale, Retail	Buyers, Shippers. Farm Products	Creditmen	Bank, Financial Managers	Buyers, Sales, Loan Managers		Managers, Officials, Proprietors	Vocational Education Counselors	Social Workers	Recreation Workers	Reséarch Workers, n.e.c.	Personnel Labor Relations	Operations, Systems Research		OCCUPATION		
		,		12,700	6,300		4,900	. 1,000	2,700		41,000		14,700	15, 100	10, 200.	.8,700	1,900.	4,600	20,600	75,800	·	431,100	, 5,100 _.	7,000	2;600	4, 1,00	16; 200	2,900	•	1970	ANNUAL AVERAGE	
	•			- 12,800	7,300		6,800	1,200	2,900		46,600	•	. 18,500	19,500	.11, 900	10,800	2,100	. 5,400	26,900	95,100		527, 900	7,400	8,400	3,300	5,400	23,000	. 4,100	•	19762/		
		•		12,900	8,000		8,000	1,200	3,000		.~ 50,200	•	21,000	22,300	. 13,100	12, 100	2,200	-, 5, 900	30, 900	107,500	•	59,1,200	9,000	. 9,300	3,800	6,300	27,500	4,800		19802/	EMPLOYMENT.	•
				200	1,700		3,100	200	300	•	9,200	~	6,300	7,200	2,900	3,400	300	1,300 .	10,300	31,700	•	160,100	3,900	2,300	, 1,200	2,200	11,300	1,900		NET	1970-1980	
•	ER	IC and by ERIC	ŀ	1.6	27.0	,	. 63, 3	20.0	. 11.1	•	. 22.4		42.9	47.7	28.4	391	15.8	.28.3	· 50.0	1.8		37.1	76.5	32.9	46.2.	53.7		65.5		PERCENT	0 CHANGE	•



TABLE B (Continued)

EMPLOYMENT $\frac{1}{2}$ IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980.

Real Estate Agents, Brokers, etc. 18,5 Stock and Bond Salesmen .4,7	Agents, Salesmen 3, ors 3, nd Peddlers 15, gents, Brokers, etc. 25,	Officials of Lodges, Unions Railfoad Conductors Restaurant, Cafe, and Bar Managers Other Managers and Administrators Sales Workers 2,500 1,500 295,700	o- · · · · · · · · · · · · · · · · · · ·	Postmasters and Mail Supervisors, School Administrators, College School Administrators, Elementary and Secondary 9,800	ANNU.
500 24,400 700 4 700	4, 4, 17, 31,	2,800 500 500 1,700 100 30,300 500 312,900 351,500	386, 2, 11, 21,	00 1,500 00 2,500	1976 ²
28, 300 4, 700	4,500 400 4,100 19,500 34,800 3,600	2,900 3,300 1,800 31,100 352,600	433, 500 3, 200 .13, 300 .25, 300	1,400 2,900 12,800	LOYMENT
9,800 0		100 800 300 2,000. 100,100	119,200 1;000 5,600 9,300	3,000	, 1970-1980
53.0	36.4 .33.3 10.8 25.8 37.5	3.6 32.0 20.0 6.9 39.6 30.3	. 37.9 45.5 72.7 & 58.1 6	- \$2.5 45.0 30.6	PER CENT

TABLE'B (Continued)

EMPLOYMENT 1/1IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

		de Machin	Tabulating Machine Operators		Duplicating Machine Operators	Operators		g, Billing	Office Machine Operators		Typists	ï `	• •	• •	Legal	Stenographers, Typists, and Secretaries		Clerical Workers			men, Ret	Sales Clerks, Retail Trade	ade	Representatives.	Sales Representatives, Manufacturing			OCCUPATION		
· .		2,400	300	15,500	700°	8.500	1,600	3,500	32,500		√ 43,300	• •	146,800 -	3,100	5,300	204, 400	\$	734,000	\ \ \ \ \ \ \ \ \ \)° 9. 200 √	25.600		42.800	Ţ,	20,300		1970		A LAUNUAL A	
		3,100	200	14,500	800	` `11 . 400	1,600	1, 24, 100.	35,700		50.500	• •	184,100	4,300	7¢, 000	250,600	•	864,800		11.900	30,600	143,300	51.80	1	23,400		19762/		AVERAGE EMP	•
		3,600	200	13,600	900	13.300	1, /60	4, 400	37, 700 .		55.200	• •		•	٠ '	281,000		954, 700		13.700	33,800	156, 100	57.600		25,500		19802/		EMPLOYMENT,	
* * * * * * * * * * * * * * * * * * *	я ,	1,200	0,0 i 🕏	-1, 900	200	4.800	1,00	/000	(5,200		11.5900	-2,000) 61, 900	2,000	•	76,600		220,700	٧.	٠, ،	8.200	33,000	14.800	,	5,200		NET		1970-1980	
C		50.0.	-33: 3	* -12.3	28:6	56.5	0. 4	•	6.	.,	27.5	-33.9 ·	42.2	64.5	52.8 G	·37.5	*	30.1	,	48.9	32.0	26.8	34.6	,	25.6	, c	PERCENT		0 CHANGE	

TABUE B (Continued)

EMPLOYMENT \mathbb{L}^{Λ} IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

		Real Estate Appraisers	Proofresdore	Payroll, Time Keeping Clerks		0	Mail Handler, Except Post Office	Mail Carriers, Post Office	D)	and Investigators	Insurance Adjusters, Examiners,		Expediters, Production Controllers .	Estimators, Investigators, n.e.c.	Enumerators and Interviewers	Dispatcher, Starter, Vehicle	Counter Clerks, Except Food	Collectors, Bill and Account	Clerical Supervisors, n.e.c.	Workers	Clerical Assistants, Social Welfare	Cashiers	Bookkeepers	Billing Clerks	Bank Tellers	Other Clerical Workers		OCCUPALION .	
.*'		1,300	1 300	7, 700	2,800	1,800	6,000	13,800	4,600	5,800	ζ,	13,200	8,800	17,300	4,200	3,400	-15, 7 0 0	4,700	8, 900	(<u>N</u>)		64,500	93,100	5,600	T2,400	497,100		1970	ANNUAL A
		1.500	13,300	9, 100	2,900	1,800	7, 200	13,600,	5,300	7, 200	. <i>'</i>	14,300	10, 100	21,000	4,000-	4, 1,00	21,000	6,000	10, 100	100	, .	74,200	104, 100	7,600	14,800	578,500	•	$1976^{\frac{2}{2}}$	ANNUAL AVERAGE EMPLO
<u>.</u>	· · · · · · · · · · · · · · · · · · ·	1, 700 °	13,100	9,900	, 2,900	1,700	7,900	13,600	5,700	8, 100	-	15,200	10,900	23,600	3,900	4,500	24,600	6,800	10,800	.100	7	81,200	112,000	9,000	17,000	636,000		19802/	OYMENT
໌ ຈ		500	-800	2,200 .	100 '	-100	,1, 9ō0	₹ -200	., 1,100	2,300		2,000	2.100	6,300	-300	1,100	8,900	. 2,100	1,900			•	/ 18,900	3,400	4,600	138, 900	,	NET,	1970-1980
		30.8	-5.8	28.6	3.6	-5.6	31.7	-1.4	23.9,	39:7		15.2	23.9	36.4	. 7.1	32.4	56.7 I	44.7	21.3	1 1		25.9	20.3	60.7	37.1	, 27.9		PERCENT	CHANGE

TABLE B (Continued)

EMPLOYMENT¹/IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

		Excavating, Grading, Machine Oper- ators	Apprentices		Cement and Concrete Finishers	Preninces Bulldozer Operators	Brickmasons and Stonemasons Ap-	and	Carpenters Apprentices	1.	Construction Craftsmen		Foreman Windred Workers	Misc. Clerical Workers, h.e.c.		_		Telegraph Operators	U)	s, Ekc	Stock Clerks, Store Keepers	Statistical Clerks	Shipping, Receiving Clerks	Receptionists		OCCUPATION	
•	.	21,300	1,100	•		6,900	3 00	7,600	400 .	58,200	193,900	•	575 300	65; 600	1,400	5,200	20,700	700	100	7,700	• • •	14,700	22, 200	22,600		,1970	ANNUAL A
		24,600	1,300	•	8,700	8,100	, , ,	8,800	400	65,700	223,000	•	648 500	86, 000	1,500	•	20,700	700	100	12,200	∖ ເມ	16.100	24,300	26,500		19762/	AVERAGE EMPI
•	`	26,900	1,500	•	10,100	9,000	200	9,600	500,	70,700	242,700	070,000	695 800	100,400	1,600	7, 200	20,700	600	100	. 15, 200	32,100	17.100	2	29, 100		19802/	IPLOYMENT.
-		5,600	400	7,300	, n	2,100	, o	2,000	. 100	12,500	48,800	120,500	120 500	. 34, 800	200	2,000		-100	, O	7,500	6.600	2.400;	•	6,500	,	NET	1970-1980
ER	IC VICTORY ERIC	26.3	36.4	29.8		30. 4))	26.3	25.0	21.5	•	•	g. 20 0	53.0	14.3		0.0	•	0.0	97.4	25. 9	16.3	17.1	28. 8		PER CENT	970-1980 CHANGE

TABLE B (Continued)

EMPLOYMENT 1 /IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

•	a 6.7	Molders, Metal	Millwrights	Machinist Apprentice	Machinists	Job and Die Setters, Metal '	!T!	Heat Treaters, Annealers, etc.	Boilermakers	"Blacksmiths"		Metalworking Craftsmen Except		Foremen, n.e.c.		Tilesetters	Structural Metal Craftsmen		Plumbers and Pipefitters Apprentices	Plumbers and Pipefitters	Plasterer Apprentice	Plasterers	Paperhangers	Painter Apprentice '	Maintenance	Painters, Construction, and	Floor Layers, Except Tile Setters	OCCUPATION	
· ·	·	1,400	2,400	300	18,400	600	, 800	600	2,100	400	1 39, 900		-	72, 100		2, 000	4,500	4,600	600	. 22, 900	(Z [*]	900	500	100	29, 400	•	1,600	1970	ANNUAL A
,		1,400	2,600	300	19, 900	. 800	600	600	2, 400	500	& 42,800 ·	, P		79,600	•		5,400	6,100	800	. 27,000	(N) :	1,000	600	1.00	31,100		1,900	,1976 <u>2</u> /	ANNUAL AVERAGE EMPLO
· ·		.1,500	2,		. 20,900	900	700 •	600	2,500	500	45,000		.,	84, 200		2,400	5,900	7,200	900	29,800	. (N)	1,000	700	100	32,300	,	2, 1.00	1,980,2/	OYMENT
		. 100	400^	0	2,500	300	100	. 0 .	400,	1.00	5,100		•	12,100		400	1,400	2,600	300	6; 900	r ii '	100、	200	0	2,900	•	500	NET	1970-1980
CDIC:		7. 1	16.7	0.0	13.6	50.0	·· 16. 7	0,0	19.0	25.0	12.8	,	•	16.8		20.0	, 31.1 7.2	56.5	. 50.0	30.1	I h	. 11.1	- 40.0	0.0	9. 9 ·		31.3	PER CENT	970-1980 CHANGE

TABLE B (Continued)

' EMPLOYMENT $^{1/}$ IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

•				Railroad, Car Shop Repairmen	Radio, Television Répairmen	Office Machine Repairmen	Loom Fixer's			Heavy Fourinment Mechanics. In-	. Farm Implement	Data Processing Machine Repairmen.	Automobile Mechanics Apprentice	, Automobile Mechanics	Automobile Body Repairmen '	Automobile Accessories Installers	Aircraft ,	eration	Air Conditioning, Heating, Refrig-	Mechanics, Repairmen, Installers	-	Tool and Diemakers Apprentice	Tool and Diemakers	Sheet Metal Worker Apprentice	Sheet Metal Workers, Tinsmiths	Rollers and Finishers, Metal	D	Molders Apprentice		OCCUPATION		
				2,500	•	3,600	100	8,400	. 31,800		2,500	2,100	100	51,100	8, 200		12,500	8,500		156,600	<i>;</i> •	(N)	3,000	100	8,600	, 500	900	0		1970	ANNUAL A	
•				2,600	10,400	4,400	200	10,200	37,200		2,900	3,500	100	55,700	•		15,600	•		181,000		(N)	3, 200	200	8,900	500	900	. 0	4	. 19762/	AVER AGE EMPLO	
				2,000	10,800	•	200	11,300	40,800		3,100	•	200	58, 700	ζ	400	17,700	14, 700	1	196,600	,	(N)	3,300	300	9,100	600	1,000	. 0		19802/	LOYMENT	,
		•		,	1,200		. 200 ;	2,900	9,000	_ 1	600	2,300	100	, , 600	1 000	500	5,200	6,200		40,000		1	300	200	500	100	100	: 0.		NET	1970-1980	
	ERIC	o o o o o o o o o o o o o o o o o o o	,	i	12.5	•	33.3		28.3		24.0	٠,		•		. 0. 0		(2.4. S) 0.	25. 5		-	10.0	200.0	5.8	•	11.1	0.0		PERCENT	0 CHANGE	

TABLE B (Continued)

EMPLOYMENT 1/1 IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

•					. •		
	Other Craftsmen, Kindred Workers Bakers Cabinet Makers	Locomotive Engineers ", Locomotive Firemen Power Station Operators Telephone Installers, Repairmen Telephone Linemen, Splicers	Transportation, Public Utilities Crafts- men . Electric Power Linemen, Cablemen		Printing Trade Craftsmen Bookbinders Compositors and Typesetters Electrotypers, Stereotypers	Mechanics, Except Automobile, Apprentice Other Mechanics and Repairmen	OCCUPATION
•	70,000 5,200 4,000	1,900 500 800 14,200.	25, 900 5, 900	400 1,200 5,700 100 200	16,900 1,200 7,700 400	300 14,900	ANNUAL AV
,	76, 100 5, 400 .4, 300	2,000 500 800 2,600	28, 300 6, 600	400 1,500 6,200 100 200	17,700 1,300 7,600	400 16,600	AVERACE EMPI
	79,300 5,500 4,500	2,100° 400 800 16,900 2,600	29,800 7,000	500 1,600 6,600 100 200	18,200 1,300 7,500 400	500 17, 700	1980 ² /
•	9,300 300 500	200 -100 0 2,700 0.	3, 900 1, 100	, 400 900 0	1,300 100 -200	, 200 2,800	1970-1980 NET
EDIC	13.3 5.8 12.5	-20.0 0.0 19.0	15.1 18.6	25.0 33.3 15.8 7 0.0	7.7 8.3 -2.6	66.7_ 18.8	PERCENT
Full Text Provided by ERIC		•			•		• •

