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HEARINGS

BEFORE THE

JOINT ECONOMIC COMMITTEE CONGRESS OF THE UNITED STATES

ONE HUNDREDTH CONGRESS

FIRST SESSION

PART 30

NOVEMBER 6 AND DECEMBER 4, 1987, AND JANUARY 8, 1988

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EMPLOYMENT-UNEMPLOYMENT

FRIDAY, NOVEMBER 6, 1987

Congress of the United States, Joint Economic Committee,

Washington, DC.

The committee met, pursuant to notice, at 9:40 a.m., in room SD-628, Dirksen Senate Office Building, Hon. Paul S. Sarbanes (chairman of the committee) presiding.

Present: Senators Sarbanes and Melcher.

Also present: Judith Davison, executive director; and William Buechner and Chris Frenze, professional staff members.

OPENING STATEMENT OF SENATOR SARBANES, CHAIRMAN

Senator SARBANES. The committee will come to order.

The Joint Economic Committee is very pleased this morning to welcome once again Janet Norwood, the Commissioner of Labor Statistics, to testify on the employment and unemployment situation for October.

According to this morning's Employment Situation press release, the economy did create jobs at least through the first half of October, although the civilian unemployment rate rose to 6 percent.

The information we will review today, as I understand it, does not extend beyond the week of October 12 and therefore does not reflect any effects of the sharp downward movement in the world's stock markets that began on October 19.

I would like to turn to a slightly different subject for just a moment. In October, the Bureau of Labor Statistics released some data on the recent earnings of American families which I find of considerable concern.

In the real earnings release for September, which was issued on October 23, the BLS reported that the real average weekly earnings of private nonfarm workers declined during the last 12 months by almost 2 percent. Although the average worker took home 2.4 percent more in pay in September of 1987 than in September of 1986, prices rose 4.4 percent during the same period, leaving the average worker 2 percent worse off after adjusting for inflation.

Families seem to fare no better. According to the BLS's October 26 release on the employment and earnings characteristics of families, the median earnings of families rose 5 percent between the third quarter of 1986 and the third quarter of 1987. After adjusting for inflation, the gain, however, came to only 0.6 of 1 percent. Moreover, all of the gain occurred among two-earner families. After adjusting for inflation, families with a single earner suffered a 2.6 percent average loss of real income during the last year, while families with two or more earners experienced an average gain of 1 percent. That is a real gain of 1 percent in families with two or more earners but a loss of over 2.5 percent in families with a single earner.

The loss in real family income for one-earner families is not attributable to households maintained by a single woman; the largest losses were experienced by married couple families with one earner, as well as for families maintained by single men.

Notwithstanding the unemployment figures, the household income figures indicate that having a job is no longer enough to assure a family's welfare; the American dream of supporting oneself and one's family by working hard at a decent job paying a decent wage has grown more problematical.

The BLS's data suggest that most families cannot make ends meet today without having at least two family members in the labor force who are contributing to the family budget.

We will now ask Commissioner Norwood to present her testimony on the employment and unemployment situation for October.

Senator Melcher, did you have anything?

Senator MELCHER. No.

Senator SARBANES. Commissioner, we would be pleased to hear from you.

STATEMENT OF HON. JANET L. NORWOOD, COMMISSIONER, BUREAU OF LABOR STATISTICS, DEPARTMENT OF LABOR, AC-COMPANIED BY KENNETH V. DALTON, ASSOCIATE COMMIS-SIONER, OFFICE OF PRICES AND LIVING CONDITIONS; AND THOMAS J. PLEWES, ASSOCIATE COMMISSIONER, OFFICE OF EMPLOYMENT AND UNEMPLOYMENT STATISTICS

Mrs. Norwood. Thank you very much.

I have with me as always our price expert Kenneth Dalton and our employment and unemployment expert Tom Plewes.

Senator SARBANES. We are pleased to welcome your gang here with you, Commissioner.

Mrs. Norwood. Thank you, Mr. Chairman. [Laughter.]

We are not a gang of four, but, we are really pleased to be here. The labor market continued strong in October. Large gains in employment occurred in both the household and business surveys. The labor force also expanded considerably, leaving unemployment essentially unchanged. The overall jobless rate was 5.9 percent, and the civilian worker rate was 6 percent.

After 2 months of small increases, the number of workers on business payrolls during the period October 11-17 totaled 102.9 million, up sharply—550,000—from September.

An especially bright spot is the factory work force, which continued to expand; 65,000 jobs were added in October. In fact, factory employment has risen by 220,000 since June.

For the second month in a row, the BLS diffusion index, which is heavily weighted toward manufacturing, showed increased employment in more than 60 percent of the industries included. Large over-the-month job gains occurred in fabricated metal products, machinery, and electrical equipment, and small increases were posted by several other manufacturing industries. Indeed, October employment in three manufacturing industries furniture, rubber and plastics, and printing and publishing reached an all-time high.

In addition to these employment gains, the factory workweek rose to 41.1 hours in October, more than recouping the September drop caused by the Labor Day holiday. Factory overtime, at 4 hours, was at the highest level in more than 14 years.

Employment in the contruction industry increased by 40,000 after seasonal adjustment, recouping the job loss of September. At 5 million, construction employment has shown no growth since last spring.

Employment in the services industry rose by 150,000 in October. The industry has gained nearly 900,000 jobs this year alone. Gains in October were especially large in business, health, and private educational services.

Employment in local government, always difficult to measure at this time of the year, increased by 165,000. Although much of this increase reflects the return to work of teachers and other school personnel who had been on strike in September, school systems also continued to hire for larger enrollments in the fall school term.

Civilian employment, as measured by the household survey, also rose sharply. Adult women accounted for much of that increase. The employment-population ratio edged up. Over the past year civilian employment has expanded by 3 million. The increase was shared equally by men and women.

As often occurs, the large employment increase from September to October was accompanied by an unusually large gain in the labor force. During the past year, the labor force has expanded by 2 million, including 1.1 million adult women and 850,000 adult men.

Although little changed from the September figures, jobless rates for blacks and whites both showed improvement from year-earlier levels. The proportion of blacks with jobs increased by more than 2 full percentage points over the year, considerably more than the 0.8 percent increase for whites. Nevertheless, the black unemployment rate remains more than twice the rate for whites.

In October, the current expansion reached 59 months, the longest peacetime expansion on record. During this period, employment has risen by 14 million, the number of unemployed persons has declined by nearly 5 million, and the civilian unemployment rate has fallen from 10.8 to 6 percent.

In summary, job growth from September to October was strong and widespread, and the labor force expanded. There were large gains in the services sector, continued strength in manufacturing employment, and an increase in factory hours.

Mr. Chairman, I would like to take just a few moments to review very briefly the data that we released in the last week on export and import prices and productivity. I think they are rather important.

There has been a moderation in the rise in import prices. From June to September, import prices were up just 1.7 percent and, more important, only 1.3 percent if fuels were excluded. In contrast, over the past 2 years, roughly paralleling the period when the dollar has fallen, the price of imports excluding fuels has risen at an average quarterly rate of 2.1 percent.

One should bear in mind, of course, that during the third quarter the dollar was relatively stable. We have found, by using our new BLS-constructed exchange rate indexes weighted by product group, that foreign sellers, on average, have passed through as price increases only about one-half of the decline of the dollar.

Export prices were fairly stable during the third quarter. Prices for finished goods showed little movement, although prices for raw materials recorded their third substantial increase. These developments, which may reflect a desire by American manufacturers to increase export sales, seem consistent with the increases in factory employment over the last few months.

Domestic prices showed little evidence of significant upward movement because of import prices. Consumer prices for commodities other than food, shelter, and energy increased at a 5 percent, roughly, annual rate in the first 3 months of 1987, but in the second and third quarters that increase slowed to 3.8 and 3 percent, respectively.

On Monday, the Bureau released its quarterly release on productivity. In the third quarter, output per hour of all persons increased strongly—by almost 3 percent in the business and nonfarm business sector and by over 4 percent in manufacturing.

In view of the sluggish productivity growth in the business sector earlier in the recovery, the increases over the last three quarters are especially important.

Productivity growth during the current recovery differs considerably from that in past recoveries. Manufacturing productivity gains have been more rapid, but gains have been slower than usual in the business and nonfarm business sectors.

During the current expansion, hourly compensation increases in manufacturing have been more moderate than usual, and unit labor costs have actually declined, thereby exerting less upward pressure on prices.

We would be glad to try to answer any questions you may have. [The table attached to Mrs. Norwood's statement, together with the Employment Situation press release, follows:]

		l		X-11 ARI	MA meth	od			X-11 method	[
Month	Unad-		Concurrent					12-month	(official	Range
and	justed	Official	(as first	Concurrent	Stable	Total	Residual	extrapola-	method	(cols
year	rate	procedure	computed)	(revised)	L			tion	before 1980)	2-9)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1986										
October	6.6	6.9	6.9	7.0	7.0	6.9	6.9	7.0	7.0	.1
November	6.6	6.9	6.9	7.0	6.9	6.9	7.0	6.9	7.0	.1
December	6.3	6.7	6.7	6.7	6.6	6.7	6.7	6.7	6.7	.1
1987										
January	7.3	6.7	6.7	6.7	6.7	6.8	6.6	6.7	6.7	.2
February	7.2	6.7	6.7	6.6	6.6	6.7	6.5	6.7	6.7	.2
March	6.9	6.6	6.6	6.5	6.6	6.6	6.5	6.6	6.6	1
April	6.2	6.3	6.3	6.3	6.4	6.3	6.3	6.3	6.3	.1
May	6.1	6.3	6.3	6.3	6.4	6.3	6.4	6.3	6.3	.1
June	6.3	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	-
July	6.1	6.0	6.1	6.0	6.0	6.0	6.0	6.0	6.0	.1
August	5.8	6.0	6.0	6.0	5.9	6.1	6.2	6.0	6.0	.3
September	5.7	5.9	5.9	5.9	5.9	5.9	6.0	5.9	5.9	.1
October	5.7	6.0	6.0	6.0	6.0	5.9	6.0	6.0	6.0	

Unemployment rates of all civilian workers by alternative seasonal adjustment methods

SOURCE: U.S. DEPARTMENT OF LABOR Bureau of Labor Statistics November 1987 ŝ

(1) Unadjusted rate. Unemployment rate for all civilian workers, not seasonally adjusted.

(2) Official procedure (X-11 ARIAM method). The published seasonally adjusted rate for all civilian workers. Each of the 3 major civilian labor force components--agricultural employment, nonagricultural employment and unemployment--for 4 age-sex groups---makes and females, ages 16-19 and 20 years and over--are seasonally adjusted independently using data from January 1974 forward. The data series for each of these 12 components are extended by a year at each end of the original series using ARIMA (Auto-Regressive, Integrated, Noving Average) models chosen specifically for each series. Each extended series is then seasonally adjusted with the X-11 ARIAM program. The 4 teenage unemployment and nonagricultural employment components are adjusted with the additive adjustment model, while the other components are adjusted with the multiplicative model. The unemployment rate is computed by summing the 4 seasonally adjusted series are revised at the end of each year. All the seasonally adjusted series are revised at the end of each year; extrapolated factors for January-June are computed at the beginning of each year; extrapolated factors for July-December are computed in the middle of the year after the June data become available. Each set of 6-month factors are published in advance, in the January and July issues, respectively, of <u>Employment and Earnings</u>.

(3) <u>Concurrent (as first computed, X-11 ARIMA method)</u>. The official procedure for computation of the rate for all civilian workers using the 12 components is followed except that extrapolated factors are not used at all. Each component is seasonally adjusted with the X-11 ARIMA program each month as the most recent data become available. Rates for each month of the current year are shown as first computed; they are revised only once each year, at the end of the year when data for the full year become available. For example, the rate for January 1984 would be based, during 1984, on the adjustment of data from the period January 1974 through January 1984.

(4) <u>Concurrent (revised, X-11 ARIMA method)</u>. The procedure used is identical to (3) above, and the rate for the current month (the last month displayed) will always be the same in the two columns. However, all previous months are subject to revision each month based on the seasonal adjustment of all the components with data through the current month.

(5) <u>Stable (X-11 ARIMA mathod)</u>. Each of the 12 civilian labor force components is extended using ARIMA models as in the official procedure and then run through the X-11 part of the program using the stable option. This option assumes that seasonal patterns are basically constant from year-to-year and computes final seasonal factors as unweighted averages of all the seasonal-irregular components for each month across the entire span of the period adjusted. As in the official procedure, factors are extrapolated in 6-month intervals and the series are revised at the end of each year. The procedure for computation of the rate from the seasonally adjusted components is also identical to the official procedure.

(6) Total (X-11 ARIMA method). This is one alternative aggregation procedure, in which total unemployment and civilian labor force levels are extended with ARIMA models and directly adjusted with multiplicative adjustment models in the X-11 part of the program. The rate is computed by taking seasonally adjusted total unemployment as a percent of seasonally adjusted total civilian labor force. Factors are extrapolated in 6-month intervals and the series revised at the end of each year.

(7) <u>Residual (X-11 ARIMA method</u>). This is another alternative aggregation method, in which total civilian employment and civilian labor force levels are extended using ARIMA models and then directly adjusted with multiplicative adjustment models. The seasonally adjusted unemployment level is derived by subtracting seasonally adjusted employment from seasonally adjusted labor force. The rate is then computed by taking the derived unemployment level as a percent of the labor force level. Factors are extrapolated in 6-month intervals and the series revised at the end of each year.

(8) <u>12-month extrapolation (I-11 ARIMA method</u>). This approach is the same as the official procedure except that the factors are extrapolated in 12-month intervals. The factors for January-December of the current year are computed at the beginning of the year based on data through the preceding year. The values for January through June of the current year are the same as the official values since they reflect the same factors.

(9) <u>X-11 method (official method before 1980)</u>. The method for computation of the official procedure is used except that the series are not extended with ARIMA models and the factors are projected in 12-month intervals. The standard X-11 program is used to perform the seasonal edjustment.

<u>Mathods of Adjustment</u>: The X-11 ARIMA method was developed at Statistics Canada by the Seasonal Adjustment and Times Series Staff under the direction of Estela Bee Dagum. The method is described in <u>The X-11 ARIMA Seasonal Adjustment Method</u>, by Estela Bee Dagum, Statistics Canada Catalogue No. 12-564E, February 1980.

The standard X-11 method is described in X-11 Variant of the Census Method II Seasonal Adjustment Program, by Julius Shiskin, Allan Young and John Musgrave (Technical Paper No. 13, Bureau of the Census, 1967).



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TRANSMISSION OF MATERIAL IN THIS RELEASE IS EMBARGOED UNTIL 8:30 A.M. (EST), FRIDAY, NOVEMBER 6, 1987

THE EMPLOYMENT SITUATION: OCTOBER 1987

Employment was up sharply in October while unemployment was essentially unchanged, the Bureau of Labor Statistics of the U.S. Department of Labor reported today. The overall unemployment rate, 5.9 percent, and the rate for civilian workers, 6.0 percent, were about the same as in September.

The number of nonagricultural payroll jobs, as measured by the survey of business establishments, rose by 550,000, following moderate increases in the previous 2 months. Total civilian employment, as measured by the survey of households, posted a gain of more than 400,000. (The reference period for both surveys was the week of October 11-17.)

Unemployment (Household Survey Data)

Both the number of unemployed persons, at 7.2 million in October, and the civilian unemployment rate, at 6.0 percent, were about unchanged from September, as the increase in employment was matched by a large gain in the labor force.

Jobless rates for adult men (5.1 percent), adult women (5.2 percent), whites (5.2 percent), blacks (12.0 percent), and Hispanics (8.3 percent) showed little or no movement over the month, but have declined considerably over the year. In contrast, the teenage rate has risen 2 percentage points since midsummer and, at 17.4 percent in October, was about the same as a year earlier. (See tables A-2 and A-3.)

The average (mean) duration of unemployment, at 14.0 weeks, was about unchanged in October. At 6.2 weeks, median duration was up slightly over the month, but was still below the levels registered prior to September. (See table A-7.)

Civilian Employment and the Labor Force (Household Survey Data)

Civilian employment, which had declined in September, rose by 415,000 in October to 113.2 million, after seasonal adjustment. Over the past 12 months, employment has grown by 3.0 million, with adult women accounting for 1.5 million of the gain, adult men 1.4 million, and teenagers 120,000. (See table A-2.)

The civilian labor force rebounded by 500,000 in October, reaching a seasonally adjusted level of 120.4 million. The proportion of the population in the labor force edged up slightly to 65.7 percent, matching the peak ratio reached in May and August. Since October 1986, increases in the labor force have totalled 2.0 million.

Quarterly Monthly data averages Category Sept.-1987 1987 Oct. change ΤT III Oct. Aug. Sept. HOUSEHOLD DATA Thousands of persons 122,038 114,817 Labor force 1/..... 121,341 121,771 121,604 122,102 498 113,906 Total employment 1/ .. 114,593 114,515 114,928 413 119,861 120,361 Civilian labor force... 119,615 120,038 120,302 500 Civilian employment ... 112,180 112,860 113,081 112,772 113,187 415 7,178 62,978 7,089 Unemployment..... 7,435 7,221 7,174 85 62,912 Not in labor force..... 62,700 63,300 62,950 -350 Discouraged workers.. 1,037 1,011 N.A. N.A. N.À. N.A. Percent of labor force Unemployment rates: All workers 1/..... 6.1 5.9 5.9 5.8 5.9 0.1 .1 All civilian workers. 6.2 6.0 6.0 5.9 6.0 Adult men..... 5.5 5.0 5.2 5.2 5.1 •1 Adult women..... 5.4 5.4 5.3 5.4 5.2 -.2 17.0 Teenagers..... 15.9 16.0 16.3 17.4 1.1 5.3 5.1 White..... 5.1 5.1 5.2 •1 Black..... , .[.] • 13.2 12.4 12.4 12.3 12.0 -.3 Hispanic origin 8.8 8.0 8.0 8.2 .8.3 .1 ESTABLISHMENT DATA <u>Thousands of jobs</u> 101,708 p102,266 102,275 p102,396 p102,945 p549 Nonfarm employment..... Goods-producing..... 24,757 p24,882 24,886 p24,910 p108 p25,018 76,951 Service-producing.... p77,384 77,389 p77,486 p77,927 p441 Hours of work Average weekly hours: Total private..... 34.8 p34.8 34.9 p34.6 p34.8 p0.2 Manufacturing..... 40.9 p40.8 p40.4 41.0 p41.1 p.7 Overtime..... 3.7 p3.7 p.4 3.8 p3.6 p4.0 Includes the resident Armed Forces. 17 N.A.=not available. p=preliminary.

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Table A. Major indicators of labor market activity, 'seasonally adjusted

Industry Payroll Employment (Establishment Survey Data)

Total nonagricultural employment rose by 550,000 in October, seasonally adjusted, to a level of 102.9 million. For the second month in a row, increases occurred in more than three-fifths of the 185 industries in the BLS index of diffusion. Over the past 12 months, payroll employment has grown by 2.8 million. (See tables B-1 and B-6.)

In the goods-producing sector, employment rose by 110,000 in October, with factory jobs increasing by 65,000 and reaching 19.2 million. Since June, factory employment has expanded by 220,000. Most of the October improvement occurred in durable goods industries, with sizable gains in electrical equipment, machinery, and fabricated metal products. The number of construction jobs rose by 40,000, following a 30,000 decline in September, and mining employment continued to edge upward.

In the service-producing sector, employment rose sharply in October, after showing only moderate increases in September. The largest increases were in the services industry (150,000) and in local government (165,000), the latter due partly to the return to the payroll of about 65,000 teachers and other school personnel after labor disputes. Retail trade employment increased by about 70,000, following a 60,000 advance in September. In contrast, employment in wholesale trade; in finance, insurance, and real estate; and in transportation and public utilities was essentially unchanged in October. Altogether, jobs in the service sector increased by 440,000.

Weekly Hours (Establishment Survey Data)

Reversing the Labor Day-related curtailment in hours in September, the average workweek of production or nonsupervisory workers on private nonagricultural payrolls rose 0.2 hour in October, after seasonal adjustment, reaching 34.8 hours. The manufacturing workweek, at 41.1 hours, also rebounded, and factory overtime rose to 4.0 hours, the highest level in 14 years. (See table B-2.)

Reflecting increases in both employment and the average workweek, the index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls rose 1.1 percent to 121.5 (1977-100) seasonally adjusted. The manufacturing index rose 2.0 percent to 94.7. (See table B-5.)

Hourly and Weekly Earnings (Establishment Survey Data).

Average hourly earnings rose by 0.7 percent in October, while average weekly earnings increased by 1.2 percent, seasonally adjusted. Before seasonal adjustment, average hourly earnings rose by 3 cents to \$0.8, and average weekly earnings were up \$2.85 to \$316.89. Over the past 12 months, hourly earnings have risen 26 cents and weekly earnings have increased \$10.84. (See table B-3.)

The Hourly Earnings Index (Establishment Survey Data)

The Hourly Earnings Index (HEI) was 174.6 (1977=100) in October, seasonally adjusted, an increase of 0.1 percent from September. For the 12 months ended in October, the increase was 2.6 percent. The HEI excludes the effects of two types of changes unrelated to underlying wage rate movements--rluctuations in manufacturing overtime and interindustry employment shifts. In dollars of constant purchasing power, the HEI decreased 1.5 percent during the 12-month period ending in September. (See table B-4.)

The Employment Situation for November 1987 will be released on Friday, December 4, at 8:30 A.M. (EST).

Explanatory Note

This news release presents statistics from two major surveys, the Current Population Survey (household survey) and the Current Employment Statistics Survey (establishment survey). The household survey provides the information on the labor force, total employment, and unemployment that appears in the A tables, marked HOUSEHOLD DATA. It is a sample survey of about 59,500 households that is conducted by the Bureau of the Census with most of the findings analyzed and published by the Bureau of Labor Statistics (BLS).

The establishment survey provides the information on the employment, hours, and earnings of workers on nonagricultural payrolls that appears in the B tables, marked ESTABLISHMENT DATA. This information is collected from payroll records by BLS in cooperation with State agencies. The sample includes over 290,000 establishments employing over 38 million people.

For both surveys, the data for a given month are actually collected for and relate to a particular week. In the household survey, unless otherwise indicated, it is the calendar week that contains the 12th day of the month, which is called the survey week. In the establishment survey, the reference week is the pay period including the 12th, which may or may not correspond directly to the calendar week.

The data in this release are affected by a number of technical factors, including definitions, survey differences, seasonal adjustments, and the inevitable variance in results between a survey of a sample and a census of the entire population. Each of these factors is explained below.

Coverage, definitions, and differences between surveys

The sample households in the household survey are selected so as to reflect the entire civilian noninstitutional population 16 years of age and older. Each person in a household is classified as employed, unemployed, or not in the labor force. Those who hold more than one job are classified according to the job at which they worked the most hours.

People are classified as *employed* if they did any work at all as paid civilians; worked in their own business or profession or on their own farm; or worked 15 hours or more in an enterprise operated by a member of their family, whether they were paid or not. People are also counted as employed if they were on unpaid leave because of illness, bad weather, disputes between labor and management, or personal reasons. Members of the Armed Forces stationed in the United States are also included in the employed total.

People are classified as unemployed, regardless of their eligibility for unemployment benefits or public assistance, if they meet all of the following criteria: They had no employment during the survey week; they were available for work at that time; and they made specific efforts to find employment sometime during the prior 4 weeks. Persons laid off from their former jobs and awaiting recall and those expecting to report to a job within 30 days need not be looking for work to be counted as unemployed.

The labor force equals the sum of the number employed and the number unemployed. The unemployment rate is the percentage of unemployed people in the labor force (civilian plus the resident Armed Forces). Table A-5 presents a special grouping of seven measures of unemployment based on varying definitions of unemployment and the labor force. The definitions are provided in the table. The most restrictive definition yields U-1 and the most comprehensive yields U-7. The overall unemployment rate is U-5a, while U-5b represents the same measure with a civilian labor force hase.

Unlike the household survey, the establishment survey only counts wage and salary employees whose names appear on the payroll records of nonagricultural firms. As a result, there are many differences between the two surveys, among which are the following:

— The household survey, although based on a smaller sample, reflects a larger segment of the population; the establishment survey excludes agriculture, the self-employed, unpaid family workers, private household workers, and members of the resident Armed Forces;

-- The household survey includes people on unpaid leave among the employed; the establishment survey does not;

- The household survey is limited to those 16 years of age and older; the establishment survey is not limited by age;

— The household survey has no duplication of individuals, because each individual is counted only once; in the establishment survey, employees working at more than one job or otherwise appearing on more than one payroll would be counted separately for each appearance.

Other differences between the two surveys are described in "Comparing Employment Estimates from Household and Payroll Surveys," which may be obtained from the BLS upon request.

Seasonal adjustment

Over the course of a year, the size of the Nation's labor force and the levels of employment and unemployment undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. For example, the labor force increases by a large number each June, when schools close and many young people enter the job market. The effect of such seasonal variation can be very large; over the course of a year, for example, seasonality may account for as much as 95 percent of the month-to-month changes in unemployment.

Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make nonseasonal developments, such as declines in economic activity or increases in the participation of women in the labor force, easier to spot. To return to the school's-out example, the large number of people entering the labor force each June is likely to obscure any other changes that have taken place since May, making it difficult to determine if the level of economic activity has risen or declined. However, because the effect of students finishing school in previous years is known, the statistics for the current year can be adjusted to allow for a comparable change. Insofar as the seasonal adjustment is made correctly, the adjusted figure provides a more useful tool with which to analyze changes in · economic activity.

Measures of labor force, employment, and unemployment contain components such as age and sex. Statistics for all employees, production workers, average weekly hours, and average hourly earnings include components based on the employer's industry. All these statistics can be seasonally adjusted either by adjusting the total or by adjusting each of the components and combining them. The second procedure usually yields more accurate information and is therefore followed by BLS. For example, the seasonally adjusted figure for the labor force is the sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force.

The numerical factors used to make the seasonal adjustments are recalculated regularly. For the household survey, the factors are calculated for the January-June period and again for the July-December period. The January revision is applied to data that have been published over the previous 5 years. For the establishment survey, updated factors for seasonal adjustment are calculated only once a year, along with the introduction of new benchmarks which are discussed at the end of the next section.

Sampling variability

Statistics based on the household and establishment surveys are subject to sampling error, that is, the estimate of the number of people employed and the other estimates drawn from these surveys probably differ from the figures that would be obtained from a complete census, even if the same questionnaires and procedures were used. In the household survey, the amount of the differences can be expressed in terms of standard errors. The numerical value of a standard error depends upon the size of the sample, the results of the survey, and other factors. However, the numerical value is always such that the chances are approximately 68 out of 100 that an estimate based on the sample will differ by no more than the standard error

from the results of a complete census. The chances are approximately 90 out of 100 that an estimate based on the sample will differ by no more than 1.6 times the standard error from the results of a complete census. At approximately the 90-percent level of confidence-the confidence limits used by BLS in its analyses-the error for the monthly change in total employment is on the order of plus or minus 328,000; for total unemployment it is 220,000; and, for the overall unemployment rate, it is 0.19 percentage point. These figures do not mean that the sample results are off by these magnitudes but, rather, that the chances are approximately 90 out of 100 that the "true" level or rate would not be expected to differ from the estimates by more than these amounts.

Sampling errors for monthly surveys are reduced when the data are cumulated for several months, such as quarterly or annually. Also, as a general rule, the smaller the estimate, the larger the sampling error. Therefore, relatively speaking, the estimate of the size of the labor force is subject to less error than is the estimate of the number unemployed. And, among the unemployed, the sampling error for the jobless rate of adult men, for example, is much smaller than is the error for the jobless rate of teenagers. Specifically, the error on monthly change in the jobless rate for men is .26 percentage point: for teenagers, it is 1.25 percentage points.

In the establishment survey, estimates for the 2 most current months are based on incomplete returns; for this reason, these estimates are labeled preliminary in the tables. When all the returns in the sample have been received, the estimates are revised. In other words, data for the month of September are published in preliminary form in October and November and in final form in December. To remove errors that build up over time, a comprehensive count of the employed is conducted each year. The results of this survey are used to establish new benchmarks-comprehensive counts of employment-against which month-to-month changes can be measured. The new benchmarks also incorporate changes in the classification of industries and allow for the formation of new establishments

Additional statistics and other information

In order to provide a broad view of the Nation's employment situation, BLS regularly publishes a wide variety of data in this news release. More comprehensive statistics are contained in Employment and Earnings, published each month by BLS. It is available for \$8.50 per issue or \$22.00 per year from the U.S. Government Printing Office, Washington, D.C., 20204. A check or money order made out to the Superintendent of Documents must accompany all orders,

Employment and Earnings also provides approximations of the standard errors for the household survey data published in this release. For unemployment and other labor force categories, the standard errors appear in tables B through J of its "Explanatory Notes." Measures of the reliability of the data drawn from the establishment survey and the actual amounts of revision due to benchmark adjustments are provided in tables M. O, P, and Q of that publication.

Table A-1. Employment statum of the population, including Armod forces in the United States, by sex

(Numbers in thousands)

	Net eccently edjusted			Seasonally adjusted ¹					
Exployment status and sax	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1 1987 (July 1987	Aug. 1927	Sept. 1937	Oct. 193
TOTAL									
Noninstitutional population ^a	182.935	184.904	185.052	182,935	184,421	184,605	184,738	184,904	125,
Labor force?	120,448	121,627	122,485	120,163	121,235	121,672	122,038	121,604	122
Participation rate ¹	65.8	65.8	66. 2	65.71	65.7	65.9	66.1	65. B	l
Total employed2	112,606	114,770	115,639	111,941	113,975	114,447	114,517	114,515	114
Employment-population ratio*	61.6	62.1	62.51	61. 21	61.8	6Z. D	62.Z	61.9	
Resident Armed Forces	1,749	1,7431	1,741	1,7491	1,718	1,720	1,736	1,743	1
Civilian employed	110,857	113,027	113,898	110,192	112,257	112.727	113,081	112,//2	113
Agriculture	3,190	3,277	3,297	3,162	3,1/8	3.219	3,092	3,1/0	
Nonagricultural industries	107,666	109,750	110,601	107,030	109,079	109,508	103,383	103,605	103
Unemployed	7,842	6,857	6,845	8,2221	7,260	1.22	1.221	7,089	
Unemployment rate [*]	6.5	5.6	5.6	D. 8	6.0	5.9	5. 3	5.0	
Not in labor force	62,487	63,2//	62,58/	62,112	63,18/	02,933	02,700	03,300	
" Hen, 16 years and over							i	1	
Noninstitutional population ⁴	87,682	88,683	88,756	87,682	88,442	88,534	88,598	88,683	1 84
Labor forre ³	1 66,948	67,639	67,820	67,130	67,556	67,656	67,925	67,736	6
Participation rate*	76.4	76.3	76.4	76.6	76,4	76.4	1 76.7	76.4	! .
Total employed ²	62,790	64,203	64,272	62,5651	63,471	63,715	63,918	63,939	1 6
Employment-population ratio*	į 71.6	72.4	72.4	71.4	71.8	72.0	72.1	72.1	1
Resident Armed Forces	1,590	1,581	1,580	1,590	1,559	1,561	1,575	1,581	! .
Civilian employed	61,200	62,622	62,692	60,975	61,912	62,154	62,343	62,358	0
Unemployed	4,159	3,437	3,549	4,565	4,085	3,941	4.007	1 3,148	
Unemployment rate ⁴	6. Z	5.1	5.2	6.B	ј 6.0 I	1 5.5		3.0	1
Women, 16 years and over			į		i i	İ			ĺ
Noninstitutional population ²	95,253	96,221	96,295	95,253	95,979	96,071	96,140	96,221	į 🤋
Labor force*	1 53,500	53,987	54,664	1 53,033	53,679	1 54,016	54,11	1 23,868	
Participation rate'	1 56.2	56.1	56.8	55.7	55.9	56.2	56.3	56.0	
Total employed ³	49,816	50,567	51,367	49,376	50,504	50,733	1 50,899	(1 50,576	2
Employment-population ratio*	1 52.3	1 52.6	53.3	51.8	52.6	52.8	34.3	1 32.0	1
Resident Armed Forces	159	162	161	159	159	1 50 534	10	102	
Civilian employed	49,657	1 50,405	1 51,206	1 4.21	0,543	1 30,3/4	30,730	1 1 201	1 7
Unemployed	1 3,683	1 3,420	3,297	1 3,657	1 3,1/2	3,283	3,21	1 3,291	
Unemployment rate ¹	. 6.9	6.3	1 6.0	1 0.9	1 3.3	1 0.1		, e. 1	

¹ The population and Armed Forces figures are not adjusted for seasonal variation; therefore, identical numbers appear in the undjusted data seasonally adjusted columna ¹ Includes members of the Armed Forces stationed in the United States.

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¹ Labor force as a percent of the noninstitutional popula-

Labor force as a percent or the noninstitutional pupil-tion.
 Total employment as a percent of the noninstitutional population.
 Unemployment as a percent of the labor force (including the resident Armed Forces).

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Table A-2. Employment status of the civilian population by sax and age

(Numbers in thousands)

	Not sea	ionelly a	djusted	Seasonally adjusted ¹						
Employment status, sex, and ege	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	 Sept. 1987	Oct. 1987	
TOTAL										
Civilian noninstitutional population Civilian labor force. Participation rate. Esployed. Unemployed. Unemployment rate. Men. 20 years and over	181,186 118,699 65,5 110,857 61,2 7,842 6,6	183,161 119,884 65.5 113,027 61.7 6,857 5.7	183,311 120,744 65.9 113,898 62.1 6,845 5.7	181,186 118,414 65,4 110,192 60.8 8,222 6.9	182,703 119,517 65.4 112,257 61.4 7,260 6.1	182,885 119,952 65.6 112,727 61.6 7,224 6.0	183,002 120,302 65.7 113,081 61.8 7,221 6.0	183,161 119,861 65.4 112,772 61.6 7,089 5.9	183,311 120,361 65.7 113,187 61.7 7,174 6.0	
Civilian noninstitutional population Civilian labor force Emp Participation rate. Emp Organit-population rate. Agriculture. Nonagricultural industries. Unemployed. Unemployed.	78,802 61,471 78.0 58,015 73.6 2,357 \$5,658 3,456 5.6	79,740 62,157 77.9 59,373 74.5 2,433 56,941 2,783 4.5	79,807 62,317 78.1 59,442 74.5 2,403 57,040 2,875 4.6	78,802 61,409 77,9 57,595 73,1 2,297 55,298 3,814 6.2	79,536 62,057 78.0 58,620 73.7 2,307 56,313 3,437 5.5	79,625 62,116 78.0; 58,793 73.8; 2,343 56,450; 3,323 5.4;	79,668 62,053 77.9 58,818 73.8 2,254 56,254 3,235 5.2	79,740 62,045 77.8 58,957 73.9 2,355 56,601 3,089 5.0	79,807 62,160 77.9 58,997 2,354 56,643 3,163 5.1	
Womm, 20 years and over Civilian noninstitutional population Civilian labor force. Participation rate. Esployed. Agriculture. Nonsgricultura industries. Unesployed. Unesployed.	87,856 49,629 56.5 46,585 53.0 628 45,957 3,044 6.1	88,785 50,182 56.5 47,349 53.3 615 46,734 2,833 5.6	88,843 50,721 57.1 48,076 54.1 670 47,407 2,644 5.2	87,856 49,014 55.8 46,020 52.4 612 45,408 2,994 6.1	88,546 49,714 56,1 47,126 53,2 615 46,512 2,588 5,2	88,632 49,971 56.4 47,288 53.4 619 46,669 2,683 5.4	88,685 49,989 56.4 47,324 53.4 603 46,722 2,664 5.3	88,785 49,882 56.2 47,179 53.1 585 46,594 2,703 5.4	88,843 50,098 56.4 47,493 53.5 648 46,845 2,605 5.2	
Both sexes, 16 to 19 years										
Civilan nonissitutional population Civilan labor force Participation rate. Employment-population ratio* Agriculture. Nonsgriculture industries. Unemployment rate.	14,527 7,598 52.3 6,257 43.1 205 6,052 1,341 17.7	14,637 7,545 51.5 6,305 43.1 229 6,076 1,240 16.4	14,661 7,706 52.6 6,379 43.5 225 6,155 1,327 17.2	14,527 7,991 55.0 6,577 45.3 253 6,324 1,414 17.7	14,621 7,746 53.0 6,511 44.5 257 6,254 1,235 15.9	14,628 7,865 53.8 6,647 45.4 258 6,389 1,218 1,218 15.5	14,649 8,260 56,4 6,939 47,4 236 6,703 1,321 16.0	14,637 7,933 54.2 6,636 45.3 2301 6,406 1,297 16.3	14,661 8,103 55.3 6,697 45.7 282 6,415 1,406 17.4	

¹ The population figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unad-stitutional population.

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· . . Table A-3. Employment statue of the civilian population by race, sex, ege, and Mispanic origin

multiumant attation, para, part, par- and	Not seas	enally ed	justed						
Hispanic erigin	Oct. 1986	Sept. 1987	Oct. 1987	Det. 1925	June 1987	July 1927	Aug. 1937	Sept. 1987	Oct. 1987
WAITE			1		.				
vilian noninstitutional population	155,856	157,242	157,342	155,856	156,9301	157,0581	157,134	157,2421	103,64
Participation rate	65.8	65.7	66.1	65.61	65.7	55.81 97 9581	55.91 92.2991	65.7 97.995	65. 98.28
Employed	62.0	62.5	62.8	61.7	62.3	62.4	62.6	62.3	62
Unemployed Unemployment rate	5,802 5.7	5,033	5,053 4.9	6,150) 6.0]	5,390	5.314	5,315	5. 1	5.3
Nen, 20 years and over	63 741	64 276	54 399	53 757	54 213	54.214	54.164	54.152	54.3
Participation rate	78.3	78.3	78.4	78.3	78.4	78.3	78.2	78.1	78
Employed.	51,157	52,133	52,167	50,8451	51,581	52,682	74.7	74.7	74
Unemployed. Unemployed.	2,584 4.8	2,103 3.9	2,232	2,912 5.4	2,632 4,9	2,532 4.7	2,449	2,382	2,5
Namen, 26 years and ever	42 157	47 556	42 041	41 598	42 159	42.280	42.418	42.312	42.3
Participation rate	56.0	56.0	56.5	55.2	55.6	55.7	55.9	55.7	5
Employed.	39,958 53.0	40,557	41,089	39,431	40,318	53.2	53.4	53.2	5
Unemployed	2,199	1,999	1,854 4.3	2,167 5.2	1,841 4.4	1,902 4.5	1,882	1,917	1,
Both mexes, 16'to 19 years	6 607	6 502	6.592	6.942	6.734	6.778	7,033	6,814	6,
Participation rate	55.5	54.4	55.2	58.4	56.3	56.6	58.8	57.0	<u>ئ</u>
Employed	5,588	46.6	47.1	49.4	48.6	49.3	50.6	48.8	4
Unemployed	1,019	931	967	1 1.071	917	880 13.0	984	985	'i
Men.	15.5	14.5	14.8	15.7	14.5	13.0	15.4	15.3	1
Women	1 15.3	li 14. 2	1 14.6	1 12.5	1 12.7	l 13.0	1 12.3	1 13.01	•
BLACK	1	Ì		1	·				
vilian noninstitutional population	20,089	0 20,426 0 13,018	20,453	20,089	20,341	1 20,3/3	1 20,396	13,027	13.
Participation rate	63.	63.7	64, 3	63.3	63.2	64.0	64.7	63.8	11 ⁶
Employed	54.1	i 11,3%	56.6	54.2	55.2	56.0	56.7	55.9	
Unemployed	1,819	1,619	1,578	1,825	1,640	1,647	1,630	1,599	1
Unemployment rete	. 14.3	12.4	1 12.0	1 14.3	1			1	
Nen, 20 years and ever Civilian labor force	5,94	6.03	6,01	5,932	6,00	6,089	6,075	6,025	6
Participation rate	5,17	5,46	5,45	5,153	. 5, 31	5,40	5,43	5,425	j 5,
Employment-population ratio*	65.	1 67.1	67.	64.8	8) 65.9 N 691	684	647 5 647	600	; '
Unemployment rate	12.	8 9.1	9.9	ij 13. i	i _11.9	5 11.3 1	3 10.7	/ 10.0	l
tivilian labor force	5,96	2 6,11	6,24	5,909	6,01	6,12	6,12	6.074	6
Participation rate	. 59. . 5.19	6 60.1 9 5,34	21 61. 5 5,53	5,178	B 5,34	5,42	5 5,42	5,350	5
Employment-population ratio*	52.	0 52.	51 54.	lį 51.8 7 71	Bj 52.1	9 53. 9 69	51 53.5 91 692	5 52.7 21 723	
Unemployed Unemployment rate	12.	8 12.	i 11.	12.	ų <u>11.</u>	i 11.	4 11.	3 11.9	1
Both sexes, 16 to 19 years		8 86	31 90	87	9 84	4 83	3 99	i 51 928	
Participation rate	. 38.	2 39.	Bj 41.	4 41.	1 39.	0 38. 31 57	4 45.1 1 70	9 42.7 4 652	
Employed	. 24.	5 27.	2 27.	5 26.	3 26.	0 26.	3 32.	5 30.0	
Unemployed	. 29	3 27	2 30	2 31 6 35.1	5j 28 81 33.	1 26 3 31.	2 29 5 29.	2 29.7	
Nen.	. 38.	8 32.	9 32.	5 37.	8 31.	5 31.	5 32.	6 30.9	1
Women	. 32.	8 30.	2 34. 	7 33.	8 35.	1 31.	•	31 60.7	
	1,7,4	12.94	5 13.00	3 12.46	9 12.84	8 12.88	12,92	5 12,96	13
Civilian labor force	8.2	8,55	5 8.69	5 8,20	0 8.45	2 8,41	1 8.54	4 8,56	51 8 11
Restriction rate	. _ 66.	1 66.	J 66.	7 05.	51 7 71	01 7 74	4 7.86	4 7.86	, ii
Employed	. 1 . 7.4	101 7.34		11 1,34					
Employed. Employment-population ratio ²	. 59	4 61.	1 61.	5 58.	9 60.	2 60.	1 60.	8 60. Di 69	7 j 9 i

¹ The population figures are not adjusted for sessonal variation; therefore, identical numbers appear in the unad-justed and sessonally adjusted columns. (Villan employment as a percent of the civilian nonie-stitutional population.

NDTE: Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented and Hisratics are included in both the white and black population groups.

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Table A-4. Selected employment indicators

(in thousands)

Category	Not sea	sonally a	djusted	Seatonally edjusted							
	Oct. 1986	Sept. 1987	0ct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1937	0ct. 1987		
CHARACTERISTIC		1	1	1							
Civilian employed, 16 years and over Married men, spouse present	110,857 40,065 27,986 5,971	113,027 40,693 28,324 6,084	 113,898 40,905 28,685 6,174	110,192 39,780 27,323 6,016	112,257 40,057 28,458 5,939	 112,727 40,241 28,426 6,013	113,081 40,260 28,196 6,108	112,772 40,370 27,988 6,164	1113,187 40,580 28,013 6,205		
Agriculture: Wage and salary workers Self-amployed workers Unpaid family workers Nonagricultural industries:	1,532 1,496 163	1.670 1,477 130	1,673 1,487 136	1,562 1,451 1,451	1,614 1,386 165	1,619 1,429 154	1,566 1,363 159	1,615 1,417 134	1,716 1,441 136		
Vage and salary workers. Government. Private industries. Private households. Other industries. Self-employed workers. Unpaid family workers.	99,253 16,470 82,783 1,244 81,539 8,148 266	101,229 16,864 84,365 1,088 83,277 8,217 303	101,883 17,288 84,595 1,257 83,338 8,478 240	98,846 16,264 82,582 1,216 81,366 7,993 265	100,420 16,956 83,464 1,146 82,318 8,328 8,328	100,838 16,931 83,907 1,224 82,683 8,205 268	101,334 16,760 84,574 1,172 83,402 8,216 250	101,221 16.915 84,306 1,028 83,218 83,218 8,184	101,503 17,083 84,420 1,235 83,185 8,320		
PERSONS AT WORK PART TIME ¹			1	ł							
All industries: Part time for economic reasons Slack work. Could only find part-time work. Voluntary part time	5,437 2,443 2,636 15,212	4,937 2,070 2,497 14,485	5,129 2,346 2,496 15,500	5,740 2,481 2,826 14,178	5,184 2,317 2,579 15,054	5,508 2,456 2,722 14,422	5,262 2,515 2,494 14,634	5,241 2,212 2,702 14,313	5,416 2,389 2,664 14,459		
Nonagricultural industries: Part time for economic reasons Slack work Could only find part-time work Voluntary part time	5,198 2,273 2,574 14,764	4,650 1,899 2,405 14,041	4,856 2,162 2,412 15,058	5,450 2,314 2,739 13,736	4,918 2,155 2,477 14,485	5,235 2,295 2,634 13,946	4,998 2,306 2,433 14,168	4,968 2,038 2,628 13,930	5,101 2,211 2,555 14,007		

¹ Excludes persons "with a job but not at work" during the survey period for such reasons as vacation, iliness, or industrial dispute.

Table A-5. Range of unemployment measures based on varying definitions of unemployment and the labor force, seasonally adjusted

(Percent)

			Quart	erly av		Honthly data				
	Neasure	19	86		1987		1987			
		ш	 IV		1 11	1 111	Aug.	Sent.	Det	
U-1	Persons unemployed 15 weeks or longer as a percent of the civilian labor force.	1.9	1.8	1.8	1.7	1.6	1.6	1.6	1.5	
U-2	Job losers as a percent of the civilian labor force	3.4	3.3	3.3	3.0	2.8	2.8	2.8	2.9	
U-3	Unemployed persons 25 years and over as a percent of the civilian labor force	5.4	5.4	5.1	4.7	4.6	4.7	4.6	4.6	
U-4	Unemployed full-time jobseekers as a percent of the full-time civilian labor force	6.6	6.5	6.3	5.9	5.6	5.6	5.4	5.5	
V~5a	Total unemployed as a percent of the labor force, including the resident Armed Forces	6.8	6.8	6.6	6.1	5.9	5.9	5.8	5.9	
V-56	Total unemployed as a percent of the civilian labor force	6.9	6.9	6.7	6. Z	6.0	6.0	5.9	6.0	
U-6	Total full-time jobseekers plus 1/2 part-time jobseekers plus 1/2 total on part time for economic reasons as a percent of the civilian labor force less 1/2 of the part-time labor force	[.] 9.3	9.2	9.0	8.4	8. 2	8.2	8.0	8.2	
U-7	Total full-time jobseekers plus 1/2 part-time jobseekers plus 1/2 total on part time for economic reasons plus discouraged workers as a percent of the civilian labor force plus discouraged workers less 1/2 of the part-time labor force	10. 2	10. 2	10.0	9.3	9.0	N. A.	N. A.	N. A.	

N.A. = not available.

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Table A-6. Selected unemployment indicators, seasonally adjusted

Catanan	ا سیسینی (۱۰	loyed per thousand	sons s)	." Unemploycent rates ²						
Category .	Oct. 1986	Sept. 1987	Oct. 1987	0ct. 1985	Jure 1987	3 J ¹ y 1987	407. 1927	Sopa. 1987	Cct. 1997	
CHARACTERISTIC										
otal, 16 years and over. Men, 16 years and over. Men, 20 years and over. Vomen, 16 years and over. Momen, 20 years and over. Both saves, 16 to 19 years.	8,222 4,565 3,814 3,657 2,994 1,414	7,089 3,798 3,089 3,291 2,703 1,297	7,174 3,893(3,163) 3,281) 2,605(1,406)	6.9 7.0 6.2 6.9 6.1 17.7	5.1 6.2 5.5 5.9 5.2 15.9	6.0 6.0 5.4 6.1 5.4 15.5	6.0 5.0 5.2 6.0 5.3 16.0	5.9 5.7 5.0 6.1 5.4 16.3	6.0 5.9 5.1 6.1 5.2 17.4	
Married men, spouse present Married women, spouse present Yomen who maintain families	1,898 1,430 590	1,523 1,219 597	1,5761 1,2081 6101	4.6 5.0 8.9	4.0 4.0 9.7	3.8 4.2 9.4	3.7 4.3 9.0	3.6 4.2 8.8	3.7 4.1 9.0	
Full-time workers Part-time workers Labor force time lost ³	6,688 1,563	5,587 1,473 	5,718 1,465 	6,6 9,2 7,8	5.9 6.9 7.1	5.7 7.9 6.9	5.6 8.2 6.8	5.4 8.5 6.7	5.5 8.5 6.8	
INDUSTRY									1	
Nonagricultural private wage and salary workers Kining. Construction. Manufacturing. Durable goods. Nondurable goods. Transportation and public utitities. Wholesale and reruical trade. Finance and service industries. Government workers. Agricultural wage and salary workers.	6,233 141 860 1,590 958 632 326 1,656 1,656 1,660 622 211	5,300 59 752 1,251 727 524 245 1,456 1,537 600 147	5,262 77 694 1,253 669 584 267 1,481 1,490 581 581 209	7.0 14.5 13.8 7.3 7.2 7.3 5.2 7.4 5.4 3.7 11.9	6.2 10.8 11.6 5.6 5.3 6.0 5.0 7.2 4.8 1.4.8 1.4.8	6.1 7.8 10.7 6.0 5.9 4.4 6.8 5.1 3.4 21.3	5.9 8.9 11.2 5.5 5.5 5.5 4.3 7.0 4.6 3.9 10.8	5.9 7.0 12.1 5.7 5.6 5.9 4.0 6.4 6.4 6.4 6.4 8.3	5.9 8.5 11.4 5.7 5.2 6.5 4.4 6.4 3.3	

¹ Unemployment as a percent of the civilian labor force. ² Aggregate hours lost by the unemployed and persons on part time for economic reasons as a percent of potentially available labor force hours.

Table A-7. Duration of unemployment

(Numbers in thousands)

	Not seas	enelly ad	justed	Sessonally adjusted						
Weeks of unemployment	Oct.	Sept.	Oct.	Oct.	June	July	Aug.	Sept.	Oct.	
	1985	1987	1987	1986	1987	1987	1987	1987	1987	
_ DURATION		_								
Less than 5 weeks	3,411	3,391	3,211	3,418	3,085	3,168	3,197	3,230	3,227	
	2,463	1,764	2,032	2,563	2,114	2,141	2,170	1,932	2,121	
	1,968	1,701	1,602	2,168	2,055	1,907	1,894	1,920	1,759	
	840	744	712	950	998	945	814	909	799	
	1,128	957	891	1,218	1,057	962	1,070	1,011	959	
Average (mean) duration, in weeks	14.8	13.9	13.7	15.2	14.8	14.0	14.3	14. 2	14.0	
Hedian duration, in weeks	6.4	5.1	5.7	7.0	6.7	6.7	6.4	5. 7	6.2	
PERCENT DISTRIBUTION										
Total unemployed.	100. 0	100.0	100.0	100.0	100. 0	100.0	100.0	100. D	100.0	
Less than 5 weeks.	43. 5	49.5	46.9	41.9	42. 5	43.9	44.1	45. 6	45.4	
5 to 14 weeks.	31. 4	25.7	29.7	31.5	29. 1	29.7	29.9	27. 3	29.8	
15 weeks and over.	25. 1	24.8	23.4	26.6	28. 3	26.4	26.0	27. 1	24.7	
15 to 26 weeks.	10. 7	10.9	10.4	11.7	13. 8	13.1	11.2	12. 8	11.2	
27 weeks and over.	14. 4	14.0	13.0	14.9	14. 6	13.3	14.8	14. 3	13.5	
	Weeks of unseployment DURATION Less than 5 weeks	Meets of unseployment Not sees DURATION 1925 Less than 5 weeks 1,411 5 to 14 weeks 2,453 15 weeks 1,421 2 to 14 weeks 1,421 15 to 26 weeks 1,958 15 to 26 weeks 1,958 27 weeks and over 1,958 28 weeks 1,128 Median duration, in weeks 6,4 PRECENT DISTRIBUTION 100.0 Less than 5 weeks 43,5 5 to 14 weeks 31,4 15 to 26 weeks 10,1 15 to 26 weeks 10,2 15 to 26 weeks 13,4	Not sessenally ad Meets of unexployment Oct. Sept. DURATION 1955 1950 Less than 5 weeks. 2,461 1,764 15 to 14 weeks. 1,611 3,391 15 to 26 weeks. 1,668 1,764 15 to 26 weeks. 1,268 1,764 15 to 26 weeks. 1,128 957 Average (mean) duration, in weeks. 6.4 5.1 Placteur Distribution 100.0 100.0 Less than 5 weeks. 31.4 25.5 15 to 26 weeks. 31.4 25.2 15 to 26 weeks. 100.0 100.0 15 to 26 weeks. 100.7 10.5 15 to 26 weeks. 10.7 10.7 15 weeks and over. 25.1 24.8 15 to 26 weeks. 10.7 10.7 10.7 10.7 10.7 10.7	Not sessenally adjusted Not Sept. Oct. DURATION 1955 1957 Less than 5 weeks. 1,411 3,391 3,211 5 to 14 weeks. 2,463 1,764 2,032 15 weeks and over. 1,963 1,701 1,602 27 weeks and over. 1,863 1,764 2,032 15 to 25 weeks. 1,120 957 691 Average (mean) duration, in weeks. 6.4 5.1 5.7 Peacteur Distribution 100.0 100.0 100.0 100.0 Less than 5 weeks. 43.5 43.5 43.5 45.7 71 sweets and over. 25.1 25.4 27.7 10.7 15 to 25 weeks. 13.4 25.7 27.7 10.7 15 to 25 weeks. 13.4 25.7 27.7 15.7	Not seesanally adjutted Not Sept. Oct. 0ct. Sept. Oct. 1985 1987 1987 1985 1987 1987 1985 1987 1987 1985 1986 1987 1985 1986 1987 1985 1986 1987 1998 1987 1986 1998 1987 1986 1998 1997 1,62 1998 1997 1,62 1998 1997 1,62 1998 1997 1,62 1998 1997 1,62 1998 1997 1,218 Average (mean) duration, in wests. 6.4 5.1 100.0 100.0 100.0 100.0 Petcent pistersettet 114.8 13.9 13.7 100.0 100.0 100.0 100.0 100.0 1010.0 100.0 100.0 100.0 100.0 <	Not sessenally adjurted adjurted Unexty of unexployment Oct. Sept. Oct. 0ct. 1396 Oct. 1396 DURATION 1385 1597 1507 Less than 5 weets	Not sessenally adjusted Bessenally Usets of unexployment Oct. Oct. Oct. Oct. June July DUBATION JUSS JSS JSS	Not sessenally adjusted Sessenally adjusted Sessenally adjusted Units of unemployment 0ct. 0ct. 0ct. 0ct. 0ct. 1967 1987 1987 1987 DURATION 1985 1587 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1	Not sessenally adjusted Sessonally adjusted Unexty of unemployment 0ct. Sept. 0ct. 018 0ct. 0186 01987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987 1987	

Table A-8. Reason for unemployment

(Numbers in thousands)

	Not sea	sonally a	djusted	Seasonally adjusted						
Reson	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	1 Sept. 1987	Oct. 1987	
NUMBER OF UNERPLOYED										
Job losers. On layoff. Other job losers. Job leavers. Reentrants. New entrants.	3,597 860 2,737 1,090 2,281 874	2,942 643 2,299 1,086 1,975 854	3,082 768 2,314 1,030 1,873 861	3.984 1.072 2.912 1.027 2.190 972	3,565 901 2,664 949 1,969 798	3,522 918 2,604 1,007 1,913 801	3,339 850 2,489 1,006 1,997 829	3,321 810 2,511 995 1,885 893	3,447 956 2,491 956 1,794 961	
PERCENT DISTRIBUTION										
Total unemployed. Job losers. On layoff. Job losers. Job losers. Job losers. Rentrants.	100.0 45.9 11.0 34.9 13.9 29.1 11.1	100.0 42.9 9.4 33.5 15.8 28.8 12.5	100.0 45.0 11.2 33.8 15.0 27.4 12.6	100.0 48.7 13.1 35.6 12.6 26.8 11.9	100.0 49.0 12.4 36.6 13.0 27.0 11.0	100. 0 48. 6 12. 7 36. 0 13. 9 26. 4 11. 1	100.0 46.6 11.9 34.7 14.0 27.9 11.6	100.0 46.9 11.4 35.4 14.0 26.6 12.5	100. 0 48. 2 13. 4 34. 8 13. 4 25. 1 13. 4	
UNEMPLOYED AS A PERCENT OF THE Civilian Labor Force										
Job losers	3.0 .9 1.9 .7	2.4 .9 1.6 .7	2.5 .9 1.6 .7	3.4 .9 1.8 .8	3.0 .8 1.6 .7	2.9 -8 1.6 -7	2.8 .8 1.7 .7	2.8 .8 1.6 .7	2.9 .8 1.5 .8	

Table A-9. Unemployed persons by sex and age, seasonally adjusted

Sex and age	Number of unemployed persons (in thousands)			Unexployment retes							
	Oct.	Sept.	Oct.	Oct.	June	July	Aug.	Sept.	Oct.		
	1986	1987	1987	1986	1987	1987	1987	1987	1987		
Total, 16 years and over. 16 to 24 years. 16 to 17 years. 18 to 19 years. 20 to 24 years. 25 to 54 years. 25 to 54 years. 16 to 17 years. 26 to 19 years. 27 years and over. 28 to 54 years. 16 to 19 years. 16 to 19 years. 16 to 19 years. 16 to 19 years. 20 to 24 years. 20 to 24 years. 25 to 54 years. 25 to 54 years. 25 to 19 years. 25 to 24 years. 25 to 34 years. 35 years. 35 years	8,222 3,022 1,414 647 766 1,608 5,197 4,597 603 4,565 1,615 751 344 409 864 2,945 2,558 385	7,089 2,675 1,297 578 707 1,378 4,433 3,901 502 3,798 1,416 709 309 309 309 307 2,402 2,101 2,76	7,174 2,681 1,406 672 1,275 4,016 4,016 4,893 1,424 730 3,893 1,424 730 3,893 1,424 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,016 4,0164,016 4,016 4,016 4,016 4,016 4,016 4,016 4,0164,016 4,016 4,016 4,0164,016 4,016 4,016 4,016 4,0164,016 4,016 4,016 4,016 4,0164,016 4,016 4,016 4,0164,016 4,016 4,016 4,016 4,0164,016 4,016 4,0164,016 4,016 4,0164,016 4,016 4,0164,016 4,016 4,0164,016 4,016 4,0164,016 4,016 4,0164,016 4,016 4,0164,016 4,016 4,0164,016 4,016 4,0164,016 4,0164,016 4,016 4,0164,016 4,016 4,0164,016 4,0164,016 4,016 4,0164,016 4,016 4,0164,016 4,016 4,0164,016 4,0164,016 4,0164,016 4,016 4,0164,016 4,0164,016 4,0164,016 4,0164,016 4,0164,016 4,0164,016 4,0164,016	6.9 13.0 17.7 19.3 16.5 5.5 5.7 4.1 7.0 13.2 18.2 19.8 17.0 10.7 5.5 5.7 4.4	6.1 12.2 15.9 18.7 10.2 4.9 3.2 16.4 18.7 10.7 18.7 10.7 3.2	6.0 11.7 15.5 7.1 13.9 9.8 4.7 5.0 3.1 6.0 11.9 15.5 15.6 13.8 10.0 4.7 4.9 3.4	6.0 11.6 11.6 16.0 18.0 14.7 9.1 14.7 5.0 3.2 6.0 18.0 12.0 1.2 13.2 1.2 14.7 3.4	1 5.9 1 11.7 16.3 17.4 15.4 9.3 4.7 3.4 5.7 11.9 17.3 18.3 16.0 9.1 9.3 4.6 3.4 3.4 5.7 3.4 5.7 3.4 3.2 3.4	6.0 11.8 17.4 20.9 8.7 4.6 8.7 4.9 3.2 5.9 12.05 12.5 12.5 14.5 4.5 3.1		
Women, 16 years and over. 16 to 24 years 16 to 19 years 18 to 17 years 20 to 24 years 20 to 24 years 25 to 54 years 25 to 54 years 55 years and over 55 years and over	3,657	3,291	3,281	6.9	5.9	6.1	6.0	6, 1	6.1		
	1,407	1,259	1,257	12.7	11.7	11.6	10.7	11, 6	11.5		
	663	588	676	17.2	15.4	15.4	13.9	15, 4	17.2		
	303	269	347	18.6	18.9	17.7	15.3	16, 5	20.3		
	357	320	328	16.0	13.0	14.0	12.9	14, 6	14.8		
	744	671	581	10.3	9.7	9.5	8.9	9, 5	8.3		
	2,252	2,031	2,028	5.4	4.4	4.7	4.7	4, 7	4.7		
	2,039	1,200	1,829	5.7	4.7	5.0	5.0	4, 9	5.0		
	218	226	201	3.6	2.8	2.6	2.9	3, 7	3.2		

³ Unemployment as a percent of the civilian labor force.

Table A-10. Employment status of black and other workers

·	Net seas	mally ad	justed	Seasonally adjusted ¹							
Exployment status	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1987	July 1987	Aug. 1987	Sept. 1987	Oct. 1987		
Civilian noninstitutional population Civilian labor force Participation rate. Employment ropoulation ratio ⁴ Unemployment rate. Not in labor force	25,330 16,194 63.9 14,155 55.9 2,040 12.6 9,136	25,919 16,589 64.0 14,766 57.0 1,824 11.0 9,330	25,969 16,209 64,7 15,017 57.8 1,793 10,7 9,159	25,330 16,148 63.2 14,097 55.7 2,051 12.7 9,182	25.773 16.439 63.8 14.556 56.51 3,873 11.4 9,334	25,826 16,632 64,4 14,750 57,1 1,882 11,3 9,194	25,868 16,705 64,6 14,812 57,3 1,893 11,3 9,163	25,919 16,5661 63.9 14,774 57.0 1,792 10.8 9,353	25,969 16,775 64.6 14,964 57.6 1,810 10.6 9,194		

¹ The population figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unad-justed and seasonally adjusted columns.

² Civilian employment as a percent of the civilian monin-stitutional population.

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Table A-11. Occupational status of the employed and unemployed, not sussonally adjusted

(Numbers in thousands)

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;	· .	civilian	employed	Unemp1	Loyed	Unemployment rate	
	Occupation .	Oct. 1986	Oct. 1987	Oct. 1986	Oct. 1987	Oct. 1986	Oct. 1987
	Total, 16 years and over ¹	110,857	113,898	7,842	6,845	6.6	5.7
	Managerial and professional specialty Executive, administrative, and managerial Professional specialty	26,975 12,892 14,082	28,309 13,729 14,580	698 366 332	630 378 252	2.5 2.8 2.3	2.2 2.7 1.7
	Technical, sales, and administrative support. Technicians and related support. Sales occupations	34,936 3,489 13,489 17,958	35,667 3,507 13,680 18,480	1,669 112 651 906	1,575 104 652 820	4.6 3.1 4.6 4.8	4, 2 2, 9 4, 5 4, 2
÷	Service occupations Private household. Protective service Service, except private household and protective	14,725 963 1,688 12,074	14,908 953 1,851 12,104	1,440 65 83 1,292	1,176 42 86 1,048	8.9 6.3 4.7 9.7	7.3 4.2 4.5 8.0
•	Precision production, craft, and repair Mechanics and repairers. Construction trades. Dther precision production, craft, and repair	13,567 4,396 5,011 4,160	13,722 4,464 5,132 4,126	889 177 450 262	704 163 361 180	6,1 3.9 8,2 5.9	4.9 3.5 6.6 4.2
- - -	Operators, fabricators, and laborers. Machine operators, assemblers, and inspectors. Transportation and material moving occupations. Handlers, eoutpaent cleaners, helpers, and laborers. Construction laborers. Uther handlers, equipment cleaners, helpers, and laborers.	17,178 7,872 4,631 4.675 770 3,906	17,738 8,099 4,896 4,743 791 3,951	1,965 884 352 729 198 531	1,602 711 318 573 165 409	10.3 10.1 7.1 13.5 20.5 12.0	8.3 8.1 6.1 10.8 17.3 9.4
÷.	Farming, forestry, and fishing	3,477	3,554.	263	260	7.0	6.8

² Persons with no previous work experience and those whose last job was in the Armed Forces are included in the unemployed total.

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Table A-12. Employment status of male Vietnam-era vaterans and nonvaterans by age, not seasonally adjusted

(Numbers in thousands)

	i Civi	lian	Civilian labor force								
Veteran status and age	noninsti popul	population						Unemp	loyed	loyed	
	 		Total		Employed		Humber		Perce	nt of	
	0ct. 1986_	0ct. 1987	0ct.	Oct. 1987	Oct. 1986	0ct. 1987	0ct. 1986	0ct.	0ct.	Oct. 1987	
VIETNAM-ERA VETERAKS					1	1 -			1		
Total, 30 years and over	7,778 6,349 1,084 2,932 2,333 1,429	7,853 6,128 856 2,478 2,794 1,725	7,253 6,089 1,037 2,819 2,233 1,164	7,277 5,843 817 2,344 2,682 1,434	6,918 5,784 947 2,684 2,153 1,134	6,983 5,594 749 2,259 2,586 1,389	335 305 90 135 80 30	294 249 68 85 96 45	4.6 5.0 8.7 4.8 3.6 2.6	4.0 4.3 8.3 3.6 3.6 3.1	
NONVETERANS											
Total, 30 to 44 years 30 to 34 years 35 to 39 years 40 to 44 years	18,691 8,629 5,853 4,209	19,741 8,920 6,379 4,442	17,711 8,169 5,559 3,983	18,785 8,541 6,074 4,170	16,790 7,734 5,257 3,799	17,974 8,147 5,838 3,989	921 435 302 184	811 394 236 181	5.2 5.3 5.4 4.6	4.3 4.6 3.9 4.3	

NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces;

published data are limited to those 30 to 44 years of age, the group that most closely corresponds to the bulk of the Vietnammera veteran population.

Table A-13. Employment statue of the civilian population for eleven large States

(Numbers in thousands)

	Not seas	mally adju	isted ¹		54	asonally a	djusted'		
State and employment status	Oct. 1986	Sept. 1987	Oct. 1987	Oct. 1986	June 1987	July 1937	Alig. 1927	Sept. 1927	0st. 1937
California									
Civilian noninstitutional population Civilian labor force Employed Unemployed Unemployed	20,242 13,528 12,693 834 6.2	20,660 13,804 13,039 765 5.5	20,695 13,836 13,065 771 5.6	20,242 13,491 12,598 893 6.6	20,553 13,742 12,989 753 5.5	20,592 13,819 13,064 755 5.5	20,624 13,775 13,036 739 5,4	20,650 13,823 13,026 797 5.8	20,695 13,801 12,979 822 6.0
Civilian noninstitutional population Civilian labor force Eaployed Unemployed. Unemployment rate	9,244 5,680 5,348 332 5.8	9,480 5,902 5,591 311 5,3	9,500 5,962 5,666 296 5,0	9,244 5,679 5,368 311 5.5	9,419 5,840 5,546 294 5.0	9,441 5,899 5,587 312 5,3	9,460 5,851 5,519 332 5,7	9,480 5,868 5,574 294 5.0	9,500 5,961 5,679 232 4.7
Illinois	1								
Civilian noninstitutional population Civilian labor force. Employed. Unemployed. Unemployment rate.	8,664 5,693 5,279 413 7.3	8,687 5,804 5,448 355 6.1	8,688 5,851 5,483 368 6.3	8,664 5,678 5,252 426 7.5	8,684 5,727 5,297 430 7.5	8,68/ 5,778 5,356 422 7.3	8,686 5,819 5,409 410 7.0	8,68/ 5,804 5,434 370 6.4	8,628 5,828 5,446 382 6.6
Resectusetts	İ	i	İ	ļ	İ	İ	İ		
Civilian noninstitutional population Civilian labor force. Employed. Unemployed. Unemployment rate.	4,557 3,038 2,935 1 103 1 3,4	4,574 3,053 2,969 84 2.8	4,575 3,097 3,014 84 2.7	4,557 3,047 2,929 118 3.9	4,571 3,114 3,015 99 3.2	4,573 3,069 2,993 76 2.5	4,573 3,097 3,005 92 3.0	4,574 3,051 2,975 76 2.5	4,575 3,107 3,007 100 3.2
Hichigan	1	l	1						
Civilian noninstitutional population Civilian labor force. Employed. Unemployed. Unemployment rate	6,878 4,424 4,064 360 8,1	6,939 4,576 4,242 333 7,3	6,944 4,518 4,208 310 6,9	6,878 4,441 4,065 376 8.5	1 6,925 4,513 4,124 389 8.6	6,931 4,503 4,129 374 8,3	6,934 4,638 4,231 407 8.8	6,939 4,606 4,246 360 7.8	6,944 4,532 4,205 327 7.2
New Jersey	ļ.	ļ .	i		i		İ	ĺ	i
Civilian noninstitutional population Civilian labor force Employed. Unemployed. Unemployment rate	5,939 3,860 3,674 185 4.8	5,994 3,884 3,732 153 3,9	5,999 3,952 3,808 144 3.6	5,939 3,876 3,674 202 5,2	5,981 3,977 3,809 168 4.2	5,987 3,930 3,771 159 4.0	5,990 3,986 3,815 171 4.3	5,994 3,916 3,740 1,76 4.5	5,999 3,965 3,812 53 53 3,9
New York		1	1	i	į	i	i	i	į .
Civilian noninstitutional population Civilian labor force Employed Unemployed. Unemployment rate	13,742 8,441 7,972 468 5,5	13,784 8,395 8,027 369 4,4	13,786 8,534 8,118 416 4.9	13,742 8,387 7,907 480 5.7	13,777 8,535 8,145 390 4.6	13,782 - 8,481 8,106 375 4.4	13,781 8,526 8,145 381 4.5	13,784 8,392 8,012 380 1 4.5	13,786 8,480 8,057 8,057 423 5.0
North Carolina	i i	i i	1	į		1	Ì	Ì	İ
Civilian noninstitutional population Civilian labor force Epployed Unemployed. Unemployment rate	4,780 3,212 3,049 163 5,1	4,854 3,303 3,187 116 3.5	4,861 3,354 3,225 129 3.9	4,780 3,206 3,041 165 5,1	4,836 3,292 3,143 49 4,5	4,843 3,322 3,171 151 4.5	4,848 3,306 3,165 141 4,3	4,854 3,313 3,182 131 4,0	4,861 3,350 3,218 132 3,9
Ohie	1	İ							
Civilian noninstitutional population Civilian labor force. Employed. Unemployed. Unemployed. Unemployment rate.	8,112 5,263 4,855 408 7.8	8,137 5,171 4,885 287 5.5	1 8,138 5,221 4,920 301 5.8	8,112 5,214 4,810 404 7,7	8,133 5,237 4,859 378 7,2	8,136 5,240 4,868 372 7,1	8,136 5,205 4,841 364 7.0	8,137 5,148 4,865 283 5.5	8,138 5,176 4,876 300 5.8
Pennsylvania	1	i i	İ	i		Ì	 		
Civilian noninstitutional population Eivilian labor force Employed Unemployed Unemployment rate	9,249 5,650 5,325 325 5,7	9,286 5,708 5,411 297 5.2	9,288 5,787 5,480 307 5.3	1 9,249 5,597 5,244 353 6.3	9,279 5,630 5,310 320 5.7	9,283 5,616 5,295 321 5,7	9,283 5,697 5,383 314 5,5	9,286 5,675 5,359 316 5,6	9,288 5,738 5,400 338 5,9
	12 057	12 264	12 292	1 12.052	12.211	12.211	12.246	12.264	1 12,282
Liviisan noninstitutional population Civiisan labor force Employed Unemployed Unemployed	. 12,052 . 8,295 . 7,555 . 740 . 8.9	8,430 7,713 717 8.5	8,409 7,791 618 7,4	8,288 7,506 782 9,4	8,372 7,656 716 8.6	8,456 7,753 703 8,3	8.546 7.828 718 8.4	8.401 7.625 715 8.5	8,390 7,737 653 7,8

¹ These are the official Bureau of Labor Statistics' esti-mates used in the administration of Federal fund allocation programs.

¹ The population figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unadjusted and the seasonally adjusted columns.

HOUSEHOLD DATA

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Table 8-1. Employees on nonagricultural payrolis by industry

. Industry		Not coose	nally adjusts	4		•	Seasonal	ty adjusted		
	* Oct. 1986	Aug. 1987	Sept. 1987 P	Oct. 1937 P	<u>};;:</u>	lune :997	July 1957	Aug. 1957	Sept. 1987P	9ct 198
Total	100 984	102.152						•	· · · · ·	
Total private	83.918	86.107	86.139	85.304	*1.31	*4.757	• • • • • • •	85.229	85 348	192.91
ede-producing	24,982	25,346	25,400	25,394	24,611	24,761	24,850	2	24,910	25.0
Kining Oil and das extraction	737	755	759	764	735	738	. 741	751	758	7
Construction	5,204	5,366	5.292	5 785	4 947	5 008	. 5 002	5 006	439	
General building contractors	1,343.7	1,345.0	1,318.7	1.325.8	1,2*9	1,264	1,261	1,252	1,257	1,2
Production workers	19,041 12,954	19,225	19,349 13,251	19.345 13,241	18,934 12,849	19.013 12.958	19,104 13,020	19,129	19,174	19,2
Durable goods	11,209	11,238	11,343	11,362	11,169	11,176	11,195	11,248	11.276	11,3
Lumber and wood products	731.3	762.2	761.7	755.4	719	735	740	736	240	7.5
Furniture and fixtures	502.6	515.7	521.8	526.1	499	510	518	518	520	ŝ
Stone, clay, and glass products	592.2	596.2	595.1	. 594.1	581	582	582	582	581	. 5
Risst turnaces and basic steel products	726.8	732.9	764.1	764.8	733	746	750	734	765	7:
Fabricated metal products	1 470 0	2/9.0	201.7	282.9	262	275	\$ 277	278	283	21
Machinery, except electrical	2 017.7	2 031 4	2 050 4	2 032 0	1.021	1.074	1,020	1,423	1,430	1,4
Electrical and electronic equipment	2.124.2	2 095.0	2 106.0	2 118 1	2 1 20	2.000	2,033	2.044	2.055	2,0
Transportation equipment	2.014.8	1.991.4	2.029.7	2.022.6	2.013	2.010	1.995	2.078	2.072	2,1
Motor vehicles and equipment	852.2	819.4	847.7	841.0	850	842	814	648	840	
instruments and related products	700.8	695.9	694.9	693.8	702	693	695	695	695	
Miscellaneous manufacturing	368.6	373.8	378.3	383.7	360	368	370	371	372	37
Nondurable goods	7,832 5,544	7.987 5,657	8,006 5,685	7,983 5,657	7,765 5,480	7,839 5,537	7,909 5,595	7,881 5,563	7.898 5.578	7.91 5.51
Food and kindred products	1,664.9	1,722.1	1,714.2	1.677.1	1,621	1,634	1.644	1,632	1,628	1,63
Textile mill products	713 1	716 1	740 5	740	208	176	1 776	717		
Apparei and other lexitle products	1 114 1	1 111 0	1 126 8	1 132 5	1 104	1 108			1 1 1 1	
Paper and allied products	678.2	681.2	681.8	678.2		676	678	677	1.117	· · ; ;
Printing and publishing	1.468.8	1.503.6	1.502.0	1.510.7	1.469	1.498	1.504	1.508	1.507	1 1
Chemicals and allied products	1.018.5	1.036.3	1.032.0	1.031.0	1.020	1.014	1.026	1 031	1 030	1 01
Petroleum and coal products	166.1	167.6	167.9	166.6	166	164	164	164	167	
Rubber and miscellaneous plastics products	796.2	818.2	827.1	833.8	794	810	815	819	825	
Leather and leather products	149.6	154.0	- 154.3	155.2	147	149	155	152	152	19
Teneroducing	76,002	76,806	77,513	78,355	75,598	77,057	77,276	77.389	77,486	77,93
Transportation and public solutions	5,296	5,386	3,436	3,471	5,251	5,350	5,363	5.377	5,406	5,42
Communication and public utilities	2,195	2,248	2,234	2,231	2,198	2,222	2,230	2,230	2,232	2,23
Whelesale trade	5,759	5,838	5,835	5,855	5,731	5,781	5,797	5,807	5,813	5,82
Nondurable goods	3,385 2,374	3,439 2,399	3,432 2,403	3,442	3,379	3,405 2,376	2,379	3,422 2,385	3.429 2.384	3,43
Retall trade	18,034	18,384	18,411	18,443	17,980	18,226	18,274	18,256	18,319	14,38
General merchandise stores	2,402.8	2,362.7	2,379.4	2,454.2	2,385	2,387	2,407	2,411	2,416	2,43
Food sloves	2,912.5	2,961.6	2,962.9	2,979.9	2,901	2,960	2,959	2,962	2,960	2,96
Eating and drinking places	1,962.7	2,009.0	1,999.3	2.002.7	1,960	1,983	3,985	1,985	1,987	2,00
Finance, insurance, and real estate	6,383	6,704	6,642	A. 619	6,395	6.586	6,608	6,624	6.626	6,63
Finance	3,195	3,319	3,290	3,291	3.204	3,260	3,291	3,293	3,293	3,30
Real estate	1,977	2,058	2.048	2,048	1,980	2.037	2,043	2,050	2.050	2.05
	• • • • • •	.,					1		1,203	1,20
Services	23,464	24,449	24,395	24,522	23,369	24,083	24,214	24,279	24,274	24,42
Business services	4,911.2	5,189.6 6,950.6	5,194.0 6,949.8	5,233.9	4,861 6,644	5,086 6,853	5,105	5,133 6,923	5,148	5,18
Government	17,066	16.045	16,774	17.445	16.872	17,031	17.020	17.046	17.048	17.23
Federal	2,876	2,966	2,942	2,934	2 897	2,935	2,936	2,940	2,963	2.95
Siata	4 001	1 210	3.900	4 096	3,907	3. 932	1	3 964	1 471	A 00
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Table 3-2. Average weekly hours of production or nonsupervisory workers' on private nonagricultural psyrolis by industry

•		Hat seems	ally adjusts	• •			lossenally	- Control		
	Oet -	4=8-		741.)et .		leir	Aue:	1421-	741.
	1986	. 1987	1997 0	194. 6				1431	1997 5	
Total private	34.7	35.3	34.7 :	34.9	34.7	34.3	34.5	34.9	34.5	34.9
Mining	42.1	42.4	42.1 -	43.1	(2)	(2)	(2)	(2)	(2)	' (I)
Construction	37.9	38.6	36.4.	38.7	(2)	(2)	(2)	(2)	a	(2)
Nendacturing	42.7	40.1	40.6	41.1	42.7	÷1.3	41.0	41.0	47.4	41.1
2		:	3.4	•	3.5	3.7			3.4	1.9
Durable goods	41.3	41.3	41.0	41.7	3.5	41.3	3.8	41.4	3.7	41.7
Lumber and wood products	40.6	40.7	. in.n	40.4	49.4	49.6	49.6	40.4	39.4	40.2
Furniture and factories	40.5	40.3	39.7	40.3	39.9	40.0	40.0	40.1	39.2	39.9
Steve, cay, and parts process	43.4	42.6	42.4	42.7	42.3	41.0	42.2			42.3
C Blast formanes and basic steel anducts	41.0	43.0					- 22.5			44.0
Fabricated metal products	1	1 11 1	40.41	41.7		41.5	41.4	41.5	49.7	41.7
Machinery, except electrical	1 41.5		41.5	42.3	1	42.2	42.4	42.2	41.5	42.5
Electrical and electronic equipment	41.0	40.8	40.5	40.0	41.0	41.1	41.1	41.0	40.4	40.9
Transportation oppipment	41.9	41.1	41.0	42.2	42.1	41.9	41.7	41.9	41.1	42.4
Motor vehicles and equipment	41.9	40.8	40.8	42.6	42.1	42.0	41.9	41.9	41.0	42.9
Instruments and realized products	40.7	41.3	40.8	41.8	40.9	41.5	41.6	41.7	40.8	42.1
macanimetre manerecturing	39.8	39.4	39.0	39.7	(⁽¹⁾	(2)	(2)	. (1)	(1)	(3)
Nondurable gange	40.0	40.4	40.2	40.3	39.9	40.2	40.3	40.3	39.9	40.3
Overtime hours	3.5	3.1	4.0	3.9	3.4	3.6	3.7	3.7	3.6	3.0
Food and kindred products	40.0	40.7	40.6	40.7	39.8	40.1	39.9	40.3	40.0	40.5
Tobecco Menufactures	39.0	36.1	38.5	40.3	(1)	(2)	(2)	(2)	(1)	(1)
Textile mill products	41.6	42.3	41.5 ;	41.8	41.4	42.1	42.4	42.1	41.1	41.6
Appares and other textile products	36.9	37.4	36.1	37.2	36.8.	37.1	37.3	37.4	36.1	37.1
Bristine and sublishine	43.1	43.2	44.0	43.3	43.1	43.3	43.5	: 42.4	43.7	. 43.3
Chemicals and allied products	38.1	38.1	1 20-4 1	31.1	38.0	38.1				38.0
Petroleum and coal products					1					
Pubber and miscellamous plastics products					1 281		1 25	1 25	1 25	1 233
Leather and leather products	34.4	1	1 33.31	34.1	1 26 1	- 255	1 25	: 25		- XX
			1		· · · ·		,	1		
Transportation and public utilities	39.1	39.6	39.0	39.2	39.1	38.8	39.2	39.3	38.9	39.2
Whelevele trade	38.4	38.4	38.2	38.4	38.3	38.2	38.1	38.3	38.1	38.4
Retail trade	29.0	30.3	29.6	29.1	29.1	29.2	29.3	29.4	29.6	19.2
Pinanes, Insurance, and real volute	36.4	36.4	36.0	36.1	(1)	(2)	(2)	(2)	a	(D)
Boylese	32.4	31.9	31.4	32.5	32.4	32.5	32.5	32.5	32.5	32.5

¹²Data relate is production workers in relating and manufacturing; to executation robust in construction; and its nonexpervicely workers in transportation and public attilistic; wholesaids and retail tradit; finance, insuranze, and real execution. These groups account for approximately lear-fifthe of the total employees on private relativistics revises. This series is not published secondly adjusted since the seasonal companying in mail estables to the trend-cycle and/or inspans companying additional essensed with authorizing precision.

p = prototology.

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Table 8-3. Average hearty and weekly earnings of preduction or nonsupervisory workers' on private nonagricultural payrolls by industry

Industry		Arrange In	mily exclude	•		Arecage v	really earning	nga
	Oct. 1986	Aug. 1987	Sept. 1937 P	Oct. 1987 P	Oct. 1986	Aug. 1987	Sept. 1987 6	Oct. 1987
Tatal private Seesonally adjusted	58.82 8.62	\$8.94 9.02	\$9.05 9.01	\$9.08 9.07	#306.05 306.05	\$315.58 314.80	\$314.04 311.75	\$316.89 315.64
Mining	12.50	12.32	12.45	12.33	526.25	522.37	524.15	531.42
Construction	12,68	12.67	12.78	12.78	480.57	489.06	465.19	494.59
Manufesturi-3	9.72	9.86	9.98	9.94	395.60	403.27	405.19	408.53
Durable goods	10.27	10.42	10.48	10.46	424.15	430.35	429.68	414.10
Furniture and factures	4.32	8.49	8.48	8.45	337.79	345.54	338.35	141.18
Stone, clay, and class products	7.53	7.74	7.77	7.77	304.97	311.92	108 47	114 60
Primary metal industries	10.10	10.31	10.42	10.34	430.26	439.21	441.81	441 67
Blast fume cas and basic steel products	11.75	11.98	12.26	11.99	493.50	\$15.14	529.63	\$23.94
Fabricated metal products	13.63	13.81	14.16	13.80	569.73	600.74	637.20	619 62
Machinery, except electrical	9.68	9.97	9.65	9.70	408.04	411.76	393.72	404 40
Electrical and electronic equinment	10.58	10.76	10.81	10.82	439.07	449.77	448.67	457 40
Transportation equipment	9.67	9.90	9.98	9.96	396.47	403.92	404 19	407 34
Notor vehicles and environment	12.82	12.90	13.10	13.15	537.16	530.19	\$17.10	
Instruments and related conducts	13.42	13.43	13.74	13.83	562.30	547.94	540 58	
Miscellaneurs manufacturine	9.56	9.78	9.82	9.75	389.09	403.91	400.44	307.10
	7.57	7.70	7.77	7.77	301.29	303.38	303 03	309 43
Nondurable annua			I	1				300.47
Food and kinding products	8.96	9.12	9.29	9.21	358.40	368.45	373 44	171 14
Tobacco manufactures	8.69	8.80	8.96	8.92	347.60	358.16	161 78	343 04
Textile mill products	12.14	14.20	12.87	12.74	473.46	\$12.62	485 50	363.04
Apparel and other textile products	7.02	7.16	7.22	7.23	292.03	102.87		313.42
Paner and allied products	5.87	5.90	6.03	6.02	214 40	220 64	277.03	302.21
Printing and publishing	11.25	11.41	11.69	11.49	484.88	402 01		223.94
Chemicals and allied products	10.09	10.31	10.50	10.45	384 43	102 01	100,30	49/.52
Determinate and eval products	12.08	12.34	12.56	12 40	304.04		403.20	398.15
Buther and miscellaneous electics and use	14.19	14.52	14.71	14.44	477 44	212.21	533.00	525.83
Leather and leather and with	8.73	8.90	8.99		143 30	031.02	041.30	030.24
	5.95	6.01	6.14	6.13	218.96	233.79	228.41	373.69
remportation and public utilities	11.77	11.97	12.00	12.00	460.21	474.07	468 00	470 40
Theleesle trade	9.36	9.62	9.68	9.65	339.43	349 41		
etall trade	6.04	6.04					305.78	3/0.36
Inance, Insurance, and real estate			0.21	0.10	173.74	183.62	183.82	179.26
arvices	8.39	8.81	8.81	8.79	305.40	320.68	317.16	317.32
	8,23	8.40	0.54	8.61	266.65	276.36	276.70	279.83
' Bee footnote 1, table 6-2.	1	p = pretim(ne					£	. :

Table 8-4. Hourty Earnings index for production or nonsupervisory workers' on private nonagricultural payrolis by industry (1977 = 100)

		Net ye	monally adj	mally adjusted			Brasshally allusted							
Industry	Oct. 1986	Aug. 1987	Sept. 1987	0ct. 1987	Persent stynge fram: Oct. 1986- Oct. 1987	Oct. 1986	June 1957	July 1987	Aug. 1987	Sept. 1987	Oct. 1987	Percent change from: Sept. 1987- Oct.		
Telis protein neutona: Current delatra	170.2 95.0 181.7 154.7 172.4 172.3 172.9 159.0 180.5 175.7	173.2 93.2 181.6 154.7 174.7 173.1 177.4 100.4 189.4 180.4	174.8 93.6 183.2 155.9 175.8 176.3 176.6 163.4 189.1 182.6	174.6 N.A. 181.8 156.2 175.2 176.4 178.3 162.0 189.2 183.6	2.6 (2) .1 0.9 1.6 2.4 3.1 1.9 4.9 4.5	170.2 93.1 (4) 153.2 173.0 171.9 (4) 159.3 (4) 175.7	172.9 93.8 (4). 155.0 174.7 175.6 . (4) 160.3 (4). 179.9	173.2 93.7 (4) 154.3 174.7 176.4 (4) 160.9 (4) 180.5	174.1 93.7 (4) 154.7 173.5 176 0 (4) 161.5 (4)	174.5 93.7 (4) 154.1 176.2 175.6 (4) 162.9 (4)	174.6 S.A. (4) 154 7 175.8 176.0 (4) 162.4 (4)	0,1 (3) (4) -3 (4) (4) (-3 (4) (4)		

1 See footnote 1, table 8-2.
2 Change to -1.5 percent from September 1985 to September 1987, the latest month evaluable.
3 Change to lass than .03 percent from August 1987 to September 1987, the latest month evaluable.
• Intropiler compare not espacially adjusted since the essence i component is easily relative to the trend-cycle and/or W.A. Data not evaluable.
p = preliminery.

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Table 8-6. Indexes of appropriate weakly hours of production or nonsupervisory workers' on private nonagricultural poyrelis by industry

forth-select		let seasons	illy adjust	d Sessensity adjusted						
	Oct. 1986	Aug. 1967	5ept. 1937 P	Oct. 1957 P	Oct. 1986	June 1957	July 1957	Aug. 1967	Sept. 1987 P	Oct. 1987
Tetal	118.8	123.8	121.8	122.6	117.7	120.0	120.6	121.2	120.2	121.5
Seads producing		102.2	100.8	103.1	97.6	98.9	99.5	99.7	97.5	100.8
Allowing		85.9	86.0	88.6	81.0	83.5	85.0	95.2	84.9	88.2
Construction	142.0	148.4	137.5	146.0	131.6	132.6	133.2	133.6	124.6	135.3
Manufacturing	92.6	94.0	94.4	95.5	91.6	93.1	93.6	93.8	92.8	94.7
Durable goods	87.7	90.3	91.0	92.9	89.5	90.5	90.6	91.2	90.0	
Lumber and wood products	101.7	106.1	101.6	104.0	99.7	101.7	107.4	101 2		101.1
Furniture and fixtures	109.3	1111.4	111.1	114.8	106.8	109 5	111 4		100.4	
Stone, clay, and class products	88.7	89.5	89.1	89.6	86 1					
Primary metal industries	59.4	64.3	65.6	66.5	60.7	41.4				
Blast fumaces and basic steel products	46.1	52.6	55.1		47 7					
Fabricated metal products	69.1	88.6	89.1	11 7				,,,,,,	33.1	30.9
Machinery excent electrical					66.3	87.1	69.0		88.1	90.9
Flertricel and electronic employment						80.5	87.0	87.4	86.6	89.3
Transportation and descent and a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco	101.1		100.3	102.7	100.0	99.9	100.4	100.8	99.7	102.2
	90.4	92.2	*5.Z	97.3	96.8	96.6	94.3	97.4	95.1	97.7
	84.9	79.7	83.6	86.3	84.9	85.1	81.5	86.1	83.3	86.5
Instruments and related products	101.1	102.0	101.3	102.9	101.8	102.2	103.0	103.0	101.3	104.3
Miscellaneous manufacturing	82.9	82.9	63.1	86.Z	79.0	81.4	81.9	82.3	80.7	\$2.3
Mandurable ecode	44.5									
Enot and kindnet moducts	1.00				11.1	27.0	70.1		70.7	98.1
Tobacca magulasture	1 101.0	101.7	10/.3	104.5		79.3		79.5	98.4	100.2
Textile mill enduate	1 2/ 2	/0.0	/9.4	80.4	76.9	76.3	73.1	71.0	69.9	70.3
	80.5	84.6	83.6	44.1	79.6	83.3	84.8	83.7	82.0	83.1
Apparel and other textile products	86.2	86.8	85.1	88.1	85.1	85.9	88.2	86.6	84.4	86.9
Paper and allied products	99.7	100.5	102.8	100.4	99.7	100.0	100.8	100.4	101.7	100.4
Printing and publishing	129.0	131.3	132.4	131.8	128.9	131.1	131.4	131.4	132.1	1 11. 2
Chemicals and allied products	92.0	95.2	96.3	94.7	92.8	92.8	94.5	95.5		
Petroleum and coal products	83.1	85.6	86.2	84.9	81.6	83.4	84.7	81.4	11.5	
Rubber and miscellaneous plastics products	112.3	114.6	115.5	118.4	112.01	114 8	115.0	115 6		
Leather and leather products	56.1	62.5	59.8	61.6	55.4	59.7	62.2	61.4	39.2	60.6
inico producing	129.3	135.7	133.3	133.4	128.8	131.7	132.3	133.1	132.4	133.0
Transportation and public utilities	107.1	110.5	110.3	111.4	106.1	107.6	109.0	109.7	109.0	110.4
Whelesale trade	117.9	119.3	118.5	119.5	116.9	117.6	117.5	118.2	117.4	118.8
Retail trade	118.5	125.9	123.0	121.3	118.6	120.4	121.2	122.4	122.4	121 3
Finance, insurance, and real estate	138.7	145.3	141.4	141.4	139.0	142.7	142.0	143.0	141.3	141.4
Service	147.7	156.0	151.1	154.2	146.9	191.7	152.5	112.0		
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Table B-6. Indexee of diffusion: Percent of industries in which employment' increased

Time open	Year	Jan.	Feb.	ittar.	Age.	May	ľ	y the	Amp.	Sept.	OoL	Nex.	Des.
Over, 1-month span	1985 1986 1987	55.9 53.2 53.3	47.0 48.1 36.8	52.4 48.1 58.6	47.3 53.5 58.4	53.2 52.4 58.6	46.8 46.8 55.7	53.8 52.4 68.6	53.8 56.2 54.6	47.8 55.1 p64.1	53.2 53.2 p62.7	54.3 59.7	57.3 59.7
Over 3-month span	1983 1986 1987	31.1 49.7 58.6	48.4 44.9 59.5	42.4 45.7 61.1	46.5 48.4 61.6	44.3 47.6 61.4	49.7 43.4 67.3	47.0 48.4 66.2	48.6 55.1 p72.4	45.9 55.9 p67.0	47.6 58.1	55.1 58.6	56.5 60.3
Over 6-month spen	1985 1986 1987	46.5 47.6 61.9	46.5 47.6 62.7	43.2 43.0 58.9	44.3 43.2 67.3	44.3 45.4 67.6	45.1 48.4 969.7	43.0 47.3 p73.5	44.3 53.0	49.2 59.2	49.2 58.9	47.3 57.8	45.9 58.9
Over 12-month spen	1985 1986 1987	44.6 43.2 62.2	44.1 44.1 63.5	43.8 46.2 967.6	40.8 43.7 p71.1	41.6 47.8	41.6 49.5	42.2 49.5	42.4 51.6	43.8 54.9	44.3 52.2	44.1 55.1	- 42.4 56.5

sloyees, essecially adjusted for 1, 3, and 8 month spans, on payrolls of 185 yral industries. Date for the 12-month span are unadjusted. ivele nonegricult p e preliminary

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NOTE: Figures are changed components dustries with employment rising. Italf of the un-rising.) Data are contered within the spans.

Senator SARBANES. Thank you very much, Commissioner. Let me just pick up on the productivity section at the end of your statement.

Ordinarily, doesn't productivity improve most quickly in the early stages of recovery from a steep recession?

Mrs. Norwood. Yes.

Senator SARBANES. To what do you attribute this productivity performance, which you note differs considerably from that in past recoveries, particularly the phenomenon you talk about in your statement?

Mrs. NORWOOD. Well, of course, manufacturing has been doing very well for some time, and that improvement has continued and indeed gotten somewhat larger. Output has increased.

I think it is encouraging that this seems to be spreading a bit, at least to the business sector as a whole, where it clearly had not been before. I don't—perhaps Mr. Mark has something to add to that.

Mr. MARK. That is right. It is predominantly manufacturing generated. In contrast to previous recoveries, manufacturing productivity has gone up 4.8 percent since the trough; whereas, in the average of the previous cycles it was about 2.9 percent. As a result, this has pushed up the total business productivity growth.

Nonmanufacturing is still showing less of an increase than previous recovery periods, so that the growth is predominantly dominated by what has happened to manufacturing, which, in turn, reflects many other things—the competitive pressures and the continued increase in manufacturing production. Senator SARBANES. As I understand it, on the 20th and 21st of

Senator SARBANES. As I understand it, on the 20th and 21st of last month, your Business Research Advisory Council recommended a "full-scale review of the Nation's employment and unemployment statistics."

What problems did the Advisory Council find with our current statistics, and do you agree with them on the necessity for a fullscale review of the employment and unemployment statistics?

Mrs. NORWOOD. Yes, I do. In fact, we have already begun such a wide-scale review. We have had a number of meetings with the Census Bureau, which does some of the survey work for us.

I believe that it is time to get started on some of the research that is needed. We always, as you know, revise that survey after the decennial census in order to see to it that the sampling reflects where people live.

I believe that there are a number of areas that require further effort. One is the questionnaire itself. Do people really understand all the questions we are asking them?

I think we can learn a great deal through the use of interdisciplinary approaches to testing—in a cognitive laboratory—which is a lot cheaper, by the way, than testing in the field—whether people really understand the questions.

In my view, the big issues in the labor market are really longitudinal issues. We need to find out what happens to people over time. The existing survey basically uses a cross-sectional approval. It would be possible, however, to develop different kinds of processing methods that could link together the micro data, so that we can follow people over time.

I also believe that recent developments have demonstrated very clearly that there are enormous differences occurring from one part of this country to another and that having accurate data for the country as a whole may not be sufficient for us to understand some of the problems of the labor market. We would like to try to use new approaches to see whether we can improve the data, at least for each of the 50 States.

Further, there is a need to use new technology in the collection process. The Census Bureau and the BLS are testing some of that. All of that work will take some time, and I do want to emphasize that any change that is made in the future in the CPS will only take place after very careful testing and with an adequate overlap sample so that we know what is really happening.

Senator SARBANES. Who makes up the Business Research Advisory Council?

Mrs. Norwood. They are representatives of business establishments as well as major groups of business.

Senator SARBANES. Do you have a Labor Research Advisory Council?

Mrs. Norwood. Yes.

Senator SARBANES. Separately? Mrs. NORWOOD. Yes. That is right. They sometimes put together a subcommittee of both for some important issues. On CPI housing we had a committee made up of representatives of labor and of business, for example. But we have a fairly well-developed system. There is a committee for each program area, and then there is a council, and I meet with the council on a regular basis, at least twice a year, sometimes more often, and these are people, I might-

Senator SARBANES. But is there a labor structure that is comparable to the Business Research Advisory Council?

Mrs. Norwood. Yes.

Senator SARBANES. OK. And what is the rationale for having them separate instead of having one advisory council in which they both would participate?

Mrs. Norwood. They have always been that way. They were established when Ewan Clague became Commissioner more than 40 years ago. Each council speaks with an independent voice. They are complementary to each other, and each has reaffirmed their wish to remain separate and distinct bodies.

I think there is some interchange in that each knows what the other is doing, and they are all technical people. They are business economists and labor economists for the most part, and they have been very helpful to us.

And, by the way, we don't pay them anything, not even their expenses to come to the meetings.

Senator SARBANES. Senator Melcher.

Senator MELCHER. Commissioner, it appears to me that in order to measure economic indicators in the days we are in against the effect on the economy that these twin towering, huge deficits of trade and treasury deficits, that we have no yardstick or history to say whether these indicators we are keeping truly reflect the underlying economy, and I suspect that is true, is it not? It is obvious, is it not?

Mrs. Norwood. That depends on the particular series. We have, for example, just revised the Producer Price Index and the Consumer Price Index, the All Urban Index and the Wage Earner Index, and we believe that they now reflect conditions in the economy much better than they did before. So we are quite pleased that we have gone through that process.

We have made changes in the productivity program to develop newer measures that will include the effects of capital and labor into multifactor measures which we think are more relevant to the kinds of problems that we have, including, for example, the effect of energy.

In the employment area, we have done a great deal to improve the accuracy of the basic establishment survey that we are reporting on here today, but we still have a long way to go. In the wage area there are enormous changes going on in the compensation package. Some of them are very difficult to measure, but we are working on that. Also, at the request of the Congress, we have been doing some work to try to develop a new survey of white collar pay, a very important issue.

Another area that we have been working on is one that I believe needs even more work, and that is services. Since we are becoming so much more a service-oriented economy, we need to have a data system that better reflects services.

Senator MELCHER. Services like health care?

Mrs. Norwood. Yes.

Senator Melcher. Insurance?

Mrs. Norwood. Yes.

Senator MELCHER. Stock?

Mrs. Norwood. Particularly health care, which presents special problems in the price and productivity area because of the problems in measuring output and changes in quality from one time period to another.

Senator MELCHER. When commodity prices for energy and forest products and agriculture and mining and minerals were all going down, the economy seemed to be going up, is that true?

Mrs. NORWOOD. We have had situations where that has occurred. Senator MELCHER. Is there any correlation if commodity prices for those four basic industries would improve that we would be able to determine just where the economy is?

In other words, this is all pretty basic, but for the last 12 months, October to October, economic indicators were judged to be pretty good, yet these commodity prices were either dropping or just stabilizing at low points. Why was the economy—why did the economic indicators come out as a net plus? Is there too much emphasis in measuring, for instance, stock market rises?

Mrs. Norwood. Well, what you are talking about now, I think, is the Leading Indicators Index, which includes as a component what is happening in the stock market, and I would assume that with a change in the stock market that that index might turn around.

The index is based on a number of different kinds of data which in the past have been associated with periods when the economy has been moving either toward expansion or toward contraction. It is revised very frequently, and sometimes the revision even causes a change in direction. It was affected last month by the drop in hours of work caused by the fact that Labor Day was in the survey week.

But the fact remains that on average, the economy has been expanding. It is true that there are some parts of the country and there are some industries that are in very great difficulty, and it is partly for that reason that I feel that the data system of the future needs to be oriented more toward local areas, toward geographic areas, and toward particular problem groups.

Sometimes we don't serve those groups who are in very great difficulty very well. It is difficult because the more you try to develop data for individual areas the more expensive it becomes because of the larger the samples are that are needed.

Senator MELCHER. Well, it appears to me that from October to October that when you look at agricultural employment, both in wage and salary workers and the self-employed, despite the increase in jobs, that there has been a—well, there was a decline in self-employed workers in agriculture. I believe I am reading this correct.

Mrs. Norwood. Yes, roughly, or it has been about the same.

Senator MELCHER. And the wage and salary workers were virtually stable from October to October, a slight improvement.

Mrs. NORWOOD. I think both of those are probably about stable. It is quite clear that the farm community has not benefited from the expansion in the way that other industrial groups have. There is no question about that, and the data show it.

Senator MELCHER. Yet if you try to find out—perhaps in your papers you have them, but if you look down below that, nonagricultural industries, I would like to know what energy, forest products, and mining—what those figures showed, whether it is parallel to agriculture or not.

Mrs. Norwood. Well, mining certainly has not fared terribly well. In fact, over the year employment in mining has been fairly stable, increasing by only 27,000.

Construction also has been relatively weak, having gained only 80,000 over the year, which is quite small for that industry generally.

And some of the manufacturing industries over the year have also not done too well, although manufacturing in aggregate has gained about 300,000 jobs over the year.

Senator MELCHER. Thank you.

Senator SARBANES. Commissioner, we have a vote on and both Senator Melcher and I are going to have to go and respond to that.

Let me just very quickly put some questions to you, though.

Mrs. Norwood. Fine.

Senator SARBANES. You point out in your statement that the employment-population ratio edged up to 61.7 percent. Is that the highest it has ever been?

Mrs. Norwood. It is not an all-time high, but it matches that which occurred about 2 years ago.

Senator SARBANES. How does that compare with other countries? Do we have any figures on that?

Mrs. Norwood. We can check that. I don't have that in hand. In some of the countries it does not—it is not as high. Some of them, like the Scandinavian countries for example-well, I have it right here. Leave it to BLS. We have everything. As I said, we are not as high as Sweden, but we are higher than

most others.

Senator SARBANES. Could you submit that---

Mrs. Norwood. Yes.

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Senator SARBANES [continuing]. Whatever it is you are looking at for the hearing record that gives us that information? [The following information was subsequently supplied for the

record:]

YEAR	UNITED STATES	CANADA	AUSTRALIA	JAPAN	FRANCE	GERMANY	ITALY	NETHER- LANDS	SWEDEN	UNITED Kingdom
TOTAL EMPLOYMENT BASIS (1)										
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985	578.55555555555555555555555555555555555	55.2 56.7 57.5 57.5 56.8 57.7 58.9 57.7 58.9 57.2 56.9 57.6 57.6 58.6	61.0 61.55 60.0 558.6 588.6 588.6 575.5 555.5 556.5 556.5 556.5	63.0 63.3 62.3 61.4 61.4 61.5 61.5 61.5 61.5 61.5 8 61.5 8 61.5 8 61.5 8 61.5 8 61.5 8 6 1.5 8 6 1.5 8 6 6 1.5 8 6 6 1.5 8 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	56.4 55.4 555.4 555.1 554.2 555.1 54.2 533.0 52.4 531.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 511.0 51.0 5	56.0 55.87 53.5 52.1 52.2 52.2 52.1 52.1 52.1 52.1 52	46.4 46.5 46.6 46.6 46.7 46.6 46.4 45.6 45.1 9P 44.8 9 44.8 9 44.8 9 45.1	(2) 47.4 47.1 46.8 47.0 47.6 47.6 47.6 47.6 45.9 45.9 45.9	622.80 6655.08 6655.08 6655.08 6655.08 6655.08 6655 6655.08 6655 6655 6655 6655 6655 6655 6655 66	58.7 60.87 60.24 59.1 59.26 58.5 56.1 55.3P 55.7P 55.7P
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1972 1973 1975 1976 1977 1978 1979 1980 1981 1981 1983 1984 1985	57.0 57.8 56.8 56.8 59.9 59.9 59.0 59.0 59.0 59.5 59.5 59.5	54.9 56.7 56.7 57.39 56.5 57.5 59.9 57.07 59.9 57.7 59.9 57.7 58.4 59.4	60.6 61.2 61.1 59.2 58.0 57.8 58.3 58.3 58.3 58.3 57.3 55.0 57.3 56.6 57.9	62.9 62.22 61.12 61.43 61.24 61.24 61.06 61.06 61.06 61.06 61.06 61.06 61.06 60.4	55.6 55.8 54.8 54.8 54.4 54.5 52.8 52.8 52.8 51.8 51.8 51.0 51.4 50.4 50.4 50.4	55.5 55.425 55.455 51.57 51.7 50.65 51.7 50.66 488.5 7 488.5 7 488.7 1 488.7 1 498.4 49.4 80.7 1 90.4 90.4 90.4 90.4 90.4 90.4 90.4 90.4	45.9 45.82 46.13 466.99 45.91 45.91 45.92 45.92 45.92 44.5P 44.4P	(2) 46.85 46.57 46.35 46.4 46.4 46.6 45.85 46.6 44.3 45.4P (2)	45689863617450P 223444555544455 66666666666666666666666666	58.2 60.3 59.7 58.8 59.7 58.8 55.7 55.7 55.7 55.7 55.7 55.7 55

FMPLOYMENT-POPULATION RATIOS. APPROXIMATING U.S. CONCEPTS, 1972-86

P = PRELIMINARY ESTIMATE.

(1) EMPLOYMENT APPROXIMATING U.S. CONCEPTS AS A PERCENT OF THE NONINSTITUTIONAL WORKING AGE POPULATION, Except JAPAN and germany where the institutionalized working age population is included. (2) Not available.

(3) CIVILIAN EMPLOYMENT APPROXIMATING U.S. CONCEPTS AS A PERCENT OF THE CIVILIAN NONINSTITUTIONAL WORKING AGE POPULATION, EXCEPT JAPAN AND GERMANY WHERE THE INSTITUTIONALIZED WORKING AGE POPULATION IS INCLUDED.

NOTE: THE DATA RELATE TO PERSONS 16 AND OVER IN THE UNITED STATES, FRANCE, AND SHEDEN; 15 AND OVER IN CANADA, AUSTRALIA, JAPAN, AND GERMANY; AND 14 AND OVER IN ITALY. THE LOWER AGE LIMIT WAS RAISED FROM 15 TO 16 IN 1975 FOR THE UNITED KINGDOM AND FROM 14 TO 15 IN 1975 FOR THE NETHERLANDS.

PREPARED BY: U.S. DEPARTMENT OF LABOR, BUREAU OF LABOR STATISTICS, OFFICE OF PRODUCTIVITY AND TECHNOLOGY, AUGUST 1987.

Senator SARBANES. Do we have any information on whether or to what extent this ratio is high because people feel compelled to go into the work force for pressing economic reasons?

Mrs. NORWOOD. No, we don't have data on the motivation of people who work.

Senator SARBANES. Why the unusually large gain in the labor force September to October?

Mrs. Norwood. Well, the labor force declined in September. The labor force tends to move in zigs and zags, and you really need to average the data over several months. In August it rose 350,000. In September it declined 441,000, and then it grew 500,000 in October.

Senator SARBANES. Would the September unemployment figure have been higher if the labor force growth had been more consistent—I guess would be the way to put it?

Mrs. Norwood. The unemployment figure is, of course, based on employment and the labor force, so changes in the labor force would affect it. But the labor force always moves this way. It will go up in a month, and then it will go down. It moves around, and so you need really to look at it over a period of time.

Over the year it has gone up 2 million.

As I mentioned in my statement about 14 million jobs have been created during this recovery period since November-December of 1982 and the unemployment rate has fallen from 10.8 to 6.0 percent. That is a drop of 4.8 percentage points.

If you think about that, what it shows is that you needed almost 300,000 jobs to take account of each one-tenth in the unemployment rate because of both the increase in the labor force and the increase in the population.

Senator SARBANES. On the import prices, in which you make the point that only about one-half of the decline in the dollar has been passed through as a price increase, that is not bad on the inflation front but it is not very good on the trade deficit front.

Mrs. Norwood. That is right.

Senator SARBANES. We heard testimony earlier this week that imports into the United States have declined very little in response to the fall of the dollar because foreign goods are still cheaper than American made goods, and we had a chart presented that showed import prices remaining about 20 percent below domestic prices.

Can you over time show a change in the amount of the passthrough, as profit margins shrink?

In other words, it is clear that foreign exporters have been absorbing some of the change in the currency valuation out of their profit margins. Obviously, as they continue to do that, they will get to the point where it is more and more difficult to absorb.

Mrs. Norwood. Yes.

Senator SARBANES. Does your survey show that more of the currency change is being passed through in the price, or don't you have that information?

Mrs. Norwoon. Most of the discussion thus far seems to be based upon trade-weighted exchange rates. But commodities are traded often with specialization from particular countries, some of which have a very different exchange rate relationship with the dollar— Korea, for example, and Hong Kong, from which we get a lot of textiles. Because of that the Bureau of Labor Statistics staff has
done a lot of what I think is very good work to develop an exchange rate index that is weighted both by commodity groups and by country or origin, and I would be glad to send you some charts that we have developed which show over the last several years what has happened when you look at that, and you see big differences between, say, apparel, on the one hand, and Japanese automobiles, on the other.

I think this will permit us to understand these developments much better. There are, of course, probably some changes that have occurred in this price relationship, depending on how much of a monopoly of the production of particular goods the country had. In some cases where there was more competition there was more price absorption in the foreign country. In other cases there was less.

But I will send you a note with that.

Senator SARBANES. If you could submit that, we would appreciate it.

Mrs. Norwood. Be glad to.

Senator SARBANES. That and the other chart on the participation rates in other countries.

Mrs. Norwood. Yes, be glad to.

[The following information was subsequently supplied for the record:]



United States Department of Labor



Bureau of Labor Statistics

Washington, D.C. 20212

TECHNICAL INFORMATION: Bill Alterman (202) 272-5020 MEDIA CONTACT: Kathryn Hoyle (202) 523-1913

USDL--87-508 FOR RELEASE: 2:00 P.M. E.S.T. Wednesday, November 18, 1987

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BLS ANNOUNCES NEW PRICE DATA FOR IMPORTS AND EXPORTS

Foreign manufacturers appear to be absorbing a substantial part of the decline in the trading value of the dollar and, on average, have passed through only about one-half of the dollar's decline in higher prices for their U.S.-bound exports, the Bureau of Labor Statistics of the U.S. Department of Labor reported today. This observation is based on a newly developed series of U.S. export and import price indexes which are measured in foreign currency terms. A specially designed series of average exchange rate indexes, weighted by the relative importance of a given country's trade with the U.S. in each product category, was used in the construction of this new series. A description of the methodology underlying the new series will appear in the December issue of the Monthly Labor Review.

Since the dollar began falling from its peak trading value in March 1985, dollar prices of imports (excluding fuels) have risen 18.8 percent on average. If foreign manufacturers had attempted to compensate completely for the dollar's decline, nonfuel import prices would have been raised by about 34 percent. Chart A shows the index for all imports, excluding fuels, in both dollar and foreign currency terms. The foreign currency price index measures the prices that foreign sellers realize in terms of their own currencies from sales to the United States. The decline in this index since March 1985 suggests that foreign sellers have been willing to absorb a part of the drop in the trading value of the dollar. (See tables 1 and 2.)

The new BLS data also show that changes in the exchange value of the dollar, as well as the rate at which it is passed through or absorbed, vary widely by product area. (See chart B for selected examples.) For instance, in the category of motor vehicles and parts, the trading value of the dollar has declined about 31 percent since March 1985 and about 55 percent of this decline has been passed through as higher dollar prices for these imported products. In contrast, over the same period, the dollar's trading value has declined only about 12 percent in the apparel product category and foreign sellers have been able to pass through roughly 90 percent of this decline. Estimates of the extent of exchange rate pass-throughs by product area may be calculated from data provided in the tables. (See note on page 2.) It is important to note that the new foreign currency denominated indexes, while very useful in analyzing the behavior of prices in U.S. foreign trade, cannot be used to assess the profitability of foreign sellers. Any effort to assess profitability would have to take into consideration additional information such as changes in input costs.

On the export side, (See tables 3 and 4) the declines in the exchange value of the dollar have had a downward impact on prices foreign buyers pay, in their currencies, for U.S. goods. Chart C presents the

price index for all U.S. exports of goods in both dollar and foreign currency terms. The evident stability of the dollar-price index--up only 2.8 percent since March 1985--combined with the sharp drops in the dollar's trade value, translates into a foreign-currency price index for U.S. exports which has declined sharply over the period since March 1985. U.S. exporters, in other words, have on average managed to keep their dollar prices relatively stable and thereby take advantage of the competitive improvement resulting from lower foreign currency prices for their goods.

In general, the export exchange rate series show slightly less variation from one product category to another than is observed for the import categories. (See chart D.) In addition, U.S. exporters appear uniformly to be passing through most of the recent decline in the dollar into lower foreign currency selling prices.

The exchange rate data included in these new series represent data for 41 countries with inflation rates comparable to recent U.S. trends. In the future these indexes will be included with the regular U.S. Import and Export Price Indexes. In addition, the Bureau will also be producing a separate series of foreign currency indexes which will include data from 64 countries and will be adjusted for inflation in foreign countries. The latter series will be made available on a one quarter lag basis. For further information on the foreign currency and exchange rate indexes call Bill Alterman or Dave Johnson at (202) 272-5020.

NOTE: For a given category of U.S. exports, a pass-through figure can be calculated by dividing the change in the average foreign currency price index for that group (from table 3), by the average change in the dollar, as measured by the appropriate exchange rate index (from table 4). For example, for export SITC 71, from March 1985 to September 1987, the foreign currency price declined, on average, 17.7 percent. During the same period, the dollar declined 21.6 percent. Dividing 17.7 percent by 21.6 percent (and multiplying by 100) gives a pass-through estimate of 81.9 percent.

For a given category of U.S. imports, the pass-through figure can be calculated by dividing the change in the dollar price index for that group (from table 1), by the average change of foreign currencies against the dollar (from table 2), as measured by the reciprocal of the appropriate exchange rate index. For example, for import SITC 78, from March 1985 to September 1987 the dollar price index increased 25.2 percent. During the same period, the dollar declined 31.3 percent. The reciprocal of the drop in the dollar produces a foreign currency appreciation of 45.6 percent. Dividing 25.2 percent by 45.6 percent (and multiplying by 100) gives a pass-through estimate of 55.3 percent.

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U.S. Import Ballar Price and Paraign Care

	Carlagery		1	-	_		19	*			19	87	_
FC .		Her.	-	Supt.	Bee.	Her.		sant.	Bas.	Har.	معد	Supt.	Γ
	ALL CONCETTERS Buller Johns. Pursign Correnty Indus.	180.0 180.0	99.8 96.1	7.4 75.5	188.7 88.8	7.7	89.4 73.1	07.7 71.5	28	10.0 75.2	181.9 76.7	183.4 77.8	
	ALL CONCRETEES, OX FAELS AND AELATES PARALETS 1 Builder Inder	200.0	100.1	100.7	105.0	196.4	107.0	119.7	щ. <u>;</u>	114.4	m'i	110.0	
	Marine Duine.	100.0	2.4	2.1	200.4	2.1	2:1	97.3	143.1	101.5	184.1	189.6	
	GALLY PROBLETS AND BREE Baller Inder	100.0		100.0	186.2 81.6	198.5	199.6	111.1 76.4	111.4 77.1	118.6	111.7	121.0	
	FIN Pallar Indust. Foreign Curruny Indust.	198.0 189.0	97.4 96.5	97.6 96-8	99.4 18.3	184.8 18.3	189.8 18.8	112.6 100.0	118.2 106-2	121.4 185.6	126.0	131.1 199.0	
	BARERY GIODS, PASTA POBLICTA, MAIN AND BRITS PREPARTIONS Builder Dedan Persign Currency Inden	100.0 300.0	198.4 96.4	185.4 96.7	187.7 16.2	111.5 16.6	113.1 %.4	114.8 16.4	117.8 %.7	122.2 %.6	128.1 97.9	122.5 99.1	
	SEVEnasts am TURACCO Bullar Indut Paraign Curranay Indut	100.0 100.0	100.4 93.5	141.2 89.3	388.s 89.5	186.5 77.0	186.8 80.6	386.1 77.6	187.6 78.0	189.3 73.9	щ.;	щ.7	
	Broknanzs Sullar Zubrt. Foreige Curvey Dubrt	100.0 100.0	200.1 92.6	101.2 87.0	196.2 66.6	196.9 77.6	196.3 19.2	187.3 77.7	187.1 78.3	111.1 76.5	113.2 78.2	113.9 78.2	
	CREBE INTERIALS Baller Indus	100.0 100.0	7.4 70.1	77.3 9.1	97.8 96.7	199.5 18.7	101.4 97.6	184.4 181.5	184.8 191.4	289.7 361.7	112.3 189.5	118.8 106.1	
	Clust sunsta Baller Indut. Paraign Carving Indut.	100.0 100.0	78.8 97.1	87.8	18.3 18.7	181.5 97.0	97.3 98.2	99.1 200.4	191.e 111.4	181.9 199.8	188.9 114-6	115.E 122.9	
	Nose Beller Index. Pareign Carrony Index	180.0 180.0	386.2 384.9	388.9 99.9	38.7 97.4	288.4 284.0	388.4 386.0	388.4 389.0	186.8 186.3	134.2 109.1	111.2 187.7	118.4 112.7	
	Para and south rapid Baller Index Persign Carveray Index	100.0 100.0	98.7 99.8	91.4 90.3	10.1 90.5	87.2 87.4	98.1 99.8	182.4 381.8	110.5 107.2	119.6 115.0	126.8 117.5	125.7 114.4	
	HETALLIPENSIS ORIS AND HETAL SCHOP Bullar Dedet Paraign Corruny Dedet	100.0 100.0	10.1 97.8	2:1	3 ;;	194.5 181.3	185.8 185.4	108.4 110.9	186.8 199.4	188.4 186.4	130.4 185-0	115.0 189.5	
	Comme vinstrates and antime. Herunides. N.E.S. Builer Indes. Persign Corvery Indes.	188:8	300.6	11.5 11.5	3 .1	97.5 81.7	180.1 62.3	188.8 79.4	180.4 79.3	188.7 61.6	118-5 18-7	100.9 80.7	
	Rata de atante resulta Baller Inder Farolge Carreng Inder	1.00.0 3.00.0	7::	:: :	2:1	8.7 8.5	48.1 44.2	48.5 42.6	66.3 20.6	67.8	# :1	#:4	
	Falls and MLA Baller Index. Foreign Carveray Index.	100.0 100.0		#:1 #2.4	8.1	3 .1	48.7 48.2	59.8 39.4	\$7.4 10.4	36.5 38.5	10.4 39.4	67.1	
	ventrate etta Boller Indet Fereige Carvery Indet	190.0 190.0	81.5 82.7	64.8 61.3	10.4 12.3	48.9	41.6 41.6	\$7.4 \$7.7	 	11.0 10.7		# #1	
	Comparing and maintee comparing Buller Definition 2 Peters	100.0 100.0	2:;	37.7 17.1	2.4	3:1	97.8 76-1	97.6 72.9	77.4	100.2 64.9	185.1 71.2	286.0 71.5	
	Ballar Inden. Parign Carrony Inden	100.0		18:1 17:4	8.4 8.3	77.5	16.4 78.6	19.2 73.6	33		5 .1	2:;	
	REALTING, and Photoscastratic Photoscast Baller Index. Persign Currency Index.	100.0	348.4	286.0 91.3	105.6 94.0	312.3 66.4	134.5 84.5	120.1 84.7	129.2 66.0	125.9 66.4	191.5 66.1	129.7 88.8	
	Eminital della anti finitalia Baller Inden. Forsign Corverny Inden.	300.0	188.4 96.7	384.7 96.8	188.S	300.4 79.4	209.7 61.3	113.6 60.7	111.1 79.6	125.5 86.4	123.4 61.2	199.4 61.4	
	Baller Zuler.		47.			8.1	2:			7	8.7	104.9	ł

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1978	. Category		29	-			19				19	67	
\$1TE		Her.		Sapt.	Dee.	Her.	Are	Sept.	Bec.	Her.	ş	Sept.	See.
14	ANTERICIAL ASSENS AND PLASTIC PATERIALS Beller Darmany Index.	100.0 100.0	99.7 18.5	198.6 92.7	101.4 86.4	194.2 63.1	105.2 82.8	186.7 79.2	108.6 80.7	106.3 75.4	111.0 76.2	197.8 79.1	
61	CHENCIAL MATERIALS and PRODUCTS. M.E.S Boiler Indus. Foreign Currenty Indus.	198.8 198.9	77.5 72.6	100.8 80.1	191.8 81.3	184.8 76.9	104.4 76.0	185.1 72.7	187.8 75.7	198.5 47.4	189.3 68.9	112.6 70.7	
٠	DETEMBERIATE HORFACTURES PROBUCTS Bullar Indust. Faraign Currency Indust.	186.5 189.9	99.5 96.7	300.4 94.0	190.2 00.3	198.7 84.0	181.9 83.4	194.3 82.3	196.7 63.0	196.8 80.9	110.7 81.5	114.9 83.7	
61	LEATHER AND FURTHERS Dullar Index Foreign Currently Index	190.0 290.0	8.5 9.3	101.3 94.3	194.4 72.8	104.7 88.7	106.7 87.2	188.9 97.8	185.9 86.7	118.5 84.0	115.7 96.9	118.8 89.8	
48	RUBBER HANNFACTURES Bullar Index Faraign Currency Index	198.0 199.0	77.4 18.1	98.4 92.7	7 .1	97.8 43.1	78.7 20.0	71.8 76.9	77.8 77.4	108.9 79.6	180.7 72.6	99.2 70.7	
43	COME AND HOOD HANGFACTURES Bullor Indus. Fereign Curtonoy Indus.	100.0 300.0	77.7 17.2	191.7 199.4	182.2 189.2	187.8 184.3	110.7 186.1	113.3 110.3	117.4 116.9	119.0 113.1	125.0 115.7	129.8 118.3	
"	Parts and Partsecane Paceuts Ballar Index. Fereign Currency Index.	100.1 100.1	77.5	100.1 96.7	99.3 96.0	99.7 15.9	77.7 15.2	77.9 72.0	184.4 75.7	104.8 91.3	104.7 91.8	щ.: ж.:	
	TEXTLES Baller Indux. Foreign Currency Indux	100.0 100.0	17.8 99.2	17.8 10.9	78.2 66.8	100.4 63.0	101.9 82.9	145.4 80.7	183.8 61.4	104.4 79.5	187.7 79.4	1849.8 79.2	
"	NEN-METALLIC NEMERAL MONUFACTURES Ballar Index. Foreign Currentay Index	100.0 100.0	98.4 93.5	192.£ 95.1	105.2 86.7	106.5 04.8	110.0 88.4	318.4 88.4	114.9 86.7	118.7 43-0	123.4 04.7	126.5 86.4	
•7	IRON AND STELL Ballar Induc. Foreign Curranay Induc.	100.0 100.0	2.1	7:3	97.8 81.6	2:1	97.6 78.3	98.3 67.8	97.9 70.1	181.1 67.9	186.0 68.7	199.2 71.1	
44	NGN-FERRIUS HETALS Ballar Index. Forsign Carvenny Index	100.0 100.0	100.5 W.5	182.2 98.3	18.2 87.4	3.2	8.3 81.7	192.0 84.4	2::	100.4 78.6	111.0 -06.2	119.6 91.8	
	HETAL HABLFACTURES, N.E.S. Bullar Index. Fereign Currency Index.	100.0 100.0	100.5 97.6	101.6 96.3	185.6 98.0	206.0 60.7	388.9 87.1	118.0 16.0	318.0 86.3	113.4 80.6	114.6 82.3	118.6 82.2	
.,	Manifett all transmost contracts Bullar Indian Paraign Currency Indian	200.0 300.0	181.0 97.1	101.9 99.6	188.5 87.7	389.7 67.2	113.8 87.8	116.2 #1.1	118.3 87.9	121.9 98.3	129.1 84.7	129.4 09.1	
,	NACHINERY (INCLUEDES SITE 72 - 77) * Ballar Index. Foreign Currenty Index.	180.0 180.0	281.4 97.8	182.7 96.5	105.3 87.0	107.0 48.7	113.1 66.3	114.5 84.3	117.6 86.8	121.2 63.7	123.3 82.6	123.3 62.1	
'n	MACHINERY SPECIALIZED FOR PARTICULAR DELETITED Baller Infor. Foreign Carrange Infor	150.0 150.0	180.8 18.8	285.4 99.4	399.0 60.3	114.5 87.1	128.0 87.5	134.6 86.7	125.4 96.8	132.6 66.1	135.1 00.2	133.1 94.7	
ħ	NETALIORIZIN NACHDERY Baller Irden. Foreige Carrency Indet	100.0 100.0	100.0 99.6	107.2 78.6	113.7 91.6	121.7 07.2	120-0 00-2	128.3 #1.6	134.1 89.8	341.8 88.7	344.1 60.5	180.2 70.2	1
l,	GREENL DRUGTELAL PACEDIZET, PARTS N.E.S. Buller Inder Paraign Carterny Inder	100.0 100.0	188.1 97.4	188.7 96.8	389.9 98.1	114.4 99.6	щ.;	125.5 70.7	127.7 92.5	133.1 71.8	137.9 91.4	137.0 90.1	
78	PFICE NACEDES NO AFORTE MATA MICEDEDE ENGLIGHEN Ballar Englis. Forsign Currency Englis.	180.0 200.0	99.8 96.4	180.8 99.1	194.4 88.3	200.1 04.5	113.1 #.5	134.4 81.7	134.3 43.3	118.2 79.3	118.8 79.6	119.2 78.5	
n	TELECONLECATION, SUMO MECHINE AND Spensicon Experiment Beller Duba: Foreign Curromy Duba:	190.0 190.0	98.7 96.1	98.1 92.5	18.4 83.2	77.3 76.7	101.0 78.5	104.1 72.4	184.3 74.6	105.1 71.5	186.1 48.7	186.4 68.2	
n	ELECTRIC MARINERY NO DELEVENT Baller Index	100.0 100.0	100.1	99.1 73.6	101.2 00.0	186.9 86.9	106.6	197.0 88.4	111.7 48.3	114.0	115.5 \$9.4	134.7 63.2	
78	RDAS VEREELES AND PARTS Buller India. Pareign Currency India.	100.0	100.S 97.0	101.1 94.2	188.7 99.6	110.7 60.0	114.0 68.4	114.4 86.1	119.5 8917	122.9 86.7	124.8 86.6	125.2	
•	HERC. HARFACTURES ARTICLES Buller Index. Forsign Currency Index.	200.0	181.0 98.5	184.7 18.4	183.9 99.5	186.B 92.6	188.0 72.6	112.9	113.0 %.t	117.6 98.1	121.8 75.6	123.3 13.4	
•	MESC. MARACTURES ANTICLES EX. COLS AND SILVER COURS ³ Baller Inder. Fersign Correctly Inder.	100.0	188.1 97.9	191.8 76.9	143.3 96.4	108.4 ¥2.1	107.1 92.2	110.1 71.4	118.6 91.7	114.9 91.4	118.5 91.1	129.1 91.2	

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-		Pier.	300	Sept.	Bee.	Her.	300	sept.	Pm.	Her.	300	Sapt.	-
2	PLIPEDE, HEATDE AND LIBITING FORTURES Ballar Indus Pereign Currency Indus	100.0	100.2	185.4 189.6	101.0	188.4	188.4 16.6	110.2	110.2	110.2	114.7	11.1	
	Aubertung and Pages Deller Indust Foreign Currency Indust	190.0 180.0	381.8 99.8	185.7 99.1	100.2	147.7	110.2 94.1	111.1	112.4	114.7	117.3	110.6	
	TRAVEL 40008, RANBAGS, AND SIXILAR SEDER (4/85/100) Dollar Index Fereign Currency Index	=	100.0	97.7 97.9	¥7.4	100.7		103.1	104.2	105.5	186.5	189.6	
	CLOTHERS Bullar Indus. Foreign Currenty Indus.	100.0 100.0	98.8 77.5	10.4 17.8	98.4 98.7	97.4 92.4	99.0 99.1	100.8	92.9 101.4 98.4	91.1 186.4 97.1	110.4	17.7 112.7	
	POOTHEAR Ballar Index Faraign Curvenay Index	108.0 109.0	-	183.4 182.1	103.9 90.7	187.8 97.2	183.8 93.4	186.1 91.8	186.9 91.0	100.4 00.7	111.4	113.6	
	PROFESSIONAL, SCIENTIFIC AND CONTROLLING INITIAMINTS AND APPARATUS Ballow Indux Farsign Currency Indux	100.0	185.5 97.1	110.0 77.7	114.0 19.5	119.3 W.4	125.1	112.4	14.3	149.0	346.2	142.4	
	ANDTOBRAPHIC APPARATUS AND SUPPLIES, OFTICAL SCORE, MATCHES AND CLOCKS Buller Proving Contents Foreign Converses Trains.	100.0	100.7 50.5	192.5	205.3	щ.;	124.1	128.2	un.e	129.0		127.3	
	MESC. NMANACTURES ARTICLES, N.E.S. Baller Index. Foreign Currency Index.	100.0 100.0	184.4	308.7	117.3 94.8	щ.е	111.4 11.7	113.1 113.1	ш.; 111.7	88.7 188.2	83.1 113.4	61.4 136.4	
	HCSC. HOAUPACTURES ANTICLES, N.S.S. EX. GOLD AND SILVER CODEL ³ Ballar Dada: Forsign Currency Indus.	100.0 100.0	188.4 97.5	205.7 18.6	196.4 10.3	110.1 %.0	114.1 W.6	114.4 92.1	114.1	111.1	128.4	129.8	

U.S. Import Ballar Prims and Fursign Currency Prime Induces - Numiral (March 1988-128 unless otherwise specified) -5-

Product ortegeries insluded in this SITC have been smilling due to conservations or overrage limitations.

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TABLE 2

igo Exchange Rates *

Average.	Exchange	, lates			
Laports					
(Hardh)	100	unless	otherwise	1000111001	

1976	Category		19	45		•	11	186			1.	N67	
SITC		Her.	•••	Supt.	bee.	Her.		Sept.	Dec.	Her.	300	Sapt.	Ľ
		180.0	36.6	78.9		83.6	42.1	79.5	80.8	76.7	78.3	N.5	
EX	ALL COMPOSITIES, EX PUELS AND MELATER									73.6		71.9	
	PROBLETS 3	100.0	2.5	73.4	87.2	82.4		91.2	111	43.4	82.7	42.4	
01	rise t	100.0			79.6	73.4	73.5	69.0	68.1	63.2	62.6	62.6	
62	Dairy products and eggs	100.0	94.1		75.4	91.0	98.4	88.8	69.8	85.2	43.9	83.1	L
63	Fight							· ·					Ł
-		108.0	16.0	93.5	89.4	88.9	46.2	61.6	62.1	77.8	77.4	77.0	
	REVERSES AND TOBACCO	180.0	92.9	86.3	83.5	76.4	76.1	7.1	77.5		67.Z		۱.
in in	Beversche	180.0	92.7	66.5	41.1	73.0	73.5	77.4	<i>n.</i>				1
2	CHUDE HATERIALS	100.0	98.4		77.4	2.1	2.1		110 5	197.4	107.0	100.7	1
23	Crude rubber	100.0				101.7	100.4	190.3	99.4	98.8		95.Z	L
24	Head	100.0			100.7	108.5	99.7		98.9	94.5	15.8	94.2	L
25	Pulp and weath paper	100.0	100.9		99.4	56.7	10.0	182.1	99.8		93.1	91.8	1
2	metalliterede and miml migrials.									i			L
27		100.0	95.4	92.9	86.5	42.4	82.2	79.8	79.0	75.0	74.3	74.1	L
	FUELS AND DELATED PROBLETS	199.0	97.7	96.6	96.6	96.7	97.7	182.7	113.6	111.7	111.1	110.0	L
	FATS MO CILS.	380.8	\$7.7	97.3	98.4	98.2		99.6	191.0				L
42	Vegetable eils	199.9	97.7	27.4	18.8		1 2 3	100.7	102.0				L.
	CHEMICALS AND WELATED PRODUCTS	100.0	1 2 ?			1 2 1			78.8	78.1		74.2	
52	Lorganie chemicals	100.0	2.7	1 22.4		3.1	7.4	7.4	79.7	65.8	44.4	44.6	١.
54	Hedicinal and provide products	100.0				79.2	78.6	71.4	71.1	64.5	68.8	45.4	1
22	teaching of a set in the set	100.0	97.9	97.1	97.0	96.0	95.4	99.2	95.6	89.0	89.9	86.6	
	Actificial mains and alastic marials	199.9	98.6	98.1	46.2	79.7	77.9	74.2	74.4	69.8	40.1	67.8	Ł
	Chemical enterials and products 0.0.0.	200.0	75.1	87.4	79.8	74.0	72.9	69.2	68.9	64.6	63.1	62.0	£ .
	INTERMENTATE HINLFACTURES PRODUCTS	200.0	96.4	93.6	60.1	83.4	62.0	78.9	79.3	2.2	1 7	1 7.	L
61	Leether and furnitive	300.0	98.7	91.1				4.7	1	1 "."	1	1 2 3	١.
62	Rater environments	3.00.0		2.1				1	1	1 2 2		1	L
63	Cork and send simularity	1	1 2 3	1 2 1		2.4			1	87.1	\$7.7	84.4	1
**	Paper and paperbaard products	100.0		8.7	87.4	41.4	41.4	78.1	70.5	79.7	72.8	72.3	L
	the statistic sizes and shares	190.0		91.1	84.5	78.9	77.7	75.9	78.2	49.9	60.7	68.3	L
	tere and steel	100.0	96.7	91.7	43.4	77.0	75.1	71.0	72.6	67.2	66.6	65.1	L
	time-former metals	200.0	1 %.*	95.2	89.8	86.6	84.8	82.6	62.9	78.1	<u></u>	70.6	L
	Hetal marufastures, n.e.s	199.0	97.2	99.8	66.6	63.7	81.7	78.2	70.5	1 2.4	1	1.1	L
j.	HACKINERY AND TRANSPORT DISCOPPIENT	198.8	96.2	92.9		1 2.4	1 11.1	1 2.4			1 3 1		E
7	MACHEDERY (DELLEDIS SITE 71 - 77) *	100.0				1.44.1	1	14.4			1		L
72	Hashivery epocialized for perticular				in .		7.4	44.7	49.6	64.2	43.0	62.7	L
	1/MAN Trins.	100.0				73.3	79.7	44.9	67.6	62.6	6.5	60.1	1
2	The sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of th	100.0		1 21.6	43.4	77.9	78.9	n.+	72.4	67.9	66.3	68.8	1
ä	Office apphings and externitie data		1					1_		1	1	·	L
	presseding equipment	1 200.0	\$ \$6.6	95.4	84.8	78.1	75.6	1 71.4	72.9	44.9	1 66.5	645.9	1
76	Talassumminations, sound resording and	1	I	1		1	1	49.8	7.7	67.6	6.6	64.1	1
	reproducing equipment	100.0	1 2.4	1 2 3		1		78.3	79.0	78.2	75.1	72.5	•
77	Electric sechinary and exclamate	1	1 22	1.63			77.4	74.6	78.1	20.5	69.3	66.7	1
78	Read vehicles and perti	100.	1 77.1	1 98.4	1 11.0	86.9	88.7	42.6	82.5	79.6	74.4	78.4	E
	NUME. NAME ACTIVATE ANTICALLY.	1	1		1	1	1	1	I	1	1	1	1
•	AND STINED COTOR 3	100.0	97.8	96.3	91.4	87.4	66.1	44.6		1 22.	1 2		L
81	Plushing, besting and lighting fisteres	100.0	10.3	97.2	98.4	1 22.4	1	1 22.2	1	1 23	1 77.3	1 76.4	1
	furniture and parts	1 100.0	97.Z	1 18.4	92.6	1	1 87.2	1	l	1	1	1	1
83	Trevel genes, burdings, and similar	1	1 a	1			1 48.7		49.2	86.4	61.5	60.0	1
	greds (5/85=100)	1 100.1	1.00.0		1	1.63	1 98.3	98.7	95.4	91.2	80.4	87.6	I.
84	Clothing	1 100	1 22.2	1	1	1 10.4	90.1	00.5	j 10.1	84.0	77.9	76.3	L
	Fee ball		1 7.	1 ~	1	1	1		L	I	1	1	1
87	Provide Land, Deservited and description	1 200.0	94.4	99.2	82.1	74.1	78.1	70.3	n.i	64.4	1		1
-	the transmission and purplicit.	1	1	1 7	1	1	1	1	1	1	1	1	L
-	matical masks, untakes and elasts	. 180.0	96.9	91.9	83.9	1 244	1 2 1	1 2.4	1 4 4		1 2 3	1 2.4	I.
	Kiss, any feetured articles, n.s.s	. 100.0		79.7			1	1					ч.

1 Product en lava keen a er enveragt perios instanted in this SITC lified due to conservience lisitudione

n.e.s. Het elemeters qualified. n.e. Het eveilable.

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TABLE 3 U.S. Expert Baller Price and Farsign Currency Price Induces - Namires] Henrih 1985-108 unless othernice specified) -7-

1976 11TC	Category	<u> </u>	1	985				184			1	987
		Mer.	4.00	Mept.	Dec.	***	300	Sept.	Bec.	Par.	3000	Supt.
	ALL COMPOSITIES Boller Index. Foreign Currenzy Index	100.0 100.0	108.8 %.5	**.* **.*	77.2 88.4		44.2 43.6	97.5 79.9	98.7 82.2	99.7 77.8	182.5 79.8	182.8 79.5
•	FCCB Doller Index Fersign Currency Index	180.0 180.0	96.1 96.0	94.2 88.4	17.7 10.9	1.5 77.0	15.4 74.5	** .•		83.3 62.7	87.1 65.9	83.4 14.4
2	NEAT Bollar Index	100.0	100.6	192.1	108.8	107.3	110.4	117.4	110.0	118.4	124.2	123.1
13	FISH Dollar Index	109.0	102.6	101.4	100.0	101.2	105.1	110.1	115.7	117.3	121.7	80.3 125.0
15	FRUITS AND VEGETABLES Dallar Indus	100.0	*6.7	93.4	62.5	78.3	74.7	73.4	79.8	78.0	78.8	77.5
*	Fersign Currency Index	198.0	97.8	77.3	47.4	60. 7	86.6	07.3	66.1	42.1	41.0	76.3
	Baller Index Fereign Currency Index	190.0	94.2 40.8	184.0	114.4 93.1	121.6 91.5	117.4 86.7	113.9 86.6	129.1 #2.5	117.7 78.4	128.7 41.6	126.9
••	Beller Index. Fereign Currency Index.	100.0 100.0	98.7 96.8	97.7 99.3	97.4 10.9	95.8 87.4	8.7 86.9	14.4 16.5	97.8 89.6	96.2 67.1	27.5 87.5	10.7 66.1
1	BEVERAGES And TOBACCO Boller Indus. Fernige Carrency Indus.	180.8 188.6	100.2 95.9	77.8 71.8	96.7 63.7	98.7 76.0	14.4 75.7	71.4	101.7	101.8 72.0	100-1 77-4	104.5
11	Boller Index. Foreign Currenty Index	100.0	101.3	17.9	97.0 87.6	21	24	18-3	21	100.7	100.4	100.4
12	TUBACCO AND TUBACCO PRODUCTS Builine Index	180.0	100.1	199.0	18.1	18.6	N.4	N.3	283.9	181.9	104.5	106.0
2	CRUDE MATERIALS Baller Indus.	100.0	8.3	91.8 95.7	83.4 m. 1	78.5	78.2	7.3	78.6	7.6	7.1	72.1
21	Fereign Currency Induct	199.0	96.7	67 .1	a.i	78.4	76.8	70.5	72.6	53	73.4	76.2
a	Poreign Currency Index	100.0	104.3 102.3	106.6 182.6	118.6	114.6 97.3	123.1 192.0	114.8 78.3	122.4	139.8	110.0 115.5	194.3 112.7
	Bellar Indus. Fereign Currency Indus.	100.0 100.0	186.5 95.6	98.4 BE.4	2.4 7.1	14.2 71.0	92.7 48.2	99.8 61.7	88.6 61.6	8.1 8.5	96.6 61.1	90.4 84.7
5	Churt August 1/25 Boller Index. Fersign Currency Index.	100.0 100.0	99.9 95.6	100.7 92.4	2 .4	99.4 80.8	99.7 79.9	97.0 76.2	98.1 78.1	19.4 71.7	181.0 71.6	182.4 77.1
24	NDDD Ballar Index Foreign Currency Index	100.0 100.0	97.7 90.7	96.7 98.5	27.5 20.1	100.0 77.5	100.0 74.5	108.8 71.0	136.3 78.4	108.4 73.3	113.6	138.2 67.6
8	PLP ADD HASTE PAPER Dellar Indust. Foreign Currenty Indust.	199.0 199.0	95.4 91.4	75.5	11.2	98.3 77 A	107.2	119.2	129.6	112.1	120.0	141.9
56	TEXTILE FIREMS Daller Indust	199.0	103.3	101.2	75.4	77.2	96.3	n.,	99.0	¥7.4	112.5	114.4
17	CRUBE HERELS Daller Index	100.0	100.7	94.4 187 1	æ.s	89.8 191 A	100.2	J9.6		78.9	65. 0	67.3
28	Pereign Currency Indus	100.0	98.0	96.7	87.5	43.7	ā.i	#: .	7.1	59.6	6 .3	ä :5
	Persign Currency Index	100.0	91.9 60.4	67.6 63.5	88.2 73.9	95.5 73.1	98.2 71.6	99.8 71.1	1.00 1.00	92.2 68-6	101.7 70.7	₩;
	Boller Index	180.8 180.0	99.1 98.3	97.5 90.6	2.1	11.8 76.7	86.6 69.3	88.4 18.3	84.4 58.0	88.5 62.1	84.3 68.3	83
	CHERICALS AND RELATES PRODUCTS Ballar Indust Foreign Currency Indust	180.0 180.0	99.8 96.1	100.1 73.3	97.4 87.2	77.5 67.6	98.4 81.2	96.8 76.6	16.1 76.2	99.4 78.7	284.5 79.4	187.3 79.7
n	ORENGIC CHERCICALS Bellar Indus Fereign Currumy Indus	100.0 100.0	182.9 99.2	105.5 %.5	181.7 66.7	22.7	18.2 77.0	15.4 72.9	98.3 79.5	106.1	un.,	110.4
PA	MEDICINAL AND PHARMACEUTICAL PRODUCTS (12/05-100) Dollar Index. Fernion Corners Index	-	-	-	100.0	2.1	101.0	100.4	100.2	100.4	100.4	201.2
5	ESEDITIAL GILS, POLISH, & CLEMENS PREPS Dollar Indea Persign Carroy Indea.	100.0 100.0	77.8 76.8	180.3	100.8 87.5	182.4 182.5	91.9 106.7 91.8	87.2 185.5 87.8	47.3 199.4 49.7	82.1 186.4	104.7	106.6

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(Nersh	1985-100 unless otherwise specified)												
			19				19				19	87	
1976 SITC	Callery .	Ber.	-	Sept.	Dee.	Bar.		Sept.	Deo.	Her.		Supt.	Pest.
						-			-				
84	FERTILIZERS, NOLFACTURED Baller Indus	100.0	78.8 12.4	97.1 92.4	27.3 09.7	95.6 86.7	8.4 81.6	83.7 79.4	2.3	8.5 70.5	*: ;	81.1 81.9	
58	ANTIFICIAL MESING, PLASTICS, & CELLIADGE Boller Indon Foreign Currency Indon	190.0 200.0	23	189.0 95.1	27.5	101.7 68.8	99.8 62.7	18.3 79.5	77.8 81.8	18 .7	₩.2	117.0 67.6	
54	CHEMICIAL MATERIALS AND PRODUCTS, N.E.S. Baller Indon Fersign Currency Indon	100.4 100.0	2%	2.7	7::	100.1 01.7	182.2 91.4	10.7 86.5	18.7 86.7	3.5 8.5	99.1 62.5	10.5 61.2	
•	DITEMENTATE HANJFACTURES PRODUCTS Gollar Indus. Foreign Curronay Indus.	100.0 100.0	77.8 76.7		3.2	198.9 98.8	181.8 88.6	182.6 87.6	103.3 48.4	108.0 66.4	187.4 84.7	189.2 87.2	
61	LEATHER AND FURBELING Bollor Indon Foreign Currenty Indon	198.8 199.4	74.0 96.1	92.4 87.5	2:1	2.3 2.3	198.0 88.0	182.1 87.6	186.7 91.8	116.7 98.0	122.8 78.6	128.8 %.3	
62	RUBOER HUMUFACTURES Baller Inden Foreign Currenny Inden	100.0 200.0	8.1 8.4	8.7 9.4	77.0 72.0	100.5 91.2	3.3	156.1 58.9	180.7 87.3	un.s 66.4	182.5 86-2	185.3 00-1	
•	Pargs and Paressona Paceucts Sellar Index	100.0 100.0	97.8 10.1	96.5 91.6	18.4 87.8	98.2 86.2	152.4 88.7	196.4 99.7	186.3 92.9	112.8 91.9	114.6 92.5	₩.1	
**	NON-NETALLIC HOMBAL HANDFACTURES (SVDD-100) Ballar Index Foreign Currency Index.	=	=	100.0 300.0	190.2 94.7	180.7 94.2	101.7 45.8	185.2 98.7	186.8 96.8	194.3 99.7	187.7 92.5	100.4 91.4	
67	INCH AND STEEL Ballar Indust. Foreign Carronay Indust.	100.0 100.0	2:5	100.4 16.8	182.8 76.0	185.0 94.2	194.1 19.5	104.7 74.0	184.8 96.0	196.3 92.4	186.3 91.7	187.2 91.4	
••	NCH-PERIOL NUTALS Buller Index Foreign Currenty Index	100.0 100.0		180.1 73.0	2.1 2.1	188.6 82.3	77.3	7::	98.9 76.2	100.0 73.1	113.0 10.7	110.7 63.9	
••	NETAL MANAGEACTURES, N.E.S. Buller Inder Farmige Correctly Inder	100.0 100.0	2:	250.0 18.0	99.1 91.4	99.9 89.8	300.1 87.4	300.E 80.3	100.3 89.0	100.3 84.9	190.t 84.5	3 8 .1	
;	NACHDRENY AND TRANSPORT CULTIPRINT, CL. PELITARY AND CONVERCEAL ASSOCIATY BOLLING Today: Furnige Currenty Index.	100.0 200.0	100.4 97.1	108.4 94.9	100.7 91.9	381.2 87.4	161.3 89.9	181.6 87.7	182.2 86.2	182.7 84.1	183.1 63.9	185.4 83.3	
,	Decemberry (Declardes SITC 71 - 77) ³ Ballar Index Foreign Carrency Index	: : ::	100.4 74.3	100.4 95.3	380.1 88.4	100.4 10.5	100-1	100.7 82.7	281.8 63.5	¥9;3	181.8 78.6	182.2 78.2	
n	PG-18 BERRATING PROXIMENT AND BULLFAINT Baller Indust Foreign Currency Indust	100.0 100.0	181.3 97.6	181.1 94.8	101.5 91.1	182.3 88.7	188.4 88.4	182.8 86.6	183.7 87.4	184.7 63.5	183.9 82.3	104.7 62.3	
n	MACHINERY SPECIALIZES FOR PARTICULAR DEMETRIES Boilor Deme	100.0	100.8	100.6	100.8 91.2	100.3 87.8	2:	100.0	199.5 96.5	27.6 62.6	100.6 81.8	191.0 61.4	
п	PETALORIDA PARADERY Bullar Index. Persian Corrector Index.	100.0	101.1 97.4	181.9 18.5	186.3 %.4	185.7 89.7	103.6	100.0	186.5 09.0	197.4 86.6	108.1 88.4	-209.4 66.8	
. "	CONTRAL DEMETRIAL MICHDES, FARTS N.I.S. Bollar Index. Farting Converse Index.	100.0	2:7	100.0 78.0	97.9 91.8		388.6 87.5	393.3 87.8	181.9	283.5 87.1	103.8 86.6	183.4 88.8	
78	CVFICE PACKDES AND AUTOMOTE BATA PROCESSION DULLPHONT Builter Index	100.0 300.0	#:1 #:7	7 .1	2:5 2:5	97.0 77.3	10.5 70.1	10.0 77.5	77.2 76.8		7 ; ;	2:	
N	TELECONDUCATIONS, SOLES ASCONDER AND REPRODUCTION DALLON DALLON AND Ballor Index	100.0	180.0 76.7	100.4 94.8	200.9 90.9	182.4 97.0	1111.8 08.7	123.4 67.4	186.4 68.7	186.0 186.0	388.4 84.9	186.9 63.6	
77	ELECTRICAL MICHINERY AND COLUMNAT Baller Index Foreign Currency Index	100.0	181.0 96.9	100.3	2	100.8	77.4 88.9		100.0 61.1	181.8 79.2	102.2	182.3	
78	ROMB VERECLES AND PARTS Baller Index. Persign Currency Index.	188.0	100.6	180.5 96.7	101.4 100.3	101.0 100.1	102.5	199. S	103.0	183.7	194.1 97.5	386.4 96.8	
'n	OTHER TRANSPORT SELEPHENT, DK. HELETARY AND COMPERIENT AIRCRAFT Bullar Zuden. Forsign Currenty Inden.	: 100.0 100.0	100.4	181.9 97.8	182.7 18.2	194.0 95.1	: 1 1:1	186.1 99.6	197.1 96-6	188.1 73.8	199.4	110.1	
•	NINC. NAMERIACTURED ANTICLES Boller Index	100.0	100.9	100.0	100.8 87.8	103.1	115.	104.4 83.3	104.4 63.1	305.8 79.6	107.4 80.0	100.1	
	testurin at and of table.	•	•		-								

U.S. Expert Ballar Price and Fernign Currency Price Industs - Nomiral

H.S. Depart Buller Price and Pereign Currerup Price Indexes - Reminul (Rarch 1987-186 unlass offernics opecified) -9-

ž	Calegory		1	146		•	2	986			1	967	
		Her.	3000	Supt.	1	Rer.	5	Supt.	Bas.	-		Supt.	-
	Pinetrum and parts Ballar Indus. Foreign Currency Indus.	180.0 180.0	181.0 98.6	181.4 97.7	285.0 94.9	184.2 %-2	104.8 96.7	105.1 96.0	105.9 96.8	180.S 10-2	199.9 18.9	189.8 96.1	
	PAPERSEDIN, SCIENTIFIC AND CONTROLLOS DISTURBUTS AND APPARENTS Builder Dedar Paraign Carronay Index	199.0 199.0	181.4 96-0	181.a 98.3	181.9 \$7,4	188.a 89.5	194.7 01.3	394.7 81.8	186.3 82.4	186.2 70.2	187.4 77.9	188.4 71.6	
	PROTOGRAFIC ATTACTUS AND SUPPLIES, STITUL DEES, MITTELS AND CLACKS Builder Defen. Persign Corveray Index.	100.4 100.4	188.9 18.5	97.6 17.2	100.4 91.6	386.4 66.3	186.8 82.8	188.7 79.6	105.1 79.2	196.g	104.0 73.6	181.E 71.4	
	NESC. HARAFACTURES ANTICLES, H.B.S. Bullar Jodgs. Paraigs Currency Indus.	180.0 190.0	100.0 96.5	199.8 18.3	100.0 80.2	188.5 87.4	105.5 81.4	148.4 86.5	188.7 68.7	186.2 67.1	110.5 89.5	111.5 80.5	

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TABLE 4

			т	ABLE 4									
er eg	s generates antes I service unless otherwise contified)			-10-				·					
aron.				-10-									
74	Catagory		19	85			19	*			1	87	
TC		Ner.	3.00	Sept.	0 .	Her.	202	Sept.	Bas.		Am	Sept.	Dec.
		309.0	98.5	75.8	89.1	66.3	M.3	42.0	82.3	78.1	77.1	76.4	
	FOOD	100.0	96.8	75.9	86.7	43.8	22.4	76.6	79.0	78.3	73.4	77.8	
	Heet	100.0	23	77.7	83.9	- 23.4	7.4		49.0	44.4	62.3	61.0	
	Figh	108.0		13.5	88.0	43.7	82.3	. 79.4	80.0	78.7	76.7	76.1	
	Animal funds, or. urmilled corvals	108.0	94.2	89.2	81.3	75.1	75.9	69.1	44.5	.	43.3	43.0	
	Hime. feed preducts	100.0	2.1	2.5	73.4	71.1				70.7	49.8	49.2	
	BEVERAGES AND TOBACCO	100.0		8.3		84.4	88.7	83.8	43.9	79.5	78.8	78.1	
	Televersity and televers products.	108.8	98.7	11.6	84.5	79.0	78.0	74.1	74.2	70.2	49.0	68.7	
	CRIDE MATERIALS	108.8	96.4	93.1	65.7	79.8	78.0	79.3	7.1	79.7	10.0	222.1	
	Res hides and skins	100.0	2.1	20.5		78.4	73.4	49.8	49.4	43.3	43.2	62.6	
	Cilseed	100.0	95.7	92.0	86.1	81.2	88.1	77.0	76.5	71.0	70.9	70.4	
		288.0	97.0	95.6	84.5	77.8	74.5	70.4	72.0	67.9	48.6	***	
	Pulp and mate paper	100.0	95.7	92.1		77.1				77.4	75.4	78.0	
	Tactile fibert	100.0			87.5		41.3	78.2	78.4	74.1	73.0	72.4	
	Crude sinerels	100.0	16.2	92.9	86.1	40.5	78.7	73.8	75.5	71.2	49.5	60.9	
	THELS AND MELATER PRODUCTS.	100.0	96.2	73.2	86.4	81.4	80.0	76.5	76.8	72.7	2.5	70.4	
	CHERICALS AND RELATED PRODUCTS	100.0	94.3	91.2	87.4	43.5	62.5	77.7	77.7	7.1	7.4	7.1	
	Organic chasicals	178.4	114.4	189.4	100.0	92.7	91.0	86.7	87.1	81.8	80.3	79.8	
	findicingi and proreconstant premists fillow for	100.0	96.5	93.7	89.5	84.4	46.7	84.3	45.1	81.2	80.1	79.5	
	Factilizars, margingtored	100.0	97.2	95.2	12.2	69.7	98.1	88.9	90.0			44.1	
	Artificial resine, plastics, 8 callulose	188.0	2.1	93.1	80.1	84.0	43.0		41.2	2.7	10.7	47.6	
	Chunicel seturials and products, n.o.s	100.0	77.1		91.1		67.0		86.5	61.3	40.7	79.9	
	INTERPEDIATE POOL ACTURE PRODUCTS	188.8	i	96.7	75.0	87.6	48.6		16.3	62.1	80.5	79.7	
	biller servicebres	100.0	97.1	96.2	12.9	90.7	99.1	40.0	86.7	84.5		63.3	
	Paper and paperbased products	100.0		98.0	2.2	67.8				84.4	45.0	m .1	
	Non-estallis minural monstactures (W28+100)	100.0	97.1	95.4		1.4			99.6	86.4	86.2	45.5	
	Iren and stell	180.0	96.1	92.9	86.7	81.8	79.9	76.6	77.1	72.6	71.4	78.7	1
	Hutal menufactures, R.C.S	199.9	97.8	98.0	\$2.3	87.7	69.3	66. 1	88.6	m .7	m	43.4	1
	MACHINERY MO TRANSPORT ENLEMENT, EX.						87.9	86.3	66.3	61.6	41.4	80.4	1
	HELITARY MO COVERELAL ALACANY	100.0		75.0	60.5	88.0	84.3	82.4	82.5	78.1	. 77.E	76.5	
	Poper expecting mehicary and endometer	188.8	\$6.4	95.A	98.8	86.7	66.3	84.5	3.40	79.6	79.2	78.4	
	Hestinery specialized for perticular										A1.3		
	industries	100.0	24	23		 7		8.1			79.1	78.4	ł
	fatablering moning, and and	100.0	97.6		91.9	89.4	87.8	\$7.9	88.4	40.Z	83.6	82.8	
	Office methines and extension date				1								
	promising equipment	100.0	m. 7					1	1 14.7	1	1		
	Telesemministion, used recording and	100.0	96.7	9.5	90.1	86.7		8.5	M.7		77.5	79.0	
	reproducting outport	100.0	98.9	13.6	80.5	65.E		42.2	62.	1 77.1	1 2.1	14.2	i .
	ment vehicles and parts	180.6	98.5	14.2	90.9	98.4	1 17.8	7.4	78.7	1 ***		1	1
	Other transport anglement, et. military	1		1	1 10.7	89.6	89.7	89.4	40.3	86.6	46.1	M.8	1
	and emmercial sirereft	199.0	1 10.5	92.0		82.0	41.0	79.7	79.8	78.2	79.2	1 2.7	
	Burniture and earth	180.0	97.7	96.1	**.1	92.3	92.2	1 2.8	1 12.4	67.8	\$7.6	1	i .
	Professional, estentific and centralling	1		1			1	1	78.5	1 75.7	72.5	72.0	
	instruments and opporatus	100.0	1 46.2	1 41.0			1		1	1		1	1
	Protographic apportant and supplices	300.0	8.7	98.6	84.5	48.0	78.9	76.7	76.8	1 7.1	n.•	1 2 1	1
	Shaper land water and grant the state	180.0	1 18.8	\$2.6	6.2	84.7	43.7	44.9	1 42.0	1 7.3	1	1.0.0	

1 Product entreprise included in Weis SITC n.e.s. Met algoriers specified. News been melified due to enserderen n.e. Met excludes. or coverna limitation.

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CHART A ALL IMPORTS EXCLUDING FUELS

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CHART C ALL EXPORTS







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Senator SARBANES. Senator Melcher.

Senator MELCHER. Commissioner, earlier you told me that you thought maybe you ought to do more on areas. I don't want to discourage the BLS from doing anything they want to because the more information you have the more answers I guess we can attempt to gain from that data.

But I wonder why not on energy—just do it on energy because energy is produced and the workers are involved in the industry whether it is in Louisiana or in Montana. It doesn't make any difference.

Mrs. Norwood. Yes, of course.

Senator MELCHER. Also, on forest products it doesn't make any difference whether the mill is in Oregon or the mill is in the Southeast, in Georgia.

Mrs. Norwood. We do have information, of course.

Senator MELCHER. You do have that?

Mrs. Norwood. Some information on prices and on employment. Senator MELCHER. When you say prices, you mean prices of the product, of the commodity?

Mrs. Norwood. Yes.

Senator MELCHER. That is a correlation that----

Mrs. Norwood. At the producer and at the consumer level.

Senator MELCHER. The correlation I am seeking is the price of the commodity in energy or agriculture or forest products or mining and the relationship it has with both employment and naturally that would indicate, I think, an expansion of that particular industry because the price of the commodity is rising.

Do you have that sort of data?

Mrs. Norwood. Yes. I will be glad to look at that, and we will submit it for the record.

Senator MELCHER. I think that would be a better measuring stick for what is the underlying economy of the country and perhaps would give us a better indication of whether we are moving forward.

I know that the commodity prices in mining seem to be going up, should be reflected in a strengthening economy.

Mrs. Norwood. Yes.

Senator MELCHER. Thank you.

[The following information was subsequently supplied for the record:]

The tables attached show trends in employment and producer prices for metal mining (iron ore), oil and gas extraction, petroleum and coal, lumber and wood, paper, leather, and agriculture and food processing.

M	1 M	INO	

Teer	AR.	Jan.	Feb.	Nar.	Açı.	itay .	June	July	Aug.	Sept.	Oct.	Nev.	Dec.	Year	ian. Int	Jan.	Feb.	Har.	Açı.	May	June	July	ANL	Sec.	0et.	Nev.	Dec.
				MODUCTI	CANNONI-NO	R AVEINGE	HOUNLY E	-Conunci	NI COLLAR	3																	
1970 1979	7.67 8.49	6.90 8.21	6.92 8.22	6.94 8.28	7.61 8.55	7.63 8.46	7.69 8.50	7.82 8.53	7.80 8.49	7.95 8.50	7.96 8.58	1.06 1.72	8.06 8.74	SIC	10-1	IETA		ling	(Con.) Man over 1		CAN'TE					
1980 1981	9.17 10.04	4.86 9.77	1.19 9.45	6.94 5.84	9.09 9.71	9.06 9.68	9.15 9.92	9.07 10.08	9.16 10.11	9.30 10.25	9.36 10.23	9.49 10.37	9.56 10.34	1942 1943	132.3	133.7 128.4	133.8 128.5	135.8 128.2	135.4 127.4	135.6	134.7 127.0	134.1 125.1	132.3 122.8	129.3 126.8	127.4 124.6	127.9 122.1	127.5
1982 1983 1984	10.77 11.27	10.63	10.59	10.59 11.16 11.60	10.60	10.62	10.78	10.86	10.87 11.25	10.98 11.33	10.95 11.33	10.99 11.40	11.01 11.43	1944 1945	105.7 89.3	118.7 94.6 87.5	117.6 93.6 77.4	115.2 93.8 76.2	112.9 92.7 73.4	110.2 91.9 78.6	107.8 90.1	104.0 88.2 90.0	102.1	94.5 94.7	95.4 84.1	91.6 85.1	92.6 87.0
			11.43		ICOUCTION	HUNKER /	VERAGE W	EEKLY HOU	85					1947 1948	103.0 104.2	100.3 104.9	101.3 105.1	102.7	103.5	103.2 105.1	104.4	103.2 105.1	104.0	102.6	102.5	104.1 201.7	104.4 103.0
1947 1948	40.8 39.4	43.7 41.0	41.7 39.8	42.0 40.6	38.3 35.0	42.6 40.8	42.8 40.4	37.0 36.9	40.0 40.6	40.2 39.1	40.8 40.2	39.7 38.6	40.8 39.7	1949	97.7	102.5	105.9	106.8	107.7	105.7	104.5	94.5	97,7 98 A	95.5	67,5	86. 4	93.6 100.6
1950	37.9	40.0 32.1	36.0	37.5	36.5 32.0	39.1 37.4	34.6 17.6	33.2 38.7	32.6 311.2	33.7 32.4	40.0	ઝડા સાર	32.0 19.5	1951 1952	101.0 99.8	100.1 104.5	100.6 104.8	100.0 104.7	99.4 105.4	99.4 105.7	101.1 75.3	101.6 72.4	102.0	100.6	101.1	102.6	103.7 106.7
1951	38.4 38.5	39.4 40.2	372	36.5	37.2	37.6 37.8	34.1 36.6	37.9 36.5	14.3 39.3	39.1 41.0	39.7 38.3	39.2 39.7	40.1 39.7	1953	106.0 99.3	105.0	106.5 103.9 94 1	105.6	105.2 99.5	105.6 100.1	105.9	106.2	105.6	105.7 91.8	105.6 92.6	105.4 96.4	106.2 95.4
1954	31.6 40.7	39.2	37.8 40.4	36.9	36.9 40.1	38.0 41.0	393	38.5 41.2	39.3	34.7 40.7	39.7 41.0	39.8 39.8 40 1	40.4	1956 1957	108.8 111.4	106.9 111.4	100.2 111.4	108.8 111.5	110.0	116.2 113.7	112.4	85.4 115.2	110.8	114.6	113.3	112.3	112.2 105.4
1956 1957	40.8	41.1	40.5 40.4	40.4	40.6 40.1	40.8 39.8	40.9	40.9 40.5	40.4	41.3	40.9 40.0	40.1 34.7	41.2 39.5	1958 1959	93.2 83.7	101.0 94.8	97.4 94.3	95.2 93.7	91.2 96.4	91.9 97.2	93.3 94.3	91.1 97.9	11.6 71.8	90.9 54.4	90.0 53.9	94.0 75.1	93.9 76.4
1950	40.5	39.7	39.8	40.1	40.2	40.7	41.5	39.0 39.7	41.0	40.5	40.9	59.8 40.4	40,4 41,4	1960 1961	93.8 87.4	81.4 90.9	90.2 87.2	91,7 17,3	96.9 86.7	98.1 87.8	98.6 88.9	96.3 81.8	96.6 85.8	95.5 88.0	94.3 85.9	91.4 87.0	91.8 84.1
1960 1961	40.4 40.5	40.3 40.1	39.4 39.6	40.6 38.9	40.9 39.5	40.9	40.9 41.0	41.2 41.5	40.8 41.1	40.4 40.9	40.4 41.8	39.7 41.0	39.5 40.7	1962 1963	12.3 79.7	84.7 76.5 77.6	84.1 77.1	84.5 76.9 78.6	85.3 79.4 10.7	86.6 80.6	87.2 81.5	85.8 81.8	81.6 81.9 76.1	78.1 81.5	77,1 10.6	76.6 79.6	75.4
1963 1964	41.6	40.9	40.9	40.8 40.5 41.2	41.0	40.9 41.9 42.1	42.6	40.7 41.2 41.4	41.6 42.0 42.3	41.5 42.2 41.6	41,4 42,4 42,7	40.9 41.4 42.4	40.9 41.7 42.0	1965 1966	83.8 86.5	82.1 84.4	81.8 84.8	82.3 84.6	13.1 15.2	83.4 86.2	84.7 84.7	64.8 68.6	85.7 89.5	84.4 88.4	83.6 86.4	85.2 85.7	64.6 85.0
1965 1966	42.3	41.8	41.3	41.7 42.7	417	42.7	42.7	42.5	43.2 43.1	42.4 43.0	42.8 43.3	41.8	42.8 42.5	1967 1968 1969	79.2 82.0 89.2	85.3 64.8	86.1 67.0 85.4	86.8 68.7 86.7	86.8 85.0	87.6 86.3 82.0	90.3 89.1 90.3	90.2 90.5 91.7	71.8 89.1 82.5	67.6 87.4	66.2 85.5 90.0	65.8 85.5 91.7	66.0 85.0 90.4
1950	426	41.4	41.7	41.8	233	41	413	43.5	433	412	41.6 43.3	42.8	41	1970	93.3	90.7	91.1	91.4	92.0	92.4	96.1	96.9	96.2	95.2	92.1	92.0	\$2.6
1970	01	23	42.6	42.3	411	42.6	42.1	429	26	42.3	42.9	42.6	41	1972	82.7 87.4	\$3.6 \$3.3	83.0 83.0	90.1 82.6 83.5	90.6 82.2 85.0	43.0 46.5	14.1 14.1	81.6 21.5	80.6 89.1	82.0 83.2 89.4	82.5 82.5	87.7 83.0 91.2	64.0 62.7 90.8
1972 1973	21	415	422	42.4	41	21	42.9	425	42	42.9	43.0	42.1	42.2	1974 1975	95.4 93.5	92.0 96.8	92.1 94.8	91.9 93.3	93.4 93.6	95.0 94.0	97.7 95.1	96.9 92.9	94.4 92.2	97.2 93.2	97.9 92.2	98.0 92.0	98.3 92.2
1974 1975 1926	41.9 41.9	42.0	42.6	42.4	42.6	43.0 42.4 47.0	411	42.6	42.4	42.7	43.1	35.6 42.7	40.8	1977	90.3 91.7	96.5 90.8	97.0 91.5	97.3 92.4	97.9 97.9 92.7	99.9 92.9	102.2 94.7	89.0 94.4	37.1 80.4 95.1	90.9 77.8 94.4	78.2 94.7	79.2 95.2	¥7.5 \$7.5 \$5.6
1577 1970	44	4.7 4.4	42.4	41	43.2	432	43.6	44.1 43.2	84 403	44.1 43.5	45	43	42.1	1979	101.0	95.4	96.2	97.3	97.8	98.9	102.3	104.0	104.7	103.4	103.3	104.4	104.7
1979	43.0	42.4	42.6	42.9	42.6 42.9	42.1	432	41.7	43.1	435	417	43.7	439	1981 1982	103.7 72.9	104.8	105.1	104.6	104.0	104.9	106.4	105.7	105.8	104.4 50.8	101.2 57.9	99.7 57.6	97.5 57.7
1901 1962	42.7	0.7 429	42.9	42.4	87 424	43.9	42.3	43.6	42.5	43.9	44.6 41.9	44.4 41.7	41	1983 1984		-52	201.2 W		-		÷.		-				
1963	42.5	43 43	41.4 42.9	41.8 42.8	41.7 43.0	42.2	42.5	42.1	42.6	43.1	43.2	42.9	43.4						WOMEN	EMPLOYEE	5—10 Thời	USANOS					
SIC	10 N	IETA	L MIN	ING									1	1960 1961	2.5 2.4	2.4 2.6	25 24	2.6 2.4	2.6 2.4	26 24	2.6 2.4	2.6 2.5	25 24	25 22	25 22	25 2.1	2.5 2.3
1836	102.6	95.7	98.4	98.4	ALL D	MPLOYEES-	-W THOUS	ANDS 100 P	100.7	104 5	inei	109.9	110.0	1962 1963 1964	2.4 2.2 2.0	2.3 2.3 2.0	2.3 2.3 2.0	23 23 20	2.3 22 2.0	2.3 2.2 2.1	2.4 2.2 2.1	2.3 2.2 2.1	2.5 2.3 2.0	2.4 2.3 2.1	2.4 2.2 2.0	2.4	2.4 2.1 2.0
1940	1152	109.5	109.4	109.2	111.4	1139	115.6	117.6	117.9	119.4	119.6	119.5	119.3	1965	21	2.0	20	20	2.0	2.0	20	222	22	21	20	20	21
1941 Sa	128-3	119.4 at cost at	LZL.1	172.\$	1272	126.0	130.5	130.9	132.7	131.7	132.1	131.8	133.0	136/		2.1		2.1	2.1	12	12	23	25	7.1	<i>u</i>	13	2.3
-					0	LPAR	TME	NT (DF LA	ABOR	2		1	1													

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SIC	101											·	MIN	ING													
Year	And And	Ala	Føb.	ilişr.	Apr.	ilay	June	Judy	ar A	Sept.	0ct.	Nov.	Dec.	Year	Ana. Ang.	Jan.	Føb.	Nar.	kçı.	Hay	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
SIC	101—	IRON	ORE	s										sic	101—	IRON	ORE	S (Co	on.)								
					ALL E	PLOYEES	-HI THOU	SANDS											PRODUCT	ION WORKS	3 5—10 TH	OUSANOS					
1947 1948 1949	34.3 366 33.7	30.9 34.9 36.2	31.2 35.0 36.3	322 355 363	33.6 36.5 37.6	34.4 36.7 37.6	37.6 37.9	35.6 37.8 37.5	35.8 37.9 37.1	35.8 37.6 36.6	35.7 36.8 9.4	36.1 36.3 21.0	35.0 36.2 33.1	1951 1952 1953	33.5 29.0 35.0 30.2	32.3 33.0 34.0 33.9	32.4 32.8 33.6 33.0	32.3 32.6 33.6 32.1	32.8 33.8 34.1 31.0	33.6 34.3 35.1 31.5	34.4 39 35.7 30.7	34.1 29 35.9 31.0	34.6 35.5 36.0 30.1	34.5 35.4 35.9 29.4	338 34.7 35.4 21.1	336 345 353 267	33.4 34.5 35.3 75.0
1950 1951 1952	355 37.7 33.5	34.0 36.2 37.3	33.6 36.5 37.1	33.9 36.4 37.1	13.8 36.9 38.2	35.4 37.7 38.8	36.1 38.6 8.0	36.6 38.5 6.9	37.0 39.1 40.2	37.2 38.8 40.1	36.6 34.2 39.3	36.1 37.8 39.2	35.9 37.7 39.2	1955 1956 1957	29.4 30.1 34.0	25.5 30.2 31.5	25.7 30.3 31.3	25.9 30.7 31.3	27.3 32.8 32.7	29.3 32.4 35.2	29.9 33.0 35.6	31.5 6.3 35.9	31.9 32.1 36.6	32.1 34.5 36.2	31.6 33.8 35.2	31.3 12.7 34.1	306 321 328
1953 1954 1955	40.1 35.2 34.2	31.9 39.1 30.3	38.4 38.2 30.2	38.5 37.3 30.5	39.2 36.0 32.1	40.3 36.4 34.1	40.9 35.8 35.0	41.2 36.0 36.4	41.3 35.1 36.9	41.1 34.4 37.1	40.7 32.9 36.6	40.5 31.4 36.2	40.5 29.8 35.5	1958 1959	26.8 23.0	29.7 26.6	28.1 26.7	27.1 28.0	23.4 29.4	25.0 30.3	26.4 30.6	26.2 30.5	25.9 65	27.9	27.8 5.9	27.1 27.2	24.3
1956 1957 1958	35 1 39.4 31.6	35.1 36.3 35.1	35.5 36.2 33.3	35.8 36.2 32.3	37.8 37.9 21.9	37.1 40.2 29.9	38.2 41.0 31.5	11.3 41.5 31.4	37.1 42.5 30.9	39.6 42.1 32.7	38.9 40.8 32.7	37.5 39.7 32.0	36.8 38.3 31.1	1960 1961 1962	28.6 22.3 21.0	28.9 23.4 21.7	29.1 21.9 21.6	29.3 22.3 21.3	29.9 21.8 21.9	30.9 22.5 23.0	30.9 22.7 22.9	29.7 22.8 22.2	29.6 21.1 21.6	28.2 22.8 19.9	27.6 22.3 19.4	24.4 22.4 18.6	24.9 21.1 17.8
1959 1960	27.7 33.2	31.4 32.9	31.6 33.2	32.1 33.6	34.3 34.4	35.3 35.4	35.7 35.6	35.7 34.5	11.3 34.3	33.1	10.4 32.5	31.1 29.5	32./ 23.8	1963 1964 1965	20.4 21.0 22.0	17.0 19.3 20.9	19.5 20.9	18.4 19.5 21.4	20.9	21.7	21.9	22.0	21.5	21.9 21.9 22.4	21.7	212	205
1961 1962 1963	26.2	26.2	26.0 22.0 21.1	22.1	26.2 23.1 23.4	27.3	27.2	26.4 26.0 25.6	20	239 236 257	23.3 25.1 25.5	20.3 22.4 24.4 24.9	21.7	1967 1968 1969	21.3 20.8 20.7	20.6 20.1 19.0	20.5 21.0 20.4 19.8	21.0 20.6 20.0	21.0 21.1 20.1	21.6 21.5 21.1	224	22.0 22.6 21.8	22.0 21.1 21.9	21.7 21.0 21.6	21.2 19.9 20.8	20.6 19.8 20.5	203 191 203
1965 1966 1967	25.9 26.0 25.6	24.6 25.0 24.7	246 25.0 25.1	25.1 24.7 25.3	25.6 25.4 25.2	26.4 26.6 25.9	26.1 27.3 26.7	26.5 26.7 26.4	26.6 27.2 26.3	26.6 27.3 26.0	26.4 26.6 25.5	26.3 25.4 25.0	25.6 24.7 24.6	1970 1971	21 1 20.4	20.1 20.0	20.3 19.8	20.2	20.7 20.6	21.3 20.9	22.3 21.7	22.3 22.0	22 6 21 6	22.2 20 8	20.9 20.7	20 I 19.9	207 169
1958 1969	75.) 25.5	24.4 23.6	24.7 24.6	25.1 24.8	25.6 24.9	26.0 25.8	26.7 26.7	27.2 26.6	25.7 26.8	25.6 26.3	24.4 25.4	24.3 25.1	23.7 24.9	1972 1973 1974	17.7 19.2 19.5	17.2 17.6 18.8	17.2 17.5 18.7	174 17.8 18.2	17.5 19.0 19.1	18.4 19.8 19.6	18.7 20.0 20.1	16.9 201 20.0	165 201 201	186 199 196	18 2 19 6 19 9	182 193 196	175
1970 1971 1972	26.0 25.2 22.0	24.7 24.7 21.6	25.0 24.5 21.6	24.9 24.8 21.7	25.4 25.3 21.4	26.1 25.7 22.5	27.2 26.7 23.1	27.4 26.9 21.1	27.5 26.6 20.9 24.7	27.3 25.8 23.0	25.4 22.6 24.0	24.9 24.7 22.5 73.7	23.4 21.4 21.8 23.5	1975 1976 1977	19.0 19.8 14.6	19.0 17.9 19.6	19.1 18.2 20.0	19.1 18.7 20.1	19.4	20.2 20.3	20.7 20.8 20.2	20.8	209 5.8 205	207 54 205	203	19.8 50 20.1	195
1974 1975	23.4	23.2	23.0 23.6 27.4	25	23.5	24.1 24.2 24.9	24.5	24.4 23.6	24.5 23.2 25 8	23.9	24.2	23.9 22.8 24.6	24.0 22.5 24.3	1979 1980	19.9 16.7	19.7 19.3	19.3 19.0	19.4 19.1	19.3 17.8	19.7 10.1	20.1	204 157	20.3 14.4	203	20.0 14 3	201	i9 8 15 3
1977 1978 1978	19.3 24.2 24.8	24.4 21.9 24.3	24.9 22.2 24.1	25.0 23.4 24.2	24.8 23.6 24.2	25.3 24.3 24.5	26.0 24.8 25.0	25.1 24.7 25.4	10.1 25.2 25.6	9.6 25.1 25.3	9.5 25.1 25.0	9.1 24.9 25.0	18.0 24.6 24.8	1961 1962 1963	16.4 9.3 6.9	16.5 14.5 7.1	26.6 14.0 7.4	16.8 13.4 7.2	17.1 12.2 7.0	17.2 11.6 7.2	17.9 11.1 7.5	17.2 8.9 7.3	17.0 54 6.7	169 50 53	15.3 5.1 7.0	147 51 66	136 58 67
1980	21.6	24.2	23.9	24.0	22.9	232	23.0	21.0	19.6	19.3	19.0	18.4	20.1	1364		7.3	1.3	8-3 2000/070	DI. MOREE	AVERACE -	9.9 16661 V 64		in DCLLAR				
1982	132	119	182	181	16.5	15.3	15.3	13.0	191	ii.	15	8.0	9.5	1939	26.09	24.73	25.40	25.37	23.45	75.28	26.02	23.63	26.20	កររ	29.75	21.30	27 97
1984		والليدة	1.1	-										1940	28.50	27.90	28.08	27 45	26.68	28.31	27.60	28.54	29 I.0 15 79	29 06 34 71	30.52	28.46	29.89 74.41
1939	20.8	11.7	18.9	19.1	PRODUCT 19.8	ion worki 20.6	985401 TA 21.5	IOUSANOS 21.6	21.9	22.4	22.1	21.4	21.4	1942	36.74	34.18	35.98 37.45	35.42	36.09	37.92 40.68	37.93 41.50	36 29 40 41	37.60 43.17 42.13	36 04	37.74 43 11	37 85	37 43
1940 1941	23.5 27.9	21.0 23.8	20.8 24.5	20.8 25.0	21.8 27.6	23.4 28.4	24.5 28.9	25.1 28.3	25.4 29.6	25.5	25.2	24.6 29.7	23.6 29.4	1945	44.01	39.99 39.12	44.91 2071	46.42	45.76	45.77	46.41	43.66	43 95	4378	65 8756 4756	4244 4583	3955
1942 1943 1944	349 312	319	311	34.4	356	35.0 32.8 77 1	36.5	364 317 327	35.7 31.5 25.9	35.3	34.8 29.7 75.1	33.3 28.6	330	1948 1949	57.69 58.23	54.75 62.05	56.19 62.11	55 58 62 60	54.93 61.50	57.46 60.95	56.99 59.62	54.97 56 33	56.69 56.69	59 67 54 46	62 04 53.79	60 45 34 36	ស៊ីស៊ី 54 21
1946 1947	26	24.6 28.2 31.7	19.3 29.4 31.6	17.1 29.3	17.7 30.7 30.1	21.7 31.4 33.4	28.6 32.4 34.2	29.4	302 32.8	29.9 32.6 34.2	30.1 32.6 33.4	29.6 32.9 32.9	28.8 31.7 32.4	1950 1951 1952	61.27 71.57 79.17	58.04 69.31 73.42	58.97 70.05 75.24	56.94 68.47 77.50	58.97 72.33 71.40	58.65 74.36 76.88	60 06 64,22 49,52	60 82 66 52 69 53	60 28 74 80 79 92	62 10 75 52 84 74	65.66 75.75 85.19	63 07 72 16 86 90	69 76 75 69 81 77
1949	30.0	32.5	25	26	<u>II</u>	Bi	34.0	33.6	312	21	6.1	25.1	30.3	1953 1954	89 67 81.00	81.20 89.38	82.40 84.99	83.01 82.01	83.82 75.75	87.49 76.80	89.40 80.30	94 73 82 71	97 65 81 92	97 41 79 70	91.96 79.21	92 35 77 92	91.54 80.89
1950	31.6	30.1	29.9	30.2	30.0	31.5	32.1	32.6	33.1	33.1	32.5	32.3	32.1	1322	91.37	F 3.14	82.94	82.56	19.57	86.98	67.56	a1.(1	30./6	26.25	100 80	7742	R (3
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	1963 1964	\$52 \$66	985 954	154 343	945 952	ALL E 935 953	935 964	III THOU 946 981	54NIDS 953 964	953 961	545 362	955 967	958 964	957 950	sıc	10 —N	IETAI	L MIN	ing ((Con.)								
	1985 1986 1987	927 783	941 803 716	933 859 713	133	\$39 \$04 WOWEN	940 781	942 772 311 THO	935 770	929 753	919 740	910 737	904 736	894 721	1983 1984 1985	49 47 40	5.0 4.6 4.3 3.6	50 4.7 4.3 34	49 47 42	4.5 4.6 4.1	4.9 4.6 4.2 1.4	3—81 18. 5.2 4.9 4.1	ALSANUS 5.0 5.2 4.0 3.4	51 49 37	44	49 46 37	44	4.7 4.5 3.6
	1963 1964 1965	117 118 120	121 114 121	120 114 120	119 115 121	118 115 121	116 116 121	116 119 121	117 120 121	117 120 120	115 119 119	115 119 119	115 120 118		1987		12	12		PRODUCTIO	DH WORKE	 35—11 Ti	IOUSANDS					
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	1964 1965 1966	686 658 550		672 659 607 502	2633	676 665 561	5883X	699 671 536	675 699 664 536	703 661 529	700 655 521	688 647 519	687 644 520	2658 55	1963 1964	494.39 528.53	496.12 512.27	4 8 9.27 517.05	1009CTI0 484.45 520.76	N-WORKER / 487.89 522.78	AVERAGE 1 488.89 530.81	WEEKLY EA 496.96 526.10	479.68 522.80	N DOLLAR 489.06 526.00	493.44 545.49	497.06 540.09	506.86 541.82	\$20.15 \$47.45
	913	479.40 503.58 519.93	475.15 500.98	464.92 494.54	466.49 498.19 519.29	N-WORKER 469.13 501.30 517.76	AVENACE 471.37 501.55	WEEKLY EA 477.20 507.07	474.89 500.09	480.10 505.91	489.19 515.68	449.19 500.26	490.35 505.91	497.64 516.41	1985 1986 1987	542.52	545.79 545.79 539.60	554.55 544.28	542.23 559.20	554.96	548.06	594.85 554.85	539.04 539.07	530.06 530.06	543.77	528.14	522.75	523.24 523.24
i i i	1966 1967	59.57	542.57 538.05	\$21.92 \$27.92	521.56	521.64	519.16	523.33	517.09	529.17	527.09	526.25	520.56 520.40	55551	1983 1984 1985	12.58 13.05 13.38 11.20	12.56 12.60 13.29	12.61 12.43 13.31	12.39 12.89 13.29 13.41	12.51 12.94 13.43 13.47	12.44 13.01 13.24 13.40	12.55 12.99 13.21 13.50	12.59 13.07 13.44	12.54 13.15 13.55	12.62 13.24 13.44	12.68 13.27 13.49 12.85	12.64 13.21 13.49 12.75	12.78 13.32 13.45 17.70
1111	1983 1984 1985	11.20 11.63 11.98	11.14 11.57 11.86	11.23 11.53 11.90	11.16 11.64 11.91	11.25 11.66 11.93	11.17 11.61 11.88	11.23 11.63 12.01	11.20 11.63 11.91	11.27 11.63 11.96	11.35 11.72 12.04	11.35 11.59 11.99	11.43 11.63 12.05	11.4 11.71 12.25	1967		12.94	12.99	1	ODUCTION	NOIKER A	VEINGE WI	EEKLY HOU	15				40.7
	947 ·		12.66	12.56		DUCTION	WOIKER A	VEINGE WI	EKLY HOU	5	12.32	12.30	12.31	12.6	1984 1985 1986	40.5 40.9 41.1	40.4 40.5 40.7	40.3 40.8 41.2	40.4 40.8 41.7	40.4 41.1 41.2	40.8 41.1 40.9	40.5 41.4 41.1	40.0 41.0 40.5	40.0 40.6 40.9	41.2 40.6 41.7	40.7 40.6 41.1	40.8 40.8 41.0	41.1 41.6 41.2
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11221	943 944 945 946 947	55.1 46.4 41.1	- 59.4 57.1 49.2 43.7 40.6	572** 56.7 48.3 43.0 41.9	56.7 56.9 48.9 42.7	56.5 56.9 48.3 42.5	577 574 478 420	57.7 47.7 41.6	56.6 56.6 46.1 41.6	55.2 54.2 45.7 38.8	542 533 445 389	56.6 52.6 44.1 39.0	55.7 52.6 44.4 39.3	55.6 49.4 43.0 40.5	1907		ĩ.i	ij							u,	u	4.7	14
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SIC	12—8	ITUM	INOU	s co				E Mil	NING	(Con	.)			sıc	13—0		ID G	AS EX	(TRA	стю	N (Co	n.)					
1985 1985 1985	111	180 3 179 1 141 8	1826 1788 1988	145 3 177 6	164.0	187.9 175.2	188 D 174 1	187.2 173.1	185.6 171.2	186.1 170.4	143.2 167.7	182.4 167.4	179. 164	1983 1984 1985 1985	465.21 475.97 440 85 493 73	457.78 478 11 442 90 516 67	455.82 470.11 485.69 496.50	459.24 469.57 446.39 452.33	459.03 474.12 485.09 486.46	463.08 470 17 484 20 485 72	463.20 473.43 473.43 481.63 447.19	462.44 472.24 485.76 494.16	451.10 470.73 436.62 456.95	469.92 479.81 490.16 4 86.6 4	471.80 477.49 485.07 484.55	470.80 494.20 495.95 490.65	474.10 489.24 510.92 451.31
1983 1984 1985 1986 1987	153 0 156.9 150.7 141.5	155.4 155.8 145.2 146.8 131.5	150.4 154.6 147.6 145.8 131.0	150.4 157.2 150.7 145.0	PRODUCTI 149.0 159.0 153.6 145.2	0H WORU 149.0 160.5 153.7 143.3	152-19 18 152.9 162.4 154.8 142.1	0USANOS 153.1 162.3 153.1 141.1	154.1 161.8 152.1 139.7	155.5 161.4 152.5 139.5	155.0 149.7 150.1 137.4	156.3 145.1 149.3 137.5	155. 141. 146. 134:	1987 1983 1984 1985 1985	10.67 10.72 11.06 11.59	10.68 10.72 10.95 11.31	476.84 10.70 10.65 10.69 11.44	PIDDUCTI 10.60 10.77 10.93 11.53	0N-WORKEI 10.75 10.80 10.95 11.63	AVERAGE 10.57 10.71 10.93 11.62	1008LY EA 10.65 10.64 11.08 11.70	10.65 10.65 11.04 11.71	N DOLLANS 10.60 10.65 13.11 13.74	10.60 10.71 11.14 11.69	10.65 10.73 11.10 11.62	10.70 10.76 11.17 11.61	10.63 10.80 11.43 11.67
1983 1984 1985 1986 1987	551.20 606.70 630.36 627.68	532,00 603,41 623,32 657,32 667,60	521.26 595.13 627.68 631.42 674.23	523.48 603.81 642.33 628.17 PRODUCTIO	532.29 600.41 631.40 615.19	534.76 504.82 529.12 613.45	543.49 620.84 653.91 618.93	542.88 594.55 590.97 587.79	565.56 622.34 626.11 620.40	570.21 629.14 644.23 624.25	571.24 580.00 627.48 634.85	576.10 588.50 613.93 632.02	594.0 628.7 643.7 661.2	1983 1984 1985 1986 1987	43.6 44.4 44.2 42.6	43.8 44.6 44.1 45.7 42.8	42.6 44.1 44.6 43.4	P 43.0 43.6 44.5 42.7	RODUCTION 42.7 43.9 44.3 42.0	-WORKER A 43.4 43.9 44.3 41.8	YEIBAGE W 41.5 44.5 44.1 41.7	HEALY HOU 413 443 440 422	435 442 433 425	44.0 44.8 44.0 41.8	443 445 437 417	44.0 45.0 44.4 41.4	44.6 453 44.7 42.1
1983 ⁵ 1984 ⁵ 1985 ⁵ 1986 ⁵ 1987	11.77 14.85 15.30 15.45	13.32 14.54 15.24 15.43 15.42	13.40 14.48 15.46 15.30 15.79	13.32 14.62 15.33 15.21	13.51 14.68 15.40 15.29	13.47 14.68 15.27 15.25	13.69 14.96 15.35 15.32	3333	13.93 14.96 15.16 15.51	14.01 15.16 15.23 15.49	14.07 14.91 15.12 15.56	14.26 15.17 15.31 15.88	14.3 15.2 15.4 15.7	SIC	131,2- UIDS	-CRI	JDE	PETR	OLEU)M, N/	ATUR	AL G	as, a	ND N	ATUR	RAL C	eas
1983° 1984° 1985° 1986° 1987	40.1 40.9 41.4 40.9	40.0 41.5 40.9 42.6 42.2	38.9 41.1 40.6 41.4 42.7	83 413 419 419	100UCTION 39.4 40.9 41.0 40.3	WORKER / 39.7 41.2 41.2 40.2	WERAGE WI 39.7 41.5 42.6 40.4	EKLY HOU C) C) C) C) C) C) C)	RS 40.6 41.6 41.3 40.0	40.7 41.5 42.3 40.3	40.6 38.9 41.5 40.8	40,4 38,8 40,1 39,8	41. 41. 42.	1983 1984 1985 1985 1987	264.6 260.9 253.5 224.3	267.5 260.9 257.1 245 3 206.5	265.2 261.1 255.7 241.2 204.8	263.7 261.1 255.0 238.4	ALL 1 262.7 260.5 253.0 232.2	263.4 261.6 251.3 226.7	267.3 265.5 256.9 225.9	263.0 265.1 256.3 225.4	258.2 263.4 256.2 218.7	263.3 258.9 251.8 211.0	261.6 258.2 249.5 210.9	262.0 257.5 247.8 209.6	261.3 256.7 247.6 206.7
Sic	13—0	DIL AI	ID Q	AS E		CTIO	N -III THOUS	ANDS						1983 1984 1985 1986	61.7 62.6 64.2 57.1	62.7 61.2 64.2 62.7	62.2 61.6 64.1 61.9	61.9 61.9 64.2 61.4	WOMED 61.3 61.8 64.1 59.6	61.3 62.1 64.3 57.9	62.2 63.1 65.0 57.6	62.5 63.4 65.1 57.4	62.) 62.4 65.0 55.5	61.1 62.4 64.1 53.1	60.1 61.0 61.1 52.9	61.1 61.4 61.7 52.7	61.4 63.6 63.2 52.5
1983 1984 1985 1985 1987	597.8 606.5 582.9 457.4	634.6 605.1 609.7 557.8 412.0	614.0 601.0 600.7 535.4 409.0	600.0 596.6 592.4 506.5	585.8 591.0 590.1 473.1	582.7 594.9 586.8 448.4	585.8 606.9 586.6 440.0	593.9 610.6 582.4 437.9	592.8 616.0 580.2 426.7	588.5 612.5 571.4 415.7	593.4 611.4 566.4 415.7	598.0 616.6 563.5 416.5	603. 615. 564. 414.	1987 1983 1984	123.2	52.3 125.7 120.7	51.8 123.4 120.3	122.8 120.3	PRODUCT 122.7 119.7	10H WCHU 122.4 120.7	15—IN TH 125.1 122.2	OUSANCS 125.8 122.0	125.5 121.4	122.0 119.1	121.3 119.9	120.7 119.4	120.4 119.2
1983 1984 1985	93.5 93.5 96.1	97.4 90.9 97.0	96.2 91.2 96.7	95.8 91.7 97.3	NONEEN 94.7 91.7 97 0	EMPLOYEE 93.0 92.2 96.7	13—IIII THO 92.6 93.5 97.0	USANOS 93.2 94.4 96.5	93.4 95.2 96.5	91.6 94.7 95.1	91.2 94.7 94.9	91.1 95.6 94.8	91. 95. 94.	1985 1986 1987	118.0 107.9	118.6 117.2 101.0	117.8 115.6 100.7	118.1 113.7 PRODUCTI	117.1 109.7 CH-WORKE	117.2 106.0 1 Avenage	119.5 106.5 WEEKLY EA	119.8 107.6	119.8 106.6 H DOLLARS	117.3 103.0	116.6	416.5 103.7	117.3 101.4
1946 1947 1943	94.0 397.5	94.1 759 430.6	936 759 4104	91.8 358.3	BL3 PRODUCTI 385.7	85.1 Or WORKS 383.1	83.8 EAS UN TH 30.7 2	E EB SOKAZUO 9.192	80.5 392.2	77.6	17.2 395.7	76.6	76. 404.	1983 1984 1985 1986	523.64 538.47 561.74 587.55	536.28 560.64 572.40 635.26 523.22	514.00 534.25 562.28 604.06 562.59	526.38 527.44 558.83 595.38	516.15 538.83 557.40 585.23	516.18 526.19 547.04 568.26	514.00 532.14 562.28 580.14	524.41 530.87 555.40 590.21	513.24 526.68 547.16 552.41	528.67 548.27 566.32 577.68	527.06 537.21 551.62 563.44	524.15 547.41 565.40 573.38	533.35 558.06 600.74 581.15
1984 1985 1986 1987	405.3 387.4 292.6	406.5 408.3 372.3 263.0	401.6 399.9 353.6 262.5	397.6 391.9 327.9	391.7 390.8 299.4	394 9 390.0 279.0	403.8 388.6 273.4	404 7 385.9 273.9	410.7 384.8 269.3	409.3 379.7 263.7	410.4 375.8 264.7	416.3 375.5 267.4	415 377 267														
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	Ann. Ann.	tan.	Feb.	Har.	*	.	Na 1	Juno) iniy	Aug.	Sept.	Oct.	Nov.	Dec.	140		Jan.	Felt.	Aur.	Apr.	ling.	-	Hey.	Aug.	Sapt.	6 1.	Rev.	Der.
SIC	289—	MISC	ELL	ANEC)US	СН	EMK		ROD		6 (Co	n.)			sic	2 9 F	ETR	OLEU	M AN			ROD	UCTS	(Con	L)			
1977 1978 1979	14 16 15	14 14 15	11 11 11	Li Li Li		18 14 10	12 12 13	36 14 11	12 15 11	14 14 17	3.7 3.6 4.9	14 13 14 14	14 17 41	15 19 16	1990 1981	197.9 214.0	208.9 216.0	155.1 209.3	152.1 211.3	172.7	2015 216.6	209.5 218.8	212.8 219.4	213.5 218.5	2123	212.1 211.0	212.3 212.6	218.9 208.7
1980 1981 1982 1983	• 11 11 26 10	32 36 31 20	32 35 26 24	11		9	22 22 22 22 22 22 22 22 22 22 22 22 22	25 28 24 24	25 29 24 21	30 30 23 30	12 13 24	12 11 25 14	15 18 25 14	15 29 24 14	1903 1984	1990	1014	19.3				2013 		742.5	201.5	202.4	2024	
SIC	29—F	IS ETR	DLEU	A MI	ND C	.) 20 A	11 LP	11 RODI	U) JCTS						1950 1951 1952		10.6 12.4 13.6			10.4 12.4 14.8			11.1 12.6 15.5			12.8 13.1 15.8		
1939	139	135	מו	13	. A	LL EUMA M	UNTEES- 136	-IN THOU 139	SANDS 139	142	144	147	146	143	195		153			154			157 160 17.1			15.6 16.4 17.1		
1940 1941 1942 1943	144 155 160	141 148 157	148 148 157	14) 14) 15)	5227			145 155 161	146 158 163	149 159 163	151 159 162	151 159 159	151 199 150	149 159 156	1957 1958 1959	17.5	17.1 17.0 17.0	17.0	175	111 111 111	17.6	17.8	173 172 176	17.7	17.5	17.4 17.4 17.4	17.4	17.4
1944 1945 1946 1947 1948 1949	174 106 201 221 221	163 199 214 223		160 183 202 214 220 220	1122222	0 45 47 1		17 18 22 22 22 22					17 193 13 22 22 23 23		1980 1961 1962 1963 1964	17.2 16.6 16.9 16.1 16.1	17.4 16.4 16.3 15.8 15.7 16.0	173 163 163 154 157	17.3 18.5 16.2 15.9 15.7	17.4 16.4 16.3 15.4 16.9	17.4 16.9 16.3 15.8 16.1 15.8	17.4 16.7 16.5 15.9 16.3	17.1 16.7 16.6 16.0 16.3	17.4 16.0 16.5 16.1 16.3 16.3	172 167 163 163 163	16.9 16.5 15.8 16.0	14.6 14.5 14.0 15.0 16.2 16.2	144 153 154 154 154 154
1950 1951 1952 1953	218 231.3 234.6 241.4	215 2255 2297 2297	215 227.0 230.6 237.4	215 220.1 231.5 270.1	22 235 235		208 229.9 206.9	212 232.9 233.2	214 234.2 235.6 245.7	227 233.6 244.6	224 233.6 243.0	225 234.2 242.4	226 234.6 241.4	226 233.4 240.4	1966 1967 1968 1969	165 164 169 169	16.3 15.9 16.3 13.1	143 149 143 143	16.5 16.8 16.4 17.3	164 161 166 173	16.4 16.2 16.8 17.2	14.6 16.3 16.9 17.5	17.2 18.0 17.4 17.6	16.0 16.9 17.5 17.7	164 167 172 173	16.5 16.6 17.1 17.2	16.3 16.6 17.1 17.4	16.3 16.6 17.0 17.4
1954 1955 1956 1957 1958 1959	234.1 237.1 235.5 212.2 271.8 215.5	2357 2345 2307 2307 277.1 217.0	235.8 2333 2325 2326 2254 206.1	2351 234,7 2351 231,2 231,2 231,2 217,1	232	5	237.7 236.6 234.9 211.8 222.5 219.2	240.5 239.4 236.7 231.5 225.7 221.0	241.2 241.2 231.8 231.8 226.7 218.2	242.0 241.4 241.9 235.0 226.1 213.2	240.7 239.6 239.5 235.3 225.8 216.4	238.0 237.5 236.0 232.2 219.6 214.9	237.1 234.6 234.2 231.1 220.3 212.9		1970 1971 1972 1973 1974	174 173 182 182 182	17.4 17.7 17.6 18.0 18.0 19.4	17.4 17.6 18.0 18.1 18.1 18.1	17.7 17.5 14.1 14.1 14.2 19.4	17.8 18.6 18.2 18.1 18.2 19.4	179 176 181 189 185	18.0 17.8 18.5 18.3 18.8 19.9	182 179 185 185 185	182 17.9 185 186 192	18.8 17.8 18.5 18.3 19.9 19.9	17.9 17.7 18.3 18.9 19.1	17.8 17.6 18.3 18.1 19.1	17.0 17.9 11.2 11.0 19.0
1960 1961 1962 1963	211.9 201.9 195.3 188.7	212.6 202.3 196.5	212.5 200.5 196.5	212.5 201.3 196.2	212 202 197	7	213.7 204.0 198.4	215.9 206.7 200.1	215.3 203.3 200.1	214.8 206.2 199.2	212.5 203.7 192.0	209.7 202.3 190.4	206.7 196.1 189.2		1976 1977 1978 1979	817 214 215 213	19.1 21.7 23.7 24.5	20.0 22.1 23.4 24.4	19.8 22.7 24.0 25.9	212	20.4 71.3 74.7 75.6	20.8 20.1 25.3 25.3	21.2 24.6 25.4 27.2	213	21.1 21.9 24.9 27.1	212 237 237 273		214 214 214 214 214 214
1964 1965 1966 1967 1958	183.9 182.9 184.2 183.2 186.0 186.0	182.8 178.6 180.0 177.8 181.1 124.6	182.5 179.1 180.5 177.9 182.2 185.7	182.0 190.2 101.2 177.2 183.0 183.0		9	184.1 180.9 185.0 181.3 185.9	184.6 184.7 186.0 186.1 190.7	196.8 197.5 191.6 197.9 192.5 194.7	195.5 195.8 197.9 199.2 1981.5 192.1	185.9 185.9 185.2 187.4 189.2	184.5 184.4 183.2 186.3 187.9	181.7 183.0 181.9 184.7 187.2		1980 1981 1982 1982	27.0 30.9 31.0 38.2	21.7 29.4 30.9 30.4 30.0	23.0 25.5 30.9 30.3 25.9	23.1 29.8 31.0 30.0 29.9	735 302 309 799 719	26.8 30.7 31.2 30.1 30.0	28.2 31.5 31.2 30.5 30.4	20.3 32.0 30.4 30.6	28.6 12.6 31.2 30.3	28.4 31.5 31.3 30.1	28.3 31.5 30.9 30.0	20.6 31.5 30.6 30.2	29.1 31.5 30.6 30.0
1970 1971	191.2 191.2	186.6	187.1	EBILA LBILA	189		190.9 190.9	195.6	196.5	195.0	192.6	191.3	190.8	189.7	1939	109	55	*	95	PRODUCT 95	ICH WORKE 56	25—10 TX 99	iousaaids 100	102	104	106	155	182
1972 1973 1974 1975 1976 1977 1978	195.4 192.9 197.0 194.4 190.5 202.3 207.7 209.0	164.2 185.1 191.7 194.7 194.7 193.8 201.3 201.3	192 0 196.1 190.0 191.9 191.0 191.1 202.0 203.8	192.0 187.4 192.1 195.1 195.1 201.8 205.3	193 193 193 193 193 193 193 193 193 193	81732583	196.4 196.4 196.1 196.1 196.1 196.7 196.7 196.7 196.7 196.7 196.7	200.6 196.5 202.4 190.2 201.7 207.2 212.3 213.0	200.7 197.3 201.5 202.0 202.0 202.0 202.0 202.0 202.0 202.0 202.0 202.0 202.0 202.0 202.0 202.0 202.0 202.0 203.2 203.2 203.2 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5 203.5	2005 1995 2022 2016 2024 2010 2123 213,7	197.4 197.4 197.4 190.5 200.2 200.3 205.6 210.1 213.2	175.6 195.2 195.3 197.9 199.6 199.2 206.1 209.9 213.0	199,2 194,5 194,3 196,2 199,4 196,7 205,5 206,7 212,2	191.7 191.9 193.6 194.7 197.2 196.9 203.7 206.7 210.1	1940 1941 1942 1943 1944 1945	105 114 124 130 142 146 161	101 107 119 126 133 146	100 106 119 125 136 147 153	101 109 122 125 136 149	101 100 123 127 139 140	102 111 123 129 141 140 150	105 114 125 129 149	105 117 125 132 146 130	100 111 127 133 152 151	119 111 117 112 145 145	109 119 126 133 145 144	108 129 126 139 145 152 163	107 119 126 134 153 163
50	i feetnetes	at and al	tables.			- 22		2520			190			54	1 59													

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												MAN	IUFA	сти	RING									1	١	SIC	: 28
Tear	Ann. Amp.	Jan.	Feb.	Kar.	Apr.	May	June	hely	Ast.	Sept.	Oct.	Nov,	Dec.	Year	Ann. Ang.	jan,	Feb.	ilar.	Apr.	Kay .	June	hety	he.	Sapt.	~	Ner.	ha.
SIC	29-P	ETRO	DLEU	M AN	D CO	AL P	RODU	CTS	5					sic	291—	PETR	OLE	JM RI	EFINI	NG (C	:on.)						
					ALLE	IPLOYEES-	-IN THOUS	ANDS	_										WOWER	EMPLOYEE	5—111 ТНО	USANDS					
1983 1984 1985 1986 1987	195.6 148.9 179.3 168 8	194.7 186.9 181.7 169.4 160.6	193.9 186.8 180.4 168.4 160.7	194.3 1.87.7 1.80.3 169.5	196.7 188.4 181.5 170.8	197.1 190.0 182.5 172.0	199.6 191.8 184.2 172.5	199.3 192.5 183.8 172.1	198.3 192.1 182.1 171.0	197.1 190.2 175.0 168.4	193.6 189.2 174.7 166.1	192.2 187.8 173.6 164.5	189.7 183.8 171.5 160.5	1983 1984 1985 1985 1986	25.5 25.1 21.3 20.8	25.8 26.3 21.8 19.2	25.7 25.4 24.2 71.7 19.0	25.4 25.4 23.9 21.6	234 239 219 213	25.4 25.3 21.9 21.2	25.8 25.6 24.1 21.2	75.7 75.8 73.7 71.1	23.6 23.1 23.3 20.6	21.4 24.6 22.2 201	25.0 24.3 72.0 196	25.1 245 21.9 195	22213
					WOWEN	EMPLOYEE	sHI THO	USANCS											PRODUCT	on nonce	75—# TH	OUSANDS					
1983 1984 1985 1986 1987	302 29.9 28.4 25.9	30.0 30.0 29.1 27.0 24.0	30.3 30.2 29.1 26.9 23.9	30.0 30.1 28.7 26.8	30.0 30.0 28.9 26.5	300 29.0 26.4	30.5 30.5 29.3 26.4	30.5 30.8 28.9 26.3	30.4 30.1 28.5 25.8	30.3 29.6 27.5 25.3	292 292 21.4 24.7	300 293 272 245	300 201 272 24.3	1983 1984 1985 1986 1987	91.4 84.3 81.7 79.0	93.8 84.9 84.0 79.7 77.9	93.9 84.0 83.6 79.6 77,7	94.1 84.1 83.0 79.6	93.0 14.2 12.3 79.5	92.7 84.1 81.8 79.4	92.7 84.2 82.2 79.9	92.0 84.2 82.7 79 8	91.3 84 5 82.8 79.5	90.1 144 79.1 78.4	11.1 14.3 74.7 72	172 144 711 773	机刀
					PRODUCT	on worke	15	OUSANDS										PRODUCTIO	N-WORKER	AVERAGE	NEEDILY EA	-12	R DOLLARS				
1983 1985 1985 1986 1987	111.3 108.5 105.9	108.5 107.4 103.9 102.6	101.3 107.2 103.5 102.6	117.9 109 4 107.0 104.3	119.5 110.0 106.7 106.1	119.7 111.9 109.7 107.5	121.1 113.1 110.7 108.5	121.1 113.3 111.3 108.6	120.5 113.5 111.4 108.5	119.3 113.5 107.6 107.0	117.1 113.2 107.6 106.2	114.9 112.2 107.1 105.1	108.2 105.1 102.1	1983 1984 1985 1986 1987	633.39 636.71 657.28 674.52	618.72 644.47 647.79 671.45 697.99	620.19 634.66 647.36 668.61 682.34	633.59 638.00 657.21 662.63	633.93 642.54 643.32 674.96	627.54 631.33 633.83 658.16	626.45 627.70 646.34 677.79	633.49 626.70 657.90 677.38	622 61 630 75 655.32 672 28	647.55 648.12 674.52 674.96	640.30 640.40 671.04 673.21	647.99 649.72 669.60 682.72	6772 6782 6782 6772
1981	687.00		674 16	PRODUCTIO	H-WORKER	AVERAGE	REDKLY EA	ININGS—H	DOLLARS									MODUCTIO	N-WORKER	AVERAGE 1	ICURLY EAL	(WHC3)	N DOLLARS				
994 985 997	587.33 504.58 621.00	593.15 598.34 615.60 645.45	583.77 595.43 612.02 629.73	545.11 602.62 620.98	589.58 595 40 617.92	5/5.57 580.32 584.22 607.60	579.92 579.42 597.37 624.10	580.79 506.96 521.62	572.46 584.31 605.66 624.26	590.03 621.37 625.34	585.17 590.82 619.76 622.54	596.01 510.64 630.08	602.55 545.16 621.85 628.26	1983 1984 1985 1986 1987	14.57 15.25 15.33	14.03 15.03 15.33 15.65	14.19 14.49 15.09 15.30 15.65	14.50 15.25 15.34	14.57 15.51 15.34	14.23 14.48 15.31 15.20	14 27 14 53 15 28 15 30	14.30 14.44 15.30 15.36	14 28 14 50 15 24 15 21	14.52 14.73 15.33 15.41	14 69 15 20 15 37	14 80 15 22 15 40	14 62 15 31 15 4
	11.70			PRODUCTIO	N-WORKER	AVERAGE	IOURLY EAU	8404GS11	DOLLARS									m	OCUCTION	WORKER A	VERNOE WE	EKLY HOU	5				_
244567	13.44 14.06 14.18	13.45 13.90 14.25 14.57	13.42 14.01 14.20 14.51	13.42 14.00 14.21	13,43 14 21 14,14	13.31 14.01 14.00	13.18 13.32 13.99 14.12	13.26 14.05 14.16	13.16 13.31 14.02 14.05	13.37 13.53 14.09 14.18	13.36 13.52 13.99 14.19	13.43 13.67 14.07 14.32	13.51 13.64 14.23 14.41	1983 1984 1985 1985 1985	44.2 43.7 43.1 44.0	44.5 43.1 43.8 43.8	40,7 43,8 42,9 40,7 40,6	44.0 43.1 44.5	44,3 44,1 41,8 44,0	44.) 43.6 41.4 43.3	9999	413 434 430 44.1	415 419 442	44 0 44 0 43 8	41 436 442 438	419 419 410 413	0000
				P	ODUCTION	WORKER AT	/ERAGE WE	ekly hour	5									PRODUC	TION-WOR	ER AVERA	E WEDRLY	OVERTIME	HOURS				
983 984 985 985 986 987	43.9 43.7 43.0 43.1	435 44.1 42.8 43.2 44.3	433 435 425 431 434	44.0 43.6 42.8 43.7	43.8 43.9 41.9 43.7	43.7 43.6 41.7 43.4	44 0 43 5 42,7 44,2	44.3 43.8 43.2 43.9	43.5 43.9 43.2 44.4	44.3 44.2 44.1 44.3	638 637 643 639	44.0 43.6 43.4 44.0	44.8 42.9 43.7 43.6	1983 1984 1985 1986 1987	15 13 14 41	13 41 15 40 42	33 37 37 39 42	36 40 34 45	39 41 19 41	16 38 35 14	11 16 19 17	14 17 17 40	12 15 15 14	14 19 11 19	39 38 44 45	40 38 42 45	4.) 14 4.)
				PRODUC	TION-WOR	ER AVERAG	E WEEKLY	OVERTHINE	HOURS						205						ATEO						
963 964	42	- 6	40	42	4.0	39 42	4.3		39 44	43	- 44	43	42	310	200-1												
985 986 987	3	40 45	4.0 4.5	45	ä	4.0	ä	8	42	43	5.0 5.1	49	45	1963 1964 1965	26.3 26.7 26.3	21.9 23.3 22.7	21.9 23.9 22.9	23.3 24.7 24.0	753 753 753	26.7 27.5 27.4	21.1 21.6 21.1	210 211 213	29.0 28.6 29.3	21.1 21.6 21.1	216 213 229	27.6 27.1 27.0	254 24.1 25.6
SIC	291—I	PETR	OLEL	IM RE	FINH	łG								1986 1987	75.6	23.6 24.5	21	24.4	76.2	21.1	71.1	21.4	70.7	71.5	21.9	212	a.
983	158.2	161.7	161.9	159.0	ALL EI	150 F	-IN THOUS	WDS	168.2	157.0	164.5	163.6		1043	18.5				PRODUCTION	ESTRICK INC	15—191 THC	USMIDS				-	
944 985 986 987	151.1 141.4 130.7	152.6 147.6 134.1 124.5	151.8 146.2 133.5 124.6	151.9 144 9 133.5	151.1 144.2 133.0	151.4 143.6 132.6	152.0 144.4 132.7	152.4 143.6 132.1	152.1 142.2 130.7	150.3 135.3 128.4	149.6 135.1 127.0	149.5 149.5 135.0 126.2	133 141 134 9 124 2	1983 1984 1985 1985 1985	19.8 20.1 19.9 20.3	15.8 16.5 17.3	15.8 17.4 16.7 17.1 18.5	17.1 18.3 18.0 18.0	19.0 19.7 19.6 19.9	203 208 21.0 21.3	218	23 20 21.7 20	213 219 216 222	22.0 21.6 22.0	21.8 21.4 21.6	20.7 20.5 21.0	11.2 17.8 18.6 19.6
Se	e footnotes a	it end of L	ibles.	Ý	LPAR	IME	NT C	FL/	BOR				14	7													

Produce Puce Droby

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· • • • 1	Fuel	s and re	lated pro	oducts a	nd power								BASE	1967	= 1
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1954 1955 1957 1958	737.6 771.1 762.8 645.6 645.6 643.4	712.0 724.0 731.0 681.0 619.2 631.0	7013 7719 7726 6705 6705	726.4 734.3 665.5 601.4 650.6	736.5 736.5 677.9 676.2 674.1	761.1 761.1 760.1 627.1 760.4	711 1024 7013 1033 1043	794.5 791.9 714.7 660.5 727.5	1132 7914 7152 6703 7315	701.0 701.0 701.0 671.4 724.3	601.6 741.0 607.1 604.1 712.1	774.0 774.0 774.1 667.5 677.8 677.8	763.9 718.7 647.5 664.5 662.7	1970 1971 1972 1973 1974 1975	69.1 69.5 79.6 91.4 81.8 75.4	71.1 65.7 72.6 90.6 71.6	70.3 66.3 73.6 85.7 90.4 70.5	70.3 66.3 74.3 87.6 91.5 71.0	70.2 67.8 78.4 89.7 82.5 73.1	65.4 69.5 77.7 91.7 94.0 74.0	68.9 70.6 73.4 93.0 93.7 74.9	67.2 68.1 79.2 92.4 92.4 76.0	68.7 709 82.4 94.3 91.2 78.2	68.7 72.4 811 94.4 810 79.1	61.) 714 85.3 86.3 86.3 86.5 79.2	644 724 855 967 743 713	66.8 73.3 85.7 91.2 76.4 77.5
1980 1961 1962 1963	634.4 634.4 634.6 631.6		649.3 571.5 592.0 590.0	638.7 573.3 590.6 602.8	660.5 594.7 611.0 616.1	676.5 617.7 629.9 640.3	641.2 631.5 630.7	602 6413 6413 6413	680.3 647.3 657.1 656.2	611 6414 6475 6475	67.4 63U 63U 65U	629.3 639.4 626.3 646.1	599.1 602.6 608.0 631.1	1976 1977 1978 1979	96.0 96.1 107.5 114.7	79.2 84.7 101.7 110.1	79.6 89.1 101.5 110.4	80.6 91.1 102.7 112.9	1001 1001 1001 1001	96.0 106.6 113.5	94.0 105 9 117.3	91.0 101.1 115.5	90.3 99 l 109.9 116.7	101.1 110.4 114.1	102.5 111.0 119.1	102.7 111.5 114.5	102.0 111.5 112.2
1944 1945 1945 1947 1948	647.1 654.0 665.5 648.1 661.3 677.7	611.5 610.6 641.4 621.1 627.4 627.4	6116 6111 6417 6417 6417 6417	6174 6324 6327 6412 6412		617.6 654.1 670.5 643.2 652.4 652.4	6762 6759 6721 6721 677.7 707.1	671.0 676.7 681.6 667.2 680.4 697.7	611.6 611.6 611.8 661.8 661.8 661.8 661.5	673.0 674.4 656.2 675.9 695.0	662.9 652.9 655.2 674.9 671.1	6115 6314 6504 667.1	637.0 637.0 642.1 683.7 642.1	1980 1981 1982 1983 1984	103.2 101.2 89.9 96.9	109.1 100.6 89.7 87.7 101.2	110.2 100.6 81.8 61.5 101.7	110.4 100.9 89.1 90.4 103.8	104.1 102.9 83.4 93.0 105.7	99.1 105.4 90.4 96.1 107.1	97.8 105.4 91.3 94.7 109.1	96.4 104.2 90.4 98.5 106.2	100.7 104.0 90.9 100.4	103.1 102.6 91.3 102.5	102.5 99.1 19.9 102.1	102.6 95.0 102.3	101.0 93.0 94.8 101,7
1570	645.5 663.9	648.2 616.7	6022	642.8 630.8	641.1 644.0	(44.5 (53.1	661.9 686.4	654.) 631.0	656.4 689.5	650.7 685.9	641.4 690.9	635.3 693.7	625.5 684.2	1947	807	793	753	802	PRODUCT 810	non wolla 823	203-00 T 822	HOUSANC: R03	3 015	1 1	815	801	70
1972		676.1 729.0		1454 7454	(8)1 752.2 716.5	7109	746.3 788.1 760.2	750.8 780.8 751.7	757.9 785.9 740.9	753.0 774.0 715.2	753.0 764.0 677.6	749.0 752.9 636.9	738.0 739.4 613.1	1948 1945	711 703	774 693	765	769 685	759 645	757 630	776 712	810 703	621 714	812 711	801 718	784 720	747 711
1975 1976 1977 1978 1977	614.7 674.5 721.9 754.7 764.9	5113 671 617 721 747	500.1 676.6 721.4 746.0	572.2 641.5 686.6 775.2 752.3	5639 6562 701.4 742.2 756.1	601.0 672.9 714.4 752.4 77.1	635.1 698.5 740.1 778.1 752.1	636.3 707.0 739.3 773.1 776.2	648.5 712.8 750.7 778.4	644.1 730.0 750.5 769.0 786.0	644.8 705.8 749.3 766.9 781.5	632.0 696.0 742.5 762.2 754.7	626.1 690.1 737.5 739.0 739.0	1950 1951 1952 1953 1954	770 796.9 745.9 727.5 665.0	665 785.7 710.5 710.3 629.6	677 780.0 717.9 711.1 636.8	708 775.5 716.3 724.4 648.4	723 101.6 726.5 735.9 653.1	760 819:5 688.7 746.8 678.6	7112 8310.18 757.7 763.3 697.7	794 804.9 778.9 747.9 616.3	83) 813.5 794.7 750.4 623.0	835 187.9 787.3 737.5 633.9	835 803.8 770.2 728.2 713.7	824 782.7 761.8 708.1 706.4	803 756.3 740.0 664.3 682.7
	las factorio	s at and a	d tables.		<u>الا</u>	PARI	MEN	T OF	LA	BOR				62													

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SIC	24	-	_									MAA	IUF/	cπ	RING												
140	12	-	-		44	-	-		-	Sept.	0a.	Non.	Dec.	Tear	1 Ann.	444.	Fec	ilar.	Agr.	il ay)	July	Å	Sept.	6 ct.	1	Dec.
sic	24-1	UMB		ND W	000	PRO	DUCT	5)					SIC	241—	LOGO	ING	CAM	PS AI		DGGII	IG CO	ONTR	ACTO	DRS (Con.)	I
1983 1984 1985 1986 1987	656 5 703.5 637.3 710.5	582.1 668.9 675.1 678.8 704.8	591.2 674.5 672.6 677.3 708.5	602.0 685.1 677.3 681.7	6207 694.1 678.1 691.1	707.1 695.2 705.5	<u>675.8</u> 727.8 713.0 725.3		701.3 729.1 723.6 737.0	704.5 723.6 718 2 736.8	701.0 714.9 711.0 731.3	691.1 700.9 699.9 722.7	679.1 690.1 687.1 716.3	1983 1984 1985 1986 1987	6.1 65 6.4 6.3	5.5 6.0 6.1 5.9 6.0	5.6 6.0 5.8 6.1	5.4 6.0 6.3 6.0	5.5 6.0 6.1 5.9	5.8 5.1 6.1 6.5 6.1	5.2 6.2 6.5 6.9 6.4	64 69 67 64	6.6 7.0 6.5 6.6	6.7 7.1 6.5 6.8	6.7 6.9 7.0	6.5 6.8 6.3 6.7	62 64 62 63
1983 1984 1985 1986 1987	96.5 104.4 106.0 110.5	87.7 100.2 102.1 104.7 112.2	88.0 100 4 102 1 104 9 113 4	90.4 102.3 103.1 106.5	WOMEN 93.1 103.9 104.1 107.7	EMPLOYEE 95.6 105.3 105.4 110.0	3III THO 98.2 107.3 108.5 112.7	15ANDS 90.2 106.2 107.7 112.2	100.1 107.5 109.3 114.2	101.6 106.5 109.2 114.0	101.8 105.8 107.4 113.9	101.5 104.3 107.0 113.0	100.4 103.5 106.0 113.2	1983 1984 1985 1986 1987	64.7 68.2 67.2 69.9	54.2 63.1 63.1 66.5 63.9	54.5 63.3 62.1 65.5 63.8	530 61.5 60.5 63.3	MODUCT 54.8 50.0 56.7 61.0	104 WORKS 597 64.5 61.5 65.0	DISW TH 61.2 72.4 66.7 71.2	70.9 74.9 72.5 72.4	74.0 75.7 74.9 76.8	74.9 75.6 74.9 78.5	74.5 73.3 74.2 76.4	71.1 64.5 71.1 73.5	66.0 65.6 67.6 69.1
1983 1984 1985 1986 1986	547.1 589.5 583.8 597.1	477 7 558 1 563 4 569 0 569 1	486.6 563.1 560.0 567.4 590.9	496.0 573.5 563.3 571.6	PRODUCT 513.7 581.7 564.1 579.1	XXX WORKE 535.9 592.8 579.4 593.2	35-40 TH 565.3 612.3 595.2 611.2	573.3 610.5 601.5 608.2	588.4 613.5 610.2 622.2	592.1 608.2 605.8 621.2	588.5 599.4 599.1 615.4	578.8 584.9 587,4 606.7	568.7 575.8 576.6 599.9	1983 1984 1985 1985 1985	399.68 416.23 425.88 434.68	395.41 389.38 405.97 421.79 417.12	381.85 395.51 389.46 424.21 433.54	PRODUCTIC 386.49 402.73 400.98 428.67	H-WORKER 394.27 402.21 414.74 438.90	AVERAGE 398.40 412.51 422.18 452.64	WEEKLY EA 408.00 427.39 443.07 455.67	405.81 421.37 418.11 434.42	418.4) 429.85 437.30 428.65	421.61 460.73 450.36 432.42	422.82 432.51 454.69 442.80	378.30 402.50 419.98 427.39	372,42 401,43 439,22 421,34
1983 1984 1985 1986 1987	312.78 320.40 327.96 335.70	300.66 312.05 316.29 329.51 331.63	299 92 314.82 311.00 328 55 337.39	MODUCTIO 303-36 315.61 318-35 332.00	A-WORKER 308.43 318.38 318.37 334.89	AVERAGE 312.76 318.80 326.41 339.85	WEEKLY EA 320.28 325.62 337.01 342.72	314.77 318.77 326.33 333.26	N DOLLARS 319.87 323.60 335.34 338.20	321.12 332.10 338.20 340.68	319.93 322.78 335.32 337.79	310.06 316.76 327.46 337.34	312.02 323.19 335.67 337.79	1983 1984 1985 1985 1986	10.17 10.70 10.92 10.84	9.96 10.22 10.74 10.76 10.55	9.97 10.22 10.67 10.99 10.60	9 91 10.30 10 58 10.44	N-WORKER 10.16 10.42 10.58 10.92	AVERAGE 10.01 10.55 10.77 11.04	HOUNLY EA 10.20 10.82 10.94 11.06	10.12 10.86 10.86 10.86 10.70	10000485 10.23 10.91 10.96 10.77	10.41 11.21 11.12 10.73	10.44 11.09 11.09 10.00	10.28 10.82 11.14 10.82	10 12 10.72 11 32 10 64
1983	7.80	7.67	7.71	PILODUCTIO 7.68	N-WORKER 7.73	AVERAGE I 7.78	HOURLY EAU 7.85	8000CS11 7.03	N DOLLARS 7.84	7.89	7.88	7.81	7.82	19#3	39.3	39.7	38.3	M 39.0	IDDUCTION 39.2	WORKER A 39.8	VERAGE WE 40.0	EKLY HOUE 40.1	8 40.9	40.5	40.5	X.I	36.8
1964 1985 1986 1987	103 122 133	7.90 8.11 8.30 8.27	7.91 8.12 8.36 8.31	7.91 8.08 8.32	792 8.06 8.31	7.95 8.14 8.35	8.08 8.26 8.40	8.07 8.22 8.29	8.09 8.28 8.33	120 133 135	8.11 8.30 8.32	106 129 135	8.10 8.35 8.32	1984 1985 1986 1987	38.9 39.0 40.1	38.1 37.8 39.2 39.5	38.7 36.5 38.6 40.9	39.1 37.9 39.4	38 6 39 2 40 2	39.1 39.2 41.0	39.5 40.5 41.2	31.8 31.5 40.6	394 399 394	41.1 40.5 40.3	390 41.0 41.0	37.2 37.7 39.5	34.1 34.8 35.6
1000				M	ODUCTION	WORKER A	VERAGE WE	EKLY HOUI	8									PRODUC	TION-WOR	IER AVERA	GE WEEKLY	OVERTIME	HOURS				
1983 1984 1985 1986 1987	199 199 491	395 390 397 401	39.8 39.8 39.3 39.3 40.6	39.5 39.9 39.4 40.0	402 395 401	40.1 40.1 40.7	40.8 40.8 40.8	40.2 19.5 39.7 40.2	40.0 40.5 40.5	40.7 40.5 40.6 40.8	40.6 39 8 40.4 40.6	39.7 39.3 39.5 40.4	19.9 39.9 40.2 40.6	1983 1984 1985 1986 1987	34 33 36	26 29 26 35	29 31 32 27 39	30 31 33	14 14 11 17	13 29 19	10 14 14	13 29 17	36 37 41	41 36 38	15 19 41	11 12 14	25 27 14
1983	3.1	2.5	25	PR00UC	TION-WORD 2.9	AVEINA 11	E WEEKLY 34	OVERTIME 1.3	HOURS 36	35	34	30	31	sic	242—	SAWI	AILLS	S ANE		NING	i MILI	s					
1984 1985	12	29	27	32	13	11	33 34	12	34 36	34 36	ii 11	29 31	12		107.6				ALL E	HPLOYEES-	- IN THOUS	ANOS	-	-		200.7	108.4
1987	13	13	15	32	3.3	12	3.8	3.6	3.9	19	17	16	3.6	1983 1984 1985	192.5 202.4 194.7	196.3 193.2	198.3 191.7	200.3 192.6	202.8	204.3 196.6	200.0	206.9	207.5	205.0	202.5	190.7 191.8	197.5
SIC	241—	LOGO	aing	CAMI	PS AP	ID LC	GGIN	IG CO	ONTR	ACTO	DRS			1986	193.8	168.4	195.0	168.0	191.3	193.0	136.7	132.4	136.0	136.0	198.3	130.0	138.3
1983 1984 1985 1985 1987	82.3 17.5 14.4 12.9	70.3 81.4 81.1 79.3 76.6	71.0 81.5 80.5 78.1 76.6	69.8 79.8 75.2 75.6	ALL E 72.1 71.5 75.2 73.7	83.8 83.8 80.8 77.3	-HI THOUS 86.8 92.1 87.3 84.3	90.0 94.6 19.7 15.6	93.7 95.8 91.6 89.9	94.2 96.0 91.0 91.9	94.1 93.2 89.9 89.9	90.6 88.7 85.9 87.0	84.9 84.8 81.0 82.3	1963 1964 1985 1986 1967	17,7 18 7 18.3 18.3	15.6 18 1 18.4 17.8 18.6	16 5 18 2 18 1 17.6 18.7	16.7 185 181 17.7	WOMEN 17.0 18.6 18.0 18.3	EMPLOYEE 17.5 18.9 18.4 18.3	5-44 THO 17.9 19.3 18.7 18.4	18.1 18.1 18.9 18.5 18.0	183 192 186 185	18.5 19.0 18.4 18.6	12.4 12.4 12.1 12.6	18.3 18.4 17.9 18.6	
5	ne lootaatas	at and of	tabies.		υ	EPAR	TME	NT C	DF L/	ABOR	2		1	6													

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	1985 1986 1987	303.6 305.3 NA	304.4 298.9 307.9	303.4 297.1 311.6	303.1 301.2 314.8	301.5 308.6 315.2	306.8 308.1 315.2	313.1 306.0 317.2	310.1 306.8 320.4	305.5 307.2 321.7	300.5 308.8 331.1	299.4 307.1 330.2	296.9 307.5 NA	298.1 306.8 NA	
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SIC	2396											MAN	IUFA	СТО	RING												
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SIC	2396-	-AU1	OMO	TIVE	AND	APP/	REL	TRIM	MING	s (Ce	on.)			sic	2396-	-AU1	OMO	TIVE	AND	APP/	REL	TRI	AMIN	GS (C	on.)		
					ALL D	NOTES-	-IN THOUS	ANDS				21.1		1077	10	4 19	412	PRODUCTION 4 79	CH-WORKEI A AL	A VERAGE	HOURLY EF	4 59	41 00UU46 4,74	s 4,75	4.87	4.86	434
1979	ж	X 9	89	36.4	31.5	36./	M 2		31.3	34.5		31.1	2.1	1973	193	i i i i i i i i i i i i i i i i i i i	- in	4.17	4.86	419	- (9	4.96	5.07	514	4.98	4.91 5.75	429
1960 1961 1962 1963 1964	28.9 31.2 29.0 31.2	29.1 29.5 29.1 20.1 20.7	29.7 29.9 27.5 28.0 32.8	31.4 31.9 20.8 29.6 31.5	20.9 31.9 20.5 30.5 31.4	27.3 33.8 30.1 31.0 31.0	21.7 343 314 315 314	71.6 21.0 29.7 30.1 32.8	20.1 30.1 29.7 31.1	310 312 324	21	30.7 31.0 20.1 33.6	27.8 28.3 33.3	1975 1975 1976 1977 1978	5.95 6.45 7.43 7.74	564 633 679 720 7.72	5.63 6.13 6.72 6.93 7.53	5.72 6.33 6.68 7.30 7.79	5.73 6.40 6.67 7.41 7.61	574 6.56 6.75 7.31	5.87 6.53 6.96 7.46 7.94	5.86 6.37 6.81 7.34 7.96	591 642 7.34 7.45	618 645 676 757 752	6.13 6.54 6.62 7.60 7.76	613 642 7.59 7.59	632 671 7.39 7.88 8.00
					WONDI	EMPLOYEE	3M THC 14 A	USANOS		154	15.6	15.6	143	1980	8.27	7.58	7.59	7.92	1.32	7.06	7.6	7.37	162	3.09	925	9.18	129
1973 1973 1974		14.2 13.1 10.8	14.2 12.3 10.9	14.3 10.4 31.4	14.5 12.4 12.1	146 130 125	14.4 12.8 13.0	117	15.2 14.0 13.6	16.4 15.7 14.8	16.3 14.8 15.5	16.5 14.6 15.7	12.8 13.1 15.9	1981 1982 1983	9.74 10.52 10.39	8 06 10.31 10.93 10.31	1,99 10.36 11.09 9.45	9.43 10.24 10.67 9.60	956 1052 1075 992	9.63 10.73 10.64 10.02	10.00 10.79 10.62 10.23	9.81 10.60 10.11 9.90	970 1065 931	10.43 10.00	10.28 10.27 9.91	10.49 9.95	10.68
1976 1977	154	11.8	14.1	ដែរ	16.6	11	173	15.5	iŝŝ	114	19.1	18.5	18.6	1				,	NODUCTION	-WORKER /	VERACE 1	VEEKLY HO	UNIS				
1978 1979	17.5	17.5 19.1	17.0	11.1	112	14.6	17.1	16.4	152	17.6	113	15.	16.4	1972	41.4	31.9	39.4	31	40.6 40.8	40.6	392 420	41.5 41.5	413	80	434	43.8 49.0	44.5
1980	145	14.7	150	15.8	142	13.9	14.0	11.7	14.0	14.6	15.0	151	15.4	1974	39.6	37.0	37.5	37.5	35.6 37.7	315	29.0 34.5	39.5 38.7	42.6 40.1	41.5	43.4 40.0	39.8 39.8	41,4 43,0
1981 1982 1983 1984	122	14.0 14.0 15.7 18.0			145 147 141	15.3 17.1 14.2	15.7 17.7 11.1	143 167 175	173	15.0 18.4	109	14.0 18.7	ia: us	1976 1977 1979	40.5 40.4 40.1 31.8	39.9 34.8 37.9 39.0	39.7 36.8 35.1 38.7	41.0 39.8 39.5 40.2	39.2 40.2 40.6 36.6	40.2 39.9 40.0	42.3 42.0 38.8 38.2	39.4 39.4 39.8 39.7	40.0 19.3 19.8 37.4	39.8 40.8 41.2 38.8	39.5 40.0 41.7 39.4	4).2 396 41.5 36.8	40.4 46.2 44.3 42.1
					PRODUCT	ION WORKS	EKSIN T	IOUSANES					97.0	1980	38.0	37.1	367	37.0	36.5	17.1	374	34.1	37.7	34.1	34	22	25
1972 1973 1974 1975	22 22 22 22 22 22 22 22 22 22 22 22 22	252 243 144 243	239	239 19.0 19.9 26.1	241 221 213 26	74.5 72.6 72.3 76.7	244 215 212 22 22 22 22 22 22 22 22 22 22 22 22	20214	21.1 21.4 23.9 26.0	293 274 261 274	28.7 26.9 26.9 27.7	239 762 763 763 763	23.0 23.6 27.8 28.4	1981 1982 1983 1984	40.1 39.7 41.0	40,2 35,9 39,7 41,2	37.5 38.6 40.8 40.7	40.8 33.6 40.8 40.7	41.1 40.1 41.3 41.5	413 404 413 405		41.0 40.1 39.2 39.9	41.1 41.0 40.6	38.9 41.5	19.1 19.1 42.0	912 40,4 41,5	40.4 41.3
1977 1970	21.4	27.4	24.9 27.9	27.4 20.7	27.8 30.3	28.7 30.2	25.6 30.2	25.9 26.2	212	28.8 31.4	30.6	30.2	82					78000	UCTION-180	IKEN AVER 14	VEE WEEKL	A NEXTRE	NE HOURS		64	67	51
1979	20.7	20.9	211	303	30.9	30.7	211	21.4	24	21.5			24	1973	ä	11	16	23	15	- 8	44		រា	59	5.0 7.1	- 11	13
1980 1981 1982 1983 1983	213	215 216 219 272	25.6 21.0 23.8 27.0	214 214 242 273	27.1 27.5 25.2 27.5	211 241 243 257 277	23.4 24.9 26.4 27.5	224 215 247 26.9	24.5 21.5 25.6	27.5 25.6 27.3	213	21	21.9 22.7 27.6	1975 1976 1977 1978	21 40 15 17 17 17 17 17 17 17 17 17 17 17 17 17	15 15 14 14	23	12 4.0 2.9 3.2	19 13 40	10 54 32 35	2025222	25 17 19 36 28	30 45 26 32	41 51 44 53	29 57 51 51	24 13 23 44 44	24 10 43 17 5
				PRODUCTS	ON-HORKED	AVEINGE	WEEKLY E	ABNINGS-	IN DOLLAR					1000				14				12	2.8	12	27	2.4	11
1972 1973 1974 1975	191.60 205.09 215.82 233.24	170.77 193.76 181.30 210.16	172.18 197.69 104.00 206.62	170.33 181.42 183.38 213.93 259.53	181.09 198.29 178.71 216.02	183.51 202.94 200.59 215.25 280.11	174.44 209.16 216.11 226.00 276.22	190.94 206.34 213.70 226.78 250.98	205.24 225.11 239.84 236.99 261.94	199.50 225.13 244.02 254.94 254.71	211.36 208.16 260.40 245.20 258.33	212.47 196.40 223.10 243.97 264.50	219.05 205.87 238.05 271.76 271.00	1961 1962 1963 1964	2.0 2.4 3.5	1.0 .5 2.0 4.1	15 14 29	22 14 29 32	23 28 35 42	29 15 16 18	21 42 42 44	12 25 27 20	28 36 34	22 21 42	2.0 2.0 4.1	21	22 39
377	27533	263.45	247.30	265.6	254.13	271.35	202.22	264.31 292.13	251.45 292.13	275.81 3)1.88	272.80 316.92	274.03	341.42	sic	26-1				LIED	PRO	DUCT	s					
1979	100.11	301.00	201.41	312.16	278.53	315.20	303.31	308.83	278.63	291.78	305.74	279.31	340.17							ENFLOYED	S-IN THO	USANOS					
1980 1983	314.26 300.57	20122	278.55 337.13	293.04 394.74	270.11 392.92	261.93 405.98	283.96 417.00	200.00 402.21	324.97 398.67	346.33	358.90 403.22	347.92	194.4 350.5	1939	320	305	306	313	309	310	310	312	319	321	344	344	139
1982 1982 1984	4)7.64 625.99	170.11 (31.02 (24.77	395.90 452.47 400.90	195.25 435.34 290.86	421.05 643.90 411.68	43.45 439.43 409.42	441.47 447.10 430.58	425.06 396.31 396.20	42.5	405.73 418.32	416.22	412.93	423.3	1940 1941 1942 1943	333 372 376 389	330 338 390 378 395	120 120 120 120 120 120	125 150 149 344	324 357 388 385 385	31 364 382 387 387	111 175 181 181	2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	20 20 21 21 21 21	338 392 361 389	139 194 195 195 197	342 395 370 396	343 356 376 396
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ULPARIMENT OF LABOR Bureau of Labor Statistics

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S	IC 2	6F	APE	R AN	D ALI	LIED	PROE	DUCT	S (Co	n.)					SIC	26—F	APE	R AN		LIED	PRO	DUCT	S (Ca	n.)				
						ALL E	LOYEES	-IN THOU	ISANDS											WOWE	I ENITLOY	ESIN TA	OUSANDS	,				
194	15	391 447 465 473 455	368 468 471 469	390 427 469 469 462	389 433 469 470 458	385 440 467 448	33883 8883	389 449 462 441	386 445 454 456 437	306 452 461 474 443	307 454 461 478 456	397 459 461 465	402 468 468 467	412 468 472 480 464	1960 1961 1962 1963	130.4 129.1 130.0 130.0	128.1 127.3 128.6 128.5	128.3 126.4 127.9 127.6	128.7 126.6 128.9 128.9	130.0 126.6 130.5 121.0	130.5 127.0 130.6 129.2	131.6 129.0 131.9 130.2	129.8 127.9 130.7 121.9	131.7 131.0 132.2 131.5	127 1315 1312 1327	1310 1320 1327 1319	131.0 132.1 131.2 131.2	128.9 132.1 130.6
195 195 195 195	0 1 2 3 4 5	485 511.2 503.7 530.4 531.1 550.0	461 513.0 500.5 519.1 528.0 533.3	464 513.1 499 5 520.2 527.8 533.3	467 513.9 496.5 524.0 527.9 536.2	469 517.2 493.3 524.5 525.9 538.4	47) 515.2 493.8 525.5 526.3 541.8	480 517.4 500.2 532.9 529.8 549.3	478 510.6 492.6 530.4 524.5 548.8	493 511.7 505.4 538.7 532.6 558.0	502 508.0 506.1 541.1 537.5 557.3	506 506.4 514.2 539.3 537.2 565.2	515 504.7 518.3 536.8 538.7 566.6	515 502.9 523.7 532.8 537.3	1965 1966 1967 1968 1969	132.9 141.0 145.3 148.6 152.0	1290 134.9 142.3 144.8 144.9	128.6 135.3 141.7 144.8 149.7	129.5 136.3 141.7 145.7 150.2	130.1 130.7 141.7 145.9 150.3	131.3 139.1 144.1 147.0 150.1	1313 1420 1469 1469	131.5 139.6 143.5 147.4 150.7	132.0 135.1 143.0 146.0 150.4 153.6	134.1 144.2 147.4 151.5 153.7	1315 134.6 146.2 147.7 152.6 154.2	133.3 137.4 147.0 147.6 152.2	1923 1375 1451 1517 1517
55555	6 7 4 9	567.8 570.6 564.1 587.2	559.7 569.9 565.9 5730	557.4 566.0 559.2 572.4	560 4 567.7 557.0 573.4	564.1 568.1 555.9 577.2	565 3 566 6 554 4 540 8	570.4 572.6 558.2 591.4	566.6 563.9 554.2 587.9	574.5 570.6 568.4 594.3	574.8 575.4 574.1 601.3	573.1 575.5 573.8 594.0	572.4 575.6 574.7 597.6	574,8 574,1 573,2 590,7	1970 1971 1972 1973 1974	149.6 141.1 140.8 146.4 146.8	152.0 142.5 136.4 142.8 146.4	151.5 141.6 136.0 143.0 146.4	151.9 140.7 137.5 144.5 147.0	151.3 141.2 137.5 145.1 147.1	149.4 140.7 139.1 146.6 147.7	151.4 142.5 142.7 147.7 147.7	147.5 137.2 140.0 143.6 145.6	149.3 140.4 142.7 147.4 140.3	149.1 142.6 143.3 147.9 149.0	147.5 141.9 144.5 149.9	141.1 141.1 145.3 150.7	146.3 140.8 145.1 147.7
196 196 196 196	1234	601.3 614.4 618.5 625.5 625.5 639.1	592.3 603.3 613.0 615.2 625.9	589.1 602.3 609.8 613.0 625.6	591.7 506.0 612.9 615.6 527.4	592.6 610.9 613.6 619.2 630.2	595.7 611.4 614.4 620.5 630.4	606.1 605.7 619.7 622.5 630.2 640.8	600.9 615.1 618.1 625.9 642.4	607.3 608.1 623.0 626.4 633.0 646.0	609.2 609.4 623.4 625.6 634.7 648.6	605.7 609.0 621.0 622.7 633.3 648.7	603.3 610.4 618.6 622.1 633.6 650.5	996.3 611.1 619.2 621.1 631.0 657.9	1975 1976 1977 1978 1979	143.9 151.1 157.9 161.6	134.6 137.4 144.2 152.7 158.0	131.1 138.0 145.3 153.2 157.4	120.9 139.0 146.3 154.3 159.3	127.1 141.0 148.1 156.6 160.6	127.4 142.7 150.4 159.3 160.0	1299 1472 1544 1617 1653	129.0 144.7 151.5 151.6 162.6	132,7 147,0 154,3 160,0 164,5	135.2 147.4 154.4 159.7 163.3	138.6 147.2 155.1 159.1 164.2	137.6 148.0 155.1 160.2 162.8	137.8 146.6 154.5 199.2 199.8
196 196 196 196	6 7 8 9	665.9 679.1 691.2 711.1	649.4 671.7 678.1 700.2	671.3 677.7 702.7	653.1 673.4 677.8 703.1	656.6 671.6 680.4 699.0	658.0 670.1 682.5 703 1	675.5 698.6 698.0 720.0	674.5 684.3 693.4 714.6	6797 688.8 702.0 721.3	672.7 683.2 698.1 716.3	674.7 679.1 698.0 714.3	679.1 601.6 703.4 718.2	678.3 684.9 705.2 720.2	1980 1981 1982 1963 1964	199.2 160.3 152.7 153.0	160.2 157.2 155.1 147.5 154.0	159.7 157.4 154.5 147.5 155.7	160.8 158.7 154.5 149.1 156.2	161.0 199.0 150.0 150.9 157.7	159.5 161.0 153.9 152.5 152.5	199.7 162.5 153.7 154.3 161.4	156.0 162.0 152.0 153.1 162.5	158.2 164.2 152.6 155.7	157.9 164.1 152.2 156.4	199.2 160.7 151.0 356.5	199.0 150.7 150.0 156.1	198.8 157.3 149.4 156.1
1971 1972 1973 1974 1975 1975 1978 1978		681.9 688.9 704.6 706.1 642.0 675.5 691.6 698.7 706.8	636.4 673.7 694.0 709.7 659.3 658.3 678.1 690.8 659.8	642.3 673.6 694 9 705.8 640.2 660.5 677.9 690.4 697.2	6797 676.1 638.6 708.5 629.3 664.0 680.3 694.3 701.8	710.3 671.9 671.9 698.5 708.0 622.8 667.2 686.2 697.7 703.8	703.0 670.6 683.8 701.0 700.1 623.5 673.7 692.1 703.1 705.6	715.7 694.7 690.2 711.1 720.3 633.6 636.2 702.6 714.1 716.8	705.1 672.1 691.0 702.4 712.2 632.1 679.1 694.9 707.2 712.0	707.3 681.7 697.2 711.6 714.3 644.6 684.6 701.7 700.9 715.8	703.2 689.7 694.0 707.0 711.0 644.1 694.0 698.5 710.4	692.7 684.7 696.7 709.3 702.1 653.9 681.6 695.8 690.9 709.9	697.1 605.9 700.4 714.1 692.9 656.5 604.7 694.4 697.9 700.0	695.3 685.5 702.0 713.1 679.0 659.5 681.6 696.5 696.5 696.5 696.6 705 1	1929 1930 1931 1932 1933 1934	235 224 195 177 194 223				PRODUCT	ion wom	85 I A N	101544105					
1980 1981 1982 1983		692.0 688.5 662.4	703.8 684.4 671.3	701.8 684.4 665.6	702.2 684.8 667.4	698.5 686.9 664.9	691.9 689.2 662.9	694.4 697.1 666.8	681.0 692.8 661.1	587.4 636.4 660.8	686.5 698.0 662.5	688.5 687.7 655.0	688.9 682.8 656.3	681.8 677.9 65310	1936 1937 1938 1939	241 242 245 245 245	52	254	258	256	257	257	259	265	274	290	289	285
1344						WOMEN (MUME	5-IN THOL	ISANOS						1 540 1941	279 310	275 284	272 288	271 296	270 302	277 310	270 317	279 324	200 332	213 336	294 340	207 341	217 343
1950 1951 1952 1953 1954 1955			112.9 126.7 119.1 127.7 129.9 124.3 129.3			112.6 127.2 116.4 129.0 125.2 124.9 130.9			113.3 123.6 116.7 130.5 122.2 127.9 129.0			125.5 122.0 127.5 134.3 127.3 135.1 135.1			1942 1943 1944 1945 1946 1947 1948 1949	327 346 345 393 407 408 390	137 334 351 344 370 411 408 404	136 330 351 347 376 412 407 397	337 349 345 381 412 405 381	336 341 340 340 340 340 343 340 343 343	니카프 타운 등 다	25 N N N N N N N N N N N N N N N N N N N	15951323020	112339192401	114 347 139 400 413 392	319 350 339 348 404 407 415 400	808202800	131 353 363 363 363 363 363 363 363 363 363
1958 1958 1959	1	28.1	123.8	124.2	124.6	127.0 121.9 125.4	126.7	127.9	125.7 120.8 127.0	130.0	131.4	131.2 127.0 132.1	132.1	131.1	950 951 952 953	416 435.1 421.9 442.9	394 438.1 420.9 434.0	396 438.2 419.6 434.9	399 438,4 416,1 437,5	402 441.7 412.4 438.0	403 4405 4133 4343	412 441.3 418.2 443.9	409 434.0 410.3 440.8	4313 4313 4335 4433	431 431.8 424.1 452.4	(8) (8) (8)	44) 477.0 433.8 443.8	403 426.0 439.9 445.4
	See inc	cantes a	ent of t	ibies.	υ	בראת	i ME	NIC	JF LA	ROF	4			52	3 -													

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SIC	2392											MAN	UFA	сти	RING												
Year	Am Ant	lan.	Feb.	ils.	Açı.	ii.ș	, may	July	Aug.	Sept.	Oct.	Nex.	Dec.	Year	han. Mi	Jan.	Feb.	ils.	Apr.	ilay), and	Juty	Aug.	Sept.	Oct.	Nev.	Oec.
SIC	2392-	-HOU	se f	URNI	SHIN	GS, N	EC (C	ion.)						sıc	2396-	-AUT	OMO	TIVE	AND	APP	AREL	TRIA	SMINC	35 (C	on.)		
1963 1964 1965 1966 1967	392 385 382 384	38.0 37.4 36.5 37.7 37.8	37.6 34.6 36.3 37.0 37.0 34.5	324 313 327 327 325	10DUCTION 38.9 37.1 37.4	-WORKER A 39.0 37.9 37.7 37.7 37.7	YERAGE WE 38.8 37.9 37.6 38.2	BKLY HOUR 37.0 37.1 37.1 38.0	39.4 34.6 39.6 39.6	40.4 39.0 39.6 39.5	41.2 396 40.1 40.2	40.5 39.2 39.6 40.2	40.2 39.7 39.9 39.9	1983 1984 1985 1986 1987	16 41 43 53	2.0 4.1 5.3 5.0 6.4	3.4 3.0 1.9 4.3 6.6	PHOCU 2.9 3.3 3.8 5.0	CTION-WOR 3.5 4.3 4.1 5.3	11 11 12 12 12	42 4.9 4.9 4.2 5.6	OVERTINE 2.7 2.6 3.3 3.8	E HOURS 35 50 42 53	43 47 50 60	44 45 48 48	4.0 4.0 4.5 5.6	40 54 53 7.1
1963				PRODUC	TION-WOR	KER AVERA 23	GE WEEKLY 20	OVERTINE I	HOURS 27	34	4.0	17	2.9	SIC	26-P	APEF	R AND		LIED	PROD	UCT	•					
194 195 196 197	23	14 13 20 29		23 14 19 TIVE	24 25 17	21 14 19	20 17 21		23 24 31 MING	23 23 14	11 35 35	2.7 1.8 1.4	22	1983 1984 1985 1986	661.2 600.9 677.7 674.3	650.3 671.2 677.8 670.1 674.0	648.2 673.4 676.3 667.9 673.7	650.7 676.1 677.6 669.2	ALL 6 6333 676.6 676.1 669.3	657.0 671.0 677.4 671.2		54403 661.7 685.7 680.1 674.3	665.4 681.7 680.5 674.8	668.9 612.8 676.2 676.8	669-5 643-8 674-2 678-2	670.4 642.1 676.9 678.8	672.0 682.2 674.0 679.7
910	2380-	-401			ALL 1	INFORES-	- III THOUS	ANDS											WOWEN	EMPLOYE	13- I N TH	USANDS					
1963 1964 1965 1966	324 373 343 391	28.1 36.0 38.3 39.1 40.6	29.0 36.5 38.3 38.0 40.7	29.6 37.5 38.5 38.5	30.8 37.5 38.4 38.5	11.7 37.9 38.5 38.4	12.8 37.9 38.2 38.9	31.3 37.3 37.1 36.5	12.7 36.4 37.8 38.6	34.9 37.7 38.9 40.6	35.5 37.3 39.2 40.5	36.3 37.4 38.1 41.5	342 334 494	1914 1915 1915 1915	151.3 161.1 163.6 163.5	147.5 155.8 160.8 160.5 161.9	147.5 156.8 160.2 160.2 162.0	149.1 157.6 161.4 161.4	151.3 154.7 162.2 162.0	152.5 160.5 163.4 162.5	154.6 164.1 166.7 165.6	153.6 163.6 165.4 164.6	155.9 164.9 166.4 164.9	162.9 162.9 164.9 165.2	157.3 163.3 164.5 165.4	1943 1925 1948 1949	162.2 162.2 164.0
					WOMED	EMPLOYEE	3- 10 THO	ISANDS											MODUCI	ION WOR	215W T	HOUSANIOS		501.4	501.0	502.5	501.8
1963 1964 1965 1966 1967	18.0 19.9 20.1 20.4	15.7 19.6 20.2 19.9 20.9	15.8 20.1 20.2 19.9 21.0	16.3 20.4 20.0 20.0	16.9 20.2 20.2 20.2	17,4 20,5 20,2 20,0	18.3 20.4 20.1 20.3	17.4 19.9 19.4 19.0	18.1 19.0 20.0 20.4	195 19.8 20.7 21.4	20.1 19.5 20.8 21.3	20.1 19.6 19.8 21.6	20.0 20.1 20.0 20.9	1961 1964 1985 1986 1987	494.5 511.6 512.1 511.4	503.5 510.4 507.2 511.4	505.4 508.9 505.8 511.6	501.3 511.6 507.2	509.6 509.6 507.4	510 4 511.1 509.2	519.2 518.0 517.4	515.2 513.1 510.6	517.1 515.6 511.4	512.7 512.3 513.5	513.3 510.1 514.3	512.6 512.8 515.6	512.6 510.5 517.2
					MODUC	non work	EUS-AN TH	OUSUIDS				~			177.00	402.82	107.99	MODUCT 405 54	1011-WORKE	R AVERACI 416.90	E WEEDQLY E 3 425.14	429.5	48 DOLLAN 6 421.43	5 438.92	435.46	439.34	447.20
1963 1964 1965 1966	26.7 30.8 31.8 32.8	22 5 29 9 31 8 31 7 34 2	23.8 30.1 31.7 31.6 34.4	24.2 31.0 31.9 12.5	254 310 319 323	31.1 32.0 32.3	27.2 31.2 31.6 32.8	75.7 30.6 30.5 30.3	27.0 29.4 31.4 32.3	31.1 32.4 34.3	307 325 343	31.0 31.6 35.2	31.3 32.0 34.1	1984 1985 1986 1987	441.67 466.77 482.99	439.62 454 96 440.51 440.51	437.15 451.14 474.96 444.18	436.35 454.33 480.00	441.18 458.82 474.22	441.0 450.1 479.4	7 447.39 0 463.97 5 441.43	453.4 456.21 486.0	449.16 466.79 443.41	456.13 475.02 485.14	453.41 473.27 484.88	450 71 478.07 489.12	465.84 492.40 500.09
				MODUCTI	ON-NORE	R AVERAGE	WEEKLY EA	JUNINGS-W		5								MODUCT	NON-INCOLOUE	R AVERAG	E HOUNLY E	ADMINICS-	-#1 001143	19 09	10.00	10.17	10.21
1943 1944 1965 1966	429.50 421.21 442.80 470.20	433.92 432.00 467.00 475.90 475.90	452.47 406.00 425.20 455.13 455.14	435.34 406.71 430.44 471.50	444.00 419.33 429.27 467.31	441.50 418.40 411.36 470.09	449.63 438.65 437.93 474.60	400.07 404 40 424.80 429.66	405.59 435.74 435.90 464.22	422.47 439.74 459.38 487.52	422,26 437,42 457,29 460,50	419.33 425.14 454.28 478.92	430 3 467.6 479.6 493.9	1944 1944 1945 1945	9.9.3 10.41 10.83 11.18	9.66 10.20 10.63 11.05 11.26	9.00 10.19 10.64 11.02	10,2 10,6 11,0	10.26 10.72 11.0	10.3 10.7 11.1	0 10.3 5 10.7 5 11.1	10.5 10.9 11.3	104 105 11.1	1051 1092 11.23	10.52 10.93 11.25	10.64 10.99 11.27	10 66 11.09 11.34
				PRODUCTI	ON-NORE	R AVERAGE	HOURLY E	INCS-1	I DOLLAR	5						41	417	- 43	PRODUCTIO 0 42.3	A-WORKER 2 42	AVERACE 1 5 42	NEIKLY HO 1 42.	10165 7 42.1	. 43	43.2	43.2	438
1983 1984 1985 1986 1987	10.45 10.12 10.00 11.33	10.93 10.46 10.99 11.44 11.67	11.09 10.00 10.63 11.14 11.53	10.67 9.97 10.55 11.21	10.0	10.69 10.11 10.30 11.41	10.60 10.37 10.76 11.30	10.11 10.62 10.45	10.35 10.71 11.35	10.13 10.47 10.99 11.58	10.03 10.39 10.94 11.15	10.42 11.43	11.0 11.4 11.5		666	41 41 45	42.9	42		42.42			1 42 1 42 9 41	41	433	435 434	41.7 44.4 44.1
					HODUCTIO	A-WORKER	AVERAGE W	EEKLY HOU	5				,,					1100	UCTION-WO	IKKER AVE 3 4	RAGE WEEK	LY OVERTA 6 4.	BEHOURS 18 4:	5 5.	1 S.I	4.8	5.1
1913 1944 1945 1946	41.1 41.5 41.4 41.4 41.4	200 100 100	41 41 41 41	401 401 401 401	4244		42.1 42.3 40.7 42.9	39.3 40.0 40.0 39.4	40.6 42.1 40.7 40.9	41.5 42.0 41.3 42.1	42.1 41.8 41.3	40.8 41.0 41.9	2222		89 07 4	1949						- 50 I				18 18 18	5.0 5.2 5.7
1361	See leateste	el.a Is all and o	tubles.										1	_ 28							Bur	eau	of La	abor	Stati	stics	

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ULPARIMENT OF LABOR Bureau of Labor Statistics

Producer Price Droley

÷1 04	н	des, skin	s, leather	, and re	elated pr	oducts							BASE	1967	± 10
19	ANN R AVG		FEB	MAR	APR	MAY	JUNE	JULY 44.4	AUG 44.6	SEPT 44.3	0CT 45.3	NOV 45.0	DEC 45.0		
19	27 48.	45.3	44.8	45.0	45.6	46.4	48.0	50.0	50.0	50.4	50.5	51.9	52.2		
19	28 54. 20 AR	4 54.1 5 50 A	55.4	55.4	56.6	56.4	55.4	48.9	49.1	49.6	49.5	48.5	48.2		
19	30 44.	47.1	46.5	46.3	46.0	46.0	45.9	45.2	44.4	44.6	43.3	42.2	40.9		
19	31 38.	5 39.7	38.9	39.2	39.2	39.2	39.4	40.1	39.7	38.1	32.6	32.0	31.3		
19	$\frac{32}{33}$ $\frac{32}{36}$.	5 30.9 3 30.9	30.4	30.5	31.1	34.5	37.0	38.7	41.0	41.4	39.9	39.6	40.0		
19	34 38.	40.1	40.2	39.7	39.9	39.4	39.1	38.7	37.5	37.7	37.6	37.7	38.2		
19	35 40. 36 42.	2 38.0 7 43.5	43.1	42.6	42.4	42.1	42.1	41.9	42.0	42.4	42.8	43.4	44.6		
19	37 46.	9 45.6	46.0	46.6	47.7	47.8	47.8	47.8	48.4	48.2	47.8	45.4	43.8		
19	38 41. 30 42	6 43.4 8 41 7	42.5	42.0	41.3	40.9	40.4	41.5	41.5	44.2	46.9	46.5	46.5		
19	40 45.	46.4	45.9	45.7	45.6	45.4	44.5	44.4	43.4	44.0	45.0	45.9	45.9		
19	41 48.	4 45.9	45.6	46.0	46.5	47.7	48.3	49.1	53.0	52.9	52.8	52.8	52.8		
19	43 52.	7 52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.2	52.4		
19	44 52.	2 52.5	52.4	52.4	52.4	52.4	52.2	52.1	51.9	52.0	22.3	22.1	22.0		
19	45 52.	1 53.5	53.6	53.6	53.6	54.0	54.9	63.3	62.3	63.5	63.8	77.3	79.2		
19	47 83.	3 79.0	79.5	80.1	79.3	78.8	79.4	81.5	83.8	84.6	89.2	92.4	91.9		
19	48 84.	2 89.7	80.7	79.4	79.1	78.8	78.9	78.0	78.9	79.9	80.7	80.9	80.5		
19	50 86.	3 79.4	79.2	80.1	80.1	80.9	81.7	85.4	87.8	91.2	93.1	24.1	100.1		
19	51 99.	1 104.9	105.3	104.6	104.3	104.1	102.8	79.3	79.5	79.5	79.6	80.5	81.6		
- 19	53 81.	3 80.	80.8	80.9	80.7	82.7	83.2	82.5	82.4	\$2.2	40.1	80.1	78.9		
1.9	54 77.	6 78.G	78.2	78.1	78.0	79.1	78.8	78.2	77.5	70.7	78.6	79.4	79.7		
19	56 81.	9 79.	80.1	60.6	82.9	82.5	82.6	82.6	82.5	82.6	82.2	82.3	81.8		
19	57 82.	0 81.	80.8	81.1	81.3	81.5	82.3	82.9	82.7	82.5	82.6	82.5	45.4		
19	59 94.	2 85.0	86.9	89.5	97.2	97.7	98.0	98.4	98.7	98.2	95.8	92.1	92.6		
19	60 90.	8 92.	92.3	92.1	92.4	2: 2	20.2	90.8	89.4	89.1	89.5	89.5	89.7 03 A		
19	161 91. 162 92.	7 93.	93.0	92.7	92.3	92.6	93.3	92.8	92.4	92.8	92.7	92.7	92.3		
19	63 90.	0 91.	90.8	90.8	90.2	90.5	90.2	90.1	89.5	89.0	89.3	89.4	\$8.9		
19	164 90. 145 94	3 88.	88.3	88.3	90.2	90.4	93.0	94.0	96.9	96.1	97.8	98.1	99.0		
19	66 103	4 100.	101.7	102.5	104.1	106.0	106.1	106.0	104.7	103.5	102.5	101.5	101.3		
19	67 100.	0 101.	102.0	101.1	99.9	99.5	99.8	99.5	98.6	98.9	99.1 105.A	105.7	100.3		
19	69 108	9 106.	106.6	106.6	108.9	108.9	108.6	109.2	109.4	iii.i	110.4	110.3	109.9		
19	70 110	3 110.	110.3	110.3	111.0	110.5	109.9	109.8	109.8	109.9	110.4	110.9	110.4		
19	77 114	3 117.	119.1	123.0	127.2	129.5	130.9	131.6	134.6	135.7	139.8	144.0	142.2		
19	73 143	1 143.	144.9	143.5	145.0	142.2	140.9	141.4	143.0	143.8	143.8	143.0	141.9		
19	74 145	1 142.	5 143.4	143.4	142.4	140.3	140.0	140.0	140.6	140.1					
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PI	04	Hide ANN	s, skins,	, Leathe	r, end r	elated p	roducts							BASE	1967	-											
	YR 1975	AVG 148.5	JAN 142.1	FEB 141.7	MAR 143.2	APR 147.5	MAY 147.7	JUNE 148.7	JULY 149.3	AUG 149.3	SEPT 151.3	OCT 152.4	NOV 154.4	DEC 154.6													
	1977	179.3	175.3	100.8	162.9	106.1	170.1	168.1	170.3	171.6	173.6	170.9	169.8	171.5 181.5													
	1979	252.4 248.9	223.4	232.2	253.3	258.9	269.6	268.0	261.9	257.9	251.1 247.8	253.9	215.8 248.9 255.4	210.2													
	1981 1982	260.9	258.2 261.8	257.7	261.2 260.6	263.5 263.4	263.7 263.2	261.6	261.1 263.1	261.3	261.7 263.5	260.0	259.8	260.7													
	1984	286.3	279.1	283.3	264.9	267.4	269.4	271.2	272.3	274.7 288.7	274.4 2 88 .7	273.7 207.7	277.0 283.8	277.3 283.6													
	1986 1987	296.7 NA	293.7 301.9	294.1 302.0	293.6	295.0 310.6	296.5 317.0	297.9 315.8	297.4 317.8	297.0	296.4 321.4	297.8	299.3	301.6													
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	07	MISC	ELLJ	NEO	US PL	ASTI	CS PI	RODL	ICTS	(Con.)			sic	307—1	MISC	ELLA	NEO	US PL	ASTIC	CS PI 2 WEBUY	RODI	LICTS	(Con	.)		
57 58 50	40.) 35.8 40.9	40.6 39.3 40.6	40.7 39.0 41.0	41.0 39.0 40.6	40.0 31.9 40.8	39.7 39.2 41.3	40.2 39.9 41.3	40.8 39.8 40.8	40.6 397 40.9	40.5 40.9 40.7	40.2 40.5 41.1	39.6 40.6 40.8	40,1 40,9 41,1	1980 1981 1982	2.9 3.1 2.8	11 12 26	3.0 3.0 2.7	11 12 27	2.7 30 26	24 13 28	24 34 29	23 11 27	2.9 3.2 3.0	11	12 30 2.7 40	13 24 25	3234
2	40.2 40.7 41.1 41.3	40.8 39.6 40.7 41.0	40.5 39.9 40.8 41.0	40.6 40.0 41.1 41.1	39.5 40.2 41.3 40.4	40.4 40.7 41.4 41.1	40.5 41.3 41.0 41.3	40.2 40.6 41.0 41.2 41.0	40.5 40.9 41.1 41.8 41.8	39.9 41.2 41.4 41.9 41.3	40.2 41.0 40.9 41.5 41.6	40.0 41.2 40.6 41.2 41.6	38.7 41.1 41.0 41.9 41.7	1983 1984 SIC	 31—L	ان EATH	نۇ IER /	ය ND I	نة EATI	ii IER P	ii ROD	ii UCT:	5				
5	41.6	41.6	415	11	407	415	42.0 41.6	41.1	41.5	41.6	42.0 41.5	41.9	42.0		-	101	108	m	ALL 6 190	WPLOYEES- 366	-#1 THÓU 373	501025 295	401	354	385	372	:
j	40.6	40.5	40.1	40.4	40.4 39.5	40.4	40.8 41.0 40.5	40.4 40.7 39.9	41.0 41.1 40.2	40.5	40.9	40.9	40.9 40.5	1940	374	384	391	386	m	345	349	370	376	377	379	373	ł
	401 401	40.5 39.9 40.1 40.2	19.9 19.9 40.2 40.3	38.5 40.0 40.6 40.5	19.7 19.8 40.8 40.6	39.7 40.0 40.7 40.6	40.1 40.4 40.9 40.4	39.7 39.8 40.4 40.3	40.1 40.9 40.9	40.0 40.1 40.8 40.5	40.1 40.4 40.7 40.1	39.7 40.4 40.9 40.7	39.9 40.7 41.0 40.6	1941 1942 1943 1944	415 413 381 359 358	35 44 40 36 35 35	829333	0088833 0088833	223333333 2233333333	82%23			9877885	98773S	196 355 355 355 47	- - - - - - - - - - - - - - - - - - -	
14 15 14 17	39.8 39.8 40.3 40.5	39.8 39.9 40.3 39.4 39.4	40.1 39.4 40.3 40.3	40.2 34.9 40.4 40.4	39.1 39.1 39.1 39.3 40.2	39.9 39.4 40.4 40.4	401 394 405 410	39.5 39.6 40.5 40.0	40.0 40.0 40.3 40.4	19.5 40.5 40.1 40.1	39.9 40.4 40.3 40.9	19.5 40.6 40.5 40.9 40.8	40.9 40.9 41.1 40.9	1946 1947 1948 1949	412 412 389	93 97 93 98 93 98	30 415 402	412 430	22.2	395 391 374	3433	199	412 417 390	415 415 336	425 414 191	428 401 373	
73	40.1	40.5	40.5	41.0	31	40.4	40.7	40.2	40.0	40.4	40.4	10.3	40.6	1950 1951	395 380.0	389 403.4	396 413.0	397 409.0	380 390.6	375 366.2 368.5	303 379.5 379.7	373.0 377.9	409 301.4 395.6	3653	358.5 393.6	356 355.5	1
	40254	40,1 40,5 37,7 39,9 41,6	19.9 29.9 39.7 39.5 41.5	40.1 40.6 39.6 40.7 41.2	39.9 40.4 39.4 41.2 41.7	193 407 413 413	393 403 399 414 414	38,9 39,8 39,5 41,0 41,0	39.9 40.3 39.7 41.1	39.9 39.8 19.6 41.7	40.4 40.0 39.3 41.6	40.7 39.8 39.6 41.8	401	1952 1953 1954 1955 1955	384.2 389.2 373.0 385.9 382.7 372.7	400.3 374.2 379.8 394.2 374.8	381.9 404.6 381.6 387.4 399.3 378.9	404.0 340.5 349.5 353.9 379.4	394.9 367.4 380.3 380.8 372.3	343.9 357.1 374.0 373.3 363.5	391.7 367.0 346.1 342.5 371.0	305.8 370.6 386.0 377.8 369.5	393.1 340.5 395.8 345.8 379.0	343.7 173.3 390.7 176.9 373.8	377.3 372.1 368.8 375.8 375.8	376.2 374.5 378.0 375.1 370.3	
				1100	UCTION-WO	KEN AVER	ACE WEEKL	Y OVERTIN	E HOURS	24	,,	22	2	1958	159 2 374.0	365.9 369.7	368.9 374.2	361.6 372.9	341.1 366.5	342.2 366.9	354.6 376.1	354.4 375.9	364.1	362.5	375.6	375.9	3
58 59	10	12	15	21	30	ü	ü	30	រ័	ม	ii	2.9	ž	1960	363.4	370.1	369.0	367.6	357.1 349.8	355.4	363.9	362.5 356.5	373.0	363.4	360.1 356.7	361.0 361.1	
	2522	2.9 2.0 3.0 3.2 3.1 4.0 3.1	20 21 22 11 11 11 11 11	2722	20 25 25 11 15 16 19	25 29 34 31 40 40 42 34	26 31 35 33 37 40 42 37	26 29 31 35 35 35 35 35 35 35	24 33 30 38 42 49 41 37	26 15 14 38 42 43 43 45	24 12 11 35 41 45 44 17	222222222222222222222222222222222222222	111111	1962 1963 1964 1965 1965 1965 1967	358.2 360.7 349.2 347.6 352.9 363.6 350.9 355.2 355.2	360.3 360.3 341.2 347.6 359.7 357.6 359.8 357.6 351.8	362.9 354.2 346.1 351.8 365.4 357.8 357.8 355.4	363.1 363.1 364.9 365.2 365.2 365.2 351.6 354.4 344.4	359.1 341.0 339.4 342.3 361.0 345.9 351.4 343.1	354.9 342.0 340.4 346.1 362.6 345.3 353.8 344.4	363.1 349.8 349.6 352.2 368.7 351.0 361.4 361.4 341.7	358.0 349.3 350.1 351.1 341.1 347.1 347.1 347.1 347.1	364.1 155.1 360.1 371.1 361.1 361.1 361.1 361.1	360.6 351.2 350.7 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 363.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5 375.5	358.4 348.7 349.3 354.5 361.7 349.6 355.2 334.7	360.5 367.6 360.0 364.0 354.5 259.2 337.0	_
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970 971 972 973 974	111111111111111111111111111111111111111		121112		2 31 2 29 5 17 4 24 2 22	1) 12 14 12 24	11 12 12 12 12	31 31 34 32 24	3.3 3.4 3.9 4.0 3.0 3.3	13 15 42 42 14 14	12 15 40 11 12 13	10 33 41 19 27 33	2 3 4 3 2 3 3 3 3	1971 1972 1973 1974 1974 1974 1975 1976 1976 1977	299.1 296.0 284.0 271.1 248.2 262.7 254.8	303.4 295.1 241.2 275.1 242.7 261.9 251.1	301.9 298.6 284.5 275.7 237.4 265.4 252.6	299.0 297.0 214.3 277.0 234.0 266.1 254.2	291.5 295.1 214.4 276.3 269.6 255.6	300.4 299.9 286.5 277.0 243.1 271.5 260.8 260.8	306.1 306.2 292.4 291.7 251.0 274.7 262.1 265.1	250) 274, 262, 242, 254, 244, 244,	2 206 2 217 2 254 7 264 7 264	294. 282. 267. 264. 254. 254. 254. 254. 254. 254. 254. 25	291.0 2022 261.3 258.1 253.8 257.0 257.0	291.0 284.7 262.0 254.4 254.4 254.4 254.2	
577 577	i				2 1	ii 11	16	i u	14	17	16	15	3	5 1979	206.8 245.7	249.4	248.	249.	241	252.7	256.0	226.	2 247. • • • •	3 244.	243.4	242.8	
375	1	2 1	1 1	3 3	5 23	n	. 14	u u	<u>и</u>				•	1980	232.9 237.7	2352	236. 230.7	236. 231.	235.	236.2 239.7	237.1	234	2 245	i 265	5 500	2012	:

Bureau of Labor Statistics

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NUT	Aug.	198.	Fab.	ily.	Ap.	May	Juno	July	Aug.	Sept.	Oct.	No.	Dec.	Year	Ann. Ann.	Jan.	Feb.	Ha.	Apr.	Hay	June	-	Ant	Sept.	0ct.	No.	Dec
C	31-4	EAT	HER	AND	LEAT	HER	PROD	UCTS	3 (Co	n.)				sic	31—4	EAT	HER	AND		HER	PROD	NUCT	8 (Co	n.)			
	218.9	212	223.4	222.1	ALL 224.1	EMPLOYEE 223.7	1101 THOL 226.7	SANDS 207.1	219.9	217.3	214.5	213.8	205.9						7800UC	non wor	8 15 #1 T	HOUSAND	1				
	av 1	201.1 206.5	203.6 207.6	204.3 205.5	205.6 206.9	207.7 207.3	211.1 200.0	195.7 194.2	213.0	2127	213.5	2137	208.2	1940 1941	137 378	347 357	354 370	349 370	135 376	311 367	313 378	334 389	339 351	340 384	30	136 371	ł
					NONE	n Employ	23 0 To	NSANOS						1943	3/1	374	372	39	30 30	35	823	379	372	33	34	371	Ĩ
		178.6 196.8 177.1 201.4 198.6 192.2			175.2 184.8 186.7 200.6 186.3 192.8			170.7 176.4 180.2 191.4 185.7 195.3			109.6 172.6 191.4 189.8 187.5			1945 1946 1947 1948 1949		127 349 370 389 350		126 369 315 317 317	112 172 170 362 369		125151518			20 312 30 30 30 30 30 30 30 30 30 30 30 30 30	123 122 134 136 136	22232322	
19	4.5	201.0 190.8 187.9 190.4	193.9	192.3	192.7 189.9 173.3 189.3	190.2	195.9	191.9 180.1 181.4 195.3	198.6	196.1	190.9 190.7 184.2 196.7	197.2	195.5	1950 1951 1952 1953	355 340,3 344,4 344,7	349 361.9 330.3 359.9	357 373.4 341.8 364.1	357 368.3 342.0 344.0	34) 351.1 334.7 355.0	35 37.4 3213 344	340.8 340.8 338.5 351.7	351 134,6 139,0 344,9	369 341.7 356.0 351.4	37) 326.6 353.7 362.6	366 320.3 353.1 336.6	317.0 315.6 335.6	
	188.6 186.2 188.9 183.4 183.2	192.1 185.0 187.6 183.1 179.2	191.7 147.7 149.1 145.7 142.1	191.5 194.9 190.1 194.6 181.6	185.0 180.6 180.0 171.3 177.5	1817 1807 1855 1766	189.4 187.4 190.6 183.3 184.5	107.6 105.0 106.1 101.5 101.3	194.0 190.6 193.6 197.8 197.8	185.2 185.4 185.9 185.7	187.8 185.8 186.4 184.4	188.3 189.6 189.5 183.8 183.8	1912 1906 1973 1922	1955 1956 1957 1958	344.9 340.9 331.0 318.2 332.9	331.4 351.6 332.5 324.6 321.9	346.3 356.6 337.2 327.2	3416 3518 337.7 40.3	130.2 130.2 130.6 300.0	11/5 1229 1315 1217 3014	344.4 344.8 325.4 313.6			344.1 353 301.9 321.4	331.2 346.4 334.5 329.2 316.4	134.1 134.9 131.0 121.5 126.1	151.9 151.9 127.0 127.0
	196.0 200.2 196.0 200.5 196.2	1835 1938 1967 1962 2063	1813 1913 1913 1913	1865 1967 1956 1967 1976	180.2 196.7 192.5 197.0 195.6	184.0 199.3 192.4 200.8 197.0	187.5 203.3 295.9 204.4 195.4	1855 1956 1860 1967	192.2 204.3 197.8 203.9 199.3	189.9 202.4 194.8 200.9 190.9	190.3 202.7 196.1 202.9 193.1	194.7 204.2 200.0 205.9 195.0	195.3 202.6 195.6 203.1 196.4	1960 2961 1962 1963	320.9 316.4 318.9 307.8	327.9 315.2 318.6 309.8	328.7 318.8 321.6 312.6	325.4 314.8 321.5 310.0	314.7 308.2 317.2 308.3	3)3.4 308.7 313.1 300.6	321.6 319.5 321.0 329.1	3195 3154 3163 300.1	330.1 324.6 326.4 314.7	320.7 316.6 318.9 309.7	317.5 315.3 316.7 307.4	318.4 318.6 318.5 318.5	315.1 321.4 317.2
	184.5 174.9 176.6 172.8 165.1	191.8 175.9 174.9 171.4 167.4	101.7 174.4 176.5 172.0 167.7	187.6 172.9 175.2 171.8 189.0	185.3 172.8 174.6 172.7 168.7	185.7 175.0 176.2 175.0 161.9	101.3 179.4 102.4 170.6 172.5	184.1 171.0 172.9 165.2 163.4	185.3 178.4 180.7 174.4 189.0	180.3 171.8 177.0 172.4 161.0	1715 1711 1717 1711	179.9 176.5 177.0 174.6 159.4	177.5 175.8 174.9 172.1	1964 1965 1965 1968 1967 1968	306.5 310.0 318.5 301.7 306.3 294.4	300.0 305.6 315.7 310.0 303.3 303.3	304.6 309.2 321.3 310.6 307.4 303.0	302.9 310.1 320.6 304.4 306.0 201.4	297.6 300.1 316.3 296.9 303.2 296.7	299.0 304.0 317.0 290.4 305.5 205.5	307.6 309.4 323.6 323.7 312.7 312.7	307.2 307.7 311.0 294.0 297.9 297.9	3134 3175 3258 3052 3116	308.4 312.3 318.2 300.9 304.5	306.8 311.1 316.2 301.9 305.6	309.4 316.2 317.5 307.6 310.3	308.3 317.1 316.3 307.5 307.5
	1919 1919 1911 1911 1911 1911	146.3 158.7 150.8 150.9 151.0	160.6 151.4 151.6 150.2	140.0 160.4 152.6 153.5 150.9	140.7 161.9 153.2 155.6 151.0	146.4 163.9 156.6 157.8 154.3	151.7 165.9 157.2 161.6 156.3	145.4 157.4 145.0 148.5 136.2	154.6 160.0 153.9 159.5 149.7	154.0 156.7 151.8 158.6 148.7	156.8 156.1 155.2 157.9 148.5	199.5 154.4 156.3 157.3 144.0	93333 93333 93	1970 1971 1972 1973 1974	273.4 257.1 256.4 245.0 272 3	2017 2500 2551 2441 2657	201.6 258.4 258.8 245.4 245.4	278.1 255.6 257.5 245.8 778.1	275.3 255.8 255.3 255.3	274.7 258.5 260.3 247.8	201.6 263.4 266.0 254.2	272.5 249.4 251.6 236.8	271.9 262.1 263.0 241.0	267.0 254.6 255.4 242.4	2613 2513 2526 2921	X612 257.1 252.2 244.7	262.1 256.8 249.0 242.4
	140.0 142.1 130.1 122.8	141.9 1350 1355 1269 1219	141124	1432 137.7 132.1 120.6 121.3	1414 1359 1310 1210 1221	142.5 142.8 133.2 133.2 133.2 133.2 133.2 133.2 133.2 133.2 133.2 133.2	143.1 145.7 134.8 124.8 123.6	126.6 140.0 123.0 115.5 114.6	141.0 147.5 131.3 125.6	140.2 147.6 129.5 126.0	139.1 146.9 121.0 126.2	139.2 145.2 127.1 127.0	136.3 139.9 121.9 122.9	1975 1976 1977 1978 1979	212.6 227.0 218.4 220.4 205.1	206.4 227.8 214.9 215.0 212.9	201.1 230.7 216.7 217.6 212.3	198.2 231.6 218.4 220.1 213.0	2008 2337 2195 2224 2119	208.0 236.1 224.0 225.0 216.0	216.1 236.5 225.3 229.6 219.7	207.4 207.4 207.2 209.2 209.4 191.7	219.5 228.4 219.7 224.9 210.1	2015 21150 2225 21153 2227 207,6	222.4 217.7 219.6 221.0 206.6	224.6 226.6 218.0 221.5 220.3 205.0	216.7 226.7 215.5 218.8 216.6 201.7
	135 310 207				FRODUCT.	on wonce	25W TH -	ILISANDS						1980 1981 1982 1983	196.6 201.1 182.9 173.6	190.2 191.0 190.6 169.1 177.4	199.8 194.5 184.5 184.5 184.0	199.9 195.1 196.9 170.0 171.0	199.1 190.6 190.3 170.4 171.4	1913 2030 187.7 1711	200.4 206.0 189.7 176.3	177.2 197.6 171.9 163.1	199.0 208.2 184.5 179.0	197.5 200.4 181.7 171.6	196.9 207.6 179.0 179.5	197.4 205.0 178.2 178.4	193.6 197.2 170.1 174.3
	m																	HODUCTION	HIONGER	LI'A.I VEIMEE N	EDULY EAD	102.0	OCLIARS				
														947 948 948	40.07 41.11 41.03	39.37 41.90 41.74	11.54 42.17 42.25	10.24 41.09 42.00	19.05 19.78 40.20	31.94 39.31 39.52	39.76 40.92 40.92	39.66 41.03 41.27	39.70 42.18 41.40	41.11 42.19 41.44	41.50 40.95 41.17	41.17 40.34 33.56	41.85 41.85 41.48
_	340	341	360	365	152	330	137	357	354	357	351	336	137	150 151	4195	4721 4721	43.51 48,48	43.59	41.42 65.38	41.03 44.15	6.91 45.91	44.16 45.80	45.90 45.01	45.15 45.11	45.44 44.88	63H 621	46.65 47.88
in i	aliantes d	t and at t			0. 5	LPAR Ureau	I OF I	NT O	FLA Sta	BOR			60	7											-		

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SIC :	Amn. Ang. 31—L	Lan.	Feb.	ity.	T	.		- T		- T				_			_						-		- 1			
SIC :	31—L	EAT			1.	•	11.77 L	Jane	July	Aug.	Sept.	Oct.	Nev.	Dec.	Year	Ann. Ang.	Jan.	Feb.	ity.	kçı.	H27) Anne	Jairy .	A.	Sept.	0et.	Nov.	Dec.
	204.9		IER	AND	LEA	ATHI		ROD	UCTS	>					SIC	311—1	LEAT	HER	TANP	ING		FINIS	HING	(Con	.)			
	204.9				\geq	ALL DIP	LOYEES-	IN THOUS	WIDE	_										WOWEN	EMPLOYEES	THOU	SANDS	,,	**	,,	11	27
1983 1984 1985 1986 1987	189.4 165.0 151.2	204.1 196.6 167.7 157.2 145.5	203 198 165 156	5 20 3 19 6 16 2 15 8		97.0 97.0 64.7 53.1	196.2 196.4 165.5 152.3	1963 1972 1972	1926 1822 158.0 141.4	209.0 188.6 167.3 150.4	209.0 184.3 166.4 149.0	207.9 181.7 156.0 149.6	207.4 179.6 165.2 149.0	201.2 173.3 162.1 144.6	1964 1964 1985 1985 1987	21 23 23	26 23 23 24	22222	22	บ่านน	2) 24 25	222	2.4 2.2 2.1	28 24 23	14111	22222	24 23 23	14
						OMEN E	ROTES	-01 190	NSANCS										154	PRODUCT	ICH WORKE 159	15.—10 170 16.0	14.3	15.9	15.0	156	155	15.2
1963 1984 1985 1986 1987	121.1 112.2 97.5 190	120 1 117 1 99 1 93 1 95 1	111 117 98 98	9 17 6 11 3 9 1 9		20.7 16.3 97.5 90.6	121.8 116 1 98.0 89.9	123.7 116.4 90.5 89.4	113.9 107.3 93.6 82.4	123.4 111.5 99.0 10.7	108.9 99.2 88.3	1233 1085 1988 175	107.5 98.4 87.7	102.9 96.6 \$6.9	1964 1965 1966 1967	13.0 12.2 11.6	141 12.1 11.6 11.3			144 124 111	14.5 12.5 11.0	14.4 12.8 12.1	117 117 112	114 121 116	112	110 121 11.5	129 120 115	
					100	oction	N WORKER	15—1A 17	OUSANDS							-		-	PRODUCTIN	04-W08020 202.68	AVENCE 1	105.03	NNC31	N (COLLARS 295.66	301 71	792.59	755.02	255.37
1983 1984 1985 1986 1987	171.1 158.0 136.7 124.4	169. 165.1 139.1 130.1 121.1	160 165 136 128	8 17 7 16 5 13 9 12	10 1 10 1 15 1 7.4 1	170.0 164.6 135.6 126.5	172.0 164.2 136.9 125.3	174,4 164,8 130,8 124,8	160.4 151.8 130.3 115.4	1751 157.6 139.6 123.9	1757 1535 1387 1225	174.8 151.4 138.4 123.0	174.3 149.0 137.8 123.3	143.1 134.1 122.1	1964 1964 1965 1966 1967	294.23 310.90 310.64	264.10 304.94 302.65 322.32	289.93 305.60 306.41 334.82	290 82 310 54 308 86	295.00 316.06 311.30	297 65 318.78 318.84	302.13 323.09 312.96	290.90 305.29 302.04	259 67 312.12 306 48	288 51 310.90 308.33	206 94 307.76 306 03	300 75 304 81 320 25	312.33 308 92 325.89
				PRODU	CTION-W	ORKER A	YOMGE 1	NEEDILY CU	UNDICS-I	DOLLARS						• •		•••	PRODUCTI	DH-WORKED 7.41	LAVEINGE I 7 si	NOCHET EAU 7 Ani	7.41	N DOLLANS 7.41	76	137	7.6	7.4
1983 1984 1985 1986 1987	203 #7 210 13 216 #8 218 45	197.6 208.8 211.8 217.7 225.2	190.9 208 207 210 221	19 197 16 205 18 212 10 213	78 20 62 21 80 21 08 21	01.85 10.16 15.87 14.53	204.79 209.59 218 42 217.12	207.90 213.76 221.34 222 22	207.38 212.41 219.00 219.04	207.00 206.75 216.71 217 36	201.88 201.57 219.21 219.37	208.83 208.00 216.95 218.96	200.13 211.10 219.50 221.86	209.6 215.11 221.3 227.8	1983 1984 1985 1986 1987	7.44 7.43 7.62 7.67	7.36 7.36 7.51 7.51	7.34 7.54 7.51 8.01	7.40 7.63 7.57	7.69 7.63 7.63	7.46 7.70 7.72	7.46 7.73 7.09	14 18 19	7.44 7.65 7.72	1.56 1.67	1214	7.50 7.40 7.83	7,75 7,49 7,91
				PROCU	CTION-W	ONCER A	VERAGE H	IOURLY EA	VININGS—#	DOLLARS					ł					RODUCTION	WORKER A	NEDIACE WE	BU 1 100	⁶		*1	**	19.3
1983 1984 1985 1986 1987	5.54 5.71 5.83 5.92	5.5 5.6 5.8 5.8 5.8		2 5 57 5 17 5	54 58 10 11	5.53 5.60 5.85 5.91	5.52 5.68 5.14 5.90	5.50 5.67 5.84 5.91	5.53 5.71 5.04 5.92	5.52 5.60 5.81 5.92	557 573 583 595	556 573 577 595	5.58 5.77 5.84 5.59	5.6 5.0 5.0 5.0	1913 1914 1915 1916 1917	40.0 39.6 40.8 40.5	395 386 395 403 408	38.8 39.5 40.0 40.8 41.8	40.0 19.3 40.7 40.8	403 411 418	40.7 39.9 41.4 41.3	405 419 407	19.1 19.7 19.4	39.8 40.8 39.7	192 408 402	39.2 41.2 39.9	40.1 41.2 40.9	403 413 412
					PR000	ICTION-IN	NURSER AV	VERAGE W	eenly hour	5									PR000	CTION-WOR	NER AVERA	GE WEERLY 27	OVERTINE 10	HOURS	35	31	11	30
1963 1964 1965 1966 1907	361 372 369	31 11 11 11 11	34 34 35 37			36.5 37.0 36.3 36.3	37.1 36.9 37.4 36.8	37.0 37.7 37.9 37.6	37.5 37.2 37.5 37.0	37.5 36.4 37.3 36.8	37.5 36.4 37.6 36.7	172 363 376 361	373 366 376 37.1	37. 37. 38.	1963 1964 1965 1967	12 13 13	25 28 34 35	27 27 11 43	12	10 14 16	30 37 36	14 17 15	21 19 25	24 22 22	2314	26 18 30	29 14 14	30 31 17
				PRO	OUCTION	N-WORKE	R AVERAG	Z WEDU	OVERTIME	HOURS					SIC	314	FOOT	WEA	R. E	KCEP	T RUE	BBER						
1903 1904	LA LA	L L	1	1	14	11	H	14	B	- 11	- H	12	li ii	i i		•••				ALLE	-	.ar mous	NCS					
1985 1996 1987	15			.1 .1 7	2	11	14	15	13	Ľ	15	14	21	11	1963 1964 1965	1260 114.7 99.3 19.7	128.4 122.0 101.6 94.9	127.5 120.9 100.2 93.8	1269 119.4 98.4 92.5	127 0 119.7 98.7 91.7	128 J 1199 100 J 91 2	129 119.7 101.2 90.0	126.9 110.1 94.9 83.9	127 6 113.8 101.1 89.6	126.9 110.3 99.3 87.5	123.6 101.4 98.8 87.0	125 1076 1973	122.2 104.4 38.0 86.4
SIC :	311—	LEA	THEF	t TAI	NIN	IG A	ND I	FINIS	HING						1907		H 7	# .7										
1903 1904 1905 1906 1907	18.6 16.6 14.9 14.0	18.3 17.7 14.9 13.9 13.6	18 17 14 13	5 11 5 11 0 12 6	16 13 10	ALL EM 10.0 17.4 15.2 14.2	190 17.4 15.3 14.3	-IN THOUS 19.1 17.2 15.4 14.5	17.3 15.9 14.4 13.5	19.0 16.1 14.7 13.0	19.0 16.0 14.7 13.8	187 157 145 138	18.5 15.6 14.4 13.8	14.1 15.0 14.1	1983 1984 1985 1986 1987	82.7 74.9 64.3 57.6	84.7 800 662 612 54.5	13.5 79.4 65.3 60.5 54.8	13.3 78.2 63.9 59.6	832 782 64.0 59.3	EMPLOYEES 84.5 78.3 65.0 58.9	1400 14.1 71.2 65.4 51.1	54405 76.6 71.8 61.8 54.0	83.6 73.9 65.2 57.6	61.0 71.3 64.0 56.5	110 637 557	82.7 70.6 63.4 55.6	60.3 61.3 63.4 55.1
See	formates	at and a	tables.		ţ	UEP	ART	MEN	T OF	LAE	BOR			1	51													

A-1. Employment status of the noninstitutional population 16 years and over, 1953 to date

(Numbers in thousands)

						Labor	force			_	
¥	Noninetia				(Empl	oyed		Unem	ployed	Not in
and	tutional	Number	Percent		Resident		Civilia	n		Percent	labor force
			population	Total	Armed Forces	TREE	Agriculture	Nonagricultural inclustries	Number	or labor force	
				_			rages				
1953'	109,287	65,246	59.7 59.6	63,410 62,251	2,231	61,179	6,260 6,205	54,919 53,904	1,834	2.8	44,041
1955	111,747	67,087	60.0	64,234	2,064	62,170	6,450	55,722	2,852	4.3	44,660
1956	112,919	68,517	60.7	65,764	1,965	63,799	6,283	57,514	2,750	4.0	44,402
1957	114,213	00.0//	80.3	64 683	1.840	62,028	5,947	57.460	2,659	4.2	45,336
1959	117,117	70,157	59.9	66,418	1,788	64.630	5,565	59,065	3,740	5.3	46,960
1960'	119,106	71,489	60.0	67,639	1,861	65,778	5,458	60,316	3.852	5.4	47,617
1961	120,671	72,359	60.0	67,648	1,900	65,746	5,200	60,546	4.714	6.5	48,312
1962	122,214	72,6/5	59.5	68,/63	2,061	67 763	4,944	61,/59	3,911	5.4	49,539
1963	126 503	75 109	594	71 323	2,000	69.305	4,523	64 782	3,786	5.5	51 394
1965	128,459	76.401	59.5	73.034	1,946	71,088	4,361	66,728	3.366	4.4	52.058
1966	130,180	77,892	59.8	75,017	2,122	72,895	3,979	68,915	2,875	3.7	52,288
1967	132,092	79,565	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527
1968	134,261	80,990	60.3	78,173	2,253	75,920	3,817	72,103	2,817	3.5	53,291
4070					2.14	78.078	2,022	75.045	4.000		
1970	139,203	84,889	61.0	60,/90	1 073	70 387	3,463	75,215	4,083	4.5	54,315
1972'	145.939	88 847	60.9	81 966	1 813	82,153	3.484	78.689	4 882	5.0	57 091
1973'	148 570	91,203	61.3	86,638	1.774	85.064	3,470	81.594	4.365	14.8	57 667
1974	151.841	93.670	61.7	88.515	1.721	66,794	3,515	83,279	5,156	5.5	58,171
1975	154,831	95,453	61.6	87.524	1,678	85,846	3,406	82,438	7,929	8.3	59,377
1976	157,818	97,826	62.0	90,420	1,658	68,752	3,331	85,421	7,406	7.8	59,991
1977	160,689	100,665	62.6	93,673	1,656	92,017	3,283	68,734	6,991	6.9	60,025
1978'	163,541	103,882	63.5	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659
1979	166,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900
1980	169,349	108.544	64.1	100,907	1,604	99,303	3,364	95,938	7,637	7.0	60,806
1982	173 939	111 872	64.3	101 194	1 664	99.526	3,401	96,125	10.678	9.5	62 067
1963	175.891	113.226	64.4	102.510	1.676	100.834	3,383	97.450	10.717	9.5	62,665
1984	178,080	115,241	64.7	106,702	1,697	105,005	3,321	101,685	8,539	7.4	62,839
1985	179,912	117,167	65.1	108,856	1,706	107,150	3,179	103,971	8,312	7.1	62,744
1986'	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752
		·			Monthly o	lata, seasc	maily adjuste	1			<u> </u>
1986:		1									
November	183,114	120.426	65.8	112,183	1,751	110,432	3,215	107,217	8,243	6.8	62,688
	183,28/	120.330	03./	112,38/	1,750	110,037	3,10	107,470	1,549	0.0	02,301
1987: Intunni	182 574	120 789	85.8	112 760	1 748	111011	3 145	107 868	8.022		62 702
Februery	163,075	121 000	65.0	113 122	1 740	111.382	3,236	108.146	7,947	6.6	62 649
March	163,915	120,958	65.8	113 104	1,738	111,368	3,284	108,084	7.854	6.5	62,957
April	184,079	121,070	65.8	113,570	1,735	111,635	3,290	108,545	7,500	6.2	63,009
May	184,259	121,719	66.1	114,173	1,726	112,447	3,335	109,112	7,548	6.2	62,540
June	184,421	121,235	65.7	113,975	1,718	112,257	3,178	109,079	7,260	6.0	63,167
July	164,605	121,672	65.9	114,447	1,720	112,727	3,219	109,508	7,224	5.9	62,933
August	164,738	122,038	66.1	114,817	1,736	113,081	3,092	109,989	7,221	5.9	62,700
October	164,904	121,004	8.60	114,515	1,743	112,//2	3,170	109,002	7,089	5.5	63,300
November	185 225	122 174	66.0	115 264	1,741	113 500	3,263	110 332	7 114	5.8	62,830
	100,623	1	1	1 10,200	1,735		1	1	1		0.034

¹ Not strictly comparable with pror years. For an explanation, see "Historical Comparability" under the Household Data section of the Explanatory Notes. The population and Armed Forces figures are not adjusted for

sessonal variation. NOTE: Revisions of sessonally adjusted monthly and quarterly data (shown in tables A-1 through A-3 and A-32 through A-53) for the most neard 5-yeep period are made at the end of each calendar year.

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JEPARIMENT OF LABOR Bureau of Labor Statistics



1967 = 10 BASE Farm products ANN DEC JUNE 42.7 43.8 43.0 47.8 SEPT 67943741966159336597111841806177858-0978439188217704 445755745665544535597376184399084877104389088217704 0044575771439907849756855945355845199014055645588-077714399024449556024985 NOV AVG 43.7 43.5 MAR 42.6 44.1 APR MAY AUG 444.3 47 452.7 8 873.0 6 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 1095.5 8 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	er 1 - 51	Farm	product	5										BASE	1967	± -	14
	18	AVG	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	067	NOV	DEC			
÷	1962	98.0	98.2	98.5	98.7	97.2	96.5	95.6	96.8	97.9	100.9	99.0	99.6	97.6			
i	1963	96.0	98.8	96.8	95.7	95.7	94.7	95.2	97.1	96.6	95.8	95.4	96.5	93.6			
L	1764	94.6	96.6	94.8	95.5	94.7	94.0	93.5	94.4	93.9	96.0	94.1	94.3	93.0			
L	1965	98.7	93.3	94.8	95.7	97.9	98.7	100.6	100.3	99.4	99.8	99.7	100.6	103.3			
L	1966	105.9	104.8	107.7	107.1	106.7	104.8	104.5	108.1	108.4	109.0	104.7	102.8	102.1			
ł	1967	100.0	102.9	101.2	100.0	97.9	101.0	102.7	102.9	99.5	98.6	97.4	96.7	99.3			
ł	1958	102.5	99.4	101.6	102.4	102.4	104.0	102.8	104.2	101.7	103.1	101.5	103.5	103.7			
ł	1969	109.1	105.3	105.5	107.0	106.3	111.3	111.9	111.5	109.2	108.9	108.2	111.4	112.4			
i	1970	111.0	112.9	114.0	114.6	111.6	111.3	111.6	113.4	108.5	112.1	107.8	106.9	107.1			
I	1971	112.9	108.9	113.9	113.0	112.9	113.9	116.0	113.4	113.3	110.5	111.3	112.3	115.8			
I	1972	125.0	117.8	120.7	119.7	119.1	122.2	124.0	128.0	128.2	128.6	125.5	128.8	137.5			
t	1973	176.3	144.2	150.9	160.9	160.6	170.4	182.3	173.3	213.3	200.4	188.4	184.0	187.2			
L	1974	187.7	202.6	205.6	197.0	186.2	180.8	168.6	180.8	189.2	182.7	187.5	187.8	183.7			
L	1975	186.7	179.7	174.6	171.1	177.7	184.5	186.2	193.7	193.2	197.1	197.3	191.7	193.8			
L	1976	191.0	192.8	190.7	186.5	192.9	192.6	196.5	196.9	189.7	191.9	186.7	183.6	191.6			
L	1977	192.5	. 73.5	199.1	202.5	208.2	204.3	192.8	190.2	181.8	182.0	182.0	185.6	188.3			
İ.	1978	212.5	192.2	198.9	204.2	213.7	215.8	219.5	219.9	210.3	215.1	219.4	218.2	222.7			
ł	1979	241.4	230.4	240.9	242.8	246.0	245.4	242.8	246.8	238.5	241.0	239.6	240.2	242.5			
1	1980	249.4	236.4	242.3	239.3	228.9	233.5	233.4	254.3	263.8	267.0	263.6	264.9	265.3			
L	1981	254.9	264.5	262.4	260.7	263.3	259.6	260.7	263.3	257.9	251.1	243.1	237.4	234.6			
l	1982	242.4	242.2	247.1	244.7	250.6	256.5	252.7	246.6	240.8	234.5	229.2	230.7	232.6			
l	1983	248.2	233.2	240.7	241.5	250.5	250.4	247.4	244.3	253.5	256.4	255.2	251.0	254.0			
Į	1984	255.8	263.4	261.6	267.4	265.4	260.8	257.1	258.7	253.3	249.8	240.2	245.7	245.7			
I	1985	230.5	243.2	245.3	238.8	236.8	230.4	229.4	229.3	218.0	212.8	219.9	230.4	232.2			
L	1986	225.2	227.4	221.8	220.2	218.6	227.0	222.6	228.6	227.0	224.1	227.4	230.1	227.4			
L	1987	NA	220.8	222.9	223.3	231.9	242.0	239.3	236.3	231.1	232.1	229.0	NA	NA			

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1987 NA 220.8 222.9 223.3 231.9 242.0 239.3 236.3 231.7 232.1 229.0 NA NA NA NOT AVAILABLE

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SIC :	20-23	,26-3	1N		URA	BLE	e go	ODS	(Cor	ı.)					sic	201—	MEAT	r PRC	DUCC	TS								
		••		MO	UCTION-1	NOR ER	AVERAG	E WEEKLY	OVERTIME	HOURS		.,	,,		1981	346.0	117.1	1363	335.0	ALL D 337.6	1011123- 341.0	IN THOU 342.4	SANOS 349.7	350.5	1519	356.2	357.3	n
984 985 996 997	11 11 13	31 28 32 33	11 21 11	3	1	31 28 3.1	30 2.8 3.2	12 10 12	11 10 13	11 11 14	14 15 17	11 13 15	12 11 16	1	1984 1985 1986 1987	355.5 361.7 371.5	346.3 355.0 360.5 372.5	344.3 355.2 361.7 371.5	347.1 355.4 362.3	349.5 353.4 359.7	351.6 357.6 367.2	355.5 362.6 372.0	358.6 364.3 376.1	358.1 367.1 376 8	157.9 366.7 371.8	364.6 366.4 379.0	366 8 367 4 382 4	9 2 3 3
SIC :	20—F	OOD	ANC	KIN	DRE	D P	ROD	UCT	S						1983	114.8	110.8	110.4	111.0	WOMEN 112.4	EMPLOYEE 113.5	3-IN THC 1142 1152	USANDS 117.0 117.1	117.4	117.9 118.1	112.0	118.6	11
983	1.614.8	1.558.3	1.555.3	1.552	A 3 1.55	LL EMPL 5.2 1	LOYEES	IN THOUS	SANDS 1.651.0	1,697.8	1,709.3	1,666.9	1,634.2	1,600.	1985	120.6	116.3	116.9	116.9	117.3	119.6	120.7	12.4	173.2 120.4	123.6	123.7		iz D
984 985 986	1,612 2 1,602.5 1,616 9	1,568 2 1,558 3 1,554 5	1,556 9	1,552	2 1,55	7,8 1 19 1 99 1	1,574.2 1,561.9 1,575.3	1,610.3 1,608.6 1,624.5	1,659.7 1,636.4 1,655.4	1,700.6 1,693.6 1,705.6	1,693.0 1,689.0 1,705.9	1,656.2 1,644.4 1,664.9	1,620.9	1,596	1967		127.6	126.9		PRODUCT	ion work:	ENSIN 11	IOUSANDS					
987		1,576 4	1,572	5			-								1983 1984	283.4 298.2	279.9 281.7	278.9 286 6	278.7 289.7	280.2 292.0	283 9 294 5	215.0	292 0 302 0	292.7 302.5	295.7 301.4	2013 2014	299 0 308.5	22
963 954	496.7 497.8	469 3 473 0	465.	6 46 4	3 46	ncn cu 7.9 8.8	476.4 425.0	493.8 490.8	512.2 520.1	540.5 543.6	546.6 541.4	523.6 527.6	509.8 504.9	490. 494.	1985	304.8 315.4	297.6 305.2 114.9	297.3 306.8 313 9	257.0 307.1	295.8 304 9	300.5 311.8	317.0	320 0	3207	327.2	321.9	324.9	32
965	497.3 506 3	4739 475.7	469 476	476	0 45 0 47	14 53	475.5 494 0	495.3 503.3	510.5 519.8	542.3 549.7	541.1 551.2	520.8 531.9	504.6 521.1	496. 510.					MODUCTIO	IN WORKER	AVEDINGE	WEEKLY E	uning_	IR DOLLAR				
98/		461./	45.	5	MOD	UCTION	I WORKED	5RI TH	OUSANDS						1983 1984	282.00 285.96	205.23	282.75	290.68 283 24 274 51	293.70 200.24 273.51	292.39 285.26 290.40	290.75 290.07 207.01	213.33 219.21 710.40	290.33	202.0	766.00	292.53 284 97 291.93	20
983 984	1,113,7 1,119,5	1,056 9 1,075.7	1,050	1,055	0 1.05	7.8 1 88 1	1,075.6	1,109.6 1,115.2	1,145.0 1,161 6	L 191.4 1,203.7	1,203.1 1,200.2	1,164,8 1,164,2	1,133,7 1,129,9	1,102	196	288 01	290.77 296.00	271.85	278.82	285 48	294 40	ສາກ	29066	20.13	296 46	286 89	201.73	200
85 86 87	1,111,1	1,073.1 1,076.7 1,099.3	1,063 (1,064	2 1.06 5 1.07	13 I 31 I	1,079 4 1,094,7	1,122.0 1,139.3	1,144.5 1,169.7	1,224.3 1,220.1	1,201.1	1,161.1	1,126 /	1,140.			117	7.64	PRODUCTION	IN WORKER	AVENAGE	HOURLY E	-220000	III 001148	, 7 m	778	78	,
				MODUC	TION-NOT	KER AV	VERAGE W	EEKLY EA	RATINGS1	N COLLARS					1983 1984	124	131	12	130	7.26	12	17	125	124	125	115	7.16 7.20	Ì
983 984 985	323.51 333.92 322.60	316.29 330.57 336.15	313.3	317.	7 320	15 20	322.65 333.04 344.40	326.36 336.80 341.09	323.51 331.85 342.40	325.60 334.03 342.15	329.26 336.51 341.02	324.37 331.14 341.00	329.18 338.00 345.12	312.7	1986 1987	7.31	7.33 7.40	7.23 7.35	7.28	1.32	7.36	7.33	7.34	7.31	1.92	7.30	13	
986 987	349.60	348.33 354 22	339 61 351 0	344	6 346	90	352.00	349.60	349.52	351.60	349.45	347.60	153.36	357.8	1983	39.3	39.0	37.5	M 38.5	ICOUCTION 38.9	WORKER / 39.3	AVERAGE 10 40.1	EERLY HOL 39.0	#S 395	39.9	39.6	39 8	1
M C1	119	10	81	PRODUC	IXXX-NOC	KER AV	VERACE H	OUTLY EA	10010005-0 1 19	N DOLLARS	115	815	175		1984 1985	39.5 39.5	315	38.0 37.9 37.5	313	386 38.2 19.0	39.4 40.0 40.0	399 397	39.9 40.0 39.6	399 399 401	40.5 40.9 40.5	40.0 40.2 39.3	370 401 391	
984 985	139	139	13		6	41	64) 661	142	13	133	135	132	845 861	- H	1 1907	154	40 0	38.2						-				
987	1/4	8.90	ii.	•	•	. /10	6.74	1/4	5.76	E 00	100	8.63	1/3	6.5	1983	35	12	2.5	3.0	3.2 3.0	ALK ATLA 34	44 WEEK	3.5 14	16 36	39	39 36	35	
983	395	39 0	38.	5 38	MODUCI 8 3	108-WC 1.9	ORKER AN 39.3	ERAGE W 39.8	EEKLY HOU 39:5	40.0	40.4	39.8	39.9	39	1965	iš 16	33 35	บับ	26	26 31	36	36	11	34	44	36	4 L 3 9	
984 985 986	39 8 40 0 40 0	39.4 39.5 39.9	39			95 92 96	39.6 400 401	40 0 39.8 40 0	336 400 799	40.1 40.3 40.5	40.3 40.8 40.4	39 8 40,4 40,0	40.0 40.2 40.2	40. 40. 40.	1987		38	2.9										
987		39 1	33	i								-0.0			SIC	2011-	-ME/	NT P/	CKIN	IG PL		5						
983 914	36	32	2	1	1 1 1	1.1 3.1 1.4	3.2 1.4	C WEEKEN 3.5 3.9	38 38	42	15	39	17	3	1983 1984	143.4 144.5	142.2 145 5	141.0 143.1	140.2	140.1	141.3 144.2	138.6 1450	[43.2 [44.6	1437 1428	146.6 143.2	148.0 145.4	148.6 146.2	14
985 986	38 39	34	1		ž	12 14	36 38	3.7	ä	46	ă	41	10	1	1985	140.3 138.3	142.9	140.8	140.2	138.3 135.6	138.8 137.2	140.2 138.2	140.2 138.8	141.8 138 8	139.9 139.2) 39 4 38 3	140 1 140 8	12
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SIC :	20-23	,26-3	1 —N	OND	JRAB	LE G	OODS	G (Coi	L)					sic	20-2	3,26-:	31—N	ONDI	JRAÐ	LE G	OOD	S (Co	n.)				.
1932 1933 1934 1935	41.9 40.9 35.1 36.1 17.7	420 413 345 354	43.0 42.0 36.2 36.0	427 403 362 361	41.1 41.1 359 355	40.0 43.3 35.4 35.1	40.3 44.9 34.5 35.0	29.0 44.4 34.1 255	40,7 31,7 34,6 35,4	415 37.0 34.6 37.0	417 363 369 372	42) 200 345 344	42.1 34.9 35.5 37.5	1956 1957 1958 1959	24 23 22 27	2.6 2.2 1.9 2.4	24 22 19 25	PH000 24 22 19 2.6	22 21 18 2.5	KER AVEN 22 21 19 27	42 WEU 23 21 27	Y OVERTIN 2.4 2.4 2.2 2.8	E HOURS 24 24 24 23	2.6 2.5 2.6 3.1	26 23 25 24	25 21 25 27	2.5 2.1 2.6 2.7
977 1930 1930	37.4 36.1 37.4	313 313	113 113 113	11.6 35.6 37.8	317 310 317	382 35.1 36.0	377 360 373	373 361 371	373 370 374	363 374 37.7	312 375 382	347 347 353 377	347 375 375	1960 1961 1962	25 25 27	26 21 25	25	2.5 2.2 2.6	222	25 23 27	24	26 26 28	26 27 27	26 23 29	25 28 27	24 24 27	227
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Senator SARBANES. Commissioner, thank you very much, and your associates. We are pleased to have had you back before the committee.

The committee stands adjourned. [Whereupon, at 10:30 a.m., the committee adjourned, subject to the call of the Chair.]

EMPLOYMENT-UNEMPLOYMENT

FRIDAY, DECEMBER 4, 1987

Congress of the United States, Joint Economic Committee, Washington. DC.

The committee met, pursuant to notice, at 9:40 a.m., in room SD-28, Dirksen Senate Office Building, Hon. Paul S. Sarbanes (chair-

628, Dirksen Senate Óffice Building, Hon. Paul S. Sarbanes (chairman of the committee) presiding.

Present: Senators Sarbanes and Melcher; and Representative Solarz.

Also present: Judith Davison, executive director; and William Buechner, Jim Klumpner, Chris Frenze, and Joe Cobb, professional staff members.

OPENING STATEMENT OF SENATOR SARBANES, CHAIRMAN

Senator SARBANES. The committee will come to order.

I am very pleased once again to welcome Janet Norwood, Commissioner of Labor Statistics before the Joint Economic Committee to discuss the employment and unemployment situation for November.

Obviously, there is a great deal of uncertainty nowadays about the direction of the economy. Not only the drop in the market on October 19 but the continuing volatility in the market since then have reinforced concerns about the underlying strength of the economy and the prospects of a recession.

In this context, obviously, we need to look at the monthly unemployment figures with some care although, as we have been constantly admonished by the Commissioner herself, you can't discern a trend in the figures of a month or two, and sometimes the impact of events takes time to be reflected.

Commissioner, we are very pleased to have you and your associates back with us this morning, and we are prepared to hear your statement.

Before you begin, Mrs. Norwood, Senator Roth has requested that his written opening statement be placed in the hearing record. Without objection, so ordered.

[The written opening statement follows:]

WRITTEN OPENING STATEMENT OF SENATOR ROTH NOVEMBER EMPLOYMENT SITUATION DECEMBER 4, 1987

IT GIVES ME GREAT PLEASURE TO WELCOME COMMISSIONER NORWOOD HERE THIS MORNING.

ONCE AGAIN COMMISSIONER NORWOOD BRINGS VERY GOOD NEWS. THE CIVILIAN UNEMPLOYMENT RATE DECLINED ONE TENTH OF A POINT IN NOVEMBER TO A LEVEL OF 5.9 PERCENT. THIS IS THE LOWEST UNEMPLOYMENT RATE SINCE THE END OF 1979.

CIVILIAN EMPLOYMENT, AS MEASURED BY THE HOUSEHOLD SURVEY, POSTED A GAIN OF 315,000. THE NOVEMBER JOB GAIN PUSHES THE LEVEL OF TOTAL EMPLOYMENT TO 113.5 MILLION, A NEW RECORD. MORE AMERICANS ARE WORKING TODAY THAN EVER BEFORE.

THE EMPLOYMENT-POPULATION RATIO, AN IMPORTANT MEASURE OF OUR ECONOMY'S ABILITY TO CREATE ENOUGH JOBS, ALSO SIGNALS ECONOMIC STRENGTH. THE 61.9 PERCENT NOVEMBER E-P RATIO IS EXTREMELY HIGH BY HISTORICAL STANDARDS.

DURING THIS EXPANSION THE ECONOMIC PROGRESS HAS BEEN IMPRESSIVE. OVER 14 MILLION JOBS HAVE BEEN CREATED, WITHOUT THE HIGH INFLATION THAT UNDERMINED PREVIOUS RECOVERIES. THOUGH

PROBLEMS REMAIN, THE EVIDENCE CERTAINLY DOES NOT SUPPORT THOSE WHO CONSTANTLY VOICE PESSIMISM ABOUT THE DIRECTION OF THE ECONOMY. THIS UPSWING IS NOW THE LONGEST PEACETIME EXPANSION IN U.S. HISTORY. WHILE THE PESSIMISTS HAVE BEEN GLOOMING AND DOOMING, EMPLOYMENT HAS BEEN BOOMING.

OUR TASK AS ECONOMIC POLICY MAKERS IS TO AVOID ACTIONS WHICH MIGHT JEOPARDIZE THE RECORD BREAKING EXPANSION. CONTINUED ECONOMIC GROWTH WILL FURTHER IMPROVE THE STANDARD OF LIVING, WHILE EXTENDING OPPORTUNITY TO THE LEAST FORTUNATE OF OUR CITIZENS.

THANK YOU, MR. CHAIRMAN.

Senator SARBANES. Please proceed, Mrs. Norwood.

STATEMENT OF HON. JANET L. NORWOOD, COMMISSIONER, BUREAU OF LABOR STATISTICS, DEPARTMENT OF LABOR, AC-COMPANIED BY KENNETH V. DALTON, ASSOCIATE COMMIS-SIONER, OFFICE OF PRICES AND LIVING CONDITIONS; AND THOMAS J. PLEWES, ASSOCIATE COMMISSIONER, OFFICE OF EMPLOYMENT AND UNEMPLOYMENT STATISTICS

Mrs. Norwood. Thank you very much, Mr. Chairman and Senator Melcher. We are pleased to be here.

Labor market developments continued positive in November as the economy completed a fifth year of expansion. Employment rose markedly by about 300,000 in both surveys.

The overall unemployment rate, at 5.8 percent, and the civilian rate, at 5.9 percent, have changed very little in the last few months, but both rates are a full percentage point below the level of last year.

Manufacturing showed continued job strength, with about 70,000 workers added to factory payrolls in November. Since last June, factory jobs have risen by 300,000. The November increases in manufacturing were fairly widespread.

The BLS diffusion index showed that nearly 7 out of 10 industries added workers. In fact, over-the-month job gains occurred in nearly all of the 20 individual manufacturing industries for which we publish employment estimates in our monthly news release.

Factory hours also continued to be very high. At 41.2 hours in November, the factory workweek was just a tenth of an hour below the October level, and factory hours in both of those months represent the longest workweeks in 21 years. Factory overtime hours, although down slightly from October, were also extremely high by historical standards.

Construction employment, which usually contracts in the fall as colder weather limits outdoor work activity, fell less than usual this November. As a result, employment in this industry rose by 35,000 after seasonal adjustment. Over the past year, job gains in construction have been relatively small.

Services employment continued to expand, adding about 90,000 jobs from October to November. Over half of that increase was in health services. Elsewhere in the service-producing sector, employment rose by about 25,000 in both transportation and public utilities and in wholesale trade. In addition, 15,000 jobs were added in finance, insurance and real estate. These figures suggest that the difficulties faced by the financial securities industry have not yet affected our employment measure.

After growing by 140,000 in September and October, employment in retail trade changed little in November after seasonal adjustment. The November weakness resulted from smaller-than-usual job increases in department stores. Over the past year, employment in retail trade has increased by 380,000.

Overall, employment has risen by about 3 million over the past year. More than a third of this total occurred in the services industry alone, which added just over 1 million jobs. About 700,000 of that increase was in the two fastest growing of the services industries—business and health services.

Adult women accounted for a little more than half of the 3 million increase and adult men had 1.3 million of the job gain. The employment-population ratio rose a full percentage point over the year to a new high of 61.9 percent.

As I indicated earlier in my statement, the Nation's jobless rate has declined by a full percentage point since November a year ago. Nearly all of that improvement occurred from late 1986 through the early summer of this year. Since June, the continued growth in employment, although fairly large, has been just about enough to absorb growth in the labor force.

In summary, labor market growth continues to be strong. Employment gains in November were large and widespread. Factory jobs rose again, and factory hours were very high. The labor force continued to grow. The number of unemployed, at 7.1 million in November, was more than a million below the level of a year ago.

Mr. Chairman, we would be glad to try to answer any questions you may have.

[The table attached to Mrs. Norwood's statement, together with the Employment Situation press release, follows:]

				X-11 ARI	MA metho	od			X-11 method	
Month and year	Unad- justed rate	Official procedure	Concurrent (as first computed)	Concurrent (revised)	Stable	Total	Residual	12-month extrapola- tion	(official method before 1980)	Range (cols. 2-9)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1986										
November	6.6	6.9	6.9	6.9	6.9	6.9	7.0	6.9	7.0	.1
December	6.3	6.7	6.7	6.7	6.6	6.7	6.7	6.7	6.7	.1
1987	l	}			}					}
January	7.3	6.7	6.7	6.7	6.7	6.8	6.6	6.7	6.7	.2
February	7.2	6.7	6.7	6.6	6.6	6.7	6.5	6.7	6.7	.2
March	6.9	6.6	6.6	6.5	6.6	6.6	6.5	6.6	6.6	•1
April	6.2	6.3	6.3	6.3	6.4	6.3	6.3	6.3	6.3	•1
Мау	6.1	6.3	6.3	6.3	6.4	6.3	6.4	6.3	6.3	•1
June	6.3	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	-
July	6.1	6.0	6.1	6.1	6.0	6.0	6.0	6.0	6.0	.1
August	5.8	6.0	6.0	6.0	5.9	6.1	6.2	6.0	6.0	.3
September	5.7	5.9	5.9	5.9	5.9	5.9	6.0	5.9	5.9	.1
October	5.7	6.0	6.0	6.0	6.0	5.9	6.0	6.0	6.0	•1
November	5.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	_

Unemployment rates of all civilian workers by alternative seasonal adjustment methods

SOURCE: U.S. DEPARTMENT OF LABOR Bureau of Labor Statistics December 1987 (1) Unadjusted rate. Unemployment rate for all civilian workers, not seasonally adjusted.

(2) Official procedure (X-11 ANIMA method). The published seasonally adjusted rate for all civilian workers. Each of the 3 m jor civilian labor force components-agricultural employment, nonagricultural employment and unemployment-for 4 age-sex groupe-malles and females, ages 16-19 and 20 years and over-are seasonally adjusted independently using data from January 1974 forward. The data series using ARIMA (anto-Regressive, Integrated, Hoving Average) models chosen specifically for each series. Each extended series is then seasonally adjusted with the X-11 portion of the X-11 ARIMA hyprogram. The 4 tesnage unemployment and nonagricultural employment components are adjusted with the additive adjustent model, while the other components are adjusted with the multiplicative model. The unemployment rate is computed by summing the 4 seasonally adjusted series are revised at the end of calculating that total as a percent of the civilian labor force total derived by summing all 12 seasonally adjusted components. All the seasonally adjusted series are revised at the end of each year; Extrapolated factors for January-Jume are computed at the beginning of each year; extrapolated factors for July-December are computed in the middle of the year after the Jume data become available. Each set of 6-month factors are published in advance, in the January and July issues, respectively, of <u>Employment and Sarnings</u>.

(3) <u>Concurrent (as first computed, X-11 ARIMA method)</u>. The official procedure for computation of the rate for all civilian workers using the 12 components is followed except that extrapolated factors are not used at all. Each component is seasonally adjusted with the X-11 ARIMA program such month as the most recent data become available. Eastes for each month of the current year are shown as first computed; they are revised only once each year, at the end of the year when data for the full year become available. For example, the rate for January 1984 would be based, during 1984, on the adjustment of data from the period January 1974 through January 1984.

(4) <u>Concurrent (revised, X-11 ARIMA method)</u>. The procedure used is identical to (3) above, and the rate for the current month (the last month displayed) will always be the same in the two columns. However, all previous months are subject to revision each month based on the seasonal adjustment of all the components with data through the current month.

(5) <u>Stable (X-11 ANIMA method</u>). Each of the 12 civilian labor force components is extended using ANIMA models as in the official procedure and then run through the X-11 part of the program using the stable option. This option assumes that seasonal patterns are basically constant from year-to-year and computes final seasonal factors as unweighted averages of all the seasonal-irregular components for each month across the entire span of the period adjusted. As in the official procedure, factors are extrapolated in 6-month intervals and the series are revised at the end of each year. The procedure for computation of the rate from the seasonally adjusted components is also identical to the official procedure.

(6) <u>Total (X-11 ARIMA method</u>). This is one alternative aggregation procedure, in which total unemployment and civilian labor force levels are extended with ARIMA models and directly adjusted with multiplicative adjustment models in the X-11 part of the program. The rate is computed by taking seasonally adjusted total unemployment as a percent of seasonally adjusted total civilian labor force. Factors are extrapolated in 6-month intervals and the series revised at the end of each year.

(7) Residual (X-11 ARIMA method). This is another alternative aggregation method, in which total civilian employment and civilian labor force levels are extended using ARIMA models and then directly adjusted with multiplicative adjustment models. The seasonally adjusted unemployment level is derived by subtracting seasonally adjusted employment from seasonally adjusted labor force. The rate is then computed by taking the derived unemployment level as a percent of the labor force level. Factors are extrapolated in 6-month intervals and the series revised at the end of each year.

(8) <u>12-month extrapolation (X-11 ARIMA method</u>). This approach is the same as the official procedure except that the factors are extrapolated in 12-month intervals. The factors for January-December of the current year are computed at the beginning of the year based on data through the preceding year. The values for January through Jone of the current year are the same as the official values since they reflect the same factors.

(9) X-11 method (official method before 1980). The method for computation of the official procedure is used except that the series are not extended with ARIMA models and the factors are projected in 12-month intervals. The standard X-11 program is used to perform the seasonal adjustment.

<u>Methods of Adjustment:</u> The X-11 ARIMA method was developed at Statistics Canada by the Seasonal Adjustment and Times Series Staff under the direction of Estels Dee Dagum. The method is described in <u>The X-11 ARIMA Seasonal Adjustment Method</u>, by Estels Bee Dagum, Statistics Canada Catalogue No. 12-364E, February 1980.

The standard X-11 method is described in X-11 Variant of the Census Method II Seasonal Adjustment Program, by Julius Shiskin, Allan Young and John Musgrave (Technical Paper No. 15, Bureau of the Census, 1967).



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THE EMPLOYMENT SITUATION: NOVEMBER 1987

Employment continued to rise in November, while unemployment remained at about the same level that has prevailed since early summer, the Bureau of Labor Statistics of the U.S. Department of Labor reported today. The overall jobless rate was 5.8 percent, and the civilian worker rate was 5.9 percent.

Nonagricultural payroll employment, as measured by the monthly survey of business establishments, rose by 275,000, and civilian employment, as measured by the household survey, rose by 315,000. Both surveys showed increases of roughly 3 million from a year earlier.

Unemployment (Household Survey Data)

The number of unemployed persons, at 7.1 million in November, and the civilian unemployment rate, at 5.9 percent, were little changed from October, after seasonal adjustment. These measures have shown little or no movement since June. However, the November unemployment level was 1.1 million lower than a year earlier, and the jobless rate was down a full percentage point over this period. (See table A-2.)

Unemployment rates for virtually all major labor force groups were about unchanged from October to November, but, as with the overall rate, there has been considerable improvement for most groups over the past year. For example, jobless rates for adult men (5.0 percent), adult women (5.2 percent), whites (5.1 percent), and blacks (12.1 percent) all were down substantially from November 1986. The teenage rate (16.8 percent) has edged down only slightly. The jobless rate for manufacturing workers, at 5.3 percent, was down nearly 2 percentage points from a year earlier. (See tables A-2, A-3, and A-6.)

Both the mean and median duration of unemployment, at 13.8 and 6.1 weeks, respectively, were about unchanged from October. (See table A-7.)

Civilian Employment and the Labor Force (Household Survey Data)

Civilian employment rose by 315,000 in November, after seasonal adjustment, following a substantial increase in the prior month. All of the employment growth occurred among adults. The proportion of the population that is employed increased by two-tenths of a percentage point, reaching a new high of 61.9 percent. (See table A-2.) The civilian labor force continued to expand, rising by 255,000 in November to a seasonally adjusted level of 120.6 million. The labor force participation rate remained at a high of 65.7 percent. Over the year, the labor force has grown by 2.0 million, with adult women accounting for about three-fifths of the increase. Hispanics comprised about a quarter of the over-the-year gain.

	Quart	erly ages	Mor	thly data	L	
Category	198	37		1987		Nov.
	11	III	Sept.	Oct.	Nov.	change
HOUSEROLD DATA		The	meands of	Dersons		
Labor force 1/	121.341	121.771	121.604	122,102	122.371	269
Total employment 1/	113,906	114.593	114.515	114,928	115.255	327
Civilian labor force	119,615	120.038	119,861	120.361	120,616	255
Civilian employment.	112,180	112,860	112,772	113,187	113,500	313
Unemployment	7.435	7,178	7.089	7,174	7,116	-58
Not in labor force	62,912	62,978	63.300	62.950	62,854	-96
Discouraged workers	1,037	1,011	N.A.	N.A.	N.A.	N.A.
						I
		Per	cent of	abor iore	:e	Y
All combone 1/	6 1		5 0	5 0	E 0	-01
All civilian workers	6 2	5.9	5.0	5.5	5.9	
Adult men.	5.5	5.2	5.0	5.1	5-0	
Adult women	5.4	5.4	5.4	5.2	5.2	
Теерауетв	17-0	15.9	16.3	17.4	16.8	6
White	5.3	5.1	5.1	5.2	5.1	1
Black	13-2	12.4	12.3	12.0	12.1	
Hispanic origin	8.8	8.0	8.2	8.3	9.1	.8
ESTABLISHMENT DATA					L	L
		The	usands of	jobs		
Nonfarm employment	101,708	102,278	102,434	p102,970	p103,244	p274
Goods-producing	24,757	24,884	24,917	p25,053	p25,152	p99
Service-producing	76,951	77,394	77,517	p77,917	p78,092	p175
			Jours of y	mrk.		
Average weekly hours:		· · · · ·				T
Total private	34.8	34.8	34.6	p34.9	p34.9	00
Manufacturing	40.9	40.9	40.6	p41.3	p41.2	p-0.1
Overtime	3.7	3.7	3.6	p4.0	p3.9	p1
1/ Includes the rest	Ident Arm	d Foresc	L	N A	-	11ab10

Table A. Major indicators of labor market activity, seasonally adjusted

1/ Includes the resident Armed Forces. N.A.=not available. p=preliminary.

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Industry Payroll Employment (Establishment Survey Data)

Total nonagricultural employment, at 103.2 million, rose by 275,000 in November, seasonally adjusted. The goods-producing sector was unusually strong, accounting for more than a third of the job gain. (See table B-1.)

Factory employment rose by 70,000 in November, following a similar advance in October. Job growth was widespread in both the durable and nondurable goods components, as nearly all of the 20 individual industries showed gains. Since June, the number of factory jobs has increased by 300,000. Elsewhere in the goods sector, construction employment increased by 35,000 after seasonal adjustment, as seasonal layoffs were fewer than usual (following weak summer hiring).

Employment in the service-producing sector rose by 175,000 in November. There was a 90,000 increase in the services industry, paced by gains in health services; transportation and public utilities and wholesale trade each added 25,000 jobs; and the finance, insurance, and real estate industry posted a 15,000 gain. However, retail trade employment was about unchanged after seasonal adjustment, primarily because holiday-related hiring in one of its major components--general merchandise stores--was less than seasonally expected.

Weekly Hours (Establishment Survey Data)

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls was unchanged at 34.9 hours in November, seasonally adjusted. In manufacturing, both the workweek (41.2 hours) and overtime (3.9 hours), while down fractionally over the month, were at historically high levels. (See table B-2.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls rose 0.2 percent to 122.2 (1977=100) seasonally adjusted, as a result of the employment gains. The manufacturing index rose 0.3 percent to 95.3. (See table B-5.)

Hourly and Weekly Earnings (Establishment Survey Data)

Both average hourly earnings and average weekly earnings rose by 0.6 percent in November, seasonally adjusted. Before seasonal adjustment, average hourly earnings rose by 5 cents to \$9.14, and average weekly earnings were up 83 cents to \$318.07. Over the past 12 months, hourly earnings have risen 26 cents and weekly earnings have increased by \$9.93. (See table B-3.)

The Hourly Earnings Index (Establishment Survey Data)

The Hourly Earnings Index (HEI) was 175.7 (1977-100) in November, seasonally (djusted, an increase of 0.5 percent from October. For the 12 months ended in November, the increase was 2.6 percent. The HEI excludes the effects of two types of changes unrelated to underlying wage rate movements--fluctuations in manufacturing overtime and interindustry employment shifts. In dollars of constant purchasing power, the HEI decreased 1.8 percent during the 12-month period ended in October. (See table B-4.)

Revisions in Household Survey Data

In accordance with usual practice, the Employment Situation release of December data will incorporate annual revisions in seasonally adjusted unemployment and other labor force series. Seasonally adjusted data for the most recent 5 years are subject to revision.

The Employment Situation for December 1987 will be released on Friday, January 8, 1988, at 8:30 A.M. (EST). Release dates for the balance of 1988 are as follows:

Feb. 5	May 6	Aug 🛛 5	Nov. 4
March 4	June 3	Sept. 2	Dec. 2
April 1	July 8	Oct. 7	

Explanatory Note

This news release presents statistics from two major surveys, the Current Population Survey (household survey) and the Current Employment Statistics Survey (establishment survey). The household survey provides the information on the labor force, total employment, and unemployment that appears in the A tables, marked HOUSEHOLD DATA. It is a sample survey of about 59.500 households that is conducted by the Bureau of the Census with most of the findings analyzed and published by the Bureau of Labor Statistics (BLS).

The establishment survey provides the information on the employment, hours, and earnings of workers on nonagricultural payrolls that appears in the B tables, marked ESTABLISHMENT DATA. This information is collected from payroll records by BLS in cooperation with State agencies. The sample includes over 290,000 establishments employing over 38 million people.

For both surveys, the data for a given month are actually collected for and relate to a particular week. In the household survey, unless otherwise indicated, it is the calendar week that contains the 12th day of the month, which is called the survey week. In the establishment survey, the reference week is the pay period including the 12th, which may or may not correspond directly to the calendar week.

The data in this release are affected by a number of technical factors, including definitions, survey differences, seasonal adjustments, and the inevitable variance in results between a survey of a sample and a census of the entire population. Each of these factors is explained below.

Coverage, definitions, and differences between surveys

The sample households in the household survey are selected so as to reflect the entire civilian noninstitutional population 16 years of age and older. Each person in a household is classified as employed, unemployed, or not in the labor force. Those who hold more than one job are classified according to the job at which they worked the most hourt.

People are classified as *employed* if they did any work at all as paid civilians; worked in their own business or profession or on their own farm; or worked 15 hours or more in an enterprise operated by a member of their family, whether they were paid or not. People are also counted as employed if they were on unpaid leave because of illness, bad weather, disputes between labor and management, or personal reasons. Members of the Armed Forces stationed in the United States are also included in the employed total.

People are classified as unemployed, regardless of their eligibility for unemployment benefits or public assistance, if they meet all of the following criteria: They had no employment during the survey week; they were available for work as that time; and they made specific efforts to find employment sometime during the prior 4 weeks. Persons laid off from their former jobs and awaiting recall and those expecting to report to a job within 30 days need not be looking for work to be counted as unemployed.

The labor force equals the sum of the number employed and the number unemployed. The unemployment rate is the percentage of unemployed people in the labor force (civilian plus the resident Armed Forces). Table A-5 presents a special grouping of seven measures of unemployment based on varying definitions of unemployment and the labor force. The definitions are provided in the table. The most restrictive definition yields U-1 and the most comprehensive yields U-7. The overall unemployment rate is U-5a, while U-5b represents the same measure with a eivilian labor force base.

Unlike the household survey, the establishment survey only counts wage and salary employees whose names appear on the payroll records of nonagricultural firms. As a result, there are many differences between the two surveys, among which are the following:

— The household survey, although based on a smaller sample, reflects a larger segment of the population; the establishment survey excludes agriculture, the self-employed, unpaid family workers, private household workers, and members of the resident Armed Forces;

- The household survey includes people on unpaid leave among the employed; the establishment survey does not;

- The household survey is limited to those 16 years of age and older; the establishment survey is not limited by age;

 The household survey has no daplication of individuals, because each individual is counted only once, in the establishment survey, employees working at more than one job or otherwise appearing on more than one payroll would be counted separately for each appearance.

Other differences between the two surveys are described in "Comparing Employment Estimates from Household and Payroll Surveys," which may be obtained from the BLS upon request.

Seasonal adjustment

Over the course of a year, the size of the Nation's labor force and the levels of employment and unemployment undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. For example, the labor force increases by a large number each June, when schools close and many young people enter the job market. The effect of such seasonal variation can be very large; over the course of a year, for example, seasonality may account for as much as 95 percent of the month-to-month changes in unemployment.

Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make nonseasonal developments, such as declines in economic activity or increases in the participation of women in the labor force, easier to spot. To return to the school's-out example, the large number of people entering the labor force each June is likely to obscure any other changes that have taken place since May, making it difficult to determine if the level of economic activity has risen or declined. However, because the effect of students finishing school in previous years is known, the statistics for the current year can be adjusted to allow for a comparable change. Insofar as the seasonal adjustment is made correctly, the adjusted figure provides a more useful tool with which to analyze changes in economic activity.

Measures of labor force, employment, and unemployment contain components such as age and sex. Statistics for all employees, production workers, average weekly hours. and average hourly earnings include components based on the employer's industry. All these statistics can be seasonally adjusted either by adjusting the total or by adjusting each of the components and combining them. The second procedure usually yields more accurate information and is therefore followed by BLS. For example, the seasonally adjusted figure for the labor force is the sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components: the total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force.

The numerical factors used to make the seasonal adjustments are recalculated regularly. For the household survey, the factors are calculated for the January-tune period and again for the July-December period. The January revision is applied to data that have been published over the previous 5 years. For the establishment survey, updated factors for seasonal adjustment are calculated only once a year, along with the introduction of new benchmarks which are discussed at the end of the next section.

Sampling variability

Statistics based on the household and establishment surveys are subject to sampling error, that is, the estimate of the number of people employed and the other estimates drawn from these surveys probably differ from the figures that would be obtained from a complete census, even if the same questionnaires and procedures were used. In the household survey, the amount of the differences can be expressed in terms of standard errors. The numerical value of a standard error depends upon the size of the sample, the results of the survey, and other factors. However, the numerical value is always such that the chances are approximately 68 out of 100 that an estimate based on the sample will differ by no more than the standard error from the results of a complete census. The chances are approximately 90 out of 100 that an estimate based on the sample will differ by no more than 1.6 times the standard error from the results of a complete census. At approximately the 90-percent level of confidence—the confidence limits used by 815 in its analyses—the error for the monthly change in total employment is on the order of plus or minus 328,000; for total unemployment it is 220,000; and, for the overall unemployment rate, it is 0.19 percentage point. These figures do not mean that the sample results are off by these magnitudes but, rather, that the chances are approximately 90 out of 100 that the "true" level or rate would not be expected to differ from the estimates by more than these amounts.

Sampling errors for monthly surveys are reduced when the data are cumulated for several months, such as quarterly or annually. Also, as a general rule, the smaller the estimate, the larger the sampling error. Therefore, relatively speaking, the estimate of the size of the labor force is subject to less error than is the estimate of the number unemployed. And, among the unemployed, the sampling error for the jobless rate of adult men, for example, is much smaller than is the error for the jobless rate of teenagers. Specifically, the error on monthly change in the jobless rate for men is .26 percentage point; for teenagers, it is 1.25 percentage points.

In the establishment survey, estimates for the 2 most current months are based on incomplete returns; for this reason, these estimates are labeled preliminary in the tables. When all the returns in the sample have been received, the estimates are revised. In other words, data for the month of September are published in preliminary form in October and November and in final form in December. To remove errors that build up over time, a comprehensive count of the employed is conducted each year. The results of this survey are used to establish new benchmarks—comprehensive counts of mensormen-against which month-to-month changes can be measured. The new benchmarks also incorporate changes in the classification of industries and allow for the formation of new establishments.

Additional statistics and other information

In order to provide a broad view of the Nation's employment situation, BLS regularly publishes a wide variety of data in this news release. More comprehensive statistics are contained in *Employment and Earnings*, published each month by BLS. It is available for \$8.50 per issue or \$22.00 per year from the U.S. Government Printing Office, Washington, D.C., 20204. A check or money order made out to the Superintendent of Documents must accompany all orders.

Employment and Earnings also provides approximations of the standard errors for the household survey data published in this release. For unemployment and other labor force categories, the standard errors appear in tables B through J of its "Explanatory Notes." Measures of the reliability of the data drawn from the establishment survey and the actual amounts of revision due to benchmark adjustments are provided in tables M, O, P, and Q of that publication.

HOUSEHOLD DATA

Table A-1. Employment statue of the populati ed Forces in the United States, by sex

(Numbers in thousands)

· · · · · · · · · · · · · · · · · · ·	Not se	e vitance:	djusted	Sessonally edjusted						
Employment status and sex	Nov. 1985	Oct. 1967	Nov. 1987	Nov. 1966	July 1987	Aug. 1987	Sept. 1987	Oct. 1987	Nov. 1987	
TOTAL					·					
Noninstitutional population ⁴	183,114	185,052	185,225	183,114	184,605	184,738	184,904	185,052	185,225	
Labor force'	120,374	122,485	122,368	120,426	121,672	122,038	121,604	122,102	122,371	
Participation rate ³	65.7	66.2	66.1	65.8	65.9	66.1	65.8	66.0	66.1	
Total employed"	112,502	115,639	115,564	112,183	114,447	114,817	114,515	114,928	115,255	
Employment-population ratio*	61.4	62.5	62.4	61.3	62.0	62.2	61.9	62.1	62.2	
Resident Armed Forces	1,751	1,741	1,755	1,751	1,720	1,736	1,743	1,741	1,755	
Civilian employed	110,751	113,898	113,809	110,432	112,727	113,061	112,772	113,187	113,500	
Apriculture	3.078	3,297	3,020	3,215	3,219	3,092	3.170	3,283	3,167	
Nonagricultural industries	107,673	110,601	110,789	107,217	109,508	109,969	109,602	109,903	110,333	
Unemployed	7.872	6.845	6,802	8.243	7,224	7.221	7.069	7.174	7.116	
Unemployment rates	6.5	5.6	5.6	6.8	5.9	5.9	5.8	5.9	5.8	
Not in labor force	62,740	62,567	62,859	62,688	62,933	62,700	63,300	62,950	62,854	
Mon, 16 years and over										
Noninstitutional population ²	87.773	88,758	68,849	87.773	88,534	88,598	68.683	68,756	88.849	
Labor force ²	67,108	67.620	67.753	67.407	67.656	67,925	67,736	67.916	68.025	
Participation rate ³	76.5	76.4	76.3	76.8	76.4	76.7	76.4	76.5	76.6	
Total employed"	62,747	64,272	64,084	62,633	63,715	63,918	63.939	64.024	64,179	
Employment-population ratio*	71.5	72.4	72.1	71.6	72.0	72.1	72.1	72.1	72.2	
Resident Armed Forces	1.592	1,580	1,593	1.592	1.561	1,575	1,581	1.580	1.593	
Civilian employed	61,155	62,692	62,491	61.241	62.154	62,343	62,358	62,444	62,586	
Unemployed	4,360	3.549	3.669	4.574	3.941	4,007	3,798	3,893	3.846	
Unemployment rates	6.5	5.2	5.4	6.8	5.8	5.9	5.6	5.7	5.7	
Women, 16 years and over										
Noninstitutional population	95.341	96,295	96.376	95.341	96.071	96,140	96,221	96,295	96.376	
Labor force ²	53,267	54,664	54,613	53.019	54.016	54,113	53,868	54.185	54,348	
Participation rate ³	55.9	56.8	56.7	55.6	56.2	56.3	56.0	58.3	56.4	
Total employed'	49.754	51,367	51,480	49.350	50,733	50.899	50.576	50,904	51.076	
Employment-population ratio*	52.2	53.3	53.4	51.8	52.8	52.9	526	52.9	53.0	
Resident Armed Forces	159	161	162	159	159	161	162	161	162	
Civilian employed	49,595	51,208	51.318	49,191	50,574	50.73A	50.414	50.743	50,914	
Unemployed	3.512	3,297	3,133	3.669	3,283	3,213	3,291	3,281	3,270	
Linemployment rate*	6.5	6.0	5.7	6.9	6.1	5.9	6.1	6.1	6.0	
				1			1			

¹ The population and Armed Forces figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unadjusted and seasonally adjusted columns. ¹ Includes members of the Armed Forces stationed in the United includes.

³ Labor force as a percent of the noninstitutional population. ⁴ Total employment as a percent of the noninstitutional population. ⁹ Unemployment as a percent of the labor force (including the reside timed Forces). Int Arm

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Table A-2. Employment status of the civilian population by sex and age

(Numbers in thousands)

Employment status and and	Not seasonally adjust					d Sessonally adjusted							
Engelyment Survey ever, and age	Nov. 1986	Oct. 1987	Nov. 1987	Nov. 1986	July 1987	Aug. 1987	Sept. 1987	Oct. 1987	Nov. 1987				
TOTAL					·								
Civilian noninstitutional population	181,363	183,311	163,470	181,363	182,885	183,002	183,161	183,311	183,470				
Civilian labor force	118,623	120,744	120,611	118,675	119,952	120,302	119,861	120,361	120,616				
Participation rate	65.4	65.9	65.7	65.4	65.6	65.7	65.4	65.7	65.7				
Employed	110,751	113,698	113,809	110,432	112,727	113,081	112,772	113,187	113,500				
Employment-population ratio"	61.1	62.1	62.0	60.9	61.6	61.8	61.6	61.7	61.9				
Unemployed	7,872	6,845	6,802	8,243	7,224	7,221	7,089	7,174	7,116				
Unemployment rate	6.6	5.7	5.6	6.9	6.0	6.0	5.9	6.0	5.9				
Men, 20 years and over	ĺ	{	[1	{	ĺ	ĺ						
Civilian noninstitutional population	78,874	79,807	79,885	78.874	79,625	79,668	79,740	79,807	79,885				
Civilian labor force	61,654	62,317	62,288	61,703	62,116	62,053	62,045	62,160	62,304				
Participation rate	78.2	78.1	78.0	78.2	78.0	77.9	77.8	77.9	78.0				
* Employed	58,019	59,442	59,289	57,883	58,793	58,818	58,957	58,997	59,167				
Employment-population ratio'	73.6	74.5	74.2	73.4	73.6	73.8	73.9	73.9	74.1				
Agriculture	2,263	2,403	2,234	2,303	2,343	2,254	2,355	2,354	2,282				
Nonsoricultural industries	55,755	57,040	57,056	55,580	56,450	56,564	56,601	56,643	56,885				
Unemployed	3,636	2,875	2,999	3,820	3,323	3,235	3,089	3,163	3,137				
Unemployment rate	5.9	4.6	4.8	6.2	5.4	5.2	5.0	5.1	5.0				
Women, 20 years and over	Ì						Į		}				
Civilian noninstitutional population	87,933	88,843	88,923	87,933	88,632	88,685	68,765	68,843	88,923				
Civilian labor force	49,458	50,721	50,690	49,043	49,971	49,989	49,882	50,098	50,256				
Participation rate	56.2	57.1	57.0	55.8	58.4	56.4	56.2	56.4	56.5				
Employed	48,597	48,076	48,166	46,067	47,288	47,324	47,179	47,493	47,634				
Employment-population ratio?	j 53.0	54.1	54.2	52.4	53.4	53.4	53.1	53.5	53.6				
Agriculture	640	670	624	675	619	603	585	648	655				
Nonagricultural industries	45,958	47,407	47,542	45,392	46,669	46,722	46,594	46,845	46,978				
Unemployed	2,860	2,644	2,525	2,976	2,683	2,664	2,703	2,605	2,622				
Unemployment rate	5.8	5.2	5.0	6.1	5.4	5.3	5.4	5.2	5.2				
Both sexes, 16 to 19 years	}							1					
Civilian noninstitutional population	14,557	14,661	14,663	14,557	14,628	14,649	14,637	14,661	14,663				
Civilian labor force	7,511	7,708	7,633	7,929	7,865	8,260	7,933	8,103	8,056				
Participation rate	51.6	52.6	52.1	54.5	53.8	56.4	54.2	55.3	54.9				
Employed	6,135	6,379	6,354	6,482	6,647	6,939	6,636	6,697	6,699				
Employment-population ratio ²	42.1	43.5	43.3	44.5	45.4	47.4	45.3	45.7	45.7				
Agriculture	174	225	162	237	258	236	230	262	230				
Nonagricultural industries	5,960	6,155	6,192	6,245	6,389	6,703	6,406	6,415	6,469				
Unemployed	1,376	1,327	1,279	1,447	1,218	1,321	1,297	1,406	1,357				
Unemployment rate	18.3	17.2	16.6	18.2	15.5	16.0	16.3	17.4	16.8				

'The population figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unadjusted and seasonally adjusted columns.

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Table A-3. Employment status of the civilian population by race, sex, age, and Hispanic origin

(Numbers in thousands)

	Not se	tsonally a	djusted		_				
Employment status, raes, sex, age, and Hispanic origin	Nov. 1986	Oct. 1987	Nov. 1967	Nov. 1986	July 1987	Aug. 1987	Sept. 1987	Oct. 1987	Nov. 1987
WHITE					·				
Civilian noninstitutional population	155,979	157,342	157,449	155,979	157,058	157,134	157,242	157,342	157,449
Civilian labor force	102,455	103,934	103,729	102,455	103,272	103,614	103,278	103,640	103,717
Participation rate	65.7	66.1	65.9	65.7	65.8	65.9	65.7	65.9	65.9
Employed	A1.9	62.8	627	61.7	624	82.6	82.3	62.5	80,437
Unemployed	5.899	5,053	5.031	6.174	5.314	5.315	5,283	5,357	5,260
Unemployment rate	5.8	4.9	4.9	6.0	5.1	5.1	5.1	5.2	5,1
Men, 20 years and over	\$2 030	64 399	64 249	54 015	64 914	64 1R4	84 152	54 367	
Participation rate	78.5	78.4	78.3	78.7	78.3	78.2	78.1	78.4	78.4
Employed	51,163	52,167	52,050	51,089	51,682	51,714	51,771	51,856	51,998
Employment-population ratio"	74.5	75.2	75.0	74.4	74.7	74.7	74.7	74.8	74.9
Unemployed	2,768	2,232	2,296	2,926	2,532	2,449	2,382	2,511	2,414
Unemployment rate	5.1	4.1	4.2	5.4	4.7	4.5	4.4	4.6	4.4
Women, 20 years and over Civilian labor force	41.951	42.943	42,850	41.540	42,280	42.418	42.312	42,352	42 438
Participation rate	55.6	56.5	56.3	55.1	55.7	55.9	55.7	55.7	55.8
Employed	39,893	41,069	41,058	39,399	40,379	40,535	40,395	40,522	40,571
Employment-population ratio	52.9	54.0	54.0	52.3	53.2	53.4	53.2	53.3	53.3
Unemployed	2,058	1,654	4.2	2,141	1,902	1,882	4.5	1,830	1,867
Both eexes, 16 to 19 years		ŀ	1						
Civilian labor force	6,573	6,592	6,531	6,900	6,778	7,033	6,814	6,922	6,867
Participation rate	55.2	55.2	54.7	58.0	56.6	58.8	57.0	58.0	57.5
Employed	5,500	5,626	5,590	5,793	5,898	6,049	5,829	5,906	5,888
Employment population ratio	40.2	047	40.8	48.7	49.3	50.6	48.0	49.5	49.3
Linemoloyment rate	16.3	14.7	1 14 4	160	13.0	140	14.5	14.7	14.3
Men	16.8	14.8	15.1	16.3	13.0	15.4	15.3	15.0	14.8
Women	15,8	· 14.6	13.7	· 15.7	13.0	12.5	13.6	14.3	13.7
BLACK									
Civilian noninstitutional population	20,120	20,453	20,482	20,120	20,373	20,396	20,426	20,453	20,482
Civilian labor force	12,695	13,160	13,178	12,719	13,047	13,194	13,027	13,167	13,211
Participation rate	63.1	64.3	64.3	63.2	64.0	64.7	63.8	64.4	64.5
Employed	10,946	11,582	11,632	10,910	11,401	11,563	11,427	11,562	11,607
Employment-population rate:	1 749	1678	1 545	1 800	1847	1 630	1 600	1 596	56./
Unemployment rate	13.0	12.0	11.7	14.2	12.6	12.4	12.3	12.0	12.1
Men, 20 years and over									1
Civilian labor force	5,951	6,019	6,053	5,934	6,089	6,079	6,025	6.012	6,035
Participation rale	74.8	74.3	74.6	74.5	75.4	75.2	74.4	74.2	74.4
Employed	5,200	0,401	0,434	3,1/1	5,404	5,431	5,425	5,435	5,421
Unemployed	742	569	599	763	686	647	600	577	614
Unemployment rate	12.5	9.5	9.9	12.9	11.3	10.7	10.0	9.6	10.2
Women, 20 years and over									1
Dationation rate	507	619	6,252	5,943	6,120	6,120	6,0/4	6,191	0,224
Employed	6 238	5 533	5.594	5 200	5.428	5.428	5 350	. 5 511	5 581
Employment-population ratio?	52.3	54.4	54.9	51.9	53.5	53.5	52.7	54.2	54.6
Unemployed	738	707	659	743	699	692	723	680	664
Unemployment rate	12.4	11.3	10.5	12.5	11.4	11.3	11.9	11.0	10.7
Both sezes, 16 to 19 years Civilian labor force	787	am			1 877	1 004	' 070		
Participation rate	35 A	41.4	401	39.7	· 384	45.9	427	44.4	437
Employed	499	597	585	539	571	704	652	636	625
Employment-population ratio'	23.3	27.5	26.9	25.1	26.3	32.5	30.0	29.3	28.7
Unemployed	269	302	287	303	262	291	276	328	326
Unemployment rate	35.0	33.6	32.9	36.0	31.5	29.2	29.7	34.0	34.3
Women	35.8	32.5	32.1	35.0	31.5	32.6	30.9	32.2	32.1
	374.5	j 34.7	3-3.7	1 37.0	, 31.4	23.3	28./	35.8	36.7

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Table A-3. Employment status of the civilian population by race, sex, ege, and Hispanic origin-Continued

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(Numbers in thousands)

Not account of the tool	
Not searching adjusted	
Employment etable, race, est, age, and Hespenic origin 1966 1967 1987 1986 1987 1987 1987 1987 1987 1987	40v. 987
Civilian noninstitutional population	3,043
Chilian labor force	8,774
Participation rate	67.3
Employed 7,476 7,991 8,002 7,437 7,744 7,884 7,869 7,935 7	7.976
Employment-population ratio 59.8 61.5 61.4 59.5 60.1 60.8 60.7 61.0	61.2
Unerroloved 777 704 785 789 667 680 699 718	796
Unemployment rate	9.1

¹ The population figures are not adjusted for sessonal variation; therefore, identical numbers appear in the unadjusted and sessonally adjusted columns.¹ Critian employment as a percent of the civilian noninstitutional ¹ Critian employment as a percent of the civilian noninstitutional ¹ Critian set included in both the write and black population groups.¹

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Table A-4. Selected employment indicators

(in thousands)

	Not ee	ssonally a	djusted	Sessonally adjusted						
Catagory	Nov. 1986	Oct. 1987	Nov. 1987	Nov. 1985	July 1987	Aug. 1987	Sept. 1987	Ocl. 1987	Nov. 1987	
PERSONS AT WORK PART TIME										
Civilian employed, 16 years and over	110 751	113,898	113 809	110.432	112 727	113.081	112 772	113 187	113 500	
Married men, spouse cresent	40.099	40 905	40 879	39,952	40.241	40,250	40,370	40 580	40 716	
Married women, spouse present	27.954	28,685	28,688	27.333	28,426	28,196	27.958	28.013	28.098	
Women who maintain families	5,965	6,174	6,218	6,041	6,013	6,106	6,164	6,205	6,281	
CHARACTERISTIC										
Agriculture:								i i	1	
Wage and salary workers	1,489	1.673	1,492	1,582	1,619	1,588	1.615	1.716	1.589	
Sell-employed workers	1,410	1,487	1.384	1,425	1,429	1,363	1,417	1.441	1,399	
Unpeid family workers	179	136	144	198	154	159	134	136	159	
Nonagricultural industries:										
Wage and salary workers	99,127	101,883	102,245	98,869	100,838	101,334	101,221	101,503	102,056	
Government	16,602	17,268	17,307	16,457	16,931	16,760	16,915	17,083	17,170	
Private industries	82,526	84,595	64,938	62,412	83,907	84,574	84,306	64,420	84,686	
Private households	1,145	1,257	1,244	1,153	1,224	1,172	1,068	1,235	1,297	
Other industries	81,381	63,338	63,694	81,229	82,683	83,402	83,218	83,185	83,589	
Sett-employed workers	8,292	8,478	8,316	8,179	8,205	8,216	8,184	8,320	8,097	
Unpeid family workers	254	240	228	252	268	250	300	238	226	
MAJOR INDUSTRY AND CLASS OF WORKER								•		
All industries:				:				:		
Part time for economic reasons	5.414	5,129	5,430	5,563	5,508	5.262	5,241	5,416	5.575	
Slack work	2,563	2,346	2,504	2,510	2,458	2,515	2,212	2,389	2,455	
Could only find part-time work	2,546	2,496	2,569	2,714	2,722	2,494	2,702	2,664	2,739	
Voluntary part time	15,185	15,500	15,639	14,021	14,422	14,634	14,313	14,459	14,494	
Nonagricultural industries:							l			
Part time for economic reasons	5,178	4,856	5,152	5,319	5,235	4,998	4,968	5,101	5,290	
Slack work	2,409	2,162	2,293	2,366	2,295	2,306	2.038	2,211	2,250	
Could only find part-time work	2,478	2,412	2.510	2,626	2,634	2,433	2,628	2,555	2,659	
Voluntary part time	14,759	15,058	15,232	13,567	13,946	14,168	13,930	14,007	14,039	

* Excludes persons "with a job but not at work" during the survey period for such reasone as vacation, illness, or industrial dispute,

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ployment and the labor force, seasonally adjusted Table A-5. Range of u (Percent)

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	· · · · · · · · · · · · · · · · · · ·		Quart	erly ave		Monthly data				
	Measure	19	6 6	1967			. 1987			
		m	IV.			۴L	Sect.	Oct	Nov.	
υı	Persons unemployed 15 weeks or longer as a percent of the civilian labor force	1.9	1.8	1.8	1.7	1,6	1.6	1.5	1.5	
U-2	Job losers as a percent of the civilian labor force	3.4	3.3	3.3	3.0	2.8	2.8	2.9	2.8	
U-3	Unamployed persons 25 years and over as a percent of the civilian labor force	5.4	5.4	5.1	4.7	4,6	4.6	4.6	4.5	
U-4	Unamployed full-time jobseekers as a percent of the full-time civilian labor force	6.6	6.5	6.3	5.9	5.6	5.4	5.5	5.5	
U-6	Total unemployed as a percent of the labor force, Including the resident Armed Forces	6.8	6.8	6.6	6.1	5.9	5.8	5.9	5.8	
via	• Total unemployed as a percent of the civilian labor force	6.9	6.9	6.7	6.2	6.0	5.9	6.0	5.9	
U-6	Total full-time jobasekara plus 1/2 part-time jobasekara plus 1/2 total on part time for economic reasons as a percent of the civilian tabor force less 1/2 of the specifiem kalor force	. 9.3	9.2	9.0	8.4	8.2	8.0	8.2	8.2	
U-7	Total full-time jobasekars plus 1/2 part-time jobasekars plus 1/2 total on part time for economic reasons plus discouraged workers as a percent of the cublina labor force plus discouraged workers less 1/2 of the part-time labor force	10.2	10.2	10.0	9.3	9.0	NA.	NA.	N.A.	

N.A. - not available.

Table A-6. Selected un y adia

Category	l mettu (in	lumber of ployed per thousand	tions 6)	Unemployment rates'						
	Nov. 1986	Öct. 1967	Nov. 1967	Nov. 1986	July 1967	Aug. 1987	Sept. 1987	Oct. 1987	Nov. 1987	
CHARACTERISTIC										
Total 16 years and over	8 243	7 174	7 118		60	80	60	60	50	
Men. 15 years and over	4.574	3,693	3.646	6.9	6.0	60	5.7	5.9	5.8	
Men. 20 years and over	3,820	3,163	3 137	6.2	54	52	50	51	50	
Women, 16 years and over	3,669	3,261	3,270	6.9	6.1	6.0	61	6.1	6.0	
Women, 20 years and over	2,976	2,605	2.622	6.1	5.4	5.3	5.4	5.2	5.2	
Both sexes, 16 to 19 years	1,447	1,406	1,357	18.2	15.5	16.0	16.3	17.4	16.8	
Married men, spouse present	1,862	1,576	1,494	4.5	3.8	3.7	3.6	3.7	3.5	
Married women, spouse present	1,429	1,208	1,251	5.0	4.2	4.3	4.2	4.1	, 4.3	
Women who maintain families	650	610	573	9.7	9.4	9.0	8.8	9.0	8.4	
Full-time workers	6,673	5,718	5,680	6.6	5.7	5.6	5.4	5.5	¹ 5.5	
Part-time workers	1,538	1,465	1,407	9.1	7.9	8.2	8.5	8.5	8.1	
Labor force time lost'		-	-1	7.7	6.9	6.6	6.7	1 6.8	6.9	
INDUSTRY								:		
Nonagricultural private wage and salary workers	6,190	5,262	5,261	7.0	6.1	5.9	5.9	5.9	5.8	
Mining	136	77	57	14.5	7.8	8.9	. 7.0	8.5	6.3	
Construction	955	694	656	15.1	10.7	11.2	12.1	11.4	10.5	
Manufacturing	1,541	1,253	1,153	7.1	6.0	- 5.5	5.7	5.7	5.3	
Durable goods	860	669	608	6.6	6.1	5.5	5.6	5.2	4.8	
Nondurable goods	681	584	545	7.9	5.9	5.5	5.9	6.5	6.1	
Transportation and public utilities	272	267	274'	4,4	4.4	4.3	4.0	4.4	4,4	
Wholesale and retail trade	1,621	1,481	1,564	7.2	6.6	7.0	6.4	. 6.4	. 6.9	
Finance and service industries	1,665	1,490	1.557	5.4	5,1	4.6	4.9	4,7	4.8	
Government workers	611	581	630	3.6	3.4	3.9	3.4	3.3	3.5	
Agricultural wage and salary workers	· 177	209	206	10.1	11.3	10.8	8.3	10.9	11.5	

¹ Unemployment as a percent of the civilian labor force.
² Aggregute hours lost by the unemployed and persons on part time for

economic reasons as a percent of potentially available labor force hours.

Table A-7. Duration of unemployment

(Numbers in thousands)

Weeks of unemployment	Not sea	sonally ad	justed ·	Seasonally adjusted						
	Nov. 1986	Oct. 1987	Nov. 1987	Nov. 1986	July 1987	Aug. 1967	Sept. 1987 ;	Oct. 1987	Nov. 1987	
DURATION					•	ļ	ļ	,		
Less than 5 weeks	3,281	3,211	3,131	3,382	3,168	3,197	3,230	3,227	3,225	
5 to 14 weeks	2.597	2.032	2.039	2,613	2,141	2,170	1,932	2,121	2,043	
15 masks and over	1,994	1.602	1,633	2,217 .	1,907	1,884	1,920	1,759	1,810	
15 to 26 weeks	914	712	770	1,045	945 .	614	909 (799	874	
27 weeks and over	1,080	891	663	1,172	962	1,070	1,011	959	936	
Average (mean) duration, in weeks	15.0	13.7	14.0	14.8	14.0	14.3	14.2	14.0	13.8	
Median duration, in weeks	6.8	5.7	5.9	7.0	6.7	6.4	5.7	6.2	6.1	
PERCENT DISTRIBUTION								1		
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Less than 5 weeks	41.7	46.9	46.0	41.2	43.9	44,1	45.6	45,4	45.8	
5 to 14 weeks	33.0	29.7	30.0	31.8	29.7	29.0	27.3	29.8	28.9	
15 weeks and over	25.3	23.4	24.0	27.0	26.4	26.0	27.1	24,7	25.6	
15 to 26 weeks	11.6	10.4	11.3	12.7	13.1	11.2	12.8	11.2	12.4	
27 weeks and over	13.7	13.0	12.7	14.3	13.3	14.8	14.3	13.5	13.2	
15 to 28 weeks	11.6 13.7	10.4 13.0	11.3 12.7	12.7 14.3	13.1 13.3	11.2 14.8	12.8 14.3	11.2 13.5		

Table A-8. Reason for unemployment

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(Numbers in thousands)

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Ressone	Not sea	sonally a	justed	Sessonally adjusted						
Reasone .	Nov. 1986	Ocl. 1987	Nov. 1987	Nov. 1986	July 1967	Aug. 1987	Sept. 1987	Oci. 1987	Nov. 1967	
NUMBER OF UNEMPLOYED										
Job losers	3,773	3,082	3,171	3,947	3,522	3,339	3,321	3,447	3,334	
On layoff	986	768	825	1,073	918	850	810	956	693	
Other job losers	2,787	2,314	2,346	2,874	2,604	2,489	2,511	2,491	2,442	
Job leavers	1,090	1,030	950	1,056	1,007	1,006	995	956	910	
Reentrants	2,035	1,873	1,929	2,119	1,913	1,997	1,885	1,794	2,005	
New entrants	975	661	752	1,076	801	629	883	961	851	
PERCENT DISTRIBUTION										
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Job losers	47.0	45.0	48.6	48.1	48.6	46.6	46.9	48.2	47.0	
On layofi	12.5	11.2	12.1	13.1	12.7	11.9	11.4	13.4	12.6	
Other job losers	35.4	33.8	34.5	35.1	36.0	34.7	35.4	34.8	34.4	
Job leavers	13.8	15.0	14.0	12.9	13.9	14.0	14.0	13.4	12.8	
Reentrants	25.8	27.4	28.4	25.8	26.4	27.9	26.6	25.1	28.2	
New entrants	12.4	12.6	11.1	13.1	11.1	11.6	12.5	13.4	12.0	
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE			•							
Job icears	3.1	2.5	2.6	3.3	2.9	2.8	2.8	2.9	2.8	
Job leavers	9	.9		.9	.8	.8	.8	.8		
Reentrants	1.7	1.6	- 1.8	1.8	1.6	1.7	1.6	1.5	1.7	
New entrants	8	.7	.6	.9	.7	.7	.7	.8	.7	

HOUSEHOLD DATA

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Table A-B. Unemployed persons by sex and age, sessonally adjusted

Sex and age	unem (In	Number of ployed pe thousand	rsons · ls)	Unemployment rates'						
	Nov.	Oct.	Nov.	Nov.	July	Aug.	Sept.	Oct.	Nov.	
	1986	1967	1987	1966	1987	1987	1987	1987	1987	
Total: 16 years and over 16 to 24 years 16 to 17 years 16 to 17 years 16 to 17 years 20 to 24 years 20 to 24 years 20 to 24 years 20 to 24 years 25 years and over 25 years and over 25 years and over	8,243	7,174	7,116	6.9	6.0	6.0	5.9	6.0	5.9	
	3,005	2,681	2,684	12.9	11.7	11.6	11,7	11.8	11.7	
	1,447	1,406	1,357	16.2	15.5	16.0	16.3	17.4	16.8	
	686	734	662	20.6	17.1	18.0	17,4	20.9	19.7	
	768	672	703	16.7	13.9	14.7	15,4	14.8	14.9	
	1,558	1,275	1,307	10.2	9.8	9.1	9,3	8.7	8.9	
	5,230	4,499	4,439	5.5	4.7	4.7	4,6	4.6	4.5	
	4,630	4,016	3,694	5.8	5.0	5.0	4,7	4.9	4.7	
	571	478	508	3.8	3.1	3.2	3,4	3.2	3.3	
Men, 18 years and over	4,574	3,893	3,846	6.9	6.0	6.0	5.7	5.9	5.8	
	1,635	1,424	1,420	13.4	11.9	12.4	11.9	12.0	12.0	
	754	730	709	18.3	15.5	18.0	17.3	17.5	17.2	
	366	387	363	21.3	16.6	20.6	18.3	21.5	21.0	
	388	344	348	16.2	13.8	16.3	16.0	14.4	14.4	
	881	654	711	10.9	10.0	9.3	9.1	9.1	9.3	
	2,931	2,471	2,420	5.5	4.7	4.7	4.4	4.5	4.4	
	2,568	2,188	2,088	5.7	4.9	4.9	4.8	4.8	4.6	
	361	277	317	4.1	3.4	3.4	3.2	3.1	3.6	
Women, 16 years and over 16 to 24 years 16 to 17 years 16 to 17 years 16 to 19 years 20 to 24 years 20 to 24 years 25 to 54 years 25 to 54 years 55 years and over	3,669 1,370 693 320 677 2,299 2,062 210	3,281 1,257 676 347 328 581 2,028 1,829 201	3,270 1,244 648 299 355 596 2,019 1,806 190	6.9 12.4 18.2 19.8 17.2 9.4 5.5 5.8 3.4	6.1 11.6 15.4 17.7 14.0 9.5 4.7, 5.0 2.6	6.0 10.7 13.9 15.3 12.9 8.9 4.7 5.0 2.9	6.1 11.6 15.4 16.5 14.6 9.5 4.7 4.9 3.7	6.1 11.5 17.2 20.3 14.8 8.3 4.7 5.0 3.2	8.0 11.4 16.5 18.3 15.4 8.5 4.7 4.9 3.0	

* Unemployment as a percent of the civilian labor force.

Table A-10. Employment status of black and other workers

(Numbers in thousands)

Employment statue	Not se	sonally a	Spueted	Seasonally adjusted'						
	Nov. 1986	Oct. 1987	Nov. 1987	Nov. 1986	July 1987	Aug. 1987	Sept. 1987	Oct. 1987	Nov. 1987	
Cvilian noninstitutional population Cvilian labor force Participation rate Employment-population ratio' Unemployed Unemployed Not in labor force	25,385 16,169 63,7 14,195 55,9 1,973 12,2 9,216	25,969 16,809 64,7 15,017 57,8 1,793 10.7 9,159	26,021 16,882 64.9 15,112 58.1 1,771 10.5 9,139	25,385 16,192 63.8 14,137 55.7 2,055 12,7 9,193	25,826 16,632 64,4 14,750 57,1 1,882 11,3 9,194	25,868 16,705 64,6 14,812 57.3 1,893 11.3 9,163	25,919 16,566 63.9 14,774 57.0 1,792 10.8 9,353	25,969 16,775 64.6 14,964 57.6 1,810 10.8 9,194	26,021 16,929 65,1 15,075 57,9 1,854 11,0 9,092	

¹ The population figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unadjusted and seasonally adjusted columns.

² Civilian employment as a percent of the civilian noninstitutional population.

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Table A-11. Occupational status of the employed and unemployed, not seasonally adjusted

(Numbers in thousands)

	Civilian e	employed	Unemį	pioyed	Unemployment rate		
Occupation	Nov.	Nov.	Nov.	Nov.	Nov.	Nov.	
	1986	1987	1986	1987	1988	1987	
Total, 16 years and over'	110,751	113,809	7,872	6,802	6.6	5.6	
Managerial and professional specially	27,150	28,266	627	584	2.3	2.0	
Executive, administrative, and managerial	12,848	13,444	344	355	2.6	2.6	
Professional specially	14,302	14,822	283	229	1.9	1.5	
Technical, sales, and administrative support	34,920	35,461	1,847	4,518	4.5	4.1	
	3,376	3,346	104	84	3.0	2.5	
	13,621	13,577	640	633	4.5	4.5	
	17,922	18,538	903	801	4.8	4.1	
Service occupations Private household Protective service Service, except private household and protective	14,756	15,199	1,309	1,238	6.1	7.5	
	928	965	62	48	6.2	4.5	
	1,748	1,939	87	97	4.7	4.8	
	12,080	12,296	1,161	1,093	8.8	8.2	
Precision production, craft, and repair	13,582	13,712	956	750	6.6	5.2	
	4,350	4,455	219	163	4.8	3.5	
	5,011	5,108	483	398	8.8	7.2	
	4,221	4,148	253	189	5.7	4.4	
Operators, fabricators, and laborers	17,076	17,936	2,048	1,627	10.7	8.3	
Machine operators, assemblers, and inspectors	7,868	8,172	885	686	10.1	7.7	
Transportation and material moving occupations	4,687	4,867	361	293	7.1	5.7	
Handlers, equipment cleaners, helpers, and laborers	4,520	4,897	802	647	15.1	11.7	
Construction laborers	713	809	235	190	24.8	19.0	
Other handlers, equipment cleaners, helpers, and laborers	3,807	4,088	567	458	13.0	10.1	
Farming, forestry, and fishing	3,267	3,235	270	296	7.6	8.4	

Persons with no previous work experience and those whose last job was in the Armed Forces are included in the unemployed total.

Table A-12. Employment status of male Vietnam-era veterans and nonveterans by age, not sessonally adjusted

(Numbers in thousands)

Veteran status and age	Civi	Cart I	Civilian labor force									
	noninsti popul	tutional ation]			Unemployed					
			Total		Employed		Number		Percent of labor force		of .	
	Nov. 1986	Nov. 1987	Nov. 1986	Nov. 1987	Nov. 1986	Nov. 1987	Nov. 1986	Nov. 1987	Nov. 1986	1	Nov. 1987	
VIETNAM-ERA VETERANS								:		•		
Total, 30 years and over	7,785	7,861	7,289	7,257	6,980	6.918	309	339	4.2	1	4.7	
30 to 44 years	6,331	6,112	6,087	5,796	5,804	5,507	283 (289 '	4.6	÷	5.0	
30 to 34 years	1,065	832	1,020	790	948	716	72 1	74	7.1	:	9.4	
35 to 39 years	2,894	2,439	2,790	2,319	2,654	2,227	136 '	92 .	4.9	1	4.0	
40 to 44 years	2,372	2,841	2,277	2,687	2,202	2,564	75 1	123	3.3		4.6	
45 years and over	1,454	1,749	1,202	1,461	1,176	1,411	26	50 5	2.2		3.4	
NONVETERANS						;						
Total, 30 to 44 years	18,783	19,819	17,791	18,776	16,603	18.031	988	745	5.6		4.0	
30 to 34 years	8,638	8,949	8,212	8,513	7,758	8,134	456	379	5.6		4.5	
35 to 39 years	5,909 '	6,420	5,578	6.071	5,282	5,861	296	210	5.3		3.5	
40 to 44 years	4,236	4,450	4,001	4,192	3,765	4.036	236	156	5.9		3.7	

NOTE: Male Vietnam-era waterana are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterana are men who have never served in the Armed Forces, published data are limited to those 30 to 44 years of ege, the group that most closely corresponds to the bulk of the Vietnam-era veteran population. Data for 25 to 28-year-

old veterans are no longer shown in this table because the group is rapidly disppeaning (into the 30-34 age category) and the numbers remaining for some labor force categories are not large enough to warrant their continued publication.

Table A-13. Employment status of the civilian population for eleven large States

(Numbers in thousands)

	Not sea	sonally adj	justed'			Sessonally adjusted'				
State and employment status	Nov. 1986	Oci. 1987	Nov. 1987	Nov. 1985	July 1987	Aug. 1987	Sept. 1987	Oct. 1987	Nov. 1987	
California										
Civilian noninstitutional population	20,275	20,695	20,731	20,275	20,592	20,624	20,660	20,695	20,731	
Civilian labor force	13,545	13,835	13,918	13,540	13,819	13,775	13,823	13,601	13,928	
Employed	12,660	13,065	13,201	12,625	13,064	13,036	13,026	12,979	13,191	
Unemployment rate	6.5	5.6	5.1	6.8	5.5	5.4	5.8	6.0	5.3	
Florida							İ			
Civilian noninstitutional population	9,263	9,500	9.521	9,263	9,441	9,460	9,480	9,500	9.521	
Civilian labor force	5,706	5,962	5,929	5,724	5,899	5,851	5,868	5,961	5,946	
Employed	5,386	5,666	5,626	5,404	5,587	5,519	5,574	5,679	5,637	
Unemployed	320 5.6	296 5.0	303	320	312	332	294	282	309	
Illinois										
Civilian Ishor forma	5,631	5,600	5 703	5.640	6,06/	5,000	5,00/	6,066	6,090	
Employed	5,240	5.483	5.343	5,222	5,356	5,409	5,434	5,446	5.322	
Unemployed	391	368	361	418	422	410	370	382	391	
Unemployment rate	6.9	6.3	6.3	7.4	7.3	7.0	6.4	6.6	6.8	
Massachusette										
Civilian noninstitutional population	4,557	4,575	4,576	4,557	4,573	4,573	4,574	4,575	4,576	
Civilian tabor force	3,051	3,097	3,065	3,043	3,069	3,097	3,051	3,107	3,079	
Employed	2,940	3,014	3,013	2,922	2,993	3,005	2,975	3,007	2,997	
Unemployed	3.6	2.7	2.3	4.0	25	3.0	25	3.2	27	
Michigan								-		
Civilian noninstitutional population	6,882	6,944	6,949	6,882	6,931	6,934	6,939	6,944	6,949	
Employed	4,470	4,518	4,533	4,4/2	4,503	4,038	4,000	4,532	4,527	
Linempioyed	359	310	335	373	374	407	360	327	350	
Unemployment rate	8.0	6.9	7.4	6.3	8.3	8.8	7.8	7.2	7.7	
New Jersey										
Civilian noninstitutional population	5,942	5,999	6.003	5,942	5.987	5,990	5,994	5 999	6.003	
Civilian tabor force	3,887	3,952	3,962	3,914	3,930	3,986	3,916	3,965	3,985	
Employed	3,729	3,806	3,834	3,737	3,771	3,815	3,740	3,812	3,843	
Unemployed	158	144	129	45	159	171	176	153	142	
New York										
Civilian appinghistional population	13 742	13 786	13 798	13 742	12 792	19 701	12 784	13 784		
Civilian labor force	6,402	8.534	6,590	8.378	8.481	8.526	8,392	8.480	8.584	
Employed	7,953	8,118	8,167	7,895	8,106	8,145	8.012	8.057	8,134	
Unemployed	449	416	423	483	375	361	380	423	450	
Unemployment rate	5.3	4.9	4.9	5.8	4.4	4.5	4,5	5.0	5.2	
North Carolina										
Civilian noninstitutional population	4,785	4,861	4,867	4,785	4,843	4,848	4,854	4,861	4,867	
Employed	3,204	3,354	3,336	3,201	3,322	3,306	3,313	3,350	3,336	
Unemployed	174	129	134	172	151	141	131	132	131	
Unemployment rate	5.4	3.9	4.0	5.4	4.5	4.3	4.0	3.9	3.9	
Ohio										
Civilian noninstitutional population	8,112	8,138	8,140	8,112	8,136	8,136	8,137	8,138	8,140	
Cryster teor force	5,282	5,221	5,263	5.264	5,240	5,205	5,148	5,176	5,251	
Linempioyed	384	4,820	4,909	4,8/5	4,868	4,841	4,865	; 4,876	4,942	
Unemployment rate	7.3	5.8	5.8	7.4	7.1	7.0	263	5,8	: 309 59	
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HOUSEHOLD DATA

Table A-13. Employment status of the civilian population for eleven large States-Continued

(Numbers in thousands)

(Numbers in thousands)			•								
State and employment statue	Not sea	sonally adj	usted'	. Seasonally adjusted							
	Nov. 1985	Oct. 1987	Nov. 1987	Nov. 1988	July 1987	Aug. 1987	Sept. 1987	Oct. 1987	Nov. 1987		
Pennsylvania	ĺ										
Civilian noninstitutional population	9,250	9,288	9,291	9,250	9,283	9,283	9,288	9,288	9,291		
Civilian labor force	5,600	5,787	. 5,716	5,557	5,616	5.697	5,675	5,738	5,687		
Employed	5,266	5,480	5,417	5,212	5,295	5,383	5,359	5,400	5,372		
Unemployed	334	307	299	345	321	314	316	338	315		
Unemployment rate	6.0	5.3	5.2	6.2	5.7	5.5.	5.6	5.9	5.5		
Texas											
Civilian noninstitutional population	12,069	12,282	12,300	12,069	12,231	12,246	12,264	12,282	12,300		
Civilian labor force	8,276	8,409	8,569	8,301	8,458	8,546	8,401	8,390	8,573		
Employed	7,545	7,791	7,895	7,508	7,753	7,828	7,685	7,737	7,848		
Unemployed	731	618	674	793	703	718	716	653	725		
Unemployment rate	8.8	7.4	7.9	9.6	8.3	6.4	8.5	7.8	6.5		

¹ These are the official Bureau of Labor Statistics' estimates used in the administration of Federal fund allocation programs.
³ The population figures are not adjusted for seasonal variation; therefore,

identical numbers appear in the unadjusted and the seasonally adjusted columns.

HOUSEHOLD DATA

ESTABLISHMENT DATA

Table B-1. Employees on nonagricultural payrolls by industry

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(in (hoyeanda)											
tudayby	Not sessenably adjusted			Becconstly adjucted							
	Nov. 1986	Sapt. 1987	0et. 1987#	987#	Nov. 1986	July 1987	Aug. 1987	Sept. 1987	Net. 1987p	407. 1987P	
Tetel	101,234	102,953	103,773	104.093	140,415	142,124	102,275	102.434	102,470	103,244	
Total private	\$4,000	86,181	86,361	86,503	83,515	85,106	\$5,229	\$5,386	85,766	85,998	
Geole-producing	24,828	25,411	15,429	25,150	24,630	24,850	24.886	24,917	25,033	25,152	
Mining	736 416.3	760 435.9	766 443,4	764 443.1	730 412	744 430	751	759 439	764 443	760 440	
Construction	5.078 1,322.0	5,303 1,321.6	3,311 1,329.0	5,210 1,316,2	4,946 1,249	5.002 1.261	5,004 1,242	4.989 1.240	3.044 1,273	5,078 1,283	
Neutoclaring Production workers	19,014	13:241	19,352 13,231	19,342 13,255	18,954 12,879	19.104 13.020	19,129	10,169 13,072	19,245 13,129	19,314 13,193	
Durable goods Production workers	11.204 7,415	3,33	11,361	11.391 7,599	11,174 7,385	11.193 7,425	13,249	11,268 7,494	11.320 7,530	11,356 7,568	
Lambar and soci predicts Functions and titrums Exone, cisy, and piese products Exone, cisy, and piese products Exone and transme. Biest furnaces and basis table products Febricasis metal products Machinery, except descripted Exonical and descripted Exonical and descripted Transportation equipment Mador whiles and equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment Indication equipment	722.7 504.2 584.3 727.5 255.9 1,426.3 2,013.0 2,123.3 2,032.9 864.9 679.8 368.1	741.4 521.8 595.7 763.0 281.6 1,440.0 2,030.5 2,104.4 2,026.5 844.3 495.0 378.0	754.3 327.8 594.4 762.3 281.6 1.447.4 2.038.2 2.114.2 3.023.6 841.2 696.1 303.0	744.3 531.8 . 590.4 . 263.9 1.454.2 2.066.1 2.118.9 2.032.1 . 645.5 700.4 383.3	723 499 582 733 260 1,419 2,015 2,119 2,023 2,023 7,00 361	740 518 582 750 277 1,424 2,033 2,088 1,995 814 695 370	736 518 582 754 278 1,425 2,044 2,045 2,045 2,028 848 695 371	740 520 581 764 283 1,429 2,053 2,096 2,018 837 695 372	741 524 583 769 286 1,439 2,042 2,110 2,021 839 697 374	744 526 586 773 288 1,447 2,070 2,115 2,020 839 700 375	
Nondurable goods	7.810	8,010 3,686	7,991 5,662	7,991 3,436	7,780 3,494	7,809 5,593	7,641 5,563	7,901 5,578	7.923 5,599	7,958 5,625	
Food and kindled products Tablector meansfactures Tablector meansfactures Appears and other issuits products Paper and alled products Patricing and patidahing Chemicals and alled products Petroloum and Coal products Robber and relocationmous plastics products Leather and relocationmous plastics products	1,641.4 60.3 716.4 1,106.8 678.8 1,477.7 1,017.1 164.3 796.7 149.8	1,717.4 59.8 740.7 1,123.1 482.1 3,504.6 1,033.1 146.8 826.4 154.0	1,678.3 59.0 760.0 1,132.0 680.3 1,513.0 1,032.0 166.6 834.3 - 155.1	L,653.0 38.3 742,6 1,132.5 682,1 1,527.6 1,034.2 165,8 839.3 155,2	1,627 59 714 1,101 676 1,672 1,672 1,672 1,670 165 797 - 147	1,644 57 736 1,130 678 1,504 1,026 164 815 155	1,632 56 732 1,110 677 1,508 1,031 164 819 152	1,631 55 735 1,117 681 1,509 1,031 166 824 152	1,634 55 736 1,122 679 1,513 1,033 167 823 153	1,638 57 740 1,127 681 1,522 1,036 166 839 152	
Barrice predualing	76,406	,77,544	70,346	78,797	73,785	77,276	77,389	77,517	77,917	78,092	
Transportation and public utilities	5,305 3,099 2,206	5,466 3,231 2,235	5,477 3,245 2,232	5,485 3,248 2,237	5,278 3,071 2,207	5,363 3,133 2,230	5,377 3,147 2,230	3,416 3,163 2,233	5,428 3,194 2,234	3,455 3,216 2,239	
Wheteools trade Durable goods Nondurable goods	5,743 3,384 2,361	\$.837 3.434 2,403	5,865 3,453 2,412	5,874 3,464 2,410	5,728 3,360 2,348	5,797 3,418 2,379	5,807 3,422 2,385	5,813 3,431 2,384	5,834 3,446 2,388	5,857 3,461 2,396	
Retail trade General merchanolise stores Food stores Automotive dealers and service stations Eating and dripking pieces	18.273 2.536.5 2.941.9 1.939.3 5.873.4	18,406 2,378.3 2,961.0 1,999.6 6,186.3	18,451 2,471.6 2,960,5 2,000,7 6,037,9	18,652 2,579.0 3,008.0 1,999.8 3,989.6	18,009 2,370 2,906 1,963 5,927	18,274 2,407 2,959 1,985 5,985	18,236 2,411 2,962 1,985 5,992	18,314 2,415 2,958 1,988 6,018	18.396 2.432 2.969 1.999 6.032	18,376 2,417 2,972 2,004 6,044	
Finance, insurance, and real solate Finance Insurance Resi estate	6,397 3,204 1,988 1,205	6,645 3,289 2,052 1,304	6,630 3,286 2,059 1,285	4,635 3,292 2,062 1,281	6,418 3,212 1,990 1,216	6,608 3,291 2,043 1,274	6,624 3,293 2,050 1,281	6,629 3,292 2,054 1,283	6,644 3,296 2,063 1,283	6,659 3,302 2,064 1,293	
Services Business services Health services	23,452 4,915.8 6,653.0	24,416 3,198,2 6,949,9	24,509 5,244.6 6,987.0	24,499 5,252,7 7,027.1	23,452 4,877 6,461	24,214 5,105 6,887	24,279 5,133 6,923	24.295 5,152 6,943	24,411 5,195 6,987	24,499 5,211 7,034	
Oovernment	17,234 2,479 4,030 10,325	16,774 2,941 3,886 9,947	17,412 2,940 4,064 10,408	17,592 1,945 4,108 10,539	16,900 3,900 3,915 10,083	17,020 2,936 3,932 10,132	17,046 2,940 3,944 10,142	17,048 2,962 3,957 10,129	17,204 2,961 3,969 10,274	17,244 2,966 3,988 10,292	

p = pretiminery.

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ESTABLISHMENT DATA

ESTABLISHMENT DATA

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Table 8-2. Average weekly hours of production or nonsupervisory workers' on private nonagricultural payrolis by industry

Industry		Net seson	elly adjusta	•	Bessensity adjusted						
	Mov. 1986	Sept. 1987	Oct. 1987 P	Nav. 1987 P	Nov. 1986	July 1987	Aug. 1987	Sept.	Oct. 1987 P	Nov. 1987 P	
Total private	36.7	34.7	34.9	34.4	34.4	34.8	34.9	34.6	34.9	34.9	
Mining	41.4	42.1	42.7	42.3	(1)	- (2)	(2)	(2)	(2)	(2)	
Construction	36.5	36.4	38.8	37.0	- 00	(2)	(2)	(2)	(2)	(2)	
Manufacturing Overtime hours	41.0 3.4	40.8 3.9	41.3 4.1	*1.* *.1	40.8 3.5	41.0 3.4	41.0 3.8	40.6 3.6	41.3	41.2 3.9	
Durable goods	41.6 3.7	41.1 3.9	41.8 4.2	41:3	41.4 3.5	41.6 3.8	41.6 4.0	41.9	41.7 4.1	41.8 4.0	
Lumbe and mod products Function and foltunas Etona, clay, and glass products Prinary metal products Blass turna ces and basic steel products Plancist and the discrete products Electrical and sectored products Electrical and sectored products Electrical and related products Electrical and related products Electrical and related products Electrical and related products Electrical and related products Electrical and related products Electrical and related products Electrical and related products Electrical and related products Electrical and related products Electrical and folded products Food and kindred products Products Products Electrical ending products Program and claip products Proteins Electrical end selectrical Electrical end selectrical Electrical Electrical end selectrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical Electrical	40.4 40.2 41.8 42.4 42.4 42.4 42.4 42.4 42.4 42.4 42	39.9 39.8 42.5 43.4 45.1 40.5 40.5 41.1 41.6 39.0 40.4 40.4 40.4 40.8 38.9 41.7 34.3 41.7 34.3 34.3 45.8 41.7 34.1 35.5 42.8 43.4 41.4 35.5 42.8 43.4 41.7 35.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5 4	40.6 40.7 42.4 43.5 43.5 42.0 42.0 42.0 42.3 42.4 41.6 40.0 40.6 - 3.9 40.6 - 3.9 40.6 33.6 33.6 33.6 33.6 33.6 33.6 33.6 3	40.1 40.2 42.3 43.9 44.0 42.2 42.9 42.5 43.9 40.5 43.9 40.5 41.1 42.3 40.5 41.1 42.3 43.8 3.8 42.8 42.8 42.8 42.8 42.8 42.8 42.8 42	40.8 39.9 41.9 42.4 42.5 41.4 41.7 41.0 42.2 42.4 42.1 (2) 40.0 3.5 5 40.0 (2) 41.4 436.9 43.2 38.0 42.3 47.3 42.3 42.3 42.3	40.6 40.0 42.4 43.4 44.14 42.4 41.7 41.9 41.6 (2) 40.3 37.3 47.3 47.3 47.3 47.4 47.4 47.4 41.9 41.4 (2) 42.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 43.4 4	40.4 40.1 42.1 43.5 44.0 41.9 41.9 41.9 41.9 41.9 41.9 41.7 (2) 40.3 9.7 40.3 (2) 42.4 43.4 43.4 43.4 43.4 42.4 43.5 (2) (2)	39.4 39.9 43.4 43.4 43.4 40.4 40.4 40.4 40.4 40.4	40.4 40.1 42.5 43.8 44.3 42.6 41.0 42.5 42.6 41.9 (2) 40.5 3.8 40.5 (2) 40.5 3.8 40.5 (2) 53.5 43.6 40.5 (2) 53.5 43.6 42.7 43.6 42.7 43.6 42.7 43.6 42.7 43.6 42.7 43.6 42.7 43.6 42.7 43.6 42.7 43.6 42.7 43.6 42.7 43.6 42.7 43.6 42.7 43.6 42.7 43.6 43.7 42.7 43.7 43.6 43.7 42.6 43.7 43.7 43.7 43.7 43.7 43.7 43.7 43.7	40.5 39.8 42.4 43.6 44.1 42.0 42.7 42.3 43.5 (2) 40.4 3.8 40.3 (2) 41.5 (2) 40.4 3.7 2 43.6 3.7.2 43.6 42.7 43.6 (2) 41.9 (2) 41.9 (2) 41.9 (2) 42.9 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) 43.6 (2) (2) 43.6 (2) (2) (2) (2)	
Transportation and public stilltion	39.3	39.2	39.3	39.3	39.2	39.2	39.3	39.1	39. 3	39.2	
Wholesale trade	38.4	38.1	38.4	38.3	38.3	38.1	- 38.3	38.0	38.4	34.3	
Retail trade	29.0	29.6	29.2	29.1	29.2	29.3	29.6	29.6	29.3	29.3	
Finance, insurance, and real estate	36.5	36.0	36.2	36.3	(2)	(2)	(2)	(2)	(2)	(2)	
Berrices	32.4	32.4	32.5	32.6	32.5	32.5	32.5	32.5	32.3	32.7	

¹ Data relate to production workers in mining and manufacturing; to construction workers in construction; and to nonsupervisory workers in transportation and public utilities; wholesale and result trade; finance, insurance, and real estate; and services These groups account for sporximately four-fitths of the total employees on private nonsprinctfuel pervols. ³ This series is not published seasonally adjusted since the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.
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Table B-3. Average hourly and weekly earnings of production or nonsupervisory workers' on private nonagricultural peyrolls by industry

		Arenge he	why cornings	•	Arenego westly carulage				
	Hev. 1986	1987	0ct . 1947 p	1947 p	407. 1986	Sept. 1987	0et. 1987 s	Nov. 1987	•
Total private	\$8.88	19.06	\$9.09	\$9.14	\$308.14	\$314.38	6317.24	\$318.07	-
Mining	12.57	12.43	12.16	12.48	\$20.40	523.30	527.77	527.90	,
Construction	12.66	12.77	12.79	12.79	462.09	464.83	496.25	473.23	,
Membership	4.78	10.00	9.95	10.93	400.98	408.00	410.94	414.41	
Durable goods	10.33	10.53	10.51	10.57	429.73	432.78	439.32	442.88	1
Furniture and fictures	7.55	7.75	7.72	7.74	303.51	308.45	314.20	311.15	
Stone, city, and gloss products	10.14	10.40	10.33	10.35	423.85	442.00	443.16	437.81	
Primary motal industries	11.80	12.24	12.05	12.08	\$00.32	531.22	524.18	\$30.31	
Entering and party and produces	13.65	14.17	13.97	13.45	5×0.03	639.07	617.49	613.40	1
Mathiany aniant district		10.04	10.45	10.91	444.98	449.70	440.04	448.04	1
Electrical and electronic equipment	9.73	9.98	9.94	9.98	402.82	404.19	407.54	413.17	
Transportation equipment	12.88	13.07	13.10	13.14	\$46.11	538.48	554.13	\$60.15	
 Motor vehicles and equipment 	13.44	13.69	13.75	13.63	568.51	562.66	-585,75	594.69	,
Instruments and related products	9.63	9.80	9,81 7,75	9,68	398.68	402.78	408.10	412.98	i.
Manda									
Read and kinded products	1.02	9.28	2.12		303.51	3/4.91	3/2./1	373.14	
Tobacco manufacturas	1.1.13	12.14	12.75	13.54	.481.44	501.47	320.20	354.40	
Textile mill products	7.05	7.23	7.24	7.32	294.49	301.49	305.53	309.64	
Apparel and other textile products	5.87	6.01	5.98	6.00	218.36	218.16	224.85	225.00	÷ .
Paper and allied products	11.27	11.67	11.45	11.44	489.12	\$14.65	499,22	501.07	1
Printing and publishing	10.11	10.46	10.43	10.44	387.21	403.48	398.43	399.65	۶.
Chemicals and Amed Broducts	12-17	12.56	12.53	12.54	516.01	537.57	531.27	538.42	£1.
Percent and color products	14.32	14.71	14.64	14.73	630.08			634.25	1
Leather and leather products	5.98	6.09	6.08	6.11	221.86	229.59	233.30	236.44	í.
Trusportation and public utilities	11.90	12.03	12.01	12.12	467.67	471.50	471.99	476.33	
Whelevale kude	4.47	9.67	9.67	9.75	363.65	368.43	371.33	373.43	
Retail todo	6.08	6.20	6.15	6.18	176.32	183.52	179.58	179.84	
Finance, insustance, and real opicie	8.57	8.74	8.80	8.94.	\$12.01	316.44	318.56	324.52	1
Services	4.33	8.55	8.61	8.71	269.49	277.02	279.43	283.95	•
* Sice footmote 1, table S-2, p = preliminary.	•	NOTE: Pr	aliminary dar d in this table	nings data for of the October	labricated m	stal products a arraneous i	for Oxplamba (as were total	v and Octob	er,

NOTE: Preliminary seminas data for libricated metal products for September and October, as published in this table of the October release, were enteneous (as were totals importantly these data).

Table B-4. Hourly Earnings Index for production or nor my workers' on private nonagricultural payrolis by industry (1977 = 100)

	Not researchly adjusted				Bearing adjusted							
Industry	¥av. 1986	Sept. 1987	Oct. 1987p	Nov. 1987p	Percent shange Numt; Tov. 1986- Rov. 1987	Nov. 1986	July 1987	405. 1957	Sept. 1987	Oct. 1987p	Nov. 19879	Persent change built 0ct. 1987- 847. 1987
Total private neofane: Correct dellare Constant (1957) dellare Nithing Constant (1957) dellare Nithing Constanting Transportation and Nithing trade Patente, Insurance, and	171.3 93.6 182.6 154.2 173.0 174.1 174.8 159.3	175.0 93.7 183.0 155.9 176.3 176.4 178.5 163.7	174.8 93.3 182.5 156.2 175.7 176.3 178.5 161.7	175.0 #.A. 184.1 156.0 176.5 177.7 179.8 162.2	2.6 (2) .9 1.1 2.0 2.1 2.9 1.9	171.2 93.3 (4) 154.7 173.2 172.9 (4) 159.3	-173.2 93.7 (4) 154.3 174.7 174.4 (4) 160.9	174.1 93.7 (4) 154.7 175.5 176.0 (4) 161.5	174.6 93.8 (4) 134.0 176.7 175.7 (4) 162.7	174.8 93.6 (4) 154.7 176.3 175.9 (4) 162.0	173.7 W.A. (4) 156.4 176.4 176.5 (4) 162.2	0.5 (3) (4) 1.1 .2 .3 (4) .1
real aniala Barriana	184.0	188.9	189.3	192.0	4.3	(4) 177.1	(4) 149,5	(4) 182.4	(4) 1#2.3	(4) 183.A	(4) 183,2	(4)

1 See features 1, table B-2, 2 Charge is -1.6 percent from October 1986 to October 1987, the latest month available. 3 Charge is -1.9 percent from September 1987 to October 1987, the latest wonth available. 4 These series are not searcoully adjusted size the searcoul component is small relative to the trend-cycle and/or irregular components and consequently causet be separated with sufficient precision. P = preliberry.

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. Table 8-5. Indexes of aggregate weekly hours of production or nonsupervisory workers' on private nonagricultural payrolls by industry

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(1977.= 100)										
	Not secondly adjusted Baseonally adjuste				adjusted	ind				
mass try	Nev. 1986	4ept. 1987	Oct. 1987 P	Nov. 1927 P	Nov. 1986	July 1987	Aug. 1987	Sept. 1987	net. 1487 P	Nov. 1987 P
Total	118.4	121.9	122.9	127.7	118.2	120.6	121.2	120.4	121.9	122.2
Geeds-producing	98.7	101.1	103.5	102.2	97.8	99.5	99.7	\$7.7	101.2	101.3
Mining	80.4	#6.O	88.4	87.3	79.5	85.0	A5.2	84.9	87.9	86.1
Construction	132.5	138.0	147.3	137.0	131.1	133.2	133.6	124.9	136.4	135.0
Nanofacturing	•>.1	94.7	95.8	96.2	92.2	93.6	93.8	.93.1	95.0	95.3
Durable peods Lunke and exood products Funkture and truttes Store, Cieys, and place products Printary metal industries Basi furnes and basis teel products Basi furnes and basis teel products Exercical and exectonic equipment Transportation equipment Industry include and equipment Instruments and related products Mitodilaneous manufacturing Hendrustries goods Focd and United products Totalse mill products Append and other tertile products Append and other tertile products Append and other tertile products	90.5 99.8 108.8 66.0 60.5 84.2 89.5 84.3 102.4 99.1 87.8 103.1 87.8 103.1 83.4 99.1 100.4 100.4 82.4 81.3 85.4 100.6	91.1 103.7 111.7 89.4 85.5 55.9 55.9 55.9 55.9 55.9 55.9 55.9	92,9 104.3 115.6 90.1 92.0 88.4 102.2 92.0 86.4 103.6 86.4 103.6 104.4 104.4 104.4 104.4 104.3	93.6 101.5 113.0 88.3 93.1 90.4 103.7 98.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 87.6 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 100.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 105.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2 100.2	89.8 100.9 106.3 85.5 60.9 47.1 88.5 84.1 101.1 97.9 87.0 102.1 80.2 95.8 98.7 76.7 80.1 85.2 100.1	90.6 102.4 111.6 86.1 52.6 87.0 87.0 100.6 94.3 81.5 103.0 98.1 98.1 98.1 98.1 88.2 73.1 84.8 88.2 100.8	91.2 101.2 111.2 53.0 53.0 87.4 87.4 100.8 97.4 86.1 103.0 82.3 97.7 71.0 83.7 83.7 83.7 83.7	90.1 99.2 109.2 85.9 65.9 55.2 86.7 95.2 88.2 83.3 102.1 80.7 97.4 97.4 82.4 82.4 82.4 82.4 81.01.9	42.5 101.9 113.0 87.5 67.0 55.1 91.3 89.3 101.7 97.8 86.7 104.6 88.7 104.6 98.7 100.3 73.0 83.7 100.3 101.3	92.8 102.6 112.7 87.7 67.6 55.1 92.1 90.1 102.2 97.0 87.0 88.9 104.4 81.9 98.9 100.3 77.5 87.6 101.9
Chemicals and allied products Perroleum and coal products Rubber and miscellaneous plexitics products Lealther and kether products	130.7 93.4 82.4 113.2 56.7	96.7 86.0 116.0 60.3	93.3 85.1 119.0 62.3	96.8 43.1 120.5 62.3	127.1 93.4 82.0 112.4 55.3	94.5 84.7 115.0 62.2	95.5 83.4 115.5 61.4	96.4 83.2 115.5 60.0	96.5 83.5 118.7 61.6	96.8 82.4 119.8 60.8
Service producing	129.9	133.5	133.6	134.1	129.6	132.3	133.1	132.9	133.3	133.8
Interportation and pound admined	108.0	111.1	111.4	112.0	107.0	109.0	109.7	109.9	110.8	111.0
Retail trade	120.3	123.0	121.7	122.4	111.2	121.2	122.4	122.5	121.8	121.4
Finance, instrunce, and real estate	139.6	141.9	141.4	142.4	140.3	142.0	143.0	141.4	142.2	143.1
Services	147.7	153.2	154.3	154.4	147.9	152.5	152.9	152.9	153.5	155.0

e footnote 1, table 8-2.

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Table 8-6. Indexes of diffusion: Percent of industries in which employment' increased

Time span	Year -	Jan,	Feb.	Mar.	Apr.	Hay	June	July	Aug.	Sept.	OeL.	Nov.	Dec.
Ower .	1985	55.9	47.0	52.4	47.3	53.2	46.8	53.8	53.8	47.8	53.2	54.3	57.3
1-month span	1986	53.2 53.5	48.1 56.8	48.1	53.5 58.4	52.4 58.6	46.8	52.4 68.6	56.2 54.6	\$5.1 \$5.4	53.2 966.8	.69.2	59.7
Over	1965	9.1	48.4	42.4	46.5	44.3	49.7	47.0	48.6	45.9	47.6	55.1	56.5
3month	1986	49.7	44.9	45.7	48.4	47.6	45.4	48.4	55.1	55.9	58.1	58.6	\$0.3
span	1987	58.6	59.5	61.1	61.6	61.4	67.3	66.2	75.1	p69.5	p76.5		
0		46.3	46.5	43.2	44.3	44.3	45.1	43.0	44.3	49.2	49.2	47.3	45.9
6-month	1984	47.6	47.6	43.0	43.2	45.4	48.4	47.3	\$1.0	59.2	58.9	57.8	58.9
span	1987	61.9	62.7	58.9	67.3	67.6	71.1	p75.1	p78.9				
~			44.1	41.8	40.8	41.6	41.6	42.2	42.4	43.8	44.3	44.1	. 42.4
12-month	1486	41.5	44.1	46.2	45.7	47.4	49.5	49.5	51.6	54.9	52.2	55.1	56.5
3040	1987	62.2	63.5	67.3	p69.2	\$71.9					1	L	

asonally adjusted for 1, 3, and 6 month spans, on peyrolis of 185-ies. Data for the 12-month span are unadjusted. private

NOTE: Figures are the percent of industries with employment rising. Half of the un-changed components are counted as rising.) Data are centered within the spans.

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Senator SARBANES. Well, thank you very much, Commissioner.

The first thing I want to do is to turn to the chart that you provided us today on the comparison of unemployment measures, job losers and insured unemployed. It's the one that is in color.

Mrs. Norwood. Yes, I have it.

Senator SARBANES. Now the first comment I want to make is I think it's the first chart we've received from the BLS in color [laughter] and, if so, I want to commend and compliment you for it because ordinarily you have to puzzle out which line is solid and which one is dotted and which one is double dotted, so to speak.

So this is a great advance and it makes it easier to read the chart. So we thank you for it, and we want to acknowledge and recognize this significant advance at the Bureau this morning. [Laughter.]

Mrs. Norwood. Thank you very much, Mr. Chairman. We'll try to see to it that you get charts in color in the future.

Senator SARBANES. The thing that strikes me is the gap that has developed between the red line, job losers, and the blue, insured unemployed, over the years.

As we moved through the 1970's, they coincided or were very close, and I take it what this growing gap since then reflects is that more and more people who lost their jobs are not receiving unemployment benefits. Is that correct?

Mrs. Norwood. That's right.

Senator SARBANES. What is the explanation for that, the contraction in the coverage of the unemployment insurance program? Of course, the green line has dropped completely off the chart because there is no longer the extended insured program.

Mrs. Norwood. The changes here in these relationships are really somewhat puzzling. It's quite clear if you look at that chart that during recessions there is somewhat of a shift related to the recession as people lose jobs, and then in a recovery period, such as in the 1970's, you can see that the lines move very close together.

What seems to be very different is the period of this current expansion, and I suppose there were greater differences also during the 1981 and 1982 period as well. That you can see from the chart. Now why is that the case?

There are several reasons that have been advanced, and I'm not sure that we can really pinpoint the exact ones. But clearly there have been changes in the legislation making it somewhat more restrictive in application.

There have been changes in the State administration of laws, and each of those laws is somewhat different, but many of the States have tightened up on their eligibility requirements, particularly in the administration of the providing of the benefits. So there have been changes I think in the tightening of the law.

In addition, we have had very large increases in the labor force. So we have a lot of people coming into the labor force who have not worked long enough to earn eligibility. You have to work for a while to get eligibility. So there are more people who don't have that eligibility.

Then, we had from 1980 through 1982 back-to-back recessions. Some people who lost their jobs in 1980, for example, may have gone back for a little while but didn't work long enough to gain coverage or remain covered.

So there are many reasons for it, but it's quite clear to me that the relationships have shifted completely.

Senator SARBANES. Well, now I remember in a previous hearing we pursued the point of what constitutes being employed for the purposes of your survey, and my recollection was—well let me simply ask the question. What does constitute being employed for the purpose of your surveys?

Mrs. Norwood. To be employed for purposes of our survey, apart from unpaid family members, you just have to have worked during the survey week.

Senator SARBANES. Worked how much?

Mrs. NORWOOD. There is no limitation on the number of hours. Senator SARBANES. So if you worked a couple of hours you're considered employed.

Mrs. Norwood. Yes, you're counted as employed; that's right.

Senator SARBANES. That was my recollection.

Now if you were surveyed later and not working, you would be a job loser, but you would not have qualified for unemployment insurance because at the time you were working you weren't working sufficient hours. Would that be correct?

Mrs. Norwood. That might be. It depends on the past history of the worker.

Senator SARBANES. Do we have any comparisons of whether the internal composition of a 6-percent unemployment rate today is comparable to that composition 10 or 15 years ago?

The point I'm trying to get at is that 10 or 15 years ago if you had a 6-percent unemployment rate, and you then look at the 94 percent that are employed and therefore not contributing to the rate, that a larger portion of them would be holding full-time jobs, whereas today you have more of the people that are in the employed category and therefore not counted as unemployed are in part-time jobs and are not working a full 40-hour week. So that while you have the same unemployment rate today, it does not reflect the same employment reality in the economy.

Mrs. Norwood. Well, I think that's true. We now have 14.5 million people in this country who are working part time on a voluntary basis; that is, that's what they want to do, but we still have 5.6 million people who are working part time but are looking for fulltime jobs. You did not have such large numbers in the 1960's and the 1970's.

Senator SARBANES. By large numbers, you mean percentagewise?

Mrs. NORWOOD. Yes, I believe that's true. We could check that out. It is more.

Senator SARBANES. If you could give us a memo on that, that would be very helpful. We obviously look at these overall figures, but at some point we have to probe behind them to see what kind of employment reality they are reflecting.

Mrs. NORWOOD. I would be glad to.

[The following information was subsequently supplied for the record:]

U. S. Department of Labor

Commissioner for Bureau of Labor Statistics Washington, D.C. 20212



JAN 1988

Honorable Paul Sarbanes United States Senate Washington, D.C. 20510

Dear Senator Sarbanes:

This is a follow-up to my appearance at the Joint Economic Committee hearing on December 4, where I promised to provide some additional information on the recent trends in the incidence of involuntary part-time work and the inflation/unemployment relationship at the subnational level.

The number of workers on involuntary part time -- those whose hours have been cut back and those who, although preferring full-time work, had to settle for a part-time job -- has remained relatively high for more than two years. After declining from a post-recessionary peak of 6.8 million reached in January 1983, the number of such workers has fluctuated around 5.5 million since the middle of 1985. Of course, with total employment having risen rapidly during this period, the <u>proportion</u> of workers on involuntary part time -- also referred to as part time for economic reasons -- has still been declining. However, the decline in this measure has not been nearly as sharp as the decline in the jobless rate.

Our examination of the data on this topic shows that young people, women, and blacks are disproportionately represented

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among the workers on involuntary part time. This is clearly indicated by the following tabulation, which is based on data for 1986.

Group's percentage of:

	Persons at work	Involuntary part- time workers
Persons 16 to		
24 years of age	18.8	32.7
Persons 25 years		
and over	81.2	67.3
Men	55.2	44.9
Womon	44 9	55 1
women		55.1
White	87.1	80.8
Black	10.0	16.3

The industries with the largest share of their workers on part time for economic reasons in 1986 were retail trade (9.5 percent), construction (6.9 percent), and the services industries (5.2 percent). Together, these three industries accounted for about 74 percent of the nonagricultural workers on involuntary part time.

As with most labor market phenomena, there is no simple explanation for the stubbornly high level of involuntary part-time employment. One probable factor is the relatively greater employment growth in retail trade and certain service industries which hire only part-time workers for some jobs. However, it should also be noted that nearly one-third of the persons on part time for economic reasons work 30 hours or more, which is nearly full time.

As for the relationship between inflation and unemployment across regions of the country, we have enclosed a table that shows unemployment and inflation data for each of the four major geographic regions of the country for the 1981-87 period. The data are the annual average civilian unemployment rates and the percent changes in the Consumer Price Index for All Urban Consumers over the twelve-month period ending with December of each year (November in the case of 1987). While the 1987 data show that the region with the lowest unemployment rate (the Northeast) also has the highest inflation rate, the converse is <u>not</u> true. The region with the lowest inflation rate (the West) does not Honorable Paul Sarbanes--3

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have the highest unemployment rate; in fact, it has the third highest unemployment rate. Charts that plot the regional inflation and unemployment rates for each year are also enclosed. There appears to be no historically consistent correlation between these indicators.

I hope this information has been helpful to you. If you have any further questions please let me know.

Sincerely yours,

£ part

JANET L. NORWOOD Commissioner

Enclosures

	Region							
Year and Indicator	Northeast	North Central	South	West				
1981								
Unemployment rate CPI-U	7.4 9.0	8.6 7.1	7.0 10.0	7.4 9.8				
1982								
Unemployment rate	9.0	11.1	8.9	9.9				
CPI-U	4.0	6.3	3.7	1.3				
1983								
Unemployment rate	8.7	10.8	9.3	9.5				
CP1-0	4.0	3.4	3.0	4.2				
1984								
Unemployment rate	6.8	8.4	7.2	7.6				
CP1-0	4.2	3.2	4.0	4.5				
1985								
Unemployment rate	6.2	8.0	7.2	7.3				
CP1-0	4.4	3.3	3,2	4.1				
1986								
Unemployment rate	5.6	7.3	7.6	7.1				
CP1-0	1./	.0	.9	1.4				
1987*								
Unemployment rate	4.5	6.7	6.9	6.4				
LP1-0	5.3	4.5	4.2	4.2				

Annual Average Civilian Unemployment Rates and Percent Changes in All Items Consumer Price Index for All Urban Consumers (CPI-U) for the 12 Months Ending in December, by Region, 1981-1987

*12 Months ending November 1987 Source: Bureau of Labor Statistics December 1987











Consumer Price Index and the Unemployment Rate, by Region, 1983



Consumer Price Index and the Unemployment Rate, by Region, 1984

Consumer Price Index and the Unemployment Rate, by Region, 1985









Senator SARBANES. In the tables you've given us this morning, there seems to be a shift in the economic growth regionally in the country, and in fact the fastest growing regions, which previously were New England, the East Coast and the West Coast, now have been displaced by the East South Central and West South Central regions, if I read the tables correctly. Is that right? Would that be correct?

Mrs. NORWOOD. I believe you have some charts attached to that. Senator SARBANES. Yes.

Mrs. NORWOOD. If you look at those charts, I think the interesting thing there is especially the North Central region, which we know has had difficulties for a long time.

Senator SARBANES. By a chart, do you mean this table? Mrs. Norwood. Behind that isn't there a chart?

Senator SARBANES. Yes.

Mrs. NORWOOD. There is one on employment and one on unemployment. If you look at the employment, you'll see that the West North Central hasn't done very well. It also has not done very well in terms of the drop in unemployment, and that's, of course, the part of the country that involves the Dakotas, Kansas, Minnesota, Nebraska, Missouri, and Iowa.

So we are now seeing some changes in the middle part of the country that weren't showing up as much in the data before. I think there is quite a difference here from what I've seen in the past. That is one of the things that is interesting.

Senator SARBANES. Well, the East North Central has not done that well either, has it, in employment?

Mrs. Norwood. No.

Senator SARBANES. And yet in your statement you make the point about an improvement in manufacturing jobs, where you say, "Manufacturing showed continued job strength." And yet the region that we have traditionally regarded as a prime manufacturing area is not reflecting that.

What do we draw from that, that manufacturing is shifting in terms of where it is located?

Mrs. Norwood. There is some shifting I think that is going on.

Mr. PLEWES. A year ago that region on these charts would be down. Now we are just seeing very slow employment growth and very little decline in unemployment, but that has turned around with the improved prospects for manufacturing now in that region. So it doesn't look as strong as other regions, and that's true, but a year ago it was in a downward direction, sir.

Senator SARBANES. If a softening trend is at work in the economy, how long does it take before it reflects itself in the unemployment figures? Do you have any historical basis for giving us an answer to that question?

Mrs. Norwood. No, I don't. It depends in large part on where it takes place. Retail trade is one of the places that people are looking for problems. Retail trade has been somewhat weak in employment, but there is no real evidence of a large change yet.

I think as we move into the Christmas season in the next couple of months we'll see what happens. One of the issues that makes the data difficult to read is that in retail trade when there is sluggishness, there still may be a lot of sales started. So it's hard to extract exactly what is going on.

Since we have heard so much about the situation in stock brokerage firms, we were interested in looking to see whether there was any evidence of employment declines there. There is none. In fact, there was perhaps even a slight increase in employment there. That is not unusual though.

It often takes a long time to separate someone from a payroll, particularly white collar workers, who are generally given somewhat more notice. So I would not expect to see, in 1 month following the stock market decline, big employment declines showing up in the financial securities industry. I think that if it does occur, it wouldn't be probably until January or February.

In addition, there is some evidence that at least in the short run there may have been more work to do as a result of the stock market crash in those areas.

You go on then to look at the consumer confidence surveys. Michigan attempted to divide its sample, doing part of the sample of asking consumers how they felt about what their plans were going to be for spending before and after the stock market decline. Their samples were very small and there seemed to be some indication that consumers would be more cautious, but there is nothing there really that you could expect to see translated into employment figures very quickly, if at all.

Auto sales are not doing terribly well at the moment, but they go up and down, depending upon the incentive plans that are applied. There were big incentives given in the summer months and they have been withdrawn now. So it's really that which is affecting the sales.

Housing starts and housing permits are down, but there, too, that's, of course, tied up with interest rates to a large extent. Whether people are being more careful, the general wisdom seems to be that people are not going to buy big ticket items: cars, refrigerators, appliances, and houses. There is not a lot of evidence of that yet, but it may be too soon to tell.

Senator SARBANES. Thank you.

Senator Melcher.

Senator MELCHER. Sometimes I find myself not understanding terms I use. When I use this term "employment in services" I know I'm talking about health and barber shops and beauty shops and tailors and bookkeepers and accountants. What else am I talking about?

Mrs. NORWOOD. Well, you're talking about education, teachers, government is generally included, State and local governments and the Federal Government.

Senator MELCHER. In general I'm talking about all professionals, am I not?

Mrs. Norwood. Not necessarily because we're talking about retail trade. So you have a lot of sales clerks. You're talking about eating and drinking places, restaurants which have lots of people who are not really executives.

Senator MELCHER. Well, I mean all professionals are included in it.

Mrs. Norwood. The services industries, the service producing sector has a large proportion of our professional employees, but there are, of course, some professional employees in the goods producing industries as well.

Senator MELCHER. Am I talking about physicists that are working for the Government on a contract?

Mrs. Norwood. Yes, the temporary help industry or contracting help industry would be in services.

Senator MELCHER. Am I talking about people who make computers or not?

Mrs. Norwood. Those who make them, those who work for computer manufacturing firms, even if they are in the design portion, would be counted in manufacturing.

Senator MELCHER. What should I expect to be the result in employment as a result of Federal budget cuts and where should I look for them to be? Everywhere?

Mrs. NORWOOD. The initial effect, of course, would be everywhere that government is operating directly, people who work for the Government in whatever part of the country.

The next effect would be the lack of government money that has gone into a lot of areas, and then gradually it would spread into other kinds of things.

Senator MELCHER. The people that work for the U.S. Govern-ment, we're not making automatic cuts in personnel. The military makes up about, what, 40 percent of the people that get government pay checks. We are not going to cut the numbers in the military.

So when they make these cuts, where do you expect them to show up in these figures?

Mrs. Norwood. I have no idea what the Congress is going to decide. All I know is what I read in the newspapers. But it's quite clear that there will be somewhat less purchasing power, but exactly where it is depends upon what the decisions are.

Senator MELCHER. What will be the impact? Can you project anything?

Mrs. Norwood. No, I don't know. Senator MELCHER. We happen to be experiencing in our Stateand maybe we're different, I don't know-an increasing number of young people who are sort of floating between hither and yon. They get a job for 6 weeks or 7 weeks and then come home and never apply for unemployment insurance because they leave the State where they last held a job. Is that a significant occurrence, because they are not going to show up as unemployed, are they?

Mrs. Norwood. Not unless they are looking for a job. If they are not working and looking for a job, then they would show up as unemployed.

Senator MELCHER. Just by dropping down to the State employment bureau at home after returning, let's say, from Arizona, are they going to show up in your figures?

Mrs. Norwood. Probably. I mean it depends on how they respond to the questionnaire. The questions are carefully designed to see to it that we find out first whether people have worked at all during the survey week, and then whether the preceding 4 weeks they have taken some steps to look for a job.

Senator MELCHER. My question is very simple. They have come home from Arizona. Two weeks later or 10 days later they drop down to the State unemployment office and say have you got anything. Are they counted?

Mrs. Norwood. If they tell us in the survey that they have gone to the employment office to look for work, yes.

Senator MELCHER. In the survey by far the largest region is what you lump into the South. Is there some table there that you can look at? The District of Columbia and Maryland are in this region. As I view it, the unemployment rate in the District and in Maryland is very small. Yet, with the huge work force the overall unemployment figure comes up to 6.3 percent for the South. I would view a lot of this difference as the result of government activity, big spending in Maryland and in the District.

Now I don't know about Delaware, right next door, but I keep pondering just what we are going to expect out of these budget cuts in employment and how severe an impact it's going to have and what we should be anticipating.

I don't know whether the fact that you have the South so big in employment has any bearing on our concerns, but why is it that big? Why is it that everything from Maryland and Delaware to El Paso is included in the same group and all points in between North and South?

Mrs. Norwood. The regional data that you are referring to are based on the four broad regions that were established for the analysis of population census data. The reason that we discuss those with you here at this hearing is because that is really all of the geographic detail, apart from 11 States that we publish data for, that we can get out of the national survey. It's just not large enough to give us data for all of the individual States that we would like.

Now we're working on some plans to try to change that, but we do have a program of local area unemployment rates. There are statistical difficulties with them, but we do produce them. What you see in the South are very real differences.

You have some of the oil producing States, particularly Louisiana and Texas, which are not doing very well at all. They have unemployment rates of 8 percent or more, considerably more. You have problems in West Virginia that we know about, and then you have other areas that are somewhere around the 4- to 6-percent range like California and Florida, all of which are in the South. We do, with a larger timelag have some information on them, not as much as we would like.

Senator MELCHER. I read in the Post that Christmas sales are off and the employment of part-time additional help is off. Did they get that from you or from their own surveys?

Mrs. NORWOOD. No. A lot of newspapers do their own surveys by going out to department stores and asking those officials what they are doing.

Senator MELCHER. You have a lot of statistics, but I don't want to get you further than your statistics indicate. But do your statistics support that? Do they bear that out?

Mrs. NORWOOD. We are seeing weakness in employment in retail trade particularly in department stores. Senator MELCHER. Thank you.

Senator SARBANES. Congressman Solarz.

Representative SOLARZ. Thank you, Mr. Chairman. Mrs. Norwood, is there anything approaching a consensus among economists these days as to what unemployment rate would be consistent with a full-employment economy?

Mrs. Norwood. I think that most economists believe that it is higher than they used to believe it was. In the old days there was a lot of discussion about 2-, 3-, or 4-percent unemployment. Most of the literature suggests that a noninflationary unemployment rate is closer to, oh, perhaps 6 percent or 7 percent or 5 percent. But a lot of it depends upon people's value judgments.

Representative SOLARZ. What would you say would be consistent with a full-employment economy, that is other than frictional unemployment?

Mrs. Norwood. I really don't know. It seems to me that you have to look at this in a number of different ways. If you are an individual who is unemployed, it doesn't matter whether the country has full employment or whether anybody tells you that. You're in some real trouble.

I think the better way to look at this is to section out the groups who are unemployed and to look at what it is that is causing that unemployment. We have a million people who have been unemployed for more than 6 months. That's a very different situation from some of the people who are unemployed for 3 or 4 weeks.

Representative SoLARZ. I have to say that is not a very helpful answer. I agree with you that from the perspective of the person who is unemployed that it's small solace to be told that there is a full-employment economy going full steam ahead even though he or she doesn't have a job.

But as policymakers I think it's important for us to have some sense as to whether we are operating on a full-employment basis, in which case we could afford to take a somewhat relaxed view of the unemployment that exists on the theory that it is frictional and that a certain amount is inevitable as people move from one job to another and as certain businesses close down and others start up.

Whereas, on the other hand, if there is a gap of a couple of percentage points, a few million people between the number who are unemployed now and the lesser number who would be unemployed if we had a full-employment economy, that suggests the need for remedial action.

Can you give us any guidance here? What is the best thinking on this, what is the range at least and why has it gone up considerably from what it was when the consensus held it was around 3 percent?

Mrs. Norwood. Well, you have several questions there. Let me say that there are those, for example, the Council of Economic Advisers, who believe that we are very close to, if not really at full employment. There are other economists who look at the regional differences and say well, you may have full employment in New England, but you surely don't have it in the Southern region of the country. There are those who look at some of the kinds of industrial restructuring we have with plant closings and isolated areas who become very concerned about discussions of full employment. And then there are those who argue, you know, do we have structural unemployment when we have a minority population that doesn't have jobs?

So I don't want to evade your question. I think it is clear that many economists, particularly those in the Council of Economic Advisers, who believe that 6 percent is probably fairly close to full employment.

Representative SOLARZ. Do you think that it's possible to drive down the unemployment rate from where it is now by a percent or more over the course of the next couple of years? Is that a feasible and desirable policy objective?

Mrs. Norwoop. I would like to see unemployment lower because I think 7.1 million people is a lot of people who are unemployed and looking for work.

But one of the things that must be remembered is that the unemployment rate in this country has dropped from 10.8 percent in late 1982 to 5.9 percent, but the labor force has increased by almost 10 million during that period. So we really have had to increase the number of jobs by about 300,000 just to get a tenth off the unemployment rate. So what is possible under those circumstances, I don't really know.

Senator SARBANES. Would the gentleman yield?

Representative SOLARZ. I would be pleased to yield to the Chairman.

Senator SARBANES. I think the point that Congressman Solarz is making here is extremely important, and I think there is some concern that what constitutes full employment, there is a tremendous pressure to redefine it upwards so in effect you are more successful.

In other words, if you don't reach 3 percent, which is under some analyses a full-employment rate, and you keep not reaching it, then eventually you start saying, well, you know, full employment is really 5 percent and we shouldn't be too exercised about it.

Mrs. Norwood. That's right.

Senator SARBANES. Now let me ask you this question. You do your unemployment figures by regions, and you've submitted that data to us. Do you do your inflation figures by region?

Mrs. Norwood. Yes.

Senator SARBANES. Is there more inflation in the regions that have lower unemployment rates?

Mrs. NORWOOD. We could look at that and submit something for the record.

Senator SARBANES. I mean you have unemployment rates ranging here from 2.8 percent in the lowest region to 8.2 percent in the highest region. Now is there a correlation between those unemployment rates and the regional inflation rates?

Mrs. NORWOOD. We can look at that, Senator. We have the data, and we would be glad to submit them for the record.

[The following information was subsequently supplied for the record:]

• •	Region								
Year and Indicator	Northeast	North Central	South	West					
1981 Unemployment rate CPI-U	7.4	8.6 . 7.1	7.0 10.0	7.4 9.8					
1982 Unemployment rate CPI-U	9.0 4.0	11.1 6.3	8.9 3.7	9.9 1.3					
1983 Unemployment rate CPI-U	8.7 4.0	10.8 3.4	9.3 3.6	9.5 4.2					
1984 Unemployment rate CPI-U	6.8 4.2	8.4 3.2	7.2 4.0	7.6 4.5					
1985 Unemployment rate CPI-U	6.2 4.4	8.0 3.3	7.2 3.2	7.3 4.1					
1986 Unemployment rate CPI-U	5.6 1.7	7.3 .6	7.6 _9	7.1 1.4					
1987* Unemployment rate CPI-U	4.5 5.3	6.7 4.5	6.9 4.2	6.4 4.2					

Annual Average Civilian Unemployment Rates and Percent Changes in All Items Consumer Price Index for All Urban Consumers (CPI-U) for the 12 Months Ending in December, by Region, 1981-1987

*12 Months ending November 1987 Source: Bureau of Labor Statistics December 1987 Senator SARBANES. I'm concerned that there is just a redefinition of what constitutes full employment in order to give us a more comfortable situation.

Representative SOLARZ. Mr. Chairman, I share that concern precisely, and I wonder if it would be possible to ask Mrs. Norwood if she could submit for the record a survey of what the different organizations, like the Council of Economic Advisers and the CBO and prestigious independent economists are saying is a full-employment economy together with the reasoning behind their conclusion so that the committee could examine what the range of opinion is on this issue.

[The following information was subsequently supplied for the record:]

MEASUREMENT OF THE NATURAL RATE

Estimates of the natural rate of unemployment are inherently imprecise in that no single model can account for all the variables embodied in the concept. There is general agreement, however, that the natural rate increased during the 70's, but has shown some decline over the last 10 years. A review of the literature on the subject yields current generation estimates ranging from 4 to 7 percent. [Note: much of the literature on estimation procedures use the acronym NAIRU (non-accelerating inflation rate of unemployment) as a synonym for "natural rate".]

Recent estimates include:

--Congressional Budget Office, August 1987.

As the actual unemployment fell to 6.0 percent without evidence of supply constraints or strong inflationary pressures, the Office revised their estimate of the 1987 NAIRU downward from 6.0 to 5.7. The NAIRU is projected to decline through 1992 to 5.5 percent, largely as a result of the shrinking labor force shares of young persons.

--Council of Economic Advisors, January 1988.

A preliminary draft of the 1988 Economic Report of the President discusses in detail trends in unemployment, but does not provide a current estimate of the natural rate.

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However, the report does conclude that further reductions in actual unemployment rates are possible without fueling inflation:

> "The relatively low rates of unemployment in Middle Atlantic, West North Central, South. Atlantic, and especially the New England regions indicate that there is not an impenetrable barrier to achieving unemployment rates of 5 percent or less. If it can be done in these regions, where the characteristics of the labor force are not remarkably different from the country as a whole, then it should be possible in other regions as well."

--Richard Cantor and John Wenninger, Federal Reserve

Bank of New York, Autumn 1987.

In analyzing the relation between unemployment rates and GNP growth, the authors suggest "that we could be approaching a point where inflationary pressures could emerge." After reviewing demographic factors, and industry and regional trends, they conclude:

"Overall, our findings suggest that the NAIRU has shifted downward from the 6.5 to 7.0 percent range in the late 1970's to about 6 percent at present, although we will not know with confidence what the NAIRU is in the current cycle until we actually see firm evidence of upward movements in wages."

--<u>Mark Zandi, Wharton Econometric Forecasting Associates,</u> November 1987.

In reviewing the concept of the natural rate and assessing the possibility of renewed wage inflation, a variety of factors are presented pointing to further wage inflation as unlikely. Specifically, the relatively high unemployment rates of prime age males represent an untapped supply of labor, and, in recent contract talks, the job security issue has appeared to take precedence over wage increases. Finally, a demographically adjusted unemployment rate was constructed which yields a current natural rate of 5.4 percent. The report concludes, "Since our current forecast calls for growth averaging closer to 2.5% through 1988, there is no risk of major wage-cost push inflation in the remainder of this decade."

--Richard S. Krashevski, Dept. of Research, AFL-CIO.

"The present circumstances--an abundance of unused capacity, joblessness far above the feasible minimum, and moderate inflation-- all signal that unemployment can be cut further without quickening inflation's pace."

"Today, as in the 1960's, full employment is an unemployment rate no higher than 4 percent."

--Michael K. Evans, Evans Econometrics, "Industry Week,"

8/24/87.

Citing demographic factors and foreign competition's ability to restrain wage increases, the author states, "the full-employment rate has now declined to about 5 percent." Representative SOLARZ. But while we're here could you tell us why isn't zero unemployment the definition of full employment and in what sense could we have full employment when you have several million unemployed?

Mrs. Norwood. I don't think we can ever get to zero unemployment because there are always people in this country who move around, who leave jobs and who come into the labor force. We have a lot of students who in the summertime look for jobs. You will always have some movement.

The question is really how much of that movement is caused by the economy not being able to cope with the numbers of people who are there.

Representative SOLARZ. Well, let me ask what may be a naive question. I fully agree with you that there will always be some people coming into the labor market and it takes them a certain amount of time to get a job, and there will always be other people who decide to leave a job. They don't like it and it takes them a little bit of time to find another job.

Why shouldn't the definition of full employment be no more than the number of people coming into the labor market with a reasonable amount of time for them to look for a job, plus the number of people who voluntarily leave a job, plus a reasonable amount of time to look for another job, and then if that came to 3 percent of the total work force that would be full employment.

But if you add to that people who are thrown out of their jobs or people who leave a job voluntarily and then it takes them 2 years to find another job even though they want to work, or you add to it people who enter the labor force for the first time and after a year later they are still looking for a job, that doesn't seem to me to be something which logically fits into the concept of full employment as you described it.

So I should think if you look at it in those terms it would be possible for you to make some estimate as to the number of people who voluntarily left jobs and who have been looking for work say for less than 2 or 3 months, whatever is considered a reasonable period of time to find another job, and the number of people who have just entered the labor market within 2 or 3 months, which is a reasonable period of time to find a job and say what percentage of the unemployment rate is that. Do you have that figure?

Mrs. Norwood. We do have figures on the number of job leavers in any particular month, and we can tell you how many have lost their jobs, how many people are on temporary layoff from a job expecting to be called back and how many people have actually left their job in that month.

Now it's somewhat difficult in this survey, which gives you a snapshot of what is going on each month, to relate these variables over a period of some time. We are working on that and trying to improve the longitudinal characteristics of the current population survey.

To return to the data, there were about a million, 910,000 job leavers in November, that is people who voluntarily left their job.

Representative Solarz. 110,000?

Mrs. NORWOOD. 910,000. So that's roughly a seventh of the 7.1 million unemployed. It's 12.8 percent of the unemployed, in November.

Among the unemployed, 47 percent were job losers, 12.8 percent were job leavers, and about 28 percent were people that had been in the labor force, left it and came back in as reentrants.

Representative SOLARZ. Mr. Chairman, I see my time has expired.

Senator SARBANES. I took some of your time. Why don't you go ahead.

Representative SOLARZ. This sounds to me like intellectual gobbledygook—and I'm not saying what you said—but it is this notion that a full-employment economy may be 6-percent unemployment. You're telling me that roughly a million people voluntarily left their jobs and they are still looking for work. I don't know what the figure is as to the number of new workers who haven't yet found jobs, and let's say that's another million or so. So that would be 2 million people.

It would seem to me then that a more reasonable and realistic judgment of full employment might be 2 percent, which seems to be the percentage of the work force that are out of work because they voluntarily left jobs or because they just came in and haven't yet been able to find jobs.

Perhaps you can explain to me on what basis other economists triple that figure and come up with another 4 percent, saying that 6 percent is full employment.

Mrs. Norwoon. It's really that they double that figure because there are 2 million people roughly that have reentered, and then there are the million that we were talking about who left. So some people look at those two groups that you're talking about as the frictional unemployment and they say, well, that is roughly 3 percent or somewhere in that neighborhood.

But then you get other people who add to that a variety of different kinds of situations. There are those who suggest that some of the unemployed don't really look for work very hard and they focus on some systems in this country which provide for payments to be made. Some conservative economists allege that you have to take account of that.

Then there are those who look at this not from a micro sense of looking at these specific groups of people and their problems, but they come at it from a macro sense and they say we have an inflation problem, and ask how much can we expand the economy without really pushing inflation up?

So what they tend to do is to look more at what the pressures are on inflation, where they are, and then try to translate that back into the unemployment rate.

Representative Solarz. How many discouraged workers are there?

Mrs. Norwood. About a million.

Representative SOLARZ. A million, and if you added them to those who are now counted in the unemployment rate, what would the unemployment rate be?

Mrs. Norwood. That's U-7, that's about 9 percent.

Representative SOLARZ. Nine percent. And if you added to that the part-time workers who would like full-time work—

Mrs. Norwood. That's included in the figure I gave you.

Representative SOLARZ. So the figure you gave me---

Mrs. Norwood. It's the most inclusive. It includes half of the part-time workers, assuming they are working half of the week, plus the discouraged, and that's about 9 percent.

Representative SOLARZ. And how does that compare historically to that comprehensive unemployment rate over the course of the last say two decades? Do you know?

Mr. PLEWES. The discouraged worker part has moved essentially with the unemployment rate. The part time for economic reasons is somewhat above the historical standard. So that rate is somewhat above that experienced in the past.

Representative SOLARZ. I mean if we just looked at the official unemployment rate rather than the comprehensive one, we could assume that the comprehensive rate would be moving in tandem with the official unemployment rate?

Mrs. NORWOOD. Generally they do. We chart them from time to time and it's just that one is higher than the other. They all go up in time of recession, and then in recovery they come down.

But as Mr. Plewes has pointed out, we do have 5.5 million people working part time for economic reasons now which at this stage of an expansion is really quite a large number.

Representative SOLARZ. It's clear from your figures that there has been a substantial decline in the unemployment rate over the last 6 years. Has there been a comparable decline in the comprehensive unemployment rate, which includes discouraged workers and part-time workers seeking full-time employment?

Mrs. Norwood. Generally so, yes, and perhaps slightly less because of this part time for economic reasons, but not a lot different. Representative SOLARZ. Could you give us the precise figures?

Mrs. Norwood. Yes, we would be glad to.

Representative SOLARZ. Fine.

[The following information was subsequently supplied for the record:]

JAN 14 1988

Honorable Stephen J. Solarz House of Representatives Vashington, D.C. 20515

Dear Congression Solarz:

This is a follow-up to my appearance at the Joint Econotic Committee hearing of December 4, 1967 when I promised additional information on two topics. The first one was a comparison between the official civilian unemployment rate and an alternative rate that also takes into account discouraged workers and persons working part time for economic reasons. The second topic was a summary of current thinking on the "full-exployment unemployment rate."

This letter deals with the first topic. With regard to the second topic, we are currently examining the literature and hope to provide you with a brief summary of our findings within the next few weeks.

1 have enclosed a chart, Selected Unexployment kates 1970-97, that shows how the official unexployment rate (05-b) and the 0-7 alternative rate have performed over the various business cycles since 1970. (The technical definitions of the two rates are provided on the bottom of the chart.) As you can see, the two series have shown very similar movements, although the gap between them has widewed slightly during the 1980's.

The widening of the gap over this period reflects the fact that, for various reasons, the number of persons on part-time work schedules for economic reasons-also referred to as involutary part-time workers--mas not declined as rapidly as has the number of unemployed. The number of discoursged workers, which is the third element taken into account in the computation of the U-7 rate, has actually occlined rore rapidly - - Honorable Stephen J. Solarz--2

JAN + 4 1988

I hope this information is helpful to you. As promised, I will forward our findings on the full-employment issue as soon as possible.

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Sincerely yours,

JANET L. NORWOOD Commissioner

Enclosure

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U-7. Total ful-time jobseskers plus 1/2 part-time jobseskers plus 1/2 total on part time for economic reasons plus discouraged workers as a percent of the cMan labor force plus discouraged workers less 1/2 of the part-time labor force.

DEPARTMENT OF LABOR Bureau of Labor Statistics Representative SOLARZ. Just one final question, Mr. Chairman. I notice you've broken down your unemployment figures by race, among other categories. Do you have the unemployment figure for Hispanics?

Mrs. NORWOOD. Yes. It is 9.1 percent in November, and that is higher than——

Representative SOLARZ. That is higher than for whites but less than for blacks.

Mrs. Norwood. Yes, that's right. That figure jumps around quite a lot and needs to be looked at over some considerable period of time. Hispanics are a relatively small group in the population, but they seem to be coming into the labor force in very large numbers over the last year.

Mr. PLEWES. About 25 percent of the labor force additions in the past year have been Hispanic persons.

Representative SOLARZ. Are they regionally identifiable?

Mr. PLEWES. We haven't broken them out that way. We can. Certainly there are heavier impacts in some regions.

Representative SOLARZ. Do you have any way of knowing to what extent the disproportionately high rate of black unemployment is due to a lack of skills associated with poverty or related factors and how much of it is due to racism in this society? Do you have any way of getting at that discrimination?

Mrs. Norwood. No, not really.

Representative SOLARZ. Do you have any thoughts on it?

Mrs. Norwoon. Lots of them, but I don't have a lot of factual evidence. It seems clear to me that a large part of the reason for the very high-unemployment rate for black teenagers has to be a lack of preparation, a lack of training and perhaps even more important the kind of circumstances in which these kids live, which is not particularly conducive to a learning experience.

I think that unemployment rate for black teenagers, which is now 34.3 percent, and it's true it was 50 percent or more in the recession, is a tremendously high rate.

Now black women have always worked. They have always had a fairly high labor force participation. They have an unemployment rate of about 10 percent, and black men also have difficulty in the labor market. How much of their rates are due to training and how much of it is due to where they live, I can't say. They may live in areas where there aren't any jobs, but how much of it is due to discrimination is really very difficult to determine.

Representative SOLARZ. Thank you very much, Mr. Chairman.

Senator MELCHER. Mrs. Norwood, the budget cuts are supposed to stabilize or help stabilize the stock market. I'm not so sure that that will occur, but that's what is the general feeling, that it will help.

Receipts are projected to climb in the Economic Indicators from the Council of Economic Advisers, not in the personal income tax and probably not in the corporate tax either, but in taxes levied for the purposes of Social Security and Medicare.

The employment rates then are very significant for that projection because if employment would go down, those receipts would go down. And because of this arrangement we have where trust funds are counted as part of the overall budget, the receipts that go into those trust funds, particularly Social Security and Medicare, are very significant.

In this room where we meet, which is usually on an average of a little over once a month, the Special Committee on Aging also uses this room. The elderly are rather resentful that while the trust funds are building up for Social Security retirement, we tinker from time to time or threaten to tinker in Congress with the costof-living adjustment or some of the other benefits that they might receive.

Now we have to project out over this next year what we do in that regard. It isn't just that the increase in Social Security taxes, which goes into effect on January 1, is a fairly substantial increase, and that's primarily why I believe the Council of Economic Advisers is projecting revenues upward.

What should we expect in the balance of fiscal 1988 in employment because we are going to have to make some judgments right now on what we do about Medicare and how strongly we defend COLA's?

Mrs. Norwood. I can't really answer all of your question there, Senator. The Congressional Budget Office has been doing a great deal of work to try to estimate exactly what the revenues will be and how they are related to Social Security.

May I just say that I think there are two points that are related to your comment.

One is that the trust funds are building up, but the major concern appears to be what will happen later into the next century when the age profile of the population has shifted and there are fewer people working to support, to pay into the Social Security system. That's a policy issue I certainly don't want to get into.

Senator MELCHER. That's about the year 2030 though.

Mrs. Norwoon. Well, it's somewhere in the future, but that is I think what most of that discussion has been related to.

Senator MELCHER. It looks like it climbs to 2030.

Mrs. NORWOOD. It's clearly going to be a problem sometime in the future because the people who are now working are growing older and the group coming behind them is a much smaller group.

The other question is the price escalation, and the issue really is whether the escalation of Social Security benefits is greater than the increase in earnings of people who are working, and that's a question that again is a policy question, but I think that's part of the issue in the discussion.

Senator MELCHER. Well, I don't disagree with what you describe as the issues. I'm just asking what should we anticipate on unemployment rates as we try to make these decisions for the balance of this fiscal year?

Mrs. Norwood. I think all I can say to that is that question needs to be addressed to the Congressional Budget Office which has a very good reputation for objective forecasting. We don't do shortterm forecasts. We just report on what has actually happened.

Senator MELCHER. You can't make any projections at all?

Mrs. Norwood. No, except we do look 15 to 20 years into the future and we have released projections to the year 2000, but we don't look at the near term. We look at future occupational demand.

Senator MELCHER. You don't look at anything for the coming vear?

Mrs. Norwood. No. sir.

Senator MELCHER. Thank you.

Senator SARBANES. Commissioner, the material that Congressman Solarz asked for, we're very interested in obtaining that material so we can pursue that subject.

Mrs. Norwood. We'll try.

Senator SARBANES. And in that regard I'm interested in this point about your inflation figures. Do you do them on the same regions on which you do your unemployment fugures?

Mrs. Norwood. No. We have consumer price indexes which are calculated by area and by city size. We have four areas.

Mr. DALTON. We have the four census regions.

Mrs. Norwood. We do have those.

Mr. DALTON. But not below that.

Senator SARBANES. You don't have this 11-region breakdown? Mrs. Norwood. No.

Senator SARBANES. Well, can you look at that? It would be very interesting indeed to discover that a region that was at 3-percent unemployment as compared with a region that was at 9-percent unemployment was not experiencing any significant differences in price movements in their region.

Now I know that it's not that simple, but nevertheless that would be interesting. Or even if they were experiencing price differences, it would depend on what order of magnitude they were as well.

Representative Solarz. Mr. Chairman, if I may ask one final question.

Senator SARBANES. Yes.

Representative Solarz. I've heard it said frequently in recent months that we are now in the midst of the longest prolonged peacetime economic growth in terms of jobs that we've had since presumably I don't know when.

Is this true, and what is meant by peacetime here?

Mrs. Norwood. It is true. It is post-World War II. It does not include Vietnam, of course, but the other point, if I may just say, it of course comes after an extraordinarily steep recession. And generally in business cycle analysis the steeper the recession, the more vigorous the recovery that follows at least in the early stages.

Representative Solarz. When you say it doesn't include Vietnam, what do you mean?

Mr. PLEWES. It does not include the period from February 1961 to December 1969, which was a very long period of expansion.

Representative SOLARZ. In other words, we had a longer expansion during that period?

Mr. PLEWES. That was a longer expansion than during the current period, that is correct.

Representative SOLARZ. So it excludes Vietnam?

Mrs. Norwood. Yes, because we're talking about peacetime.

Representative SOLARZ. I mean that assumes we were at war.

Mrs. Norwood. That's a different question and we shouldn't get into it I guess.

Representative SOLARZ. How many years has this expansion been going on now?

Mr. PLEWES. We have a 60-month expansion going on as of this month. It is shorter than the expansion that went from February 1961 to December 1969, but during that period of course we were in Vietnam.

Representative SOLARZ. But we weren't in Vietnam in any size until 1965-66. I mean you can't write off 1961, 1962, and 1963.

Mrs. Norwood. Well, we're not writing off anything. We are just telling you what the facts are. In general, in a business cycle and the people who are specialists in business cycle analysis talk about it in these terms.

We can give you, as a matter of fact, and we would be glad to submit it for the record, the particular time periods and what happened.

[The following information was subsequently supplied for the record:]
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Peak	Trough
November 1948	October 1949
July 1953	May 1954
August 1957	April 1958
April 1960	February 1961
December 1969	November 1970
November 1973	March 1975
January 1980	July 1980
July 1981	November 1982

High and Low Points	of the Unemployment	Rate
During Each of	the Business Cycles	

Low	High
October 1948 - 3.7	October 1949 - 7.9
June 1953 - 2.5	September 1954 - 6.1
March 1957 - 3.7	July 1958 - 7.5
February 1960 - 4.8	May 1961 - 7.1
September 1968- May 1969 - 3.4	August 1971 - 6.1
October 1973 - 4.6	May 1975 - 9.0
May 1979 - 5.6	July 1980 - 7.8
April 1981 - 7.2	November-December 1982 - 10.7

Official Peaks and Troughs of the Post-war Business Cycles

Senator SARBANES. Well, if you've gone into the deepest recession that you've been in for 50 years, the fact that you've moved up from it over a period of time is less significant, is it not, and easier to do?

Mrs. Norwood. Yes.

Senator SARBANES. I mean if you start from an 11-percent unemployment rate, you're way down. So you can kind of keep coming up.

Mrs. NORWOOD. That was the point that I was trying to make earlier, that we should not forget that the 1981-82 recession was one of the sharpest and steepest that we have had in a very, very long time, and some people feel it was almost as bad as the recession of the 1930's.

Senator SARBANES. And I am struck by how fast that recession came. Is my memory correct on that?

Mrs. Norwood. Yes.

Senator SARBANES. I mean how quickly the economy went down. Mrs. Norwood. Yes, it went down fast and it was steep. The expansion, in that Vietnam period from 1961 to 1969 the expansion

lasted 106 months, but anything beyond that was really, even the 1975 to 1980 expansion lasted 58 months. So this is the longest expansionary period since World War II apart from the 1961-69 period.

Senator SARBANES. Thank you very much. We are very pleased to have you back with us.

[Whereupon, at 10:47 a.m., the committee adjourned, subject to the call of the Chair.]

EMPLOYMENT-UNEMPLOYMENT

FRIDAY, JANUARY 8, 1988

Congress of the United States, Joint Economic Committee, Washington, DC.

The committee met, pursuant to notice, at 9:30 a.m., in room SD-628, Dirksen Senate Office Building, Hon. William Proxmire (member of the committee) presiding.

Present: Senator Proxmire.

Also present: William Buechner, professional staff member.

OPENING STATEMENT OF SENATOR PROXMIRE, PRESIDING

Senator PROXMIRE. Commissioner Norwood, welcome to the Joint Economic Committee. Rain or snow or dark of night doesn't prevent Commissioner Norwood from appearing with her two remarkably able and strong, able to resist any kind of weather companions. It is great to have you here.

The employment and unemployment figures for December were encouraging, and, of course, they were very encouraging for all of 1987. It was quite a year, with a steady decline in unemployment. I understand that it is now one of the biggest drops of any year, certainly recently, in unemployment, and it is now down to 5.8 percent. It is a decrease of 0.9 of 1 percent since the beginning of the year, and while most of the new jobs still are in the service industries, it is interesting and encouraging that there has been an increase in the last month, I understand, in manufacturing and the volume of our exports is increasing even though the balance of trade statistics are bad because, of course, they are based on a dollar which has been declining in value.

And all segments of the labor market I understand improved. For whites, the unemployment rate fell to 4.9 percent compared to 5.8 percent a year ago. For blacks, the unemployment rate fell to 12.2 percent from 13.7 percent. Of course, that 12.2 percent is still a discouragingly high level. For the population as a whole it would be a depression, and it is one of the real problems we have that black unemployment is as high as it is.

Adult women, unemployment fell to 5.2 percent from 5.8 percent. Teenagers also showed an improved labor market situation, but that is also very high, and, of course, for black teenagers it is a serious national problem.

The bad news occurred, it seems, in productivity—perhaps you would like to comment on that later—and to some extent inflation. It is a little unfair to compare the inflation figures because they were so good in 1986, that although the inflation is still moderate as compared to what we have suffered in the past it still represents a big increase.

Here is the inflation for all of 1986. It was 1.1 percent, and as you can see, it went up fairly steadily and is now at its peak for November, the figures we have, 4.5 percent. Arithmetically, that is a huge increase. On the other hand, 4.5 percent in the late 1970's, early 1980's would have been considered a terrific year. But it is still a serious increase and something that we might want to talk about to some extent.

I would like to ask you when you finish your statement as to what economic policies of the Congress and the administration—I don't mean to be critical of the administration or the Congress but what contributed to the improvement in unemployment and the fact that, in general, the economy did quite well in 1987? Was this simply an accident that happened in spite of the Congress, or was it something that some of our policies encouraged?

Go right ahead.

STATEMENT OF HON. JANET L. NORWOOD, COMMISSIONER, BUREAU OF LABOR STATISTICS, DEPARTMENT OF LABOR, AC-COMPANIED BY THOMAS J. PLEWES, ASSOCIATE COMMISSION-ER, OFFICE OF EMPLOYMENT AND UNEMPLOYMENT STATIS-TICS; AND KENNETH V. DALTON, ASSOCIATE COMMISSIONER, OFFICE OF PRICES AND LIVING CONDITIONS

Mrs. Norwood. Thank you, Mr. Chairman.

We are very happy to be here, and as always, Mr. Dalton, our price expert, is here, as is Mr. Plewes, our employment expert.

The labor market showed strength throughout most of last year, and the December figures continued that pattern of growth. Employment continued to rise at a brisk pace, and the rate of unemployment, while little changed in recent months, was down nearly a full percentage point from a year earlier.

The overall jobless rate was 5.7 percent in December, and the rate for civilian workers was 5.8 percent. Both rates were at their lowest points since mid-1979.

Payroll employment, as measured by the BLS business survey, rose by 325,000 from November to December. That increase was one of the largest monthly changes in a year of robust growth which added 3 million jobs to the economy.

Factory jobs continued to expand in December, as another 40,000 workers were added to payrolls. Since last December, the Nation's factory payrolls have risen by more than 400,000 jobs, mostly in just the last 6 months. Over those 6 months only two of the manufacturing industries for which data are published in our release autos and tobacco—have not shown some growth.

In December, however, factory growth was not so widespread as in November; machinery and electrical equipment accounted for half of the manufacturing increase. Although the factory workweek was down a tenth of an hour, work schedules continue to be very high by historical standards.

Elsewhere in the goods-producing sector, construction employment was up for the third month in a row, ending the year with about 200,000 more jobs than a year ago. Although the number of jobs in mining was little changed from November to December, the December level of 760,000 was more than 40,000 above last January's recent low point in this series.

The lion's share of December job growth in the service-producing sector was in the services industry itself. Business and health services, the largest component of that industry, together accounted for about one-half of the service industry's increase.

Since the October stock market crash, a great deal of attention has been focused on jobs in finance, insurance, and real estate. Actually, employment growth in that industry, which had been very strong throughout most of the current expansionary period, had already begun to slow last spring, partly as a result of weakness in banking. Employment levels had not changed much by December, but, as we discussed last month, it takes time for changes to take effect.

The retail trade industry also has been subjected to scrutiny, as economists review the effect of the stock market decline on consumer attitudes toward consumption and savings. Employment in retail trade has changed very little over the past 2 months, but general merchandise stores have shown particular weakness. Final December sales figures are not yet available, however, and we need more time to determine what is happening.

The civilian worker unemployment rate of 5.8 percent in December, although little changed over the month, was down substantially over the year.

Consistent with the recent employment increases in manufacturing, the jobless rate for adult men declined 1.1 percentage points over the year, nearly double the improvement for women. However, the unemployment rate for teenagers—at 16.1 percent—showed very little improvement from a year earlier. Particularly, high unemployment continued to be concentrated in central cities, and, as we have often discussed at these hearings, the experience of black teenagers in finding jobs is far worse than that of white teenagers.

As we review 1987's labor market developments, the highlight certainly has been the strong employment growth—3 million in each of our surveys. Such a pattern of accelerating growth this far into an expansion is quite unusual.

Perhaps the most encouraging development has been the renewed strength in factory employment, particularly in export-related industries. The factory workweek also has remained at very high levels. Employment in mining recovered slightly over the year but remains nearly half a million below its March 1982 peak level. Construction gains, although unevenly distributed throughout the year, were, nevertheless, fairly substantial. The services industry continued its unwavering uptrend, but, at year's end, the course of the retail trade and finance industries was less clear.

Although overall joblessness improved, especially in the first half of the year, we must still be concerned about the several types of problems that persist. Although the number of jobless looking for work for 6 months or more is down by nearly a quarter of a million since last December, this group still totals 900,000. The number working part time, even though they would prefer full-time work, remains more than 5 million. Minority youth continue to have difficulty in finding jobs, and the number of discouraged workers, although down considerably from last year, is still 900,000.

In spite of these problem areas, however, we must give very high marks to the performance of the overall labor market during 1987. We would be glad to try to answer any questions you have

We would be glad to try to answer any questions you have. [The table attached to Mrs. Norwood's statement, together with the Employment Situation press release, follows:]

					X-11 method				
Month	Unad-		Concurrent			I		(official	Range
and	justed	Official	(as first	Concurrent	Stable	Total	Residual	method	(cols.
year	rate	procedure	computed)	(revised)				before 1980)	2-8)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1000				ļ					
1 7 2 0									
December	6.3	6.7	6.7	6.7	6.6	6.7	6.7	6.7	.1
1987									
January	7.3	6.7	6.7	6.7	6.7	6.7	6.6	6.7	.1
February	7.2	6.6	6.6	6.6	6.6	6.6	6.6	6.7	.1
March	6.9	6.5	6.5	6.5	6.6	6.5	6.5	6.6	.1
April	6.2	6.3	6.3	6.3	6.4	6.3	6.3	6.3	•1
May	6.1	6.3	6.3	6.3	6.3	6.3	6.5	6.3	•2
June	6.3	6.1	6.1	6.1	6.1	6.1	6.2	6.1	•1
July	6.1	6.0	6.0	6.0	6.0	6.1	6.1	6.0	•1
August	5.8	6.0	6.0	6.0	6.0	6.1	6.1	6.0	.1
September	5.7	5.9	5.9	5.9	6.0	5.9	5.9	5.9	•1
October	5.7	6.0	6.0	6.0	6.0	5.9	6.0	6.0	.1
November	5.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9	-
December	5.4	5.8	5.8	5.8	5.7	5.7	5.8	5.8	<u></u>

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Unemployment rates of all civilian workers by alternative seasonal adjustment methods

SOURCE: U.S. DEPARTMENT OF LABOR Bureau of Labor Statistics January 1988 149

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(1) Unadjusted rate. Unemployment rate for all civilian workers, not seasonally adjusted.

(2) Official procedure (X-11 ARDMA method). The published seasonally adjusted rate for all civilian workers. Each of the 3 major civilian labor force components---sgricultural employment, nonagricultural employment and unexployment--for 4 agreese groups---males and females, ages 16-19 and 20 years and over--are seasonally adjusted independently using data from January 1974 forward. The data series for each of these 12 components are extended by a year at each end of the original series using ARDMA (Auto-Ragreesive, Integrated, Moving Avarage) models chosen specifically for each series. Each extended series is then seasonally adjusted with the X-11 portion of the X-11 ARDMA program. The 4 teenage unemployment and nonagricultural employment components are adjusted with the additive adjustent model, while the other components are adjusted with the multiplicative model. The unemployment rate is computed by summing the 4 seasonally adjusted components. All the seasonally adjusted arises are ravised at the end of each year: Extrapolated factors for January-104 year; extrapolated in the middle of the year after the June data become available. Each set of 6-month factors are published in advance, in the January and July

(3) <u>Concurrent (as first computed, X-11 ARIMA method)</u>. The official procedure for computation of the rate for all civilian workers using the 12 components is followed except that extrapolated factors are not used at all. Each component is seasonally adjusted with the X-11 ARIMA program such month as the most recent data become available. Rates for each month of the current year are shown as first computed; they are revised only once each year, at the end of the year when data for the full year become available. For example, the rate for January 1984 would be based, during 1984, on the adjustment of data from the period January 1974 through January 1984.

(4) <u>Concurrent (revised, X-11 ARIHA method)</u>. The procedure used is identical to (3) above, and the rate for the current month (the last month displayed) will always be the same in the two columns. However, all previous months are subject to revision each month based on the seasonal adjustment of all the components with data through the current month.

(5) <u>Stable (X-11 ARIMA method)</u>. Each of the 12 civilian labor force components is extended using ARIMA models as in the official procedure and then run through the X-11 part of the program using the stable option. This option assumes that seasonal patterns are basically constant from year-to-year and computes final seasonal factors as unwighted averages of all the seasonal-irregular components for each month across the entire span of the period adjusted. As in the official procedure, factors are extrapolated in 6-month intervals and the series are revised at the end of each year. The procedure for computation of the rate from the seasonally adjusted components is also identical to the official procedure.

(6) Total (X-11 ARDM method). This is one alternative aggregation procedure, in which total unemployment and civilian labor force levels are extended with ARDM models and directly adjusted with multiplicative adjustent models in the X-11 part of the program. The rate is computed by taking seasonally adjusted total unemployment as a percent of seasonally adjusted total civilian labor force. Pactors are extrapolated in 6-month intervals and the series revised at the end of each year.

(7) <u>Residual (X-11 ARDMA method</u>). This is suchar alternative aggregation method, in which total civilian exployment and civilian labor force lavels are extended using ARIMA models and then directly adjusted with multiplicative adjustment models. The seasonally adjusted unemployment level is derived by subtracting seasonally adjusted exployment from seasonally adjusted labor force. The rate is then computed by taking the derived unemployment level as a percent of the labor force level. Factors are extrapolated in 6-month intervals and the series revised at the end of each year.

(8) X-11 method (official method before 1980). The method for computation of the official procedure is used except that the series are not extended with ANIMA models and the factors are projected in 12-month intervals. The standard X-11 program is used to perform the seasonal adjustment.

Methods of Adjustment: The X-11 ARDMA method was developed at Statistics Canada by the Seasonal Adjustment and Times Series Staff under the direction of Estels Bee Dagum. The method is described in The X-11 ARDMA Seasonal Adjustment Method, by Estels Bee Dagum, Statistics Canada Catalogue No. 12-5648, February 1980.

The standard X-11 method is described in X-11 Variant of the Census Method II Seasonal Adjustment Program, by Julius Shiskin, Allan Young and John Musgrave (Technical Paper Mo. 15, Bureau of the Census, 1967).



United States Department of Labor



Bureau of Labor Statistics

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THE EMPLOYMENT SITUATION: DECEMBER 1987

Employment continued to increase in December and unemployment was little changed, the Bureau of Labor Statistics of the U.S. Department of Labor reported today. The overall unemployment rate was 5.7 percent, and the rate for civilian workers was 5.8 percent. While little different from November, both rates have declined nearly a percentage point during 1987.

The number of nonagricultural wage and salary jobs--as measured by the monthly survey of establishments--increased by 325,000 in December to 103.6 million. Civilian employment--as measured by the monthly survey of households--rose by 240,000 to 113.7 million. Over the past year, job growth in both surveys has totaled about 3 million.

Unemployment (Household Survey Data)

The number of unemployed persons, at 7.0 million in December, and the civilian unemployment rate, at 5.8 percent, seasonally adjusted, were little changed from November but have edged down from this past summer's levels. Both of these measures have improved markedly during 1987. This improvement largely reflects a decline in the number of unemployed persons who lost their last job. (See tables A-2 and A-8.)

In December, there was little or no change in the jobless rates for adult men (4.9 percent), adult women (5.2 percent), teenagers (16.1 percent), whites (4.9 percent), and blacks (12.2 percent). The unemployment rate for Hispanics, which is often more volatile than those for whites and blacks, declined to 8.1 percent in December, a return to its general level of the July-to-October period. Jobless rates for nearly all worker groups showed considerable improvement over the year. (See tables A-2 and A-3.)

The mean duration of unemployment, at 14.2 weeks, and the median duration, at 6.0 weeks, were about unchanged from November. However, in

This release incorporates annual revisions in seasonally adjusted unemployment and other labor force series derived from the household survey. Information on the revisions appears on page 5. line with the general improvement in unemployment, both measures showed a decline in duration of about 1 week compared with year-earlier levels.

Civilian Employment and the Labor Force (Household Survey Data)

Civilian employment rose by 240,000 in December to 113.7 million, and the percentage of the population with jobs held at a high of 61.9 percent.

Table A. Major indicators of labor market activity, seasonally adjusted

	Quart avei	erly rages	. Mor	athly data	L					
Category	<u> </u>	37		1987		Nov Dec.				
	III	IV	Oct.	Nov.	Dec.	change				
HOUSEHOLD DATA										
Johan famos 1/	101 304	The	usands of	f persons	100 100					
Total cool amont 1/	121,/80	122,316	122,128	122,349	122,4/2	123				
Intal employment 1/	114,587	115,235	114,951	115,259	115,494	235				
Civilian labor force	120,053	120,568	120,387	120,594	120,722	128				
Civilian employment	112,854	113,486	113,210	113,504	113,744	240				
Unemployment	7,199	7,082	/,1//	7,090	6,9/8	-112				
Not in labor force	62,963	62,899	62,924	62,876	62,898	22				
Discouraged workers	992	910	N.A.	N.Ą.	N.A.	N.A.				
	Percent of labor force									
Unemployment rates:										
All workers 1/	5.9	5.8	5.9	5.8	5.7	-0.1				
All civilian workers.	6.0	- 5.9	6.0	5.9	5.8	1				
Adult men	5.2	5.0	5.1	5.0	4.9	1				
Adult women	5.3	5.2	5.2	5.2	5.2	Ō				
Teenagers	16.1	16.6	17.2	16.6	16.1	5				
White	5.1	5.0	5.2	5.1	4.9	2				
Black	12.5	12.2	12.1	12.2	12.2	ō				
Hispanic origin	· 8.1	8.5	8.3	9.0	8.1	9				
ESTABLISHMENT DATA					<u>.</u>					
		The	usands of	f jobs						
Nonfarm employment	102,278	p103,267	102,983	p103,246	p103,572	p326				
Goods-producing	24,884	p25,169	25,064	p25,173	p25,270	p97				
Service-producing	77,394	p78,098	77,919	p78,073	p78,302	p229				
										
Average weekly house			OUTS OF 1	OTE						
Total private	34 9	-24 9	24 0	- 24 0	- 24 - 7					
Manufacturing	40.0	p34.0	34.9	p34.9	p34./	p-0.2				
Overtime	3 7	2 0	41.3	p41.2	p41.1	p1				
	5.7	p3.5	4.0	p3.9	p3.9	pυ				
1/ Includes the resipropriet p=preliminary.	1/ Includes the resident Armed Forces. N.A.=not available. p=preliminary.									
NOTE: Household data	have been	revised		•						

based on the experience through December 1987.

During the course of 1987, civilian employment has increased by 3.1 million, the largest annual gain since 1984. (See table A-2.)

The civilian labor force was little changed in December at 120.7 million. Over the past year, the labor force grew by 2.2 million, with adult women comprising about two-thirds of the increase.

Discouraged Workers (Household Survey Data)

The number of discouraged workers--persons who want to work but do not look for jobs because they believe that they cannot find any--declined to about 900,000 in the fourth quarter of 1987, the lowest level since the fourth quarter of 1979. The discouraged total was down by more than 200,000, or 20 percent, from a year earlier. Women and blacks continued to comprise disproportionately large shares of all discouraged workers. (See table A-14.)

Industry Payroll Employment (Establishment Survey Data)

Total nonagricultural employment rose by 325,000 in December, seasonally adjusted, to a level of 103.6 million. As has often been the case in recent years, the services industry paced the over-the-month gains, but there were also further job increases in construction and manufacturing. (See table B-1.)

Manufacturing employment grew for the sixth straight month, adding another 40,000 jobs in December. The growth was not quite as widespread as the month before, however, as two components, machinery and electrical equipment, were responsible for half of manufacturing's overall increase. Employment in the motor vehicles and equipment industry was essentially unchanged over the month but, in contrast to the trend for the whole of manufacturing, has been edging down; it is now nearly 60,000 below its early 1986 level.

Construction, up 55,000, after seasonal adjustment, ended the year with its third consecutive monthly increase. At 5.1 million, construction employment was 200,000 above a year earlier.

Within the service-producing sector, the services industry rose sharply in December, by 145,000, as business services (35,000) and health services (40,000) led the way. Wholesale trade, dominated by an increase in its durable goods component, rose 20,000. Retail trade employment, in contrast, was flat for the second consecutive month, as jobs in general merchandise stores showed a seasonally adjusted drop of 35,000 over the October-December period. Employment in finance, insurance, and real estate, which has been growing at a slower pace in recent months compared to the prior 4 years, was unchanged in December. The industry's finance component was also unchanged from November and has shown hardly any growth since July.

- 4 -

Weekly Hours (Establishment Survey Data)

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls fell 0.2 hour in December, after seasonal adjustment, to 34.7 hours. The manufacturing workweek, while slipping a tenth of an hour for the second consecutive month, was still at a very high 41.1 hours. Factory overtime, which held at 3.9 hours, also was quite high by historical standards. (See table B-2.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls edged down by 0.2 percent to 122.0 (1977=100), seasonally adjusted, reflecting the decline in the workweek. The manufacturing index was little changed, at 95.5, but has risen by 3.5 percent over the past year. (See table B-5.)

Hourly and Weekly Earnings (Establishment Survey Data)

Average hourly earnings edged down by 0.2 percent in December, seasonally adjusted, and average weekly earnings fell by 0.8 percent. Prior to seasonal adjustment, hourly earnings dropped by 1 cent to \$9.13, while weekly earnings edged up 57 cents to \$318.64. (See table B-3.)

The Hourly Earnings Index (Establishment Survey Data)

The Hourly Earnings Index (HEI) was 175.6 (1977=100) in December, seasonally adjusted, a decrease of 0.1 percent from November. For the 12 months ended in December, the index rose 2.7 percent. In dollars of constant purchasing power, the HEI decreased 1.8 percent during the 12month period ending in November. The HEI excludes the effects of two types of changes unrelated to underlying wage rate movements-fluctuations in manufacturing overtime and interindustry employment shifts. (See table B-4.)

The Employment Situation for January 1988 will be released on Friday, February 5, at 8:30 A.M. (EST).

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Revisions of Seasonally Adjusted Household Survey Data

At the end of each calendar year, the BLS routinely revises the seasonally adjusted labor force series derived from the Current Population Survey (household survey) to incorporate the experience of that year. As a result of the recalculation of the seasonal factors, seasonally adjusted data for the most recent 5 years are subject to revision. (Establishment data are similarly revised at about mid-year, concurrently with the introduction of annual benchmark adjustments.)

Revisions were minimal for the aggregate unemployment rates published during 1987. For example, the overall and the civilian worker unemployment rates for February and March each were revised by a tenth, and the overall rate also was revised by a tenth in July. The 1987 annual averages, 6.1 percent for all workers and 6.2 percent for civilian workers, are, of course, not affected by seasonal adjustment revisions. Table B presents revised seasonally adjusted data for major civilian labor force series for December 1986 through December 1987.

The January 1988 issue of Employment and Earnings will contain the new seasonal adjustment factors that will be used to calculate the civilian labor force and other major series for January-June of 1988. The publication will also contain a description of the current seasonal adjustment methodology and revised data for the most recent 13 months or calendar quarters for all regularly published tables containing seasonally adjusted household survey data. Revised monthly data for the 1983-87 revision period for 430 labor force series will be published in the February 1988 issue. Historical seasonally adjusted data (monthly and quarterly) may be purchased from the Bureau. (Contact Gloria P. Green, (202) 523-1959).

HOUSEHOLD DATA

Table B. Employment status of the civilian noninstitutional population by sex and age, essenally adjusted

(Numbers in thousands)

Emoloyment status.	1966					•	19	87					
sex, and age	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
TOTAL													
Civilian noninstitutional population ¹	181.547	181.827	181,998	162,179	182,344	182,533	182,703	182,685	183,002	183,161	183,311	163,470	183,620
Civilian labor force	118.576	118,978	119,230	119,246	119,363	119,907	119,608	119,890	120,306	119,963	120,387	120,594	120,722
Percent of population	65.3	65.4	65.5	65.5	65.5	65.7	65.5	65.6	65.7	65.5	65.7	65.7	65.7
Employed	110,657	111,014	111,344	111,455	111,808	112,334	112,300	112,639	113,050	112,872	113,210	113,504	113,744
Employment-population ratio ⁸	61.0	61.1	61.2	61.2	61.3	61.5	61.5	61.6	61.8	61.6	61.8	61.9	61.9
Unemployed	7,919	7,964	7,886	7,791	7,557	7,573	7,308	7,251	7,256	7,091	7,177	7,090	6,976
Unemployment rate	6.7	6.7	6.6	6.5	6.3	6.3	6.1	6.0	6.0	5.9	6.0	5.9	5.8
Men, 20 years and over													
Civilian noninstitutional population1	78,973	79,132	79,216	79,303	79,387	79,474	79,536	79,625	79,668	79,740	79,807	79,885	60,002
Civilian labor force	61,648	61,911	61,930	61,933	61,970	62,129	62,054	62,106	62,083	62,085	62,211	62,299	62,248
Percent of population	78.3	78.2	76.2	78.1	78.1	78.2	78.0	78.0	77.9	77.9	78.0	78.0	77.8
Employed	58,120	58,220	58,324	58,380	58,516	58,673	58,632	58,783	58,625	58,967	59,037	59,164	59,185
Employment-population ratio ²	73.6	73.6	73.6	73.6	73.7	73.8	73.7	73.8	73.8	73.9	74.0	74.1	74.0
Agriculture	2,304	2,267	2,317	2,361	2,378	2,383	2,316	2,333	2,269	2,345	2,343	2,297	2,290
Nonagricultural industries	55,816	55,933	56,007	56,019	58,138	56,290	56,318	58,450	56,536	56,622	56,694	56,667	56,687
Unemployed	3,728	3,691	3,606	3,553	3,454	3,456	3,422	3,323	3,258	3,118	3,174	3,135	3,063
Unemployment rate	6.0	6.0	5.8	5.7	5.6	5.6	5.5	5.4	5.2	5.0	5.1	5.0	4.6
Not in labor force	17,125	17,221	17,286	17,370	17,417	17,345	17,482	17,519	17,585	17,655	17,596	17,586	17,754
Women, 20 years and over													
Civilian noninstitutional population ¹	88,016	68,150	68,237	68,321	68,395	88,464	88,546	88,632	88,685	88,785	88,843	88,923	69,010
Civilian labor force	48,947	49,167	49,343	49,414	49,494	49,728	49,722	49,886	49,969	49,922	50,095	50,254	50,361
Percent of population	. 55.6	55.8	55.9	55.9	56.0	56.2	56.2	56.3	56.3	56.2	56.4	56.5	58.6
Employed	. 46,121	46,290	46,485	46,582	46,761	47,028	47,068	47,206	47,308	47,251	47,480	47,634	47,750
Employment-population ratio ²	52.4	52.5	52.7	52.7	52.9	53.2	53.2	53.3	53.3	53.2	53.4	53.6	53.6
Agriculture	. 609	625	634	602	603	629	619	620	609	600	636	636	643
Nonagricultural industries	45,512	45,665	45,851	45,980	46,158	46,399	46,469	46,585	46,599	48,651	46,844	46,996	47,10/
Unemployed	2,826	2,877	2,858	2,832	2,733	2,700	2,634	2,680	2,661	2,6/1	2,615	2,020	2,611
Unemployment rate	. 5.8	5.9	5.8	5.7	5.5	5.4	5.3	5.4	5.3	5.4	0.2	5.2	0.2
Not in labor force	. 39,065	38,983	38,894	38,907	38,901	38,736	38,824	38,746	38,/10	36,803	38,/40	38,009	38,041
Both sexes, 16 to 19 years		1								· ·			
Civilian noninstitutional population'	. 14,558	14,545	14,546	14,555	14,562	14,595	14,621	14,628	14,649	14,637	14,081	14,663	14,606
Civilian labor force	. 7,781	7,900	7,957	7,899	7,899	8.050	7,632	7,898	8,254	7,956	8,061	8,041	8,113
Percent of population	. 53.4	54.3	54.7	54.3	54.2	55.2	53.6	54.0	56.3	54,4	56.1	54.8	55.
Employed	. 6,416	6,504	6,535	6,493	6,529	6,633	6,580	6,650	6,917	6,654	6,693	6,706	6,801
Employment-population ratio*	44.1	44.7	44.6	44.6	44.8	45.4	45.0	45.5	47.2	45.5	45.7	45.7	46.0
Agriculture	. 240	262	274	274	269	257	257	259	245	239	270	239	274
Nonagricultural industries	6,176	6,242	6,261	6,219	6,260	6,376	6,323	6,391	6,672	6,415	6,423	6,467	6,63
Unemployed	1,365	1,390	1,422	1,408	1,370	1,417	1,252	1,248	1,337	1,302	1,388	1,335	1,304
Unemployment rate	17.	17.7	17.9	17.8	17.3	17.6	16.0	15.8	16.2	16.4	17.2	10.0	16.1
Not in labor force	. 6,777	6,645	6,588	6,650	6,663	6,545	6,789	6,730	6,395	6,681	8,580	0,622	0,490

¹ The population figures are not adjusted for seasonal variation.
² Civilian employment as a percent of the civilian noninstitutional population.

NOTE: Data have been revised based on the experience through December 1987.

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Explanatory Note

This news release presents statistics from two major surveys, the Current Population Survey (household survey) and the Current Employment Statistics Survey (establishment survey). The household survey provides the information on the labor force, total employment, and unemployment that appears in the A tables, marked HOUSEHOLD DATA. It is a sample survey of about 59,500 households that is conducted by the Bureau of the Census with most of the findings analyzed and published by the Bureau of Labor Statistics (BLS).

The establishment survey provides the information on the employment, hours, and earnings of workers on nonagricultural payrolls that appears in the B tables, marked ESTABLISHMENT DATA. This information is collected from payroll records by BLS in cooperation with State agencies. The sample includes over 290,000 establishments employing over 38 million people.

For both surveys, the data for a given month are actually collected for and relate to a particular week. In the household survey, unless otherwise indicated, it is the calendar week that contains the 12th day of the month, which is called the survey week. In the establishment survey, the reference week is the pay period including the 12th, which may or may not correspond directly to the calendar week.

The data in this release are affected by a number of technical factors, including definitions, survey differences, seasonal adjustments, and the inevitable variance in results between a survey of a sample and a census of the entire population. Each of these factors is explained below.

Coverage, definitions, and differences between surveys

The sample households in the household survey are selected so as to reflect the entire civilian noninstitutional population 16 years of age and older. Each person in a household is classified as employed, unemployed, or not in the labor force. Those who hold more than one job are classified according to the job at which they worked the most hours.

People are classified as *employed* if they did any work at all as paid civilians; worked in their own business or profession or on their own farm; or worked 15 hours or more in an enterprise operated by a member of their family, whether they were paid or not. People are also counted as employed if they were on unpaid leave because of illness, bad weather, disputes between labor and management, or personal reasons. Members of the Armed Forces stationed in the United States are also included in the employed total.

People are classified as unemployed, regardless of their eligibility for unemployment benefits or public assistance, if they meet all of the following criteria: They had no employment during the survey week; they were available for work at that time; and they made specific efforts to find employment sometime during the prior 4 weeks. Persons laid off from their former jobs and awaiting recall and those expecting to report to a job within 30 days need not be looking for work to be counted as unemployed.

The labor force equals the sum of the number employed and the number unemployed. The unemployment rate is the percentage of unemployed people in the labor force (civilian plus the resident Armed Forces). Table A-5 presents a special grouping of seven measures of unemployment based on varying definitions of unemployment and the labor force. The definitions are provided in the table. The most restrictive definition yields U-1 and the most comprehensive yields U-7. The overall unemployment rate is U-5a, while U-5b represents the same measure with a (villan labor force base.

Unlike the household survey, the establishment survey only counts wage and salary employees whose names appear on the payroll records of nonagricultural firms. As a result, there are many differences between the two surveys, among which are the following:

— The household survey, akhough based on a smaller sample, reflects a larger segment of the population; the establishment survey excludes agriculture, the self-employed, unpaid family workers, private household workers, and members of the resident Armed Forces;

- The household survey includes people on unpaid leave among the employed; the establishment survey does not;

- The household survey is limited to those 16 years of age and older; the stablishment survey is not limited by age;

— The household survey has no duplication of individuals, because each individual is counted only once; in the establishment survey, employees working at more than one job or otherwise appearing on more than one payroll would be counted separatery for each appearance.

Other differences between the two surveys are described in "Comparing Employment Estimates from Household and Payroll Surveys," which may be obtained from the BLS upon recuest.

Seasonal adjustment

Over the course of a year, the size of the Nation's labor force and the levels of employment and unemployment undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. For example, the labor force increases by a large number each June, when schools close and many young people enter the job market. The effect of such seasonal variation can be very large; over the course of a year, for example, seasonality may account for as much as 95 percent of the month-to-month changes in unemployment.

Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make nonseasonal developments, such as declines in economic activity or increases in the participation of women in the labor force, easier to spot. To return to the school's-out example, the large number of people entering the labor force each June is likely to obscure any other changes that have taken place since May, making it difficult to determine if the level of economic activity has risen or declined. However, because the effect of students finishing school in previous years is known, the statistics for the current year can be adjusted to allow for a comparable change. Insofar as the seasonal adjustment is made correctly, the adjusted figure provides a more useful tool with which to analyze changes in economic activity.

Measures of labor force, employment, and unemployment contain components such as age and sex. Statistics for all employees, production workers, average weekly hours, and average hourly earnings include components based on the employer's industry. All these statistics can be seasonally adjusted either by adjusting the total or by adjusting each of the components and combining them. The second procedure usually yields more accurate information and is therefore followed by BIS. For example, the seasonally adjusted figure for the labor force is the sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force.

The numerical factors used to make the seasonal adjustments are recalculated regularly. For the household survey, the factors are calculated for the January-tune period and again for the July-December period. The January tune period is applied to data that have been published over the previous 5 years. For the establishment survey, updated factors for seasonal adjustment are calculated only once a year, along with the introduction of new benchmarks which are discussed at the end of the next section.

Sampling variability

Statistics based on the household and establishment surveys are subject to sampling error, that is, the estimate of the number of people employed and the other estimates drawn from these surveys probably differ from the figures that would be obtained from a complete census, even if the same questionnaires and procedures were used. In the household survey, the amount of the differences can be expressed in terms of standard errors. The numerical value of a standard error depends upon the size of the sample, the results of the survey, and other factors. However, the numerical value is always such that the chances are approximately 66 out of 100 that an estimate based on the sample will differ by no more than the standard error from the results of a complete census. The chances are approximately 90 out of 100 that an estimate based on the sample will differ by no more than 1.6 times the standard error from the results of a complete census. At approximately the 90-percent level of confidence—the confidence limits used by 81.5 in its analyses—the error for the monthly change in total employment is on the order of plus or minus 328,000; for total unemployment it is 220,000; and, for the overall unemployment rate, it is 0.19 percentage point. These figures do not mean that the sample results are off by these magnitudes but, rather, that the chances are approximately 90 out of 100 that the "true" level or rate would not be expected to differ from the estimates by more than these amounts.

Sampling errors for monthly surveys are reduced when the data are cumulated for several months, such as quarterly or annually. Also, as a general rule, the smaller the estimate, the larger the sampling error. Therefore, relatively speaking, the estimate of the size of the labor force is subject to less error than is the estimate of the number unemployed. And, among the unemployed, the sampling error for the jobless rate of adult men, for example, is much smaller than is the error for the jobless rate of teenagers. Specifically, the error on monthly change in the jobless rate for men is .26 percentage point; for teenagers, it is 1.25 percentage points.

In the establishment survey, estimates for the 2 most current months are based on incomplete returns; for this reason, these estimates are labeled preliminary in the tables. When all the returns in the sample have been received, the estimates are published in preliminary form in October and November and jublished in preliminary form in October and November and over time, a comprehensive count of the employed is conducted each year. The results of this survey are used to establish new benchmarks—comprehensive counts of measured. The new benchmarks also incorporate changes in the classification of industries and allow for the formation of new establishments.

Additional statistics and other information

In order to provide a broad view of the Nation's employment situation, BLS regularly publishes a wide variety of data in this news release. More comprehensive statistics are contained in *Employment and Earnings*, published each month by BLS. It is available for \$8.50 per issue or \$22.00 per year from the U.S. Government Printing Office, Washington, D.C., 20204. A check or money order made out to the Superintendent of Documents must accompany all orders.

Employment and Earnings also provides approximations of the standard errors for the household survey data published in this release. For unemployment and other labor force categories, the standard errors appear in tables B through J of its "Explanatory Notes." Measures of the reliability of the data drawn from the establishment survey and the actual amounts of revision due to benchmark adjustments are provided in tables M, O, P, and Q of that publication.

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Table A-1. Employment status of the population, including Armed Forces in the United Status, by sex

(Numbers in thousands)

	Not set	ecnelly at	lusted	Seasonally adjusted					
Employment status and six	Dec. 1986	Nov. 1987	Dec. 1987	Dec. 1986	Aug. 1967	Sept. 1987	Oct. 1987	Nov. 1987	Dec. 1987
TOTAL									
Non-traditional manufactional	163.297	165.225	185,370	183,297	184,738	184,904	165,052	185,225	185,370
I shoe formal	119,799	122,366	121,958	120,326	122,042	121,708	122,128	122,349	122,4/2
Pericipation rate	65.4	66.1	65.8	65.6	66.1	65.8	66.0		66.1
Total anticond	112,338	115,584	115,429	112,407	114,786	114,615	114,901	115,209	115,484
Employment-occutation ratio"	61.3	62.4	62.3	61.3	62.1	62.0	1 741	1 755	1 750
Resident Armed Forces	1,750	1,755	1,750	1,750	1,736	1,/43	112 210	112 504	113 744
Civilian employed	110,588	113,809	113,679	110,657	113,050	2 184	3 249	3 172	3,215
Agriculture	2,828	3,020	2,8/4	3,153	100.007	100 688	100.051	110 332	110.529
Nonegricultural industries	107,762	110,789	110,805	7.010	7 268	7 001	7 177	7.090	6,978
Unemployed	7,461	0,002	6,520	1,316	5.0	5.8	5.9	5.8	5.7
Unemployment rate"		0.0		82 071	62 696	63,198	82,924	62,876	62,898
Not in labor force	63,486	02,000	60,414						
Men, 18 years and over									
Non-locally diseased many defined	87.868	88.849	68.924	67,868	68,596	68,683	68,756	88,849	88,924
Noninastional population	66,950	67,753	67,565	67,409	67,937	67,776	67,947	68,019	68,030
Performance rate ²	76.2	76.3	76.0	76.7	76.7	76.4	76.6	76.6	76.5
Total employed	62,568	64,084	63,854	62,960	63,916	63,949	64,048	04,1/4	04,243
Employment-population ratio*	71.2	72.1	71.8	71.7	72.1	72.1	122	122	1 600
Resident Armed Forces	1,593	1,593	1,589	1,593	1,575	1,561	1,000	1,003	62 656
Civilian employed	60,975	62,491	62,265	61,367	62,341	02,300	02,400	3845	3 785
Unemployed	4,382	3,669	3,711	4,449	4,021	3,647	3,000	57	5.6
Unemployment rate*	6.5	5.4	0.5	0.0	3.9	0.0	0.7		
Women, 16 years and over				ļ					ļ
All and a stand and and a standard	05 429	98.378	95,445	95,429	96,140	96,221	96,295	96,376	96,448
	52.849	54.613	54.391	52,917	54,105	53,930	54,181	54,330	54,442
Participation min ²	55.4	58.7	56.4	55.5	56.3	56.0	66.3	56.4	56.4
Total antiquer	49,770	51,480	51,575	49,447	50,870	50,666	50,903	51,085	51,244
Employment-coolition (\$50"	52.2	53.4	53.5	51.8	52.9	52.7	62.0	53.0	53.1
Resident Armed Forces	. 157	162	161	157	161	162	161	162	10
Civilian employed	49,613	51,318	51,414	49,290	50,709	50,504	00,742	00,023	2 10
Unemployed	. 3,079	3,133	2,816	3,470	3,235	3204	3,2/6	3,245	50
Unemployment rate*	. 5.8	5.7	5.2	6.6	6.0	0.1		0.0	
	1		1	1					

¹ The population and Armed Forces figures are not adjusted for sessonal variation; therefore, identical numbers appear in the unadjusted and seasonally adjusted columns. ² Includes members of the Armed Forces stationed in the United

⁴ Total employment as a percent of the noninstitutional population. ⁹ Unemployment as a percent of the labor force (including the resident Armad Forces). NOTE: Sessonally adjusted data have been revised based on the experience Strough December 1987.

States. ³ Labor force as a percent of the noninstitutional population.

Table A-2. Employment status of the civilian population by sex and age

(Numbers in thousands)

·	Not se	eeonally s	djusted	Seasonally adjusted ¹						
Employment status, eex, and age	Dec. 1966	Nov. 1987	Dec. 1967	Dec. 1986	Aug. 1987	Sept. 1987	Oct. 1987	Nov. 1987	Dec. 1987	
TOTAL										
Civilian noninstitutional population	181,547	183,470	183.620	181.547	183.002	183,161	183.311	183 470	183 620	
Civilian labor force	118.049	120.611	120 206	118 576	120.306	119.963	120 387	120 594	120 722	
Participation rate	65.0	65.7	85.5	65.3	65.7	A5.5	85.7	85.7	85.7	
Employed	110.588	113 809	113 679	110 657	113.050	112 872	113 210	112 504	112 744	
Employment-population ratio*	60.9	62.0	81.0	61.0	61.6	818	41.0	113,504	113,744	
Unemployed	7 461	6 802	8638	7 010	7 360	7 001	7	7,000	01.9	
Unemployment rate	6.3	5.6	5.4	6.7	6.0	5.9	6.0	5.9	5.8	
Men, 20 years and over										
Civilian noninetitutional population	78 973	70 885	80.002	78.073	70 668	70 740	70 907	70.006		
Civilian labor force	61 665	62 288	82 075	61 848	62,000	82.085	62 211	19,005	80.002	
Participation rate	78 1	78.0	77.4	79.2	77.0	02,005	200	02,299	02,240	
Employed	67.060	60.000	50 005	50.00	11.8	11.0	10.0	78.0	//.8	
Employment-onnulation ratio?	73.4	74.2	30,035	30,120	30,825	58,967	59,037	59,164	59,185	
Agriculture	73.4	1 100	/3.8	73.0	73.8	73.9	74.0	74.1	74.0	
Nonegricultural industrias	2,120	6,234	2,121	2,304	2,289	2,345	2,343	2,297	2,298	
linempioed	35,831	57,056	56,914	55,816	56,536	56,622	56,694	56,667	56,887	
Unemployment rate	3,706	2,999	3,040	3,728	3,258	3,118	3,174	3,135	3,063	
Women, 20 years and over										
Civilian noninstitutional population	88.016	89.923	80.010	PR 018		00 705			-	
Civilian labor force	49.067	50,620	50,400	48.047	40,003	40,765	68,843	00,923	89,010	
Participation rate	40,037	67.0	64.7	40,947	49,909	49,922	50,045	50,254	50,361	
Fmployed	48 510	49 100	49.149	35.0	50.3	00.2	00.4	56.5	56.6	
Employment-population ratio	40,512	40,100	40,140	40,121	47,308	47,251	47,480	47,534	47,750	
Acricultura	32.0	04.2	59.1	02.4	53.3	53.2	53.4	53.6	53.6	
Nonegric dt real inclustries	343	17.549	5/8	609	609	800	636	636	643	
Inemoined	43,900	47,542	47,508	45,512	46,699	46,651	46,844	46,996	47,107	
Unemployment rate	5.2	2,525	2,340	2,820	2,661	2,671	2,615	2,620	2,611	
Both sexes, 16 to 19 years										
Civilian noninstitutional population	14 658	14 662	14 600	14 559	14.840	44.007				
Civilian labor force	7 327	7 632	7 830	7 781	8 264	7.064	19,001	19,003	14,009	
Participation rate	50.2	62 1	52.2	52.4	6,2,34	1,000	0,001	8,041	8,113	
Employed	6 117	8 354	8,400	8 410	20.3	34.4	35.1	34.5	30.5	
Employment-population ratio*	42.0	42.9	0.490	0,416	0,91/	0,654	0,693	6,706	6,809	
Agriculture	46.0	43.3	44.0	44.1	47.2	45.5	45.7	45.7	48.6	
Nonactic th rai inclustries	5 00 1	162	1/5	240	245	239	270	239	274	
Inempired	0,004	0,192	0.323	0,1/0	0,672	6,415	6,423	6,487	6,535	
Unemployment rate	16.5	1,279	1,141	1,365	1,337	1,302	1,388	1,335 16.6	1,304	

¹ The population figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unadjusted and seasonally adjusted columns.
² Civilian employment as a percent of the civilian noninstitutional

population. NOTE: Seasonally adjusted data have been revised based on the experience through December 1987.

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Table A-3. Employment status of the civilian population by race, eax, ege, and Hispanic origin

(Numbers in thousands)

	Not set	eonally a	djusted	Sessonally adjusted						
Employment status, race, etx, age, and Hispanic origin	Dec. 1985	Nov. 1987	Dec. ['] 1987	Dec. 1996	Aug. 1987	Sept. 1987	Oct. 1987	Nov. 1987	Dec. 1987	
WHITE										
Civilian noninstitutional population	156,111	157,449	157,552	156,111	157,134	157,242	157,342	157,449	157,552	
Civilian labor force	101,983	103,729	103,443	102,474	103,516	103,357	103,669	103,731	103,907 66 D	
Participation rate	05.3	00.00	98,639	96.544	96.181	98.069	98.317	98,492	98,779	
Employed	61.7	62.7	62.6	61.8	62.5	62.4	62.5	62.6	62.7	
Unemployed	5,596	5,031	4,804	5,930	5,335	5,288	5,352	5,239	5,128	
Unemployment rate	5.5	4.9	4.6	5.8	5.2	5.1	5.2	9.1	4.9	
Men, 20 years and over								E 4 791	64.000	
Civilian labor force	53,970	54,349	54,197	54,157	54,183	54,213	78.4	78.3	78.2	
Participation rate	51 094	52 050	51.873	51,284	51,715	51,803	51,864	51,969	52,046	
Employed	74.3	75.0	74.6	74.6	74.7	74.7	74.B	74.9	74.9	
Unemployed	2,876	2,298	2,323	2,873	2,468	2,410	2,511	2,412	2.322	
Unemployment rate	5.3	4.2	4.3	5.3	4.6	4.4	4.6	4.4	4.3	
Women, 20 years and over		1		1						
Civilian labor force	41,619	42,850	42,859	41,540	42,332	42,308	42,379	42,464	42,569	
Participation rate	55.2	56.3	56.0	20 510	40 440	40 400	40 538	40 606	40 712	
Employed	52.8	54.0	53.8	52.4	53.3	53.2	53.3	53.4	53.5	
Linemployed	1,812	1,792	1,655	2,030	1,883	1,899	1,841	1,858	1,857	
Unemployment rate	4.4	4.2	3.9	4.9	4.4	4.5	4.3	4.4	4.4	
Both sexse, 16 to 19 years									4.070	
Civilian labor force	6,394	6,531	55.3	57.0	58.5	57.2	57.9	57.7	58.6	
Participation rate	5,486	5.590	5,761	5,750	6,017	5,857	5,915	5,917	6,021	
Employment-population ratio ²	46.1	46.6	48.4	48.4	50.3	49.0	49.5	49.6	50.6	
Unemployed	908	941	826	1,027	964	979	1,000	969	949	
Unemployment rate	14.2	14.4	12.5	15.2	14.1	14.3	15.1	14.6	14.9	
Women	12.3	13.7	10.0	14.5	12.9	13.4	13.8	13.3	12.3	
BLACK		1		i i					ļ	
Of the assist the time I not father	20 152	20.482	20.508	20.152	20,396	20,426	20,453	20,482	20,508	
Civilian labor force	12,596	13,178	13,127	12,706	13,150	13,028	13,152	13,193	13,215	
Participation rate	62.5	64.3	64.0	63.1	64.5	63.8	64.3	64.4	64.4	
Employed	10,980	11,632	11,631	10,968	11,513	11,421	11,556	11,569	11,605	
Employment-population ratio	1 618	1 545	1.496	1,738	1.637	1.607	1.596	1.604	1,610	
Unemployment rate	12.8	11.7	11.4	13.7	12.4	12.3	12.1	12.2	12.2	
Map. 20 years and over	ļ	1	1							
Civilian labor force	. 5,932	6,053	6,026	5,952	6,054	6,032	6,023	6,045	6,043	
Participation rate	. 74.3	74.6	74.1	74.6	74,9	74.5	74.3	5430	5420	
Employed	5,249	67.2	68.8	65.8	66.9	67.0	67.0	66.9	66.8	
Employment-population ratio	683	599	595	702	647	611	592	615	613	
Unemployment rate	. 11.5	9.9	9.9	11.8	10.7	10,1	9.6	10.2	10.1	
Women, 20 years and over		1		1			1			
Civilian labor force	5,908	6,252	6.241	5,905	6,122	6,067	6,177	6,207	610	
Participation rate	. 58.9	61.3	5.626	5,180	5.430	5,357	5,495	5,537	5,544	
Employee	52.4	54.9	55.1	51.6	53.5	52.7	54.0	54.3	54.3	
Unemployed	657	659	615	725	692	710	682	670	680	
Unemployment rate	. 11.1	10.5	9.9	12.3	11.3	11.7	11.0	10.8	10.9	
Both aexes, 16 to 19 years							000		040	
Civilian tabor force	35.4	872	39.6	39.6	449	428	43.8	43.3	43.7	
Fanicyed	480	585	575	538	676	643	630	622	631	
Employment-population ratio*	22.4	26.9	28.5	25.1	31.2	29.6	29.0	28.6	29.1	
Unemployed	. 275	287	285	311	296	286	322	319	317	
Unemployment rate	. 36.8	32.9	33.2	36.6	30.8	30.8	325	32.9	33.4	
Women	35.2	33.7	31.2	37.1	27.1	30.0	35.2	35.8	33.4	
		1					I	1	1	
Can instantes at and of table										

See footnotes at end of table

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Table A-3. Employment status of the civilian population by race, eax, age, and Hispanic origin -Contin

(Numbers in thousands)

Employment status, rice, sex, age, and Hispanic origin	Not se	accountly a	queted	Sessonally adjusted						
	Dec. 1985	Nov. 1987	Dec. 1987	Dec. 1986	Aug. 1987	Sept. 1967	Oct. 1997	Nov. 1987	Dec. 1967	
HISPANIC ORIGIN Civilian noninstitutional population Civilian labor force Participation rate	12,540 8,235 65.7	13,043 8,788 67.4	13,062 8,685 66.4	12,540 8,328 66.4	12,925 8,549 66.1	12,965 8,581 66.2	13,003 8,654 66.6	13,043 8,763 67.2	13.082 8,772 87,1	
Employed Employment-population ratio [*] Unemployed Unemployment rate	7,406 59.1 829 10.1	8,002 61.4 786 8.9	8,002 61.2 684 7.9	7,480 59.5 868 10.4	7,856 60.8 693 8.1	7,877 60.8 704 8.2	7,935 61.0 719 8.3	7,978 61.2 785 9.0	8,058 61.6 714 8.1	

¹ The population figures are not adjusted for sessonal vanistor; therefore, identical numbers appear in the unadjusted and sessonally adjusted obtainmes. ¹ Ovilian employment as a percent of the divilian noninstitutional

NOTE: Detail for the above race and Hispanio-origin groups will not sum to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups. Sessonally adjusted data have been revised based on the experience through Decomber 1997.

Table A-4. Selected employment indicators

(in thousands)

		econally a	djusted	Seeconsity adjusted					
	Dec. 1996	Nov. 1967	Dec. 1987	Dec. 1988	Aug. 1987	Sept. 1987	Oct. 1987	Nov. 1987	Dec. 1967
CHARACTERISTIC									
Civilian employed, 16 years and over	110 588	112 000	113 070						
Married men, appuse organit	40.065	40.070	40,707	10,007	113,050	112,8/2	113,210	113,504	113,744
Married women, acquee cresent	27 805	20,679	20,707	40,062	40,308	40,404	40,556	40,645	40,711
Women who maintain families	5,965	6,218	6,239	5,958	6,107	28,069	6,178	8,237	8,249
MAJOR INDUSTRY AND CLASS OF WORKER									
Agriculture:									
Wace and salary workers	1 417	1 402	1 400						
Self-employed workars	1 202	1 984	1,403	1,020	1,591	1,624	1,705	1,595	1,599
Unpaid family workers	117		1350	1,367	1,393	1,415	1,430	1,407	1,450
Noneoricultural industries:	•••	144	121	149	150	139	140	155	156
Wage and salary workers	00.420	102 245	100 000	00,007					
Government	14 599	102,243	17.000	09,197	101,241	101,262	101,522	101,943	101,997
Private industries	83 843	84.028	17,200	16,458	16,794	16,928	17,033	17,118	17,064
Privata househoide	1 187	1,044	65,035	02,739	64,44/	64,354	84,489	84,825	64,933
Other industries	01 675	82.604	97,000	1,225	1,175	1,100	1,222	1,286	1,200
Self-employed workers	8,089	63,044	03,040	01,514	83,272	83,254	83,267	83,539	B3,733
Unpaid family workers	243	228	249	241	6,214 248	6,204 297	8,274	8,222	8,280
PERSONS AT WORK PARY TIME'					•				
All industries:									
Part time for economic reasons	5 494	6.430	5100	6 500	5 000				
Slack work	2 508	3,430	3,100	0,092	5,263	5,261	5,353	5,534	5,262
Could only find pert-time work	2 758	2,500	2,32/	2,439	2,466	2,213	2,377	2,408	2,264
Voluntary part time	14,805	15,639	15,691	13,860	14,573	2,063	14,488	2,698	2,638
Nonegricultural industries:									
Part time for economic reasons	5 226	5 152	4 910	5 224	5 014	4 000			
Slack work	2 313	2 203	2 1 2 2	3,324	5,016	4,986	5,067	5,241	5,004
Could only find part-time work	2 680	2,510	2,133	2,701	2,200	2,034	2,196	2,209	2,111
Voluntary pert time	14,449	15,232	15,238	13,459	2,463	2,603	2,557	2,597	2,552
······································									

¹ Excludes persons "with a job but not at work" during the survey period for such reasons as vacation, liness, or industrial dispute.

NOTE: Seasonally adjusted data have been revised based on the experience through December 1987.

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or force, seasonally adjusted at and the lat Table A-5. Range of unemployment measures based on varying definiti

 	_
 	_

			Quart	erly aver			Mo	nthiy de	ta
	Measure	1986		. 19	87		-	1987	
		_IV			- 19	N	Oct	Nov.	Dec.
U-1	Persons unemployed 15 weeks or longer as a percent of the civilian labor force	1.9	1.8	1.7	1.6	1.5	1.5	1.5	1.5
U-2	Job losers as a percent of the civilian labor force	3.3	3.2	3.0	2.8	2.7	2.8	2.7	2.7
uэ	Unemployed persons 25 years and over as a percent of the civilian labor force	5.4	5.1	4.8	4.6	4.5	4.8	4.5	4.5
U4	Unemployed full-time jobseekers as a percent of the full-time civilian labor force	6.5	6.2	5.9	5.6	5.5	5.6	5.5	5.4
U-64	Total unemployed as a percent of the labor force, Including the resident Armed Forces	6.8	6.5	6.2	5.9	5.8	5.9	5.8	5.7
U-61	Total unemployed as a percent of the civilian labor force	6.8	6.6	6.3	6.0	5.9	6.0	5.9	5.8
U-8	Total full-time jobseekans plus 1/2 part-time jobseekans plus 1/2 total on part time for economic reasons as a percent of the civilian labor force less 1/2 of the part-time tabor force	9.2	9.0	8.5	8.2	8.1	8.2	8.2	8.0
U-7	Total full-time jobseekers plus 1/2 part-time jobseekers plus 1/2 total on part time for economic reasons plus discouraged workers as a percent of the civilian labor force plus discouraged workers less 1/2 of the part-time labor force	10.2	9.9	9.3	9.0	8.8	NA	NA	NA

N.A. = not available. NOTE: Data have been revised based on the experience through December 1997.

Table A-6. Selected unemployment indicators, seasