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ime is money, they say.

But money,

rather than time,
is how we usually keep score.

We use money to value our work and the things we buy. When we say we have trouble keeping up with the Joneses, we're talking about money, not time. That's why whenever we get close to the Joneses, they refinance.

While money has become a more nearly constant measure of value in recent years, it remains imperfect. Inflation makes money an elastic standard over time, like a rubber yard-stick. That's why this year's annual report essay looks behind money to time as a measure of our economic progress. Our progress is best gauged by the shrinking work time it

takes to pay for the necessities and luxuries of life. Work time enables us to compare our productivity and standard of living over the long haul.

What such comparisons show is that our free enterprise system drives down real prices so goods and services once within the reach of only the most wealthy become affordable by the rest of us. For example, once upon a time only Peter, Paul and Mary could afford to leave on a jet plane. Now I can, too, if I buy my ticket two weeks in advance and stay over a Saturday night. The essay cites other results of our great productivity machine.

Our essay, "Time Well Spent: The Declining *Real* Cost of Living in America," continues the Dallas Fed's recent series of optimistic looks at our dynamic free enterprise system, the

world's greatest engine of growth and prosperity and its greatest welfare program. In 1997 the Dallas Fed's exploration of market-based solutions to public policy problems included conferences on education reform, the potential for markets to allocate water in Texas efficiently, the economic impact of immigration, market-driven health care, privatization of local government services, and microlending as a means of helping low-income individuals own their own business. Our economic research also dealt with a wide range of public policy issues, beyond the traditional focus on monetary theory and policy.

Our optimism about the American economy was well placed last year. Real GDP grew almost 4 percent, employment was up 3.2 million, unemployment fell to 4.7 percent and the Consumer Price Index increased only 1.7 percent. The best performance in years in both unemployment and inflation left many less optimistic souls scratching their heads. We, however, expect more of the same in 1998.

Most good things about the national economy in 1997 were even better in the Eleventh Federal Reserve District. Employment growth, particularly in Texas, continues to outpace the national average. District banks are sharing in the prosperity; they are sound, liquid and well capitalized. Texas bankers finally succeeded in getting antiquated restrictions on home-equity lending partially removed, which should unlock capital for the state's homeowners. That plus the refinancing boom triggered by low mortgage rates should give the Texas economy an extra kick in 1998. Keep it between the ditches, boys and girls. No more "goin' and blowin" this time around.

Robert D. McTeer, Jr.

President and Chief Executive Officer

Time Well Spent

The Declining *Real* Cost of Living in America

By W. Michael Cox and Richard Alm

Queen Elizabeth owned silk stockings.

The capitalist achievement does not typically consist in providing more silk stockings for queens but in bringing them within the reach of factory girls in return for steadily decreasing amounts of effort.

Joseph Schumpeter

Capitalism, Socialism, and Democracy

As America exits the 20th century, we'd be hard-pressed to find a five and dime store. Penny candy now goes for a nickel. Five cents no longer buys a good cigar. Dime novels can't be found. Even a 3¢ stamp costs 32¢. Over the century, prices have gone up. The buying power of a dollar is down. We know this from statistical measures of inflation. We know it also from Grandpa's stories about paying 15¢ for a ticket to Gone With the Wind or 19¢ for a gallon of gasoline. Even a casual observer of the U.S. economy can see that the prices of milk, bread, houses, clothes, cars, and many other goods and services rise from year to year.

The cost of living is indeed going up—in money terms. What really matters, though, isn't what something costs in money; it's what it costs in time. Making money takes time, so when we shop, we're really spending time. The real cost of living isn't measured in dollars and cents but in the hours and minutes we must work to live. American essayist Henry David Thoreau (1817–62) noted

this in his famous book, *Walden*: "The cost of a thing is the amount of...life which is required to be exchanged for it, immediately or in the long run."

The shortcoming of money prices is that they mean little apart from money wages. A pair of stockings cost just 25¢ a century ago. This sounds wonderful until we learn that a worker of the era earned only 14.8¢ an hour. So paying for the stockings took 1 hour 41 minutes of work. Today a better pair requires only about 18 minutes of work. Put another way, stockings cost an 1897 worker today's equivalent of \$22, whereas now a worker pays only about \$4. If modern Americans had to work as hard as their forebears did for everyday products, they'd be in a continual state of sticker shock-\$67 scissors, \$913 baby carriages, \$2,222 bicycles, \$1,202 telephones. (See Exhibit 1: The High Cost of Living, 1897 Style.)1

The best way to measure the cost of goods and services is in terms of a standard that doesn't change—time at work, or real prices.² There's a regular pattern to real prices in our dynamic economy.



When a product first comes onto the market, it's typically very expensive, affordable for only society's wealthiest. Soon thereafter, though, its price falls quickly and the product spreads throughout society. Once the good or service becomes commonplace, its price usually continues to fall, but at a slower rate. This tendency shows up in such everyday purchases as housing, food, clothing, gasoline, electricity and longdistance telephone service. It also applies to manufactured goods-automobiles, home appliances and the modern age's myriad electronic marvels. And year after year it takes less of our work time to buy entertainment and servicesmovies, haircuts, airline tickets, dry cleaning and the like. In a very real sense, the cost of living in America keeps getting cheaper. By harnessing the natural power of income distribution, free markets have routinely brought the great mass of Americans products once beyond even the reach of kings.3

EXHIBIT 1: The High Cost of Living, 1897 Style

	1897 Sears	1997 work-
Item	catalog price	equivalent price*
1 lb. box of baking soda	\$.06	\$ 5.34
100 lb. 16d nails	1.70	151.39
Garden hoe	.28	24.94
26" carpenter's saw	.50	44.53
13" nail hammer	.42	37.40
9" steel scissors	.75	66.79
Aluminum bread pan	.37	32.95
Ironing board	.60	53.43
Telephone	13.50	1,202.23
Men's cowboy boots	3.50	311.69
Pair men's socks	.13	11.58
Pair ladies' hose	.25	22.26
200 yd. spool of cotton thread	.02	1.78
Webster's dictionary	.70	62.34
One dozen pencils	.14	12.47
250 manila envelopes	.35	31.17
1 carat diamond ring	74.00	6,590.00
Upright piano	125.00	11,131.76
Bicycle	24.95	2,221.90
Baby carriage	10.25	912.80

* Prices are in terms of how much a manufacturing employee would earn today working the same number of hours required to afford the product in 1897. For example, a 1-pound box of baking soda sold for 6¢ in 1897. At an average hourly wage of 14.8¢ the typical manufacturing worker would have had to labor 24 minutes to earn enough to buy the box of soda. Today, 24 minutes earns that worker \$5.34.

AFFORDING THE BASICS

Americans come in all shapes and sizes. We differ in height and weight, gender, race and age. We vary in talents, skills, education, experience, determination and luck. Quite naturally, our paychecks differ, too. Some of us scrape by at minimum wage, while movie stars, corporate chieftains and athletes sometimes make millions of dollars a year.

In appraising the nation's cost of living, it's what the average American can afford that matters. Calculations of the work time needed to buy goods and services use the average hourly wage for production and nonsupervisory workers in manufacturing.⁴ A century ago this figure was less than 15¢ an hour. By 1997 it had hit a record \$13.18, a liviable wage but nothing worthy of *Lifestyles of the Rich and Famous*. What's most important about this wage is that it represents what's earned by the great bulk of American society. (See Exhibit 2: Average Hourly Wages, 1897–1997.)

In calculating our cost of living, a good place to start is with the basicsfood, shelter and clothing. In terms of time on the job, the cost of a half-gallon of milk fell from 39 minutes in 1919 to 16 minutes in 1950, 10 minutes in 1975 and 7 minutes in 1997. A pound of ground beef steadily declined from 30 minutes in 1919 to 23 minutes in 1950, 11 minutes in 1975 and 6 minutes in 1997. Paying for a dozen oranges required 1 hour 8 minutes of work in 1919. Now it takes less than 10 minutes, half what it did in 1950. The money price of a 3-pound fryer chicken rose from \$1.23 in 1919 to \$3.15 in 1997, but its cost in work time fell from 2 hours 37 minutes to just 14 minutes. A sample of a dozen food staples—a market basket broad enough to provide three squares a day-shows that what required 9.5 hours to buy in 1919 and 3.5 hours in 1950 now takes only 1.6 hours. (See Exhibit 3: Our Daily Bread.)

Average Weekly Wages by Industry, 1897

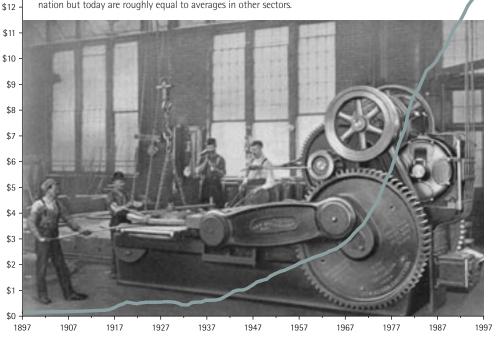
\$14

\$13

Automobile	\$ 7.37
Blast furnace	10.62
Brick	7.44
Cotton goods	6.72
Foundry	8.41
Leather	7.96
Lumber	7.68
Marble	8.97
Paper	8.92
Petroleum	10.74
Rope	8.40
Shipbuilding	9.90
Slaughtering	9.24
Soap	9.60
Tobacco	7.74
All Industry	8.88

EXHIBIT 2: Average Hourly Wages, 1897–1997

It's hard to fathom, but turn-of-the-century factory workers earned barely 15¢ an hour for their efforts. Manufacturing wages, shown here, were then among the best in the nation but today are roughly equal to averages in other sectors.





FOOD ITEMS, IN MINUTES OF WORK

	1919	1997
Tomatoes, 3 lb.	101	18
Eggs, 1 dozen	80	5
Sugar, 5 lb.	72	10
Bacon, 1 lb.	70	12
Oranges, 1 dozen	68	9
Coffee, 1 lb.	55	17
Milk, half-gallon	39	7
Ground beef, 1 lb.	30	6
Lettuce, 1 lb.	17	3
Beans, 1 lb.	16	3
Bread, 1 lb.	13	4
Onions, 1 lb.	9	2

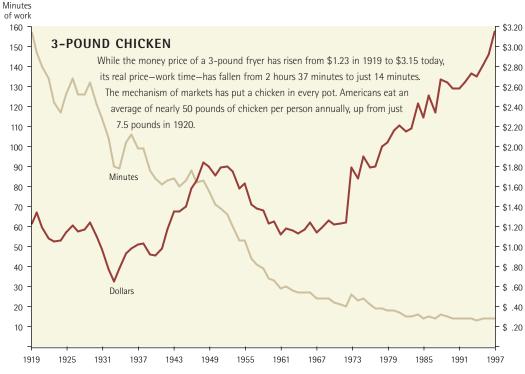


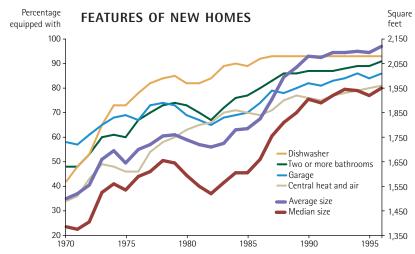
EXHIBIT 4: Gimme Shelter

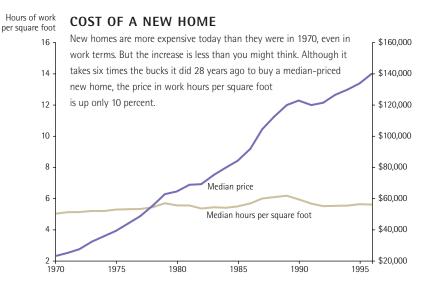


\$4,700 \$14,500 \$140,000 7.8 hr. per sq. ft. 5.6 hr. per sq. ft. 5.6 hr. per sq. ft.

The price of a new home has gone up over the century, but the homes—and our paychecks—have gotten bigger, too. Adjusting for the additional square footage and higher wages, the price per square foot of new housing is lower today than in 1920 and 1956. Plus, today's homes come equipped with many more amenities—from central heat and air-conditioning to a full range of kitchen appliances.

AMENITIES Percentage of new houses equipped with	1956	1996
Garage	50	86
Three or more bedrooms	78	87
Two or more bathrooms	28	91
One or more fireplaces	35	62
Two stories or more	6	47
Insulation in the walls	33	93
Storm windows	8	68
Central heat and air	6	81
Range	1	94
Dishwasher	11	93
Refrigerator	5	18
Microwave	0	85
Garbage disposal	34	90
Garage door opener	<1	78
Median price	\$14,500	\$140,000
Median square footage	1,150	1,950
Median price per sq. ft.	\$ 12.61	\$ 71.79
Average hourly wage	\$ 1.95	\$ 12.78
Hours of work per sq. ft.	6.5	5.6



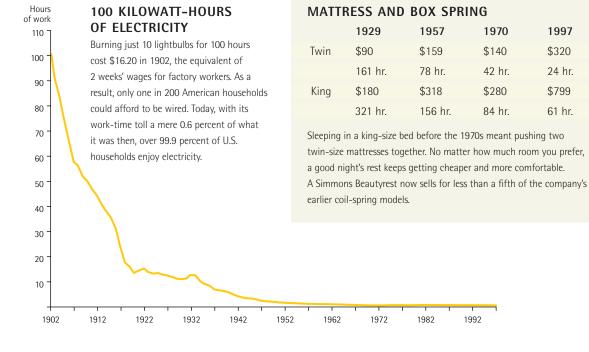


Americans' homes sell for a lot more than they once did. In 1920, the median price of a new house was \$4,700. Forty years ago, as America moved to the suburbs, a typical family paid \$14,500 for a new house. Today, the median price is up to \$140,000. Housing inflation has outstripped the rise in wages, so the comfort of a roof overhead must be getting more expensive, right? Not really. Today's homes are more expensive, but they're also a lot bigger, so for comparison purposes their price must be expressed in cost per square foot.5 By that measure, the work-time cost of new homes fell from 7.8 hours in 1920 to 6.5 hours in 1956 and 5 hours in 1970, but then rose to 5.6 hours in 1996. (See Exhibit 4: Gimme Shelter.)

It's true that from 1970 to 1996 the work-time cost of a square foot of housing rose just over half an hour. It's a mistake, however, to jump to the conclusion that the trend toward greater value in housing ended a generation ago. These days we're getting more home for our money. Today's new homes are more likely to come with central heat and airconditioning, major kitchen appliances, a garage, an extra bathroom or two, ample insulation, storm windows and many other extras. The basic price of today's new homes includes these amenities, so it's impossible to calculate exactly what's happened to the real cost of housing. But it's a safe bet that the added features more than offset the extra 10 percent of work time. And families have continued to get smaller over the past quarter century. Taking into account the shrinkage in average household size, an individual's housing cost, expressed in work time, is actually 6 percent cheaper today than in 1970. Two-thirds of Americans

now own their own home-the highest percentage in history and up from 45 percent in 1920.

Much of what's in our homes is getting cheaper, too. Over just the past 27 years, consumers have benefited from work-time declines of 60 percent for dishwashers, 56 percent for vacuum cleaners, 40 percent for refrigerators and 39 percent for lawn mowers. (See Exhibit 5: Domestic Servants.) The cost of a twin mattress and box spring fell from 161 hours in 1929 to 78 hours in 1957, 42 hours in 1970 and 24 hours in 1997. A room air-conditioner now costs less than 4 hours of work for each 1,000 BTUs, down from 7.5 hours in 1970 and more than 40 hours when first introduced in 1952. Since entering the market, portable radio prices have declined from more than 13 hours to less than 1 hour of work.



AIR-CONDITIONER 1952 1970 1997 \$350 \$150 \$299 213 hr. 45 hr. 23 hr.

1997

\$320

24 hr.

\$799

61 hr

Since sweltering Southerners first stuck air-conditioners in their open windows, the units' work-time cost has been slashed by 90 percent.



RANGE			
1910	1950	1970	1997
\$67	\$420	\$380	\$288
345 hr.	292 hr.	113 hr.	22 hr.

Hughes Electric's three-burner stove listed for \$40 in 1910 (a separate oven cost \$27), the equivalent of about 5 weeks' wages for middle-income Americans. General Electric's midline models today sell for around \$288, less than one-tenth the work-time cost of comparable models offered in the 1950s.

DISHWASHER

1913	1954	1970	1997
\$100	\$250	\$230	\$370
463 hr.	140 hr.	69 hr.	28 hr.

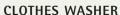
Walker Brothers electrified its manual dishwashing appliance in 1913, creating the first "automatic" dishwasher. Owning one would have been an expensive proposition for the common laborer, requiring more than 2 months' wages, not including the cost of replacing all the broken dishes. Today's \$370 units require about 4 days' wages, approximately 40 percent of that in the 1970s.



REFRIGERATOR

1916	1958	1970	1997
\$800	\$700	\$375	\$900
3,162 hr.	333 hr.	112 hr.	68 hr.

The Guardian electric refrigerator was first manufactured in an old Detroit organ factory in 1916. Units were insulated with seaweed and boasted 9 cubic feet of storage. At \$800 each, only the city's wealthy could afford one, and the company sold just 40. Today's 20-cubic-foot Frigidaire units come with ice makers, frost-free freezers and more. Yet they're available for just a fifth of the work-time cost of even 1950s models.



1911	1956	1970	1997
\$110	\$270	\$240	\$338
553 hr.	138 hr.	72 hr.	26 hr.

The Thor, made by Hurley Machine Co., was one of the first electric clothes washers. It was chain driven and a hazard to long skirts of the day. Today's models have more features, require less repair and are more energy efficient, yet sell for about a third the work-time cost of 1970 models.



CLOTHES DRYER

1940	1956	1970	1997
\$130	\$230	\$190	\$340
198 hr.	118 hr.	57 hr.	26 hr.

Introduced in 1940, General Electric's AD-3 clothes dryer used 220 volts of electricity, handled 7 pounds of wet clothes and cost about 5 weeks' factory wages. Fifty years later, GE's dryers are bigger, use a fraction of the energy and include moisture sensors and other features, but they cost just an eighth of the job time they once did.





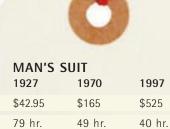
There are bargains in the closet as well. After aviator Charles Lindbergh became the toast of two continents by flying solo from New York to Paris in 1927, he toured the United States in a Hart Schaffner & Marx suit that cost \$42.95. It would have taken an Average Joe 79 hours to buy that outfit. Today the same company sells comparable suits for \$525, the equivalent of 40 hours of work. Over the past century, the work-time cost of a pair of Levi's jeans has fallen by nearly 7 hours, to 3 hours 24 minutes.⁶

With basics such as these costing less, more of our budgets can go toward other products. In 1901, the average family spent three-quarters of its income on food, shelter and clothing. Almost a century later, it's little more than a third.

DRY-CLEANING A DRESS

1946	1970	1997
\$1.25	\$1.70	\$6.50
70 min.	30 min.	30 min.

Although dry-cleaning a dress costs less than half what it did 50 years ago, its price in work time hasn't declined since 1970. Today's machines use a microprocessor to monitor temperature so clothes don't get overdried, and they're equipped with environmentally friendly condensers that recover cleaning solution.



Seventy years after Charles Lindbergh toured America in a \$42.95 suit provided by Hart Schaffner & Marx, the company's suits go for roughly \$525. Their work-time cost, though, is just half what it was back then.



THE COST OF LIVING HIGH

When people talk about the high cost of living, they're usually talking about the cost of living high. But moving beyond the basics, in the currency of work time almost everything else we buy is getting cheaper, too. Take transportation.

If any invention has made its mark on American culture, it's the automobile. We consider it our birthright to own a caroften two or three. Within a few years, the United States will likely become the first country to have more vehicles than people.⁷ In 1908 a typical factory worker had to toil more than 2 years to buy Ford's Model T, one of the nation's first affordable cars.8 A 1997 Ford Taurus costs today's worker just 8 months. Of course, few of us would pay even \$850 for a Model T today, at least not for everyday transportation. Today's cars are just so much better. Going back only one generation, we can see an enormous improvement in the quality of cars and trucks. Today's vehicles last longer. They require less maintenance, with some 1997 models traveling 100,000 miles before their first tune-up. They're more comfortable because of air-conditioning, power seats and adjustable steering columns. They often include such extras as power windows, sunroofs, tinted glass, cruise control and compact disc players. They're safer with the addition of air bags and antilock brakes, which have contributed to the decline in traffic fatalities from 7.6 per 100 million miles traveled in 1950 to 1.9 today. As with housing, part of the increase in auto prices stems from better quality. So although buyers are shelling out more money than they once did, cars have never been such good values. (See Exhibit 6: Kings of the Road.)

Drivers may grumble when they pull into a service station, but a gallon of gasoline required just 5.4 minutes of work in 1997, compared with 6.6 minutes in 1970, three years before the Arab oil embargo caused prices to surge. If we consider the 60 percent increase in average miles per gallon since 1970, the work time to drive a typical car 100 miles has been nearly halved over the past quarter century-from 49 minutes in 1970 to 28 minutes today. The price of an automobile tire has risen from \$13 in the mid-1930s to about \$75 today. However, today's steel-belted radials last more than 42,000 miles, a big increase from the 16,000 miles for the nylon tires of the 1950s or the 2,000 miles for the $3^{1}/_{2}$ inch, cotton-lined tires of the early 1920s. Based on work time per 1,000 miles, tires are now cheaper than ever.

THE SHARE FOR FOOD, CLOTHING AND SHELTER

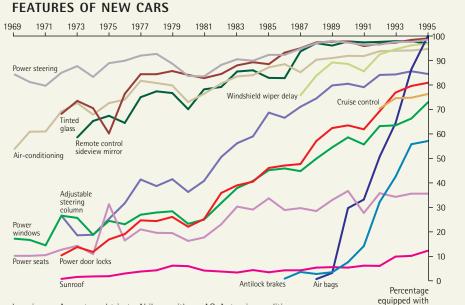
	1901	1995
Food	46.4%	14.0%
Clothing	14.7%	5.3%
Shelter	15.1%	18.4%
Total	76.2%	37.7%

Even working a shorter week than at the turn of the century, Americans today don't have to spend as much of their income on the basics. With the gains in what our work time buys, expenditures for food, clothing and shelter consume only 38 percent of a typical household's budget, not the 76 percent they once did.

EXHIBIT 6: Kings of the Road



In the currency of work time, today's Ford Taurus costs about 17 percent less than the celebrated 1955 Fairlane and more than 70 percent less than the first Model T, introduced in 1908. And that's without any adjustment for quality. Early cars rarely had an enclosed body, tires couldn't be removed from rims and buyers had to purchase a separate anti-kickback device to prevent broken arms. Today's models embody literally hundreds of standard features-from airconditioning and antilock brakes to computercontrolled carburetors and CD players-making driving safer, more economical and more fun.



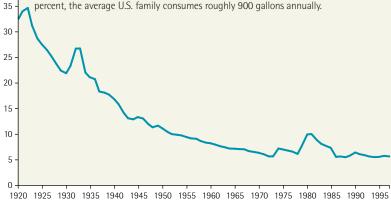
Imagine an August road trip to Abilene with no AC. Auto air-conditioners were introduced in the mid-1950s, but as late as 1969 only half of new cars had them. Dozens more standard features have been added over the past two decades.

Paint stores supplied early-model automobiles their first pints of gasoline in the late 1800s. A quarter century later, only about one in four American households owned a car, and gasoline went for 30¢ a gallon—over half an hour's work. Today a gallon of gas costs

A GALLON OF GASOLINE

Minutes of w

less than 6 minutes of work time. With household vehicle ownership exceeding 92 percent, the average U.S. family consumes roughly 900 gallons annually.



AUTO RENTAL 1970 1997 \$99 \$247 30 hr. 19 hr. Renting a Ford sedan from Hertz for a week in 1970 cost roughly 60 percent more work time than renting a Ford Taurus does today.

Much of today's consumption centers on leisure. What helps make the good times good is the declining real cost of life's pleasures—little and big. The price of a movie declined from 28 work minutes in 1970 to 19 minutes in 1997. Compared with a generation ago, each 1,000 miles of air travel now requires $6^{1}/_{2}$ hours less work. A seven-day Caribbean cruise slipped from 51 hours in 1972 to 45 hours in 1997.

It's even getting cheaper to look our best: work time for dry-cleaning a dress is half what it was in 1946, and a woman's haircut is down 27 percent since 1950. Soft contact lenses have plummeted from more than 95 hours' wages in 1971 to less than 4 today—and the latest versions can be worn longer.



WOMAN'S HAIF	RCUT	
1920	1950	1997
\$.25	\$1.50	\$10
27 min.	63 min.	46 min.

There's no accounting for taste and style, but there is for expense. Today's woman's haircut costs less in work time than in 1950 but more than in 1920.

SOFT CONTACTS

1971 1997 \$340 \$50 95 hr. 4 hr.

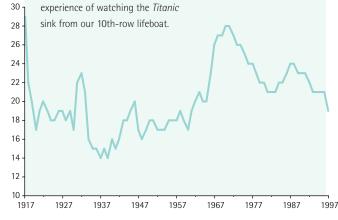
Before soft contact lenses became available in 1971, half of contact wearers eventually abandoned the struggle and went back to eyeglasses. Even at \$340 a pair—the equivalent of more than 2 weeks' work—the first soft contacts were a good buy. Today's safer lenses can be worn longer and in terms of work time cost about 4 percent of the 1971 price.



MOVIE TICKET						
1926	1954	1970	1997			
\$.17	\$.49	\$1.55	\$4.25			
19 min.	17 min.	28 min.	19 min.			

Moviegoers paid 17¢ in 1926 to watch silent film star Rudolph Valentino in his last movie, *Son of Sheik*. The work-time price of a movie ticket today is slightly higher than in the 1920s but is cheaper than at any time since 1961. Larger screens, stadium seating, Dolby sound, special effects and big budgets bring us the experience of watching the *Titanic*.

Minutes of work





1956

1966

1976

1986

1926

1936

1946



COAST-TO-COAST FLIGHT

1930	1951	1997
\$200	\$110	\$209
366 hr.	71 hr.	16 hr.

American Airways' Ford Tri-Motor had a top speed of 120 mph, carried 12 passengers and bumped along 2,000 feet up for the first coast-to-coast plane trip in 1930. The trip included 10 stops, one of them overnight. Passengers carried all their luggage on board, plugged their ears with cotton wool and were warned not to throw anything out the plane's windows. Cabins were not heated, air-conditioned or pressurized. The 36-hour trip cost \$200-nearly 2 months' work for the typical factory hand—so passenger rosters read like the . 1996 invitation list to a royal ball. The tab for today's 5-hour trip runs about 2 days' wages, just 4 percent of 1930's work price and less than a fourth of 1951's toll. Americans of virtually all income classes travel, racking up a per capita average of more than 1,000 air miles annually.

7-DAY CARIBBEAN CRUISE

1972	1997
\$195	\$599
51 hr.	45 hr.

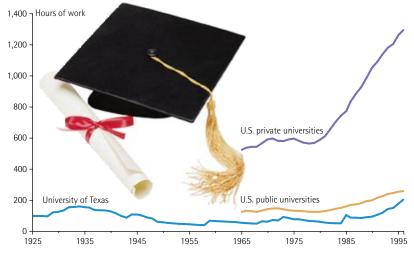
When it entered the market in 1972, Carnival Cruise Lines helped pioneer the contemporary cruise—lower priced, shorter, more affordable excursions for the average American rather than an elite, elderly few. Designed to be unstuffy and unintimidating, modern cruises offer passengers fine dining, pools, spas, cocktail parties, casinos, orchestras, first-run movies and more. The number of Americans taking cruises is up from just half a million in 1970 to 4.5 million today.

We're a nation on the go, grabbing fast food and snacks. Americans may be eating more of these foods because they're getting cheaper. Buying a large pepperoni pizza costs an eighth less work time than in 1958-and today we can get it delivered to our door. A 6.5-ounce bottle of Coca-Cola has declined from 5.5 minutes in 1920 to 3.5 minutes in 1970 to 1.5 minutes today. In 1940 Californians paid 30¢-nearly half an hour's wagesfor the McDonald brothers' first burgera one-eighth pounder. Today's onefifth-pound Big Mac costs \$1.89, the equivalent of just 8.6 minutes' work. The price of a Hershey's chocolate bar has risen from 10¢ to 45¢ over the past 23 years; still, its price in work time is a mere 2 minutes, a tenth of what it cost at the turn of the century. A five-stick pack of Wrigley's chewing gum has jumped

from a nickel to a quarter since 1964, but its work cost has ebbed by 24 seconds. (See Exhibit 7: Food on the Go.)

Americans do, of course, have to work longer to buy some goods and services. Paying for higher education and medical care requires more hours of work than it used to. Tuition and fees at public colleges, for example, have doubled in terms of work time since the mid-1970s. Inflation has been even steeper at America's private institutions. But such higher prices are rarely without justification. In many cases the quality of what we're getting for our money has improved.

Few of us would deny that medical care is better than it used to be. After all, the past quarter century has brought a wealth of new diagnostic tools and drugs to treat ailments that range from cancer to depression. But, given the general public's disenchantment with American education, the notion that what colleges provide students today may actually be worth more might raise eyebrows. An accurate measure of the cost of education would require extensive information about its quality, much of it subjective. One objective measure, however, is the value the economy puts on a sheepskin. Workers with a bachelor's degree earn an average of \$16,504 a year more than high school graduates today, up from \$10,488 more in 1979.



UNIVERSITY EDUCATION

The cost of higher education is up—about double the work hours required in 1979. Today's college graduates, however, make an average of \$16,504 a year more than high school graduates, up from \$10,488 back then. The extra \$6,016 earned annually, over a 40-year work life, amounts to almost \$250,000 more in lifetime income than in 1979—more than enough to cover the higher tuition and fees. Moreover, students may emerge from college better educated. (Income figures are in 1996 dollars.)

EXHIBIT 7: Food on the Go

BIG MAC

1940	1997
\$. 30	\$1.89
27 min.	9 min.

In the currency of work time, today's ¹/₅-pound Big Mac costs a third of the McDonald brothers' 1/8-pound burgers in 1940.



LARGE PEPPERONI PIZZA

1958	1970	1980	1997
\$1.99	\$3.99	\$7.99	\$10.99
57 min.	71 min.	66 min.	50 min.

Compared with the huge initial investment required to start, say, long-distance phone service, the outlay for setting up a pizza shop is relatively small. Even with mostly recurring costs-ingredients, labor, rent and so on—Pizza Hut has managed to cut the work-time tab for its large pepperoni pizza from 57 minutes in 1958 to just 50 today.



SNACKS*

	1900	1910	1920	1930	1940	1950	1964	1974	1984	1997
Soft drink	5¢	5¢	5¢	5¢	5¢	7¢	16¢	22¢	28¢	33¢
minutes	19.9	15.5	5.5	5.5	4.6	2.8	3.8	3.0	1.8	1.5
Candy bar	5¢	5¢	5¢	5¢	5¢	5¢	5¢	10¢	30¢	45¢
minutes	19.9	15.5	5.5	5.5	4.6	2.1	1.2	1.4	2.0	2.0
Gum	5¢	5¢	5¢	5¢	5¢	5¢	5¢	11¢	18¢	25¢
minutes	19.9	15.5	5.5	5.5	4.6	2.1	1.2	1.5	1.2	1.1
Chips	_	_	_	_	_	_	15¢	25¢	35¢	50¢
minutes	_	_	_	_	_	_	3.6	3.4	2.3	2.3

A Coke, a Hershey bar and a pack of Wrigley's gum were each just a nickel for decades. Today average prices range from 25¢ to 45¢, but the work-time cost is a mere tenth or less of its 1900 level.

*Units are a 6.5-ounce bottle, a 1.55-ounce bar, a 5-stick pack and a 1-ounce bag.

FALLING FASTER AT FIRST

In looking at the work-hour cost of living, it's clear that most of the good news comes as products permeate the marketplace. In minutes of work, orange prices fell 63 percent from 1919 to 1938. It took another 60 years to match that decline. The work time required to buy a pack of Wrigley's chewing gum fell an average of 7 percent a year in the first two decades of the 20th century but less than 2 percent a year after 1920. The real price of a gallon of gasoline halved in the 21 years from 1920 to 1941; it took another 45 years to equal that. Still, it's encouraging that the real cost of most of these products has continued to drift lower.

Americans are always buying goods and services that are in the early stages

of their product cycle. Often, money prices fall fast at first. A handheld calculator too bulky to fit easily into a pocket or purse sold for \$120 in 1972.10 A mere quarter century later, true pocket calculators sell for \$10-cheaper than a slide rule was in 1952. A 25-inch color television with remote control went for as little as \$299 in 1997, compared with \$620 in 1971 and more than \$1,000 for early color sets in the mid-1950s.11 Videocassette recorders entered the mainstream market at \$985 in 1978. Twenty years later, VCRs offering surer picture tracking, on-screen programming and other features cost less than \$200. Cellular phones sold for \$4,195 in 1984; they're available for \$120 or less today. Better



COLOR TELEVISION

1954	1971	1997
\$1,000	\$620	\$299
562 hr.	174 hr.	23 hr.

While early color televisions had only 9- to 12-inch screens and required frequent repairs, today's sets are bigger, rarely go on the blink and come with a host of convenience features—

from remote control to closed caption. Today's 25-inch RCA TVs are only about 15 percent the work cost they were in 1971.

***				-	
	8.4	ESC NOT	ž.	5000	
	1990	1997			

VCN				
1972	1978	1984	1990	1997
\$1,395	\$985	\$499	\$329	\$199
365 hr.	160 hr.	54 hr.	30 hr.	15 hr.

Video recorders that used cassettes and would both play and record crept into the market in 1972 at prices ranging from \$1,395 to \$1,850. Better models today sell for just 4 percent of the 1972 work-time price.



HOME MOVIE CAMERA

1960	1977	1997
\$129	\$351	\$549
57 hr.	62 hr.	42 hr.

Bell & Howell's 8mm movie camera offered no sound and required a projector, screen and processor to develop the film (not included in price shown). The next-generation home video cameras cost more but incorporated sound and eliminated film processing. Today's RCA camcorder allows users to pop videocassettes out of the cameras for play in home VCRs. Yet in work hours they're cheaper than even 1960s-vintage technology.

yet, the phones are often free for the price of monthly service, which itself has fallen to about half what it was a decade ago. These aren't isolated examples. Over the past generation, the sticker prices for microwave ovens, camcorders and many other items have fallen.

Combining falling prices with rising wages yields even more bounty for consumers. When prices are converted from dollars and cents into hours and minutes of work, many of the modern age's signature products become spectacular bargains. In terms of time on the job, the calculator's price plummeted from 31 hours in 1972 to 46 minutes today, less time than it takes for lunch. The color television that required over 3 months' work to buy in 1954 was down to 1 month by 1971; today the work-time cost is just 3 days. VCRs sell for 15 work hours, or almost 90 percent less than in 1978. Over the past 13 years, the work time required to buy a cell phone has declined 98 percent. It took an average worker more than 176 hours on the job to buy a microwave oven in 1967; now it's 15 hours. Dad had to work 57 hours in 1960 to buy a camera to take home movies-a Bell & Howell model that used Kodak film and required a separate projector. Today, 42 hours of work will buy a camcorder that preserves our memories on a handy cassette that slips into the family's VCR.



CALCULATING DEVICES			
1916	1952	1972	1996
\$125	\$15	\$120	\$10
494 hr.	9 hr.	31 hr.	46 min.

The adding machine and slide rule were a welcome advance over the abacus. None of these, however, could match the ease, accuracy, convenience and capability of Texas Instruments' TI-2500 pocket calculator, introduced in 1972. Today, TI's calculators are far more powerful and less expensive.

1947	1967	1975	1997
\$3,000	\$495	\$470	\$199
2,467 hr.	176 hr.	97 hr.	15 hr.

The price tag on Amana's first microwave was about \$3,000, the equivalent of \$32,515 in wages today for equal hours of work. Sales were confined to commercial enterprises and a few wealthy households. Beloved by restaurants, college students and busy parents, today's microwaves command less than 10 percent of the work time they did when \$495 consumer models first appeared in 1967.





CELLULAR PHONE

1984	1997
\$4,195	\$120
456 hr.	9 hr.

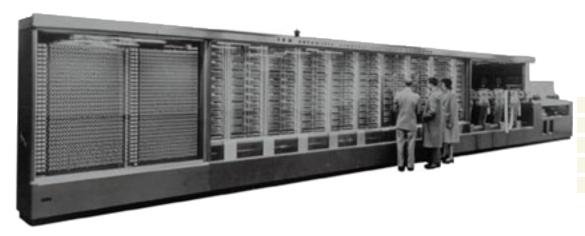
Motorola introduced the DynaTAC 8000X cellular phone in late 1984 with a suggested retail price range of \$3,995-\$4,395. Better equipped Motorola models today sell for \$120 or less, and monthly service fees are half what they were 13 years ago. The number of cellular subscribers has grown from only one-on the streets of downtown Chicago—to nearly 55 million as the work-time cost of a phone has fallen to under 2 percent of what it was in 1984.

Computing power provides perhaps the most vivid example of something getting cheaper as it becomes an everyday product. A circa 1970 IBM mainframe, capable of 12.5 million calculations a second, sold for almost \$4.7 million. Today, we can pay less than \$1,000 for a personal computer capable of operating 13 times faster. In average work time, the cost of today's computing is down to 27 minutes for each 1 million calculations per second—a price likely to continue falling.12 With the IBM mainframe of the 1970s, owning enough computing power to plow through that many calculations per second would have taken more than a lifetime of work.13

Whether it's calculators or computers,

Americans today get the best of all worlds -better products for less effort. Commonplace consumer goods aren't likely to post spectacular price declines down the road, but the future will bring a new generation of products that will repeat the pattern of falling prices. Later this year, manufacturers will begin offering high-definition television, a technology that promises to deliver crystal-clear images into American living rooms. When HDTV sets hit the market, they will cost as much as a used car-about \$5,000 to \$10,000. Within a few years, the televisions will doubtlessly sell for a quarter or even a tenth of that. The hours of work required to own one, of course, will fall even faster.





COMPUTER 1944

\$200,000

197,824 hr.

.000003 MIPS

\$65,941,300,000 per MIPS

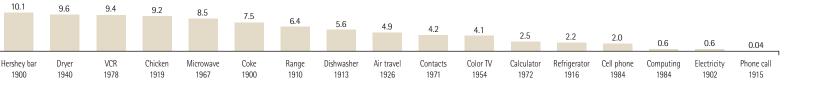
732,681 lifetimes per MIPS





1970	1984	1997
\$4,674,160	\$3,995	\$999
1,395,272 hr.	435 hr.	76 hr.
12.5 MIPS	8.3 MIPS	166 MIPS
\$373,933 per MIPS	\$479 per MIPS	\$6 per MIPS
1.24 lifetimes per MIPS	52 hr. per MIPS	27 min. per MIPS

IBM spent \$200,000 building the Mark I computer in 1944. A huge advance in technology, it could do 3 calculations per second. Today's personal computers ramp up to 400 million instructions per second (MIPS) and sell for only a tiny fraction of what they did only a decade ago. Comparisons with early mainframes boggle the mind.



THE ECONOMICS OF CHEAPER AND BETTER



The phenomenon of so many products becoming more and more affordable can't be simply dumb luck. To the contrary, we owe the prosperity of our times to the routine workings of our free enterprise system. In the labor market, the system spurs the increases in productivity that pull up wages. In the product market, it provides the incentive to innovate and the discipline to become more efficient. The benefits flow to American consumers in the form of better values—more for our money and more money for our time

Just about all new goods and services go through a cycle of falling prices and improving quality as companies ratchet up to large-scale production, as markets expand, as competition arrives in the marketplace and as goods and services move from luxuries to everyday conveniences. Virtually every new product requires an up-front investment, often sizable, to cover the cost of getting started. Whether innovation springs from startups or established companies, it requires money for research and development as well as the physical plant, machinery, equipment and labor needed to launch production. The cost of reaching just the first customer ranges from a few thousand dollars for a mom-andpop enterprise to billions of dollars for Fortune 500 companies.

New markets are initially small, so the fixed costs of introducing products are spread over relatively few consumers at first. Prices start out high. As markets increase in size, these fixed costs are spread over more and more sales. Larger production runs mean lower per-unit costs and economies of scale take hold. Success attracts competitors, kicking off a race to see which company can offer the best product at the lowest cost. Companies must slash prices to stay in business. As markets mature, it becomes more difficult to wring new efficiencies out of the production process, and producers aren't able to cut prices as much. The biggest declines in money prices and work-hour costs come in the early stages of a product's life cycle.

The United States had more than 360 automobile manufacturers in 1920, all sensing a fast-growing industry, all vying in a race that had no clear winners. Auto prices ranged from \$200 for a Briggs & Stratton to \$7,250 for a Pierce-Arrow. The companies that emerged from the fracas were those offering the highest quality at the lowest price. Hundreds dropped out of the market, but their loss didn't go to waste. Good ideas endured—the automatic transmission, the speedometer, four-wheel brakes—and were embodied in the products offered by industry survivors.

A relatively small number of consumers—typically the wealthy—are the first to acquire hot new products. In effect, they nurture infant industries and product lines by paying most of the fixed costs. For the rest of us, prices reflect only companies' added cost of producing what we want. The dichotomy helps explain why some sectors of the econ-



omy show steep price reductions while others go through the process more gradually. Big declines usually occur when fixed costs are high. It's true for computers. And electronics. And pharmaceuticals. And for many other products. When fixed costs aren't overwhelming, companies start out charging prices closer to marginal cost-a pattern that fits food and personal services.

Capitalism's critics often fret about the wealthy having too much, but uneven income distribution plays a role in developing markets. New products are usually very expensive-outside the reach of all but society's wealthiest. Henry Ford sold his first Model T for \$850 in 1908. At the equivalent of more than 2 years' wages for ordinary factory workers, only 2,500 cars were sold. By 1920 Ford had incorporated numerous improvements into his sedan-including an electric starter, demountable rims and an enclosed body-yet cut its work-hour price by nearly two-thirds. Even with its extensive list of standard features, today's Taurus sells for less work time than either the Model T sedan or the 1955 Fairlane. And Ford has soundly answered critics' claims that the car is just a "rich man's toy." More than 92 percent of U.S. households own an auto; 62 percent own two or more. (See Exhibit 8: The Bounty of Time Well Spent.)

One more example helps prove the point. A 3-minute phone call from New York to San Francisco, for example, cost \$20.70 when first available in 1915. Earning an average hourly wage of less than 23¢, the working stiff of that day would have had to labor more than 90 hours to afford a call. Yet long-distance telephone service did take root in the marketplace-and it grew. Somebody had



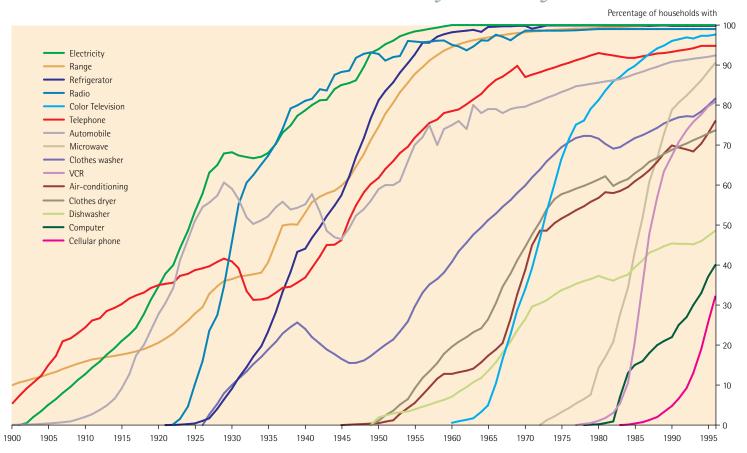
3-MINUTE COAST-TO-COAST PHONE CALL

Although the telephone was invented in 1876, coast-to-coast calls weren't possible until 40 years later. Lines were strung along poles adjacent to railroad tracks, and men dangled high above the ground every few miles to ensure the calls went through. AT&T's investment was enormous, and the first 3-minute calls cost \$20.70-2 weeks' work for the typical factory hand. In the currency of work time, today's long-distance toll is just 1/2,500 of what it was at the service's inception and an eighth what it was as recently as 1970. All told, Americans make nearly 95 billion long-distance calls annually.

to pay the high price, or the service would have been just another failed entrepreneurial gamble. In footing the initially high bill, the rich paid the fixed cost of bringing longdistance service to the masses in America. Today, of course, nearly all of us are "rich" enough to afford long-distance calls. A 3-minute coast-to-coast connection costs less than 50¢, or a scant 2 minutes of work.

Without society's wealthy, fewer new goods and services would find their way to the rest of us. Indeed, the wealthy's free spending spurs a democracy of consumption because it starts the process of lowering prices. As a result, today's average Americans have what only a few could once enjoy. The system harnesses the spending of a relative few and puts it to work delivering goods to the masses.¹⁴ Far from being a blight on society, unequal income distribution is instrumental in driving society forward. It's a natural resource.

EXHIBIT 8: The Bounty of Time Well Spent— Household Ownership and Use of Products



The past 100 years have brought a virtual explosion in the array of goods Americans routinely enjoy. At the turn of the century, nobody—not even society's wealthiest—could travel by air, wear comfortable tennis shoes or even take an aspirin, yet the majority of modern-day Americans regularly do so. From cars to computers to cell phones, our ancestors would gawk at the products we take for granted.

THE MECHANISM OF MARKETS

The true test of an economic system is how productive it is with people's time. The majority of us aren't born with big bank accounts, but we are born with time. Time is the real currency of life, and the value of our time—what we can acquire for its exchange—is our most important asset. Like a good steward, America's free enterprise system has consistently raised the value of our hours and minutes, making most goods and services affordable

for the average worker. The result is a democracy of consumption.

In 1928, Herbert Hoover's presidential campaign promised Americans "a chicken in every pot . . . and a car in every back-yard, to boot." Today, we have all that and much, much more—not by the grace of government but by the mechanism of markets.

When common labor supports the good life, it's truly time well spent.

NOTES

- 1 Whenever possible, this report uses specific product models rather than broad product categories to make price comparisons. As Federal Reserve Chairman Alan Greenspan noted recently, "It is the measurement of individual prices, not the aggregation of those prices, that is so difficult conceptually...[While] the prices of a ton of cold rolled steel, or of a linear meter of cotton broad woven fabric, can be reasonably compared over a period of years...when the characteristics of products and services are changing rapidly, defining the unit of output...can be conceptually difficult." Although some generality may be sacrificed, it is easier to accurately compare, say, a 1908 Model T with a 1997 Ford Taurus than "cars" with "cars."
- 2 An hour of work isn't without its vagaries if we try to measure the effort and discomfort involved in doing our jobs. The majority of today's workers—sitting at computers in well-lighted, air-conditioned offices—are sacrificing less of their energy and well-being than yesterday's cotton picker, coal miner or barge hand.
- 3 For a discussion of other aspects of income distribution and mobility, see "By Our Own Bootstraps: Economic Opportunity and the Dynamics of Income Distribution," 1995 Annual Report of the Federal Reserve Bank of Dallas.
- 4 This is the only statistical series on wages that goes back far enough to make comparisons over a century. It covers a large number of workers but by no means all of them. Pay in manufacturing was above the average for wage and salary workers for most of this century, but in recent years the gap has all but disappeared. A smaller portion of today's workforce, moreover, holds factory jobs. At the turn of the century the United States was still predominantly an agricultural nation. Weekly wages for farm labor averaged roughly \$4.75, about half that of factory workers. So if anything, the use of manufacturing wages biases the research in this report against measuring the full extent of the decline in real living costs. All wage statistics fail to account for income and payroll taxes, which have grown from 5 percent of wages in the early 1950s to about 21 percent today (for year-round, full-time workers in manufacturing). Balancing that out, however, is the omission of nonmonetary employee benefits, which are 44 percent of wages today, up from 19 percent in 1953.
- 5 Looking at averages, a new home in 1996 had 2,120 square feet, bigger by two 12- by 15- foot rooms than in 1970. A 1956 new house had 1,230 square feet; in 1920 the mean was 1,100 square feet.
- 6 The low point in the cost of jeans came in 1971, when it took 2 hours 16 minutes to buy a pair. The subsequently higher prices reflect changes in the garment's quality. Most of today's jeans are designed for fashion wear, not manual labor, with special processes that improve fit and comfort.
- 7 Already, cars and trucks nearly outnumber Americans old enough to drive. In 1995, when the population age 16 and over totaled 201.2 million, the country had 193.4 million vehicles.
- 8 The average workweek for manufacturing employees in the 1920s was roughly 50 hours, whereas today it is about 40. For consistency of comparison, all monthly and weekly figures in this report are based on a 40-hour workweek.
- 9 In 1966 average annual tuition at a private college required 537 hours of work; 30 years later it was up to 1,295 hours. Public universities went from 133 hours to 260 hours.
- 10 In 1971 Texas Instruments and Canon jointly introduced a model selling for \$390.
 Breakthroughs at TI helped slash the price by 70 percent in just a year.
- 11 Technology also allowed television screens to get a lot bigger. Today families can buy 36-inch models for less work time than a 19-inch set in 1971.
- 12 In January 1998 IBM cut the price of its 233-MHz MMX Aptiva to \$999, lowering the cost to under 20 minutes per MIPS.
- 13 This calculation assumes an average work life of 90,000 hours, at 40 hours a week, 50 weeks a year, for 45 years.
- 14 While even socialist economies may eventually get the goods (with a very long lag), they rarely do so without the delivery system of markets elsewhere. To put it bluntly, they free ride on the accomplishments of their capitalist neighbors.

ACKNOWLEDGMENTS

"Time Well Spent: The Declining *Real* Cost of Living in America" was written by W. Michael Cox and Richard Alm. The essay is based on research conducted by Cox, vice president and economic advisor, Federal Reserve Bank of Dallas. Thanks also go to Charlene Howell, Sergei Polevikov, Marci Rossell and Meredith Walker for help with this project.

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Pages 18 and 19

Sale! 10%-90% Off!

The Work-Time Cost of Products, Today Versus Yesterday

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Page 12, 1954 movie theater, Sony Loews Theatres: 1920 woman's haircut, Museum of Cosmetology Arts and Sciences, St. Louis, Mo.

Page 13, 1930 plane and airport, C. R. Smith American Airlines Museum; cruise, image copyright © 1997 PhotoDisc, Inc.

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THE YEAR IN REVIEW

The ongoing goals of economic growth and stability in the Eleventh District provided purpose and direction for the Federal Reserve Bank of Dallas in 1997. In research and public information, the Bank continued to emphasize free enterprise, free trade and economic literacy. Publications and conferences dealt with those themes in examining a broad range of issues that concern policymakers and impact life in the district. Payments services were enhanced as part of a continuing commitment to an effective and efficient payments system. The financial community also benefited from the move to risk-based supervision, which reduces the burden of the Bank's supervisory activities while promoting a sound banking system. Streamlining internal processes improved not only customer service but the Dallas Fed's 1997 unit cost relative to that for 1996. Fewer people processed more volume, and the Bank recovered its aggregate cost of priced services to financial institutions.





ECONOMIC OVERVIEW

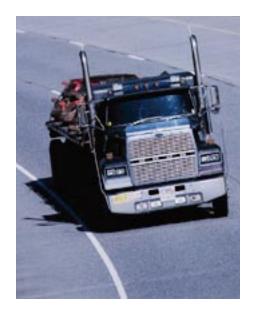
The U.S. economy flourished in 1997, but the Eleventh District's economy was even better. Virtually every sector of the district economy expanded, particularly in Texas, pushing employment up 3.5 percent compared with 2.7 percent nationwide.

Energy exploration in the district reached levels unseen in more than a decade. Relatively high oil and natural gas prices were a factor in the activity. But the real force behind the industry's good news was the technology that has slashed the cost of finding and developing new fields and tapping existing ones.

Spurred by the lower interest rates that are a by-product of disinflation, the Texas construction industry performed at levels last achieved in the mid-1980s. Office and industrial markets continued to be strong, and residential contract values neared their 1996 peak.

The North American Free Trade Agreement continued to boost Texas' fortunes. U.S.-Mexican trade rose to the volume seen before the December 1994 peso devaluation. One visible sign of the recovery was the record level of truck traffic-both northbound and southbound-across the Texas-Mexico border.

District growth was unevenly distributed. While Texas fared very well, a continued decline in the number of government jobs plus tepid performance in other sectors checked growth in New Mexico. And although Louisiana benefited from a strong oil and gas industry, the rest of its economy was sluggish.



FINANCIAL SERVICES

In the financial services arena, the Dallas Fed used technology to create efficiencies that enhance service to customers, control their costs and reduce risk. Particular emphasis was placed on expanding electronic service capabilities to support customer needs and promote efficiency of the payments system.

Reflecting the move to an increasingly electronic environment, the volume of payor bank services rose significantly. The Bank implemented high-speed image capture for commercial checks at its Dallas Office and began imaging at the El Paso Office, giving all four district offices imaging capabilities. As a result, imaging volume shot up 150 percent last year from 1996. Volumes also rose for the Bank's automated clearinghouse (21.3 percent), electronic check (12.3 percent) and electronic funds transfers (7.7 percent) services. The Dallas Fed, along with the rest of the Federal Reserve System, implemented an expanded format for funds transfers that provides more payments information to facilitate interbank transactions. Reserve Banks also expanded the hours for funds transfers to support private-sector efforts to reduce settlement risk in the foreign exchange market.

In 1997 the Federal Reserve System reviewed its role in the payments system in light of changes in the banking industry driven by technology, consolidation and interstate branching. The Dallas Fed participated in the process by hosting hearings on behalf of the Rivlin Committee, appointed by Fed Chairman Alan Greenspan and headed by Vice Chair Alice Rivlin. After taking extensive testimony from around the country, the committee concluded the Fed should not only remain a provider of check collection and



automated clearinghouse services but should work more actively with providers and users to enhance efficiency and devise strategies for the next generation of payment instruments.

To accommodate interstate branch banking, now permitted everywhere but Texas and Montana, the Dallas Fed participated in the System's move to an account structure that makes it easier for financial institutions to conduct business in multiple Fed districts. The new structure, implemented in early 1998, allows a financial institution to consolidate balances into a single, national account. The Dallas Fed also converted to centralized computer processing for the transfer of

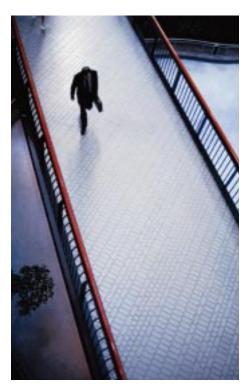




securities. The centralization standardized service across the Federal Reserve in early 1998, allowing for more rapid development of service upgrades, enhancing contingency operations and reducing costs.

In other areas, the Dallas Fed assumed a lead role in the System's multiyear effort to enhance the Functional Cost and Profit Analysis Program, a cost-accounting service offered to financial institutions. And the pace of preparations for the turn of the century and its impact on computer systems picked up during the year. All of the Dallas Fed's critical financial services systems will be Year 2000 ready by mid-1998 so testing by customers that interface with the systems can begin.

To communicate with the financial community, the Dallas Fed held numerous seminars and training sessions on new electronic check products, automated clearinghouse and check issues, the new book-entry system and the expanded funds format. These forums not only offered information to financial institutions but encouraged customer feedback as well. In addition, a series of seminars introduced a new policy on the frequency with which financial institutions order and deposit currency with the Fed. Once implemented in 1998, the policy will standardize service across the System.



BANKING SUPERVISION; DISCOUNT AND CREDIT

Reflecting a thriving regional economy, the Eleventh District banking industry posted another year of solid performance in 1997. Continued strong loan growth, combined with stable net interest margins, produced healthy earnings for district banks. Asset quality was good, and capital levels remained high.

Although 13 new bank charters were granted, consolidations and mergers continued to reduce the number of banks in the district—from 986 in 1996 to 923 in 1997. The number of branches increased from 3,184 to 3,478, a continuation of the trend of converting banks to branch offices. The Dallas Fed processed 149 applications—compared with 284 in 1996—for mergers and acquisitions, changes in control and management, and other actions requiring regulatory approval. The sharp reduction in the number of applications resulted from a change that eliminated unnecessary regu-



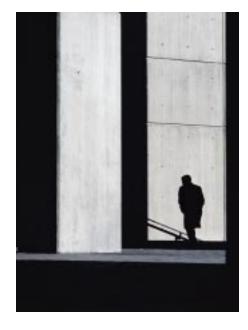
latory burden and operating restrictions on bank holding companies and streamlined the application and notice process.

In another move to make its supervisory activities more efficient and less intrusive, the Dallas Fed implemented an approach that tailors safety and soundness examinations to the risk profile of individual institutions. As a result, the time spent at institutions was reduced 37 percent from previous examinations at the same banks. Because of the risk-based approach, the industry's solid condition and continued consolidation, the Dallas Fed conducted 109 fewer examinations and inspections than in 1996, a drop of 35 percent. The Bank developed a new supervisory tool, the National Examination Data System, that gives all Reserve Banks a single source for information on financial institutions.

The Dallas Fed hosted forums around the district to discuss supervisory issues with bankers and to listen to their concerns. The Bank also promoted awareness among financial institutions of technical issues surrounding the century date change.

The number of loans made by the Bank's discount window dropped to 158 from 263 in 1996 as a result of high liquidity, continued mergers and good weather. Total credit extended fell sharply, from \$657 million in 1996 to only \$176 million in 1997.

The 46 state-chartered banks under the Dallas Fed's supervision represented 5 percent of all insured commercial banks in the district and accounted for 4.9 percent of insured commercial bank assets. The 496 bank holding companies under the Dallas Fed's supervision controlled 600 insured commercial banks that held 32 percent of all insured commercial bank assets in the district. About 56 percent of the district's commercial bank assets were controlled by holding companies headquartered in other districts; the remainder were controlled by independent banks in the Eleventh District. Thirty-six foreign banks from 11 countries operated 15 state-licensed agencies and 29 representative offices.



RESEARCH AND PUBLIC INFORMATION

Public policy issues of interest to the business community and opinion shapers were the subject of much of the Dallas Fed's research last year. Reflecting this focus were articles that dealt with topics such as Social Security, welfare reform, immigration and proposed national tax code changes to better support economic growth. Of special interest to the banking community were articles on bank capital regulations, payments system issues, home-equity lending and the challenges financial institutions face in preparing their computer systems for the turn of the century.

An examination of Mexico's banking and payments systems and the extension of free trade to other Latin American countries were among the topics studied by the Center for Latin American Economics, the focal point of the Bank's international research. One Bank economist served a residency at the Central Bank of Chile in 1997, and a program of visiting scholars on Latin American economics was launched. Elsewhere in the world, a Bank economist began serving a 16-month appointment at the European Monetary Institute.

The Dallas Fed sponsored several public policy conferences, including *Headwaters to Economic Growth*, which explored market solutions to water allocation in Texas; *Immigration and the Economy*, which assessed the impact of immigration; and *The Business of Education*, which discussed the roles of educators, parents, businesses and policymakers in improving the educational system. The Bank also cohosted a speaker series with the National Center for Policy Analysis.



The Dallas Fed produced more than 60 issues of publications aimed at economists, bankers, the larger business community, educators, public officials and other policymakers.

The Bank has long seen economic education as a key part of its mission. Last year the Dallas Fed coordinated 24 conferences and workshops for university faculty, high school teachers and students. The Bank also encouraged the study of economics by sponsoring Fed Challenge, an annual competition that brings real-world economics into the classroom, and a student essay contest. The Bank provided the leadership for a national survey of 30,000 educators to ensure the Federal Reserve's instructional materials and conferences are meeting their needs.

The Dallas Fed also continued to provide leadership in the area of community and economic development, communicating with the financial industry and the general public through a number of



publications, conferences, workshops and meetings. Houston and Dallas bankers and community leaders are using contacts and information from one such conference to establish microloan programs for low-income individuals interested in starting their own business.





BANK EXECUTIVES

STANDING (FROM LEFT):

Helen E. Holcomb, First Vice President and COO,
Federal Reserve Bank of Dallas;
Robert D. McTeer, Jr., President and CEO,
Federal Reserve Bank of Dallas;
Cece Smith (Deputy Chairman), General Partner,
Phillips-Smith Specialty Retail Group.
SEATED: Roger R. Hemminghaus (Chairman),

Chairman and CEO, Ultramar Diamond Shamrock Corp.

Cece Smith retired from the Dallas board of directors in December 1997 after six years, including three as chairman and more than a year as deputy chairman.



SENIOR MANAGEMENT

FROM LEFT:

Robert D. Hankins, Banking Supervision,
Discount and Credit, and Financial Industry Studies;
Harvey Rosenblum, Research and Statistics;
J. Tyrone Gholson, Cash, Protection,
Securities and Services;
Helen E. Holcomb, First Vice President and COO;
Robert D. McTeer, Jr., President and CEO;
Sam C. Clay, El Paso Branch;
Robert Smith III, Houston Branch;
Millard E. Sweatt, Legal, Operations
Analysis and Purchasing;
Larry J. Reck, Information Technology
Services and Payments Services.
NOT PICTURED:
James L. Stull, San Antonio Branch.

FEDERAL RESERVE BANK OF DALLAS

Standing (from left):

Gayle M. Earls, President and CEO,

Texas Independent Bank;

Dudley K. Montgomery, President and CEO,

The Security State Bank of Pecos;

Dan Angel, President, Stephen F. Austin State University;

Kirk A. McLaughlin, *President and CEO, Security Bank;* Charles T. Doyle, *Chairman*,

Texas Independent Bancshares Inc.

SEATED (FROM LEFT):

Cece Smith (Deputy Chairman), General Partner, Phillips–Smith Specialty Retail Group;

Roger R. Hemminghaus (Chairman),

 ${\it Chairman\ and\ CEO,\ Ultramar\ Diamond\ Shamrock\ Corp.}$

NOT PICTURED:

Julie S. England, Vice President,

Semiconductor Group, Texas Instruments;

James A. Martin, Second General Vice President,

International Association of Bridge,

Structural & Ornamental Iron Workers;

Robert C. McNair, Chairman and CEO,

Cogen Technologies Energy Group.

Milton Carroll retired from the Dallas board in mid-1997 after more than four years of service.



EL PASO BRANCH

STANDING (FROM LEFT):

Hugo Bustamante, Jr., Owner and CEO,

CarLube Inc., ProntoLube Inc.;

Alvin T. Johnson (Chairman), President,

Management Assistance Corporation of America;

Beauregard Brite White (Chairman Pro Tem), Rancher, J. E. White, Jr. & Sons;

Lester L. Parker, *President and COO, Bank of the West.*

SEATED (FROM LEFT):

James D. Renfrow, President and CEO,

Carlsbad National Bank;

Patricia Z. Holland-Branch, President and CEO,

PZH Contract Design Inc.;

Melissa W. O'Rourke, President, Charlotte's Inc.

Hugo Bustamante, Jr. and Alvin T. Johnson retired from the El Paso board in December 1997.





HOUSTON BRANCH

FROM LEFT:

J. Michael Solar, *Principal Attorney*,

Solar & Fernandes LLP;
T. H. Dippel, Jr., Chairman and President,

Brenham Bancshares Inc.;

Judith B. Craven, President,

United Way of the Texas Gulf Coast;

Edward O. Gaylord (Chairman Pro Tem),

Chairman, EOTT Energy Corp., and

General Partner, EOTT Energy Partners LP;

Ray B. Nesbitt, President, Exxon Chemical Co.;

I. H. Kempner III (Chairman),

Chairman, Imperial Holly Corp.

NOT PICTURED:

Peggy Pearce Caskey, CEO,

T. H. Dippel, Jr. and I. H. Kempner III retired from the Houston board in December 1997.

Laboratories for Genetic Services Inc.



SAN ANTONIO BRANCH

FROM LEFT:

Patty Puig Mueller, Vice President/Finance, Mueller Engineering Corp;
H. B. Zachry, Jr. (Chairman),
Chairman and CEO, H. B. Zachry Co.;
Richard W. Evans, Jr., Chairman and CEO,
Frost National Bank;
Douglas G. Macdonald, President,
South Texas National Bank;
Calvin R. Weinheimer, President and COO,
Kerrville Communications Corp.
NOT PICTURED:
Juliet V. Garcia, President,
University of Texas at Brownsville;
Carol L. Thompson (Chairman Pro Tem),

Calvin Weinheimer retired from the San Antonio board in December 1997.

President, The Thompson Group.

SMALL BUSINESS AND AGRICULTURE ADVISORY COUNCIL

Stephen K. Balas

Owner and Pharmacist, Eagle Lake Drugstore and Home Health Care Owner, Balas Farming Co., Eagle Lake, Texas

Gilbert D. Gaedcke

Chairman and CEO, Gaedcke Equipment Co., Houston, Texas

Robert D. Josserand

President, AzTx Cattle Co., Hereford, Texas

Paula Lambert

Founder and President, Mozzarella Co., Dallas, Texas

Robert W. Latimer

President, Adobe Corporate Capital LLC, San Antonio, Texas

Joe D. Mitchell

Shareholder, Director and President, Mitchell & Jenkins PC, Attorneys and Counselors at Law, Dallas, Texas

J. Jav O'Brien

Cattleman, Amarillo, Texas

Bookman Peters

Certified Public Accountant and Financial Consultant, Bryan, Texas

Tim Shell

President, ExecuTrain of Houston Inc., Houston, Texas

FEDERAL ADVISORY **COUNCIL MEMBER**

Charles T. Doyle

Chairman, Texas Independent Bancshares Inc., Texas City, Texas

Effective December 31, 1997

FEDERAL RESERVE BANK OF DALLAS OFFICERS

Dallas

Robert D. McTeer, Jr. President and CEO

Helen E. Holcomb

First Vice President and COO

J. Tyrone Gholson Senior Vice President

Robert D. Hankins

Senior Vice President

Larry J. Reck

Senior Vice President

Harvey Rosenblum Senior Vice President and Director of Research

Millard E. Sweatt

Senior Vice President. General Counsel, Ethics Officer and Secretary

Earl Anderson

Vice President

Basil J. Asaro

Vice President

Gloria V. Brown

Vice President

Lyne H. Carter

Vice President

W. Michael Cox

Vice President and Economic Advisor

Billy J. Dusek

Vice President

Kermit S. Harmon, Jr.

Vice President

Joanna O. Kolson

Vice President

Joel L. Koonce, Jr. Vice President

Kenneth V. McKee

Vice President and General Auditor

Larry M. Snell

Vice President

W. Arthur Tribble

Vice President

Meredith N. Black

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Stephen P. A. Brown

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Terry B. Campbell

Assistant Vice President

John V. Duca

Senior Economist and Assistant Vice President

Robert G. Feil

Assistant Vice President

KaSandra Goulding

Assistant Vice President

William C. Gruben

Senior Economist and Assistant Vice President

Johnny L. Johnson

Assistant Vice President

Evan F. Koenig

Senior Economist and Assistant Vice President

C. LaVor Lym

Assistant Vice President

James R. McCullin

Assistant Vice President

Dean A. Pankonien Assistant Vice President

John R. Phillips Assistant Vice President

Larry C. Ripley

Assistant Vice President

Sharon A. Sweeney Assistant Vice President, Associate General Counsel and Associate Secretary

Gayle Teaque

Assistant Vice President

Michael N. Turner

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Evelyn LV. Watkins

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Bob W. Williams

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Statistics Officer

Nancy Vickrey

Community Affairs Officer

Mine Yücel

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El Paso

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Vice President in Charge

J. Floise Guinn

Assistant Vice President

Javier R. Jimenez Assistant Vice President

Houston

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Senior Vice President in Charge

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Assistant Vice President

Robert W. Gilmer

Senior Economist and Assistant Vice President

René G. Gonzales

Assistant Vice President

Luther E. Richards

Assistant Vice President

Daron D. Peschel Operations Officer

Marilyn Snider

Operations Officer San Antonio

James L. Stull

Senior Vice President in Charge

Taylor H. Barbee

Assistant Vice President

Richard A. Gutierrez

Assistant Vice President

Karen Oieda Salisbury

Assistant Vice President

Effective January 1, 1998

STATEMENT OF CONDITION (IN MILLIONS)

ASSETS	DECEMBER 31, 1997	DECEMBER 31, 1996
Gold certificates	\$ 459	\$ 433
Special drawing rights certificates	367	399
Coin	37	49
Items in process of collection	359	1,284
U.S. government and federal agency securities, no	et 15,761	14,118
Investments denominated in foreign currencies	951	1,197
Accrued interest receivable	149	127
Interdistrict settlement account	5,259	218
Bank premises and equipment, net	185	190
Other assets	12	14
Total assets	\$ 23,539	\$ 18,029
		=====
LIABILITIES AND CAPITAL		
LIABILITIES		
Federal Reserve notes outstanding, net	\$ 20,007	\$ 15,340
Deposits:		
Depository institutions	2,480	1,730
Other deposits	10	12
Deferred credit items	424	374
Statutory surplus transfer due U.S. Treasury	12	15
Accrued benefit cost	45	42
Other liabilities	8	9
Total liabilities	\$ 22,986	\$ 17,522
CAPITAL		
Capital paid in	283	257
Surplus	270	250
Total capital	\$ 553	\$ 507
Total liabilities and capital	\$ 23,539	\$ 18,029

STATEMENT OF INCOME (IN MILLIONS)

			YEARS ENDED DECEMBER 31,	1996
INTEREST INCOME	,		,	
Interest on U.S. government securities	\$	910	\$	824
Interest on foreign currencies		21		28
Total interest income	\$	931	\$	852
OTHER OPERATING INCOME (LOSS)				
Income from services	\$	53	\$	53
Reimbursable services to government a	agencies	7		7
Foreign currency losses, net	((144)		(104)
Government securities gains, net		_		1
Other income		1		1
Total other operating loss	(\$	83)	(\$	42)
OPERATING EXPENSES				
Salaries and other benefits	\$	78	\$	77
Occupancy expense		11		12
Equipment expense		10		10
Cost of unreimbursed Treasury services	S	2		2
Assessments by Board of Governors		23		26
Other expenses		51		55
Total operating expenses	\$	175	\$	182
Net income prior to distribution	\$	673	\$ =	628
DISTRIBUTION OF NET INCOME				
Dividends paid to member banks	\$	16	\$	15
Transferred to surplus		26		11
Payments to U.S. Treasury as interest on Federal Reserve notes		_		453
Payments to U.S. Treasury as required	by statute	631		149
Total distribution		673	\$	628

These statements are prepared by Bank management. Copies of full and final financial statements, complete with footnotes, are available by contacting the Public Affairs Department at (214) 922-5254.

STATEMENT OF CHANGES IN CAPITAL FOR THE YEARS ENDED DECEMBER 31, 1997, AND DECEMBER 31, 1996 (IN MILLIONS)

	CAPITAL PAID IN	SURPLUS	TOTAL CAPITAL
BALANCE AT JANUARY 1, 1996			
(4.9 million shares)	\$ 246	\$ 246	\$ 492
Net income transferred to surplus	_	11	11
Statutory surplus transfer to the U.S. Treasury	_	(7)	(7)
Net change in capital stock issued			
(0.2 million shares)	11		11
BALANCE AT DECEMBER 31, 1996			
(5.1 million shares)	\$ 257	\$ 250	\$ 507
Net income transferred to surplus	_	26	26
Statutory surplus transfer to the U.S. Treasury	_	(6)	(6)
Net change in capital stock issued			
(0.5 million shares)	26		26
BALANCE AT DECEMBER 31, 1997			
(5.6 million shares)	\$ 283	\$ 270	\$ 553 =======

VOLUME OF OPERATIONS

	NUMBER OF	(Thousands)	Ε	OOLLAR AMOUNT (Millions)
	1997	1996	1997	1996
SERVICES TO DEPOSITORY INSTITUTIONS				
CASH SERVICES				
Currency received from circulation	1,582,135	1,425,077	24,582	22,064
Coin received from circulation	827,340	836,223	112	138
CHECK PROCESSING				
Commercial-processed	1,121,958	1,091,459	651,531	648,485
Commercial—fine sorted	240,918	265,759	88,709	88,821
U.S. government checks	26,736	29,908	26,636	29,072
ELECTRONIC PAYMENTS				
Automated Clearinghouse items originated	187,438	154,479	586,317	538,058
Funds transfers processed	8,811	8,183	13,207,835	12,049,359
Book-entry security transfers	291	338	3,437,462	4,741,244
LOANS				
Advances made	158*	263*	176	657
SERVICES TO THE U.S. TREASURY AND GOVERNMENT AGENCIES				
Issues and reinvestments of Treasury securities	20	25	932	1,192
Food coupons destroyed	787	7,672	4	35

^{*}Individual loans, not in thousands.

ABOUT THE DALLAS FED

The Federal Reserve Bank of Dallas is one of 12 regional Federal Reserve Banks in the United States. Together with the Board of Governors in Washington, D.C., these organizations form the Federal Reserve System and function as the nation's central bank. The System's basic purpose is to provide a flow of money and credit that will foster orderly economic growth and a stable dollar. In addition, Federal Reserve Banks supervise banks and bank holding companies and provide certain financial services to the banking industry, the federal government and the public.

Since 1914, the Federal Reserve Bank of Dallas has served the financial institutions in the Eleventh District. The Eleventh District encompasses 350,000 square miles and comprises the state of Texas, northern Louisiana and southern New Mexico. The three Branch offices of the Federal Reserve Bank of Dallas are in El Paso, Houston and San Antonio.

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