1

TABLE B (Continued)

EMPLOYMENT 1 /IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

· · · · · · · · · · · · · · · · · · ·	Carpet Installers Cranemen, Dermickmen, Hoistmen Decorators, Window Dressers Dental Laboratory Technicians Furniture and Wood Finishers Furniture and Wood Finishers Furriers Glaziers Inspectors, Log and Lumber Inspectors, Other Jewelers and Watchmakers Millers, Grain; Flour, Feed Motion Picture Projectionists Opticians, Lens Grinder, Polisher Piano and Organ Tuners and Repairmen Shipfitters Shoe Repairmen Sign Painters and Letterers Stationary Engineers Stationary Engineers Craftsmen, Kindred Workers, n.e.c. Craft Apprentice, n.e.c.	OCCUPATION
0	3, 100 6, 000 4, 100 1, 200 900 (N) 1, 500 2, 000 2, 000 1, 100 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 3, 100 3, 600 3, 600	ANNUAL AVERAGE
	3,700 6,800 1,400 1,400 1,900 700 8,500 2,100 400 1,300 2,000 1,700 1,700 1,700 1,700 1,700 1,700 1,700 3,500 4,700 3,900	VER AGE EMPLOY
	4, 100 7, 400 5, 000 1, 400 1, 000 (N) 2, 100 9, 200 2, 100 1, 300 2, 200 1, 300 2, 200 1, 800 1, 800 1, 900 1, 900 1	_ ⊠ [
	1,000 1,400 900 200 100 100 1,700 1,700 1,700 1,700 1,00 200 700 100 100 100 100 100 100 1	1970-1980
ERIC.	32.3 32.3 23.3 22.0 16.7 11.1 40.0 16.7 22.7 5.0 13.3 18.2 46.7 -12.5 50.0 20.0	CHANC

TABLE B (Continued)

EMPLOYMENT 1/1 IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

		Other Textile Operatives	Weavers	, Twisters	Knitters, Loopers, and Toppers	,	Semiskilled Textile Operatives Carding, Lapping, Combing Oper-		Welders and Flame Cutters	Solderers	Punch Stamping Press Operatives	atives	Other Precision Machine Oper-	Metal Platers	Lathe, Milling Machine Operatives	Heaters, Metal	Grinding Machine Operatives	Pourers	/ \ Furnacemen, Smeltermen,	Drill Press Operatives	Semiskilled Metalworking		Operatives. Except Transportation	Operatives			OCCUPATION 1		•
		1,400	400	800	200	200	3,000		39, 100	500	2,900	. 2,000		1,400	6,200	100	4,100	2,300		2,300	60, 900	,	463.500	630,100	•	1970	ANNUAL AVERAGE	·	
	·	1,400	400	. 800	200	200	3,000		45,400	400	3,100	2,300		ì,600·	6,800	100	4,600	2,600	řζ	2,500	69, 400	Jan	508.200	693, 900		19762/	VERAGE EMPL		
		1,400	400	800	, 200	100	2,900		49,900	400	3,300	2,700		1,700 ·	7,200	. 100	5,000	2,800	•	2,700	75,800	٠,	539, 100	737,800		19802/			
, 	•	0	0	0 ،	0,	100	-100		10,800	-100	400	700		300	1,000	0	900	500		400	14,900	,	75 600	107, 700		NET	1970-1980		
C	•	0.0	0.0	0.0-	· 0.0 ¢	-50.0 `	-3.3	•	27.6	-20.0	13.8	35.0	•	21.4	7.16.1	0.0 G	22.0	21.7	•	17.4	24.5		16, 3	17.1		PERCENT	1970-1980 CHANGE	•	•

TABLE B (Continued)

EMPLOYMENT 1 IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

			Dryers	Dry Wall Installers, Lathes	Driflers, Earth		iaker, Seams	Operativ	Clothing Ironers and Presser's	=	Þ	Bottling Canning Operatives	Blasters and Powdermen	Assemblers	Asbestos, Insulation Workers	tation	Other Operatives, Except Trans-	Hactory, Harm	۵	j -	Packer, Wrapper, Except Meat,	Meat Wrappers, Retail Trade		Graders and Sorters, Manufactur-	cturing	, Examiners	Semiskilled Packing and Inspecting		OCCUPATION		1
•	,		200	3,000	5,300	7,500	•	7,300	12,600	1,100		2,600	300	37,000	2,700	347,900		2, (00	3 700	,23 , 200		2,500	1,500	`, ,	. 21,800		. 51,700		1970	ANNUAL A	
			300	3,900	4,800	8, 900	•	. 8,700	13,100	1,200		2,900	300	40,400	3,000	377,800	,	. 2,000	2 0 0 0	25,600		2,900	1,800	,	24,900	-	58,000		19762/	AVERAGE EMP	
-	•	•	. , 300 ,	4, 600	4, 500	9,900	,	9,600	13,500	1,300		3,000	300	42,600	3; 200	397,900		, 000	» 000	27, 300	1	3,300	1,900		, 27,000	v	62;500		· j980 <u>2</u> /	LOYMENT	
			100	1,600	-800	2,400	•	2,300	900	200	•	400		, 5,600	. 500	50,000			300	4,100		800	400		5,200	· \	10,800	•	NET :	. 1970-1980	
	ERIC	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	50.0		-15.1	32.0		31.5	7.1	18.2	•	15.4	0.0	15.1	18,5	14.4	· •	77	·,•	. 17.7	1	32.0	26.7	•	23.9		20.9		PERCENT	0 CHANGE .	

TABLE B (Continued)

EMPLOYMENT 1/1 IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

			,		,		•				_									`•						1	Ţ
	•		Operatives, n.e.c.	Misc. Machine Operatives	·Winding Operatives, n.e.c.		Shoemaking Machine Operatives	Sawrens and Stitchers	Sailors and Deckhands	Riveters, and Fasteners	' Photographic Process Workers	Painters, Manufacturing Articles	mobile	Oilers, Greasers, Except Auto-	Mixing Operatives '	Mine Operatives, n.e.c.	Milleners	Meat Cutters, Bütchers		Meat Cutters, Butchers, Except	n.e.c.	Laundry, Dry Cleaning Operatives,	ndants	e Workers Cas Sta	Filer Polisher Sander Buffer	OCCUPATION	
	* L:-	,	_ ' '56, 400	57,500	1,100	- 3,300	400	4,300 5,300	2,700	700	3,600	8, 900	2,400		3,/600	22,200	100	4,3/00	9,900		10,800		37, 400	r, 700	2 ànn '	,1970/	ANNUAL A
	•		60,300	62,800	1,400	3,200	300	5,100	2,600	800	4,700	9,500	2,7400,		4,000	17,700	100	4,300	9,800		12,100		40.900	r, /00	2 000	19762/	ANNUAL AVERAGE EMPLOYMENT
•	•		62, 900	66,300	1,700	3,100	300	5,600	. 2,500	800	. 5 , 400	9, 900	2,300		. 4,300	14,800	100	4, 400	9,700		<13 , 100		43,200	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2 000	19802/	LOYMENT
•		٠.	6,500	8,800	600.	1 -200	16,000	1,300	-200	100	1,800	1,000	-100		700.	-7,400		100	-200		2,300		5_800	c		NET	. 1970-198
9			11.5	15.3	54.5	• •	-25 O	30.2	-7.4	14.3	50.0	11.2	-4.2		19.4	•	0.0	2.3	-2.0		21.3	• (] 5 5			PER CENT	1970-1980 CHANGE
ERĬC	•													1	8										İ	! > ^	ı - 1

TABLE B (Continued)

· EMPLOYMENT $^{1/}$ IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

			Cooks, Except Private	Busboys		Food Service Workers		Janitors and Sextons	Charwor	bermaid,	Cleaning Service Workers		Service Workers		Truck Drivers	Taxicab Drivers, Chauffeurs	Railroad Switchmen	Railroad Brakemen	Parking Attendants	ging	Motormen, Mine, Factory, Log-	Fork Lift, Tow Motor Operatives	Delivery and Routemen · ·	Rail	Conductors, Motormen, Urban	Bus Drivers	Boatmen and Canalmen	Transport Equipment Operatives		OCCOFATION		
•		· · · · · · · · · · · · · · · · · · ·	53,800	5,700	4,300	159, 100		58, 300	33,300	13,100	104,700	•	576,700		82,200	5,700	3,500	2,100	1,800 .	300	•	10,200	52,700	(Z)	•	7,700.	400	166,600	•	1970	ANNUAL AVERAGE	
· ·	*	•	• •	5,500	4,400	164, 100	<i>)</i>	73,400	38, 900	17,100	129, 400	-	665, 300		88,600	6,000	3,600	2,100	1,900	300	•	, 12,400	61,500	(Z)		8,900	400	185,700	•	. 19762/	VERAGE EMPI	25
)a.	57,000	5,500	4,500	167,600		83,600	42,600	19,700	145,900		724,000		93,600	6,200	3, 700	2,200	2,100	, · 300	•	13,500	67,000	· (Z)		9,700	400	198, 700		19802/	EMPLOYMENT	
· ·		•	3,200	-200	ž200	8,500		25, 300	9,300	6,600	41,200	-	147,300	G	11,400	500	200	100	300			3,300	14,300	-		2,000	0	32, 100		NET	1970-1980	
F	ERIC ultrar Provided by ERIC		5.9	-3.5	4.7	5.3	-	43.4	27. 9	50.4	39.4		25.5		13.9	8.8.7	5:7	. 4.8	16.7	0.0	ų,	32.4	27.1		•	26.0	. 0.0	19. 3		PERCENT	0 CHANGE	

TABLE B (Continued)

EMPLOYMENT 1 /IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

OCCUPATION	ANNUAL AVERAGE		EMPLOYMENT	1970-1980	CHANGE	
					•	
Dishwashers	11,600	12,300	12,900	1,300	11.2	
Food Counter, Fountain Workers	15,400	14,200	•	2, Q00	-13.0 .	
Waiters	51,600	53,500	54,700	3,100	60	*****
Food Workers, n.e.c., Except	.	_			•	····
Private	16,700	18, 400	Î9,600	2,900	17.4	
Health Service Workers	, 79,000 a	102,400	117,500	38.500	48.7	
Dental Assistants	5,300	, 6,800	7,900	2,600	49.1	
Health Aides, Except Nursing	5,800	8,400	10,200	4,400	75.9	
Health Trainees	1,400	. 800	400	-1,000	. ₇ 71.4.3€	
Lay Midwives) (N)	.(X)			1	
Nurses Aides, Orderlies	39,700	48,700	V 54,400	- 14,700	•	
Practical Nurses	26,800	37,700	44,600	17,800	66.4	
Personal Service Workers	87,500	, 110 , 900	125,300	37,800	43.2	
, Airline Stewardesses	, 2,000	. 3,300	. 4, 100 .	2,100	105.0	
Attendant, Recreation, Amusement	2,800	3,300	3,800	1,000	35.7	
Attendant, Personal Service, n. c. c.	2,100	2,200	2,400	300	14.3	
Baggage Forters and Bellhops	1,200	1,000	900	-300	-25.0	
Barbers	10,300	12,100	13,100	2,800	27.2	
Boarding, Lodging Housekeepers	. 400	200	. 100	-300	-75.0 -	•
Bootblacks	1 400	300	300	-100	-25.0	
Child Care Workers, Except Private.	28,600	36, 100	40,400 (11,800	41.3	
Elevator Operators	1,20 <u>0</u> .	900	700	-500	-41.7	
Hairdressers, Cosmetologists	30,700	41,500	48, 000	17,300	56.4	
			. ·		_	•
•			•	•		

TABLE B (Continued)

EMPLOYMENT 1/1 I TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

<i>p</i> o	Animal Caretakers, Except Farm Carpenters, Helpers	Laborers, Except Farm	Maids, Servants, Private	eepers,	Child Care Workers Cooks Private	Private Household Workers	Sheriffs and Bailiffs	Policemen and Detectives	Marshals and Constables	Cinards and Watchmen	١٠ -	Protective Service Workers	C	Service Aid	Ushers, Recreation, Amusement	School Monitors.	Dersonal Service Annienticus	United Francisco Principle	OCCUPATION	1	
,	4,600 12,800	249,800	59,900	7,400	3,200	99,400	2,300	16,100	. 600	17, 100	9.500	1 400	47 000	600	500	300	(N)	6 400	1970	ANNUAL K	
•	4, 400 10, 500	265, 500	62, 900	7,900	29,500 3,500		2,600	18,500	600	19,200	11,400	1:500	. 53 800	900	600	400	•	8 100	19762/	VERAGE EMPL	
•	4, 200 9, 000	270,100	t5,100	×, 400	3,800	108,900	2,900.	•		20,700	12,700	- ;	58 800	1,100	70 0	500	(Z)	9 200	19802/	PLOYMENT ,	
	-400 -3,800	. 26,300	, 5, 200	1,000 -100	600	9,500	600	4,100	, 100	3,600	3, 200	200	11.800	500	200	200		2.800	NET	1970-1980	
C" .	-8.7 -29.7	10.5	. 8. 7	13.5 -10.0	18.8		26.1	25.58	16.71	21.1	33.7	14.3	25.1	83. 3	40.0	66.7		43.8	PERCENT	1970-1980 CHANGE	

TABLE B (Continued)

EMPLOYMENT¹/IN TEXAS BY OCCUPATION 1970, AND PROJECTIONS TO 1976 AND 1980

		3		•	77
	ANNUAL AVERAGE	VERAGE EMPI	LOYMENT.	1970-1980	CHANGE
OCCUPATION	1970	~ 1976 2 /	1.9802/	NET	PERCENT
		•	,		
Construction Laborers, Except	•				.•
Carpenter Helper	69,800	64,900	67,600	6,800	11.2
Fishermen and Oystermen	2,200	1,700	1,300	- 900	-40.9
Freight, Material Handlers	37,200	40,900	43,500	6, 300	<u>.</u>
Garbage Collectors	5,000	, 6,600	7,700	2,700	54.0
Gardeners, Groundskeepers, Except	.	•			-
Farm	35,900	37,100	37, 900	2,000	. 5.6
Longshoremen and Stevedores	5,400 .	, 5,600	5;800	400	7, 4
Lumbermen, Raftsmen, Woodchoppers	2,400	3,300	3,800	1,400	58.3 🕎
Stock Handlers	40,200	46,000	50,000	9,800	24.4 8
Teamsters *	· 400	, 3,90 ∘	300	-100	-25.0
Vehicle Washer, Equipment Cleaners	9,200	10,100	10,700	1,500	16.3
Warehousemen, n.e.c.	8,700	•	8,800	100	1. 1
Other Laborers	25, 000	25,300		· 500 ^t	2.0.
Farmers and Farm Workers	213,300	160, 400	127, 200	-86,100	-40.4
Farmers and Farm Managers	104, 100	79,500	64,500		-38,0
Farmers (Owners and Tenants)	99,800	74, 900	59, 300	-40,500	-40.6
Farm Managers	. 4; 300	4,600	5,200	900	20. 9
Farm Laborers, Farm Foremen	109,200	1 80, 900	. 62,700	-46,500	-42.6
Foremen	3,400	2,900	2,800	, -600	-17.6
Laborers,		•	47,500	-38,600	-44.8-
Laborers,	. 19,300	. 15,600	12,000	(-7, 300,	-37.8
rarm Laborers, Self-employed	400	- 400	400	8 0	* 0.0
(C - 1					

(See footnotes on following page.)

- 1/ Total employment less secondary jobs of multi-jobholders.
- 2/ Projections developed by applying National Growth Rates to 1970 Census of Texas Occupational Employment.
- N/ Does not meet acceptable level of accuracy.

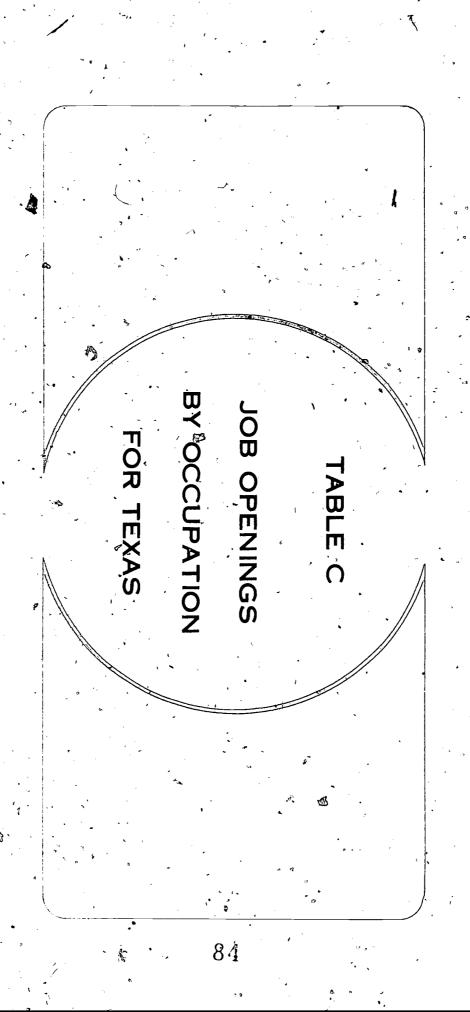


TABLE C

Marine Scientists	Biological Scientists Chemists Geologists	Life and Physical Scientists Agricultural Scientists Atmospheric, Space Scientists	Engineers, Petroleum Engineers, Sales Engineers, Others		Engineers, Chemical Engineers, Civil Engineers, Electrical Engineers, Industrial	Professional, Technical, and Kindred Engineers, Technical Engineers, Aero-astronautic	Total All Occupations	OCCUPATION
10	150	330 0 10	30 280 *	190 & 20 -10	30 250 540 300	17, 380 1, 850 170	96,020	ANNUAL ¹ / EXPANSION NEEDS 1976
	80	260 10 10 40	50 160	120 10 * 10	210 · 160	22,570 1,020 80	158, 780	ANNUAL ² / REPLACEMENT NEEDS 1976
	230 220	590 10 20 60	100 440	. •	460 700 420 8	39, 950 2,870	254,800	TOTAL DEMAND ³ (FOR WORKERS



TABLE C (Continued)

Physicists and Astronomers Life, Physical Scientists, n.e.c. Mathematical Specialists Actuaries Mathematicians Engineers, Science Technicians Agricultural, Biological Technicians, Except Health Chemical Technicians Draftsmen Electrical, Electronic Technician Industrial Engineering Technician Mathematical Technician Mechanical Engineering Technician Surveyors Engineering, Science Technician, in.e.c. Medical Workers, Except Technicians Chiropractors Dentists	OCCUPATION
20 10 60 10 20 20 30 2,170 50 640 510 20 0 0 0 130 770 2,280 160	ANNUAL ^{1/} EXPANSION NEEDS 1976
10 40 10 10 20 860 40 90 260 130 10 0 0 0 70 3,990 50 140	ANNUAL ² / REPLACEMENT NEEDS 1976
30 100 100 200 30 50 30 140 900 640 30 0 0 0 1,030 6,270 100 300	TOTAL DEMAND ³ / FOR WORKERS 1976/

TABLE C (Continued)

Technicians, Except Health Airplane, Pilots Air Traffic Controllers	Dietitians Optometrists Pharmacists Pharmacists Physicians, Medical and Osteopaths Podiatrists Registered Nurses Therapists Veterinarians Other Medical and Health Health Technologists and Technicians Clinical Lab Technologists and Technicians Dental Hygienists Health Record Technologists and Technicians Radiologic Technologists and Technicians Other Health Technologists and Technicians	OCCUPATION
530 190	60 40 140 350 1,120 1,120 910 910 480 50 50	ANNUAL ¹ / EXPANSION NEEDS 1976
270 ,50 30	140 260 430 2,660 2,660 30 30 790 50 50 170	ANNUAL ² / REPLACEMENT NEEDS 1976
- 800 240 60	200 70 400 780 10 3,780 520 1100 0 1,700 860 1100 130 	TOTAL DEMAND ^{3/} FOR WORKERS 1976

TABLE C (Continued)

Embalmers Flight Engineers Radio Operators Tool Programers, Numerical Other Technicians, Except Health Therapy Assistants Computer Specialists Computer Programers Computer Systems Analysts Other Gomputer Specialists Social Scientists Economists Political Scientists Psychologists Sociologists Other Social Scientists Adult Education Teachers Adult Education Teachers Agriculture Teachers Art, Drama, Music Teachers	OCCUPATION
10 20 60 0 200 200 200 240 340 240 250 140 0 0 20 10 2,620 40 40	ANNUAL ¹ / EXPANSION NEEDS 1976
10 80 0 70 70 260 180 70 100 60 0 0 100 0 0 100 0 0 0 0 0 0 0 0	ÁNNUAL ² / REPLACEMENT NEEDS 1976
140 140 270 40 520 520 50 350 200 110 110 110 110 110	TOTAL DEMAND ³ / FOR WORKERS 1976 ~

TABLE'C (Continued)

						•				·					÷			•		,	•			
College and University Teachers, n. e. c.	Social Science Teachers, n.e.c. Misc. College and University Teachers	Sociology Teachers	Secondary, School Teachers	Psychology Teachers	Preschool and Kindergarten Teachers	Physics Teachers	Mathematics Teachers	Law Teachers	Home Economics Teachers	History Teachers	Health Specialties Teachers	Foreign Language Teachers	English Teachers	Engineering Teachers	Elementary School Teachers	Education · Teachers	Economics Teachers	'Coaches, Physical Ed. Teachers	Chemistry Teachers	Business, Commerce Teachers	Biglogy Teachers .	Atmospheric, Earth, Marine Teachers		OCCUPATION
260	30	20	340	30	~220 <u>,</u>	-10	30 /	10	. 0	•••		30	2,0	. 0, .	+, 110	0	10 .	10,	. 0	→ 30 →	40	.20	***	ANNUAL ¹ EXPANSION NEEDS 1976
270	30	10 .	2,460	. 20	490	10	50	10	10	20	. 50	40 .	. 70	10 /	4,910	10	10	20 .	. 20	30 -	30	,10		ANNUAL ² / REPLACEMENT NEEDS 1976
530	40 60		2,800	50	710	0	. 80	. 20	. 10	. 20	140	1	, 90 31		6,020	. 10	20	30	20	60	70	30		TOTAL DEMAND ³ / FOR WORKERS



TABLE C (Continued)

Other Professional, Technical and Kindred Workers Accountants	Writers, Artists and Entertainers, n. e. c.	Photographers Public Relations Men, Writers Radio and TV Announcers	Dancers Designers Editors and Reporters Musicians and Composers	Writers, Artists, Entertainers Actors Athletes and Kindred Workers Authors	Theology Teachers Trade, Industrial and Technical Teachers Teachers, n.e.c., Except College and University Teachers	OCCUPATION
4, 300 890	, 25,0	140 180	200 180 180	·1,460 10 90	10 . 10 210	ANNUAL ¹ / - EXPANSION - NEEDS 1976
4,440 1,340	. 100	130	20 140 270 160	1, 240 10 80 30	0 10, 520,	ANNUAL ² / REPLACEMENT NEEDS 1976
8,740 2,230	350	240 310 50	20 340 450 340	2,700 20 170 40	10 20 <u>/</u> 730	TOTAL DEMAND3/ FOR WORKERS - 1976

TABLE C (Continued)

Buyers, Sales, Loan Managers Bank, Firancial Managers Creditmen Buyers, Shippers, Farm Products Buyers, Wholesale, Retail	Recreation Workers Social Workers Vocational Education Counselors Managers, Officials, Proprietors	Lawyers Librarians Operations, Systems Research Personnel Labor Relations Research Workers, n.e.c.	Architects. "Archivists and Curators "Clergymen Religious, Except Clergymen Farm Management Advisors Home Management Advisors	OGCUPATION
3,170 1,030 130 30 340	. 120. 230 390 . 16,010	450° 130 190 1,130	220 10 260 40 -10 . •	ANNUAL ¹ / EXPANSION NEEDS 1976
2,020 500 130 60 430	100 370 260 13,490	50 440 400 400 590 120	80 10 500 100 20 20	ANNUAL ² / REPLACEMENT NEEDS 1976
5,190 1,530 260 90 770	220 600 650 	50 890 530 230 1,720	300 20 760 140 -10 .	TOTAL DEMAND ³ / FOR WORKERS 1976



TABLE C (Continued)

Purchasing Agents, Buyers, n.e.c. Sales Manager, Retail Trade Sales Manager, Except Retail Trade Administrators, Public Inspectors Assessors Controllers, and Treas- urers, Local Public Admin. Construction Inspector, Public Health Administrators Inspectors, Except Construction and Public Officials and Public Administrators Postmasters and Mail Supervisors School Administrators, College School Administrators, College School Administrators, Elementary and Secondary Other Managers, Officials, and Proprietors Funeral Directors Managers, Superintendents, Bldg. Office Managers, n.e.c. Officials of Lodges, Unions	OCCUPATION
290 720 630 920 920 310 310 170 20 -20 -20 90 11, 920 110 930 100 560 930	ANNUAL ¹ / EXPANSION NEEDS 1976
250 370 280 160 160 30 220 220 440 440 70 70 550 460 60	ANNUAL ² /. REPLACEMENT NEEDS 1976
1,090 2,410 2,410 190 50 530 21,900 1,110 1,390 1,390 1,40	TOTAL DEMAND. 3/. FOR WORKERS

TABLE C (Continued)

· ·		•		•		· ' *		-			
	Stenographers, Typists, and Secretaries Secretaries, Legal	Clerical Workers	Sales Clerks, Retail Trade Salesmen, Retail Trade Salesmen, Service and Construction	Sales Representatives, Manufacturing Sales Representatives, Wholesale Trade	Newsboy's Real Estate Agents, Brokers Stock and Bond Salesmen	Demonstrators Hucksters and Peddlers Insurance Agents, Brokers, etc.	Advertising Agents, Salesmen Auctioneers	Sales Workers	Railroad Conductors Restaurant, Cafe, and Bar Managers Other Managers and Administrators	OCCÚPATION	
	.7,660 .280	22; 070	3, 300 820 450	1,480	-80 980	400 400 950	. 120	8,990	30 200 10,010	ANNUAL ¹ / EXPANSION NEEDS 1976	e a
	15, 79,0	40,500	7, 770 1, 050 640	500	990	150 530 920	120	14, 120	.60 840 7,890	ANNUAL ² / REPLACEMENT NEEDS 1976	•
ERIC ALL LOST PROPERTY UND.	23,450 · 630	62,570	11,070 1,870 1,090	2,710	1,970	1,870 1,870	240 5 20	23, 110	90 1,040 17,900	FOR WORKERS	

TABLE C'(Continued)

Secretaries, Medical Secretaries, Other Stenographers Typists Office Machine Operators Bookkeeping, Billing Operators Calculating Machine Operators Computer, Peripheral Equipment Operators Duplicating Machine Operators Keypunch Operators Tabulating Machine Operators Other Office Machine Operators Other Office Machine Operators Cashiers Cashiers Clerical Assistants, Social Welfare Workers Clerical Supervisors, n. e. c. Collectors, Bill and Account	QCCUPATION
200 6, 190 -200 1, 190 520 90 10 480 20 -190 -10 120 13, 890 460 340 1, 890 1, 670 190 190 210	ANNUAL ¹ / EXPANSION NEEDS 1976
200 11, 340 320 3, 580 1, 610 240 100 190 40 920 110 23, 100 640 360 5, 390 3, 560 770 200	ANNUAL ² / REPLACEMENT NEEDS 1976
400° 17,530 120 4,770 2,130 330 110 670 670 60 730 0 230 1,100 7,280 5,230 10 360 410	TOTAL DEMAND ³ / FOR WORKERŞ •. 1976

TABLE C (Continued)

	Counter Clerks, Except Food	OCCUPATION
	. 068	ANNUAL ¹ / EXPANSION NEEDS 1976
80 200 200 210 1,340 190 340 260 270 70 100 100 50 1,360 480 700 720 540 540		ANNUAL ² / REPLACEMENT NEEDS 1976
190 1, 280 420 1, 540 450 240 310 140 140 140 140 140 140 1, 380 1, 380 1, 290 0 2, 010 0 1, 380 1, 290 0 2, 020 0 1, 380 1, 380 1, 380 1, 380 1, 380 1, 380	1,740	TOTAL DEMAND ³ /, FOR WORKERS \\ \\ 1976

TABLE C (Continued)

Painter Apprentice Paperhangers 1	Painters, Construction, and Main-	Floor Layers, Except Tile Setters	Excavating, Grading, Machine Oper-	Electricians Apprentice	Cement and Concrete Finishers	prentices Bulldozer Operators	Brickmasons and Stonemasons Ap-	Brickmasons and Stonemasons	Carpenters Apprentices	Carpenters .	A Construction Craftsmen	Craftsmen, Foremen, Kindred Workers	Misc. Clerical Workers, n. e. c.	Weighers	Telephone Operators	OCCUPATION
 20°	, 290	50	л К О	7 /30. 40	350	210		200	10	1, 250	4,880	12,050	3,480,	20 -		'ANNUAL ¹ EXPANSION NEEDS 1976
20	670	30	380	460	150	140	•	150	0.	1,650	4, 450	12,850	1,730	40	1,560	REPLACEMENT NEEDS 1976
40	960 .	80	040	1,190	500	350		350	, 10 .	2, 900	9, 330 CJ		5, 210 %	60	1,560	TOTAL DEMAND ³ / FOR WORKERS, 1976

TABLE C (Continued)

JOB OPENINGS BY OCCUPATION FOR TEXAS (1976)

	Metalworking Craftsmen Except Mechanical Blacksmiths Boilermakers Heat Treaters, Annealers, etc. Forgemen and Hammermen Job and Die Setters, Metal Machinists Machinist Apprentice Millwrights Molders, Metal Molders Apprentice Pattern and Model Makers Rollers and Finishers, Metal	Plasterers Plasterer Apprentice Plumbers and Pipefitters Plumbers and Pipefitters Apprentices Roofers and Slaters Structural Metal Craftsmen Tilesetters Foremen, n.e.c.	OCCUPATION
	510 10 40 0 10 30 250 0 40 10 10 10	10 0 690 -30 260 140 40	ANNUAL ¹ / EXPANSION NEEDS 1976
	750 30 60 10 10 10 10 20 20 20 20	30 0 600, 0 80 60 30	ANNUAL ² / REPLACEMENT NEEDS 1976
ERIC.	1, 260 40 100 10 10 590 590 30 30 30	40 0 1, 290 30 340 200 70 70 3, 080	TOTAL DEMAND ³ / FOR WORKERS 1976

TABLE C (Continued)

	Sheet Metal Workers, Tinsmiths Sheet Metal Worker Apprentice Tool and Diemakers Tool and Diemakers Apprentice Mechanics, Repairmen, Installers Air Conditioning, Heating, Refrigeration Aircrafts Automobile Accessories Installers Automobile Mechanics Automobile Mechanics Automobile Mechanics Apprentice Data Processing Machine Repairmen Farm Implement Heavy Equipment Mechanics, Including Diesel Household Appliance Mechanics Loom Fixers Office Machine Repairmen Radio, Television Repairmen Railroad, Car Shop Repairmen Railroad, Car Shop Repairmen Other Mechanics, Except Auto, Apprentice Other Mechanics and Repairmen	OCCUPATION &
	50 20 30 4,000 620 520 760 10 230 60 120 120 120 120 120 120 120 12	ANNUAL ¹ / EXPANSION MEEDS 1976
	2,860 160 2,860 160 260 10 10 10 10 10 10 10 10 20 10 10 10 10 10 10 10 10 10 1	ANNUAL ² / REPLACEMENT NEEDS 1976
EDIC:	180 20 100 0 6,860 6,860 780 780 10 10 10 250 1,740 10 250 1460 20 300 90 550	TOTAL DEMAND ³ / FOR WORKERS 1976

TABLE C (Continued)

	Other Craftsmen, Kindred Workers Bakers Cabinet Makers Carpet Installers Cranemen, Derrickmen, Hoistmen	Transportation, Public Utilities Crafts- men Electric Power Linemen, Cablemen Locomotive Engineers Locomotive Firemen Power Station Operators Telephone Installers, Repairmen Telephone Linemen, Splicers	Printing Trade Craftsmen Bookbinders Compositors and Typesetters Electrotypers, Stereotypers Engravers, Except Photoengravers Photoengravers, Lithographers Pressmen and Plate Printers Pressmen and Apprentices Printing Apprentice, Except Press	OCCUPATION
	930 30 50 100 140	390 110 20 -10 0 270	130 10 -20 0 10 40 90	ANNUAL ^{1/} EXPANSION NEEDS - 1976
	2,170 170 120 30	330 60 100 10 20 120	420 60 200 10 10 10 0 0	ANNUALZ/ REPLACEMENT NEEDS 1976
ERIC	3,100 200 170 130 240	720 170 120 0 20 390 20	550 70 0 10 10 0 99	TOTAL DEMAND ³ / FOR WORKERS 1976



TABLE C (Continued)

	Tailor Upholsterers Craftsmen, Kindred Workers, n.e.c, ————————————————————————————————————	men Shipfitters Shoe Repairmen. Sign Painters and Letterers Stationary Engineers Stone Cutters, Stone Carvers	Decorators, Window Dressers Dental Laboratory Technicians Furniture and Wood/Finishers Furriers Glaziers Inspectors, Log and Lumber Inspectors, Other Jewelers and Watchmakers Millers, Grain, Flour, Feed Motion Picture Projectionists Opticians, Lens Grinder, Polisher Piano and Organ Tuners and Repair-	OCCUPATION
	70 110 10	10 10 30 40 -200	90 20 10 60 10 170 170 10 70	ANNUAL ^{1/} EXPANSION NEEDS 1976
	180 130 60 0	20 10 80 60 440	230 30 30 0 30 30 200 80 10 50	ANNUAL ² / REPLACEMENT NEEDS 1976
ERÎC	250 240 110 10	30 20 110 100 240 20	320 40 90 370 20 100	TOTAL DEMAND ^{3/} FOR WORKERS 1976

TABLE C (Continued)

Weavers Other Textile Operatives	Other Precision Machine Operatives Punch Stamping Press Operatives Solderers Welders and Flame Cutters Semiskilled Textile Operatives Carding, Lapping, Combing Operatives Knitters, Loopers, and Toppers Spinners, Twisters, Winders	Semiskilled Metalworking Drill Press Operatives, Furnacemen, Smeltermen, Pourers Grinding Machine Operatives Heaters, Metal Lathe, Milling Machine Operatives Metal Platers	Operatives, Except Transportation	OCCUPATION
0 0	70 40 -10 1,080	1,490 40 50 90 0 100	10,770 7,560	ANNUAL ¹ / EXPANSION NEEDS 1976
. 40	40 50 670 110 0	1,020 40 30 70 0 80 20	15,780 12,770	ANNUAL ² / REPLACEMENT NEEDS 1976
40 C	• •	2,510 80 160 101	26,550 20,330 /	TOTAL DEMAND ³ / FOR WORKERS 1976



TABLE C (Continued)

	Checkers, Examiners, etc., Manufacturing Checkers, Examiners, etc., Manufacturing Graders and Sorters, Manufacturing Meat Wrappers, Retail Trade Packer, Wrapper, Except Meat, Produce Produce Grader, Packer, Except Factory, Farm Other Operatives, Except Transportation Asbestos, Insulation Workers Assemblers Blasters and Powdermen Bottling, Canning Operatives Chainmen, Rodmen, Axmen, Surveying Clothing Ironers and Pressers Cutting Operatives, n.e.c. Dressmaker, Seamstress, Except Factory Drillers, Earth Dry Wall Installers, Lathes	OCCUPATION
£	1, 080 520 40 80 80 5,000 5,000 560 0 40 20 90 230 240 -80 1,60	ANNUAL ¹ / EXPANSION NEEDS 1976
·	1,800 750 60 110 110 110 9,840 40 1,320 10 600 170 620 80 30	ANNUAL ² / REPLACEMENT NEEDS 1976
	2,880 1,270 100 190 1,180 1,180 14,840 90 1,880 10 100 30 690 400 860 0	TOTAL DEMAND ^{3/} FOR WORKERS 1976

TABLE-Ç (Continued)

	Dryers Filer, Polisher, Sander, Buffer Garage Workers, Gas Station Attendants Laundry, Dry Cleaning Operatives, n.e.c. Meat Cutters, Butchers, Except Manufacturing Meat Cutters, Butchers Milleners Milleners Mine Operatives, n.e.c. Mixing Operatives Oilers, Greasers, Except Automobiles Painters, Manufacturing Articles Photographic Process Workers Sailors and Fasteners Sailors and Deckhands Sawyers Shoemaking Machine, Operatives Stationary Firemen Winding Operatives, n.e.c. Misc. Machine Operatives Operatives, n.e.c.	OCCUPATION	
	10 580 230 -20 -20 -740 70 -10 100 100 100 100 130 1,600 -10 -20 1,600 -20 60 880 650	ANNUAL ¹ / EXPANSION NEEDS 1976	
	10 70 680 550 260 80 0 270 50 110 110 150 20 30 100 2,460 30 1,090	ANNUAL ² / REPLACEMENT NEEDS 1976	rt <u>u</u>
ERIC	1, 260 780 780 240 90 120 120 30 210 330 30 10 230 4, 060 1, 970 1, 970 1, 440	TOTAL DEMAND ^{3/} FOR WORKERS 1976 †	

TABLE C (Continued)

	Chambermaid, Maid, Except Private Chambers and Charwomen Janitors and Sextons Food Service Workers Bartenders Busboys Cooks, Except Private	Truckdrivers Service Workers	Bus Drivers Conductors, Motormen, Urban Rail Delivery and Routemen Fork Lift, Tow Motor Operatives Motormen, Mine, Factory, Logging Parking Attendants Railroad Brakemen Railroad Switchmen Taxicab Drivers, Chauffeurs	OCCUPATION Transport Equipment Operatives Boatmen and Canalmen
	660 930 2,530 2,530 20 -20 320	1,140 14,730	200 0 1,430 330 30 10 20 50	ANNUAL ¹ / EXPANSION NEEDS 1976
· /	7, 350 7, 350 1, 290 2, 590	1,440 29,570	320 0 770 100 60 40 210	ANNUAL ² / REPLACEMENT NEEDS 1976 3,010
	1,510 25,140 5,630 8,200 190 100 2,910	2,580		TOTAL DEMAND ³ / FOR WORKERS 1976 6,220
~"			104	

TABLE C (Continued)

	Food Counter, Fountain Workers Waiters Waiters Food Workers, n.e.c., Except Private Health Service Workers Dental Assistants Health Aides, Except Nursing Health Trainees Lay Midwives Nurses Aides, Orderlies Practical Nurses Personal Service Workers Airline Stewardesses Attendant, Recreation, Amusement Attendant, Personal Service, n.e.c. Baggage Porters and Bellhops Barbers Bootblacks Child Care Workers, Except Private Elevator Operators Hairdressers, Cosmetologists	Dishwashers	OCCUPATION
	3, 850 290 3, 850 260 440 -100 0 1, 470 1, 780 100 30 -30 280 -30 -30 -30 -30 -30 -30 -30 -30 -30 -3	130	ANNUAL ¹ / EXPANSION NEEDS 1976
	460 2,850 770 4,720 410 410 80 0 2,350 1,480 5,160 310 110 110 580 10 580 1,020 2,420	. 390	ANNUAL ² / REPLACEMENT NEEDS 1976
RIC Troubes by time	3, 160 1, 060 8, 570 660 8, 570 850 -20 3, 820 3, 820 3, 820 1140 -10 860 2, 200 4, 150	. 520	TOTAL DEMAND ³ / FOR WORKERS 1976



TABLE C (Continued)

•	Laborers, Except Farm Animal Caretakers, Except Farm Carpenters, Helpers	Private Household Workers Child Care Workers Cooks, Private Housekeepers, Private Laundresses, Private Maids, Servants, Private	Protective Service Workers Crossing Guard, Bridgetenders Firemen, Fire Protection Guards and Watchmen Marshals and Constables Policemen and Detectives Sheriffs and Bailiffs	Housekeepers, Except Private Personal Service Apprentices School Monitors Ushers, Recreation, Amusement Welfare Service Aides	OCCUPATION
	2 ,630 4 -40 -380	950 280 60 100 -10 520	1,180 20 320 360 10 410	280 0 20 20 50	ANNUAL ¹ / EXPANSION NEEDS 1976
	4, 100 110 80	5,670 1,020 210 520 80 3,840	1,470 120 150 810 40 250	. 420 0 20 10	ANNUAL ² / REPLACEMENT NEEDS: 1976
•	6,730 70 -300	6, 620 1, 300 270 620 4, 360	2,650 140 470 1,170 50 160	700 0 40 30 90	TOTAL DEMAND ³ / FOR WORKERS 1976

ERIC Full Text Provided by ERIC

TABLE C (Continued)

Farm Laborers, Farm Foremen 'Farm Foremen Farm Laborers, Wage Workers 'Farm Laborers, Unpaid Family Farm Laborers, Self-employed	Construction Laborers, Except Carpenter Helper Fishermen and Oystermen Freight, Material Handlers Garbage Collectors Gardeners, Groundskeepers, Except Farm Longshoremen and Stevedores Lumbermen, Raftsmen, Woodchoppers Stock Handlers Tearnsters Vehicle Washer, Equipment Cleaners Warehousemen, n.e.c. Other Laborers Farmers and Farm Workers Farmers and Farm Managers Farmers (Owners and Tenants) Farm Managers	OCCUPATION
-4,650 -60 -3,860 -730	680 -90 630 270 200 40 140 980 -10 150 150 160 -8,610 -3,960 -4,050	ANNUAL ¹ / EXPANSION NEEDS 1976
2,030 100 1,810 110	860° 30 470 1,070 1,070 1,070 710 100 140 100 250 5,800 3,610 160	ANNUAL ² t / REPLACEMENT NEEDS 1976
-2,620 40 -2,050 -620 10	1,540 -60 1,100 370 1,270 1,690 1,690 107 -2,810 -190 -440 250	TÖTAL DEMAND ^{3/} FOR WORKERS 1976

(See footnotes on following page.)

- 1/ Annual average estimate developed from 1970-1980 expansion totals.
- 2/ Based on estimated annual death and retirement rates for selected occupations, by sex, for employed workers in the United States.
- 3/ Total needs from job expansion and death and retirement.

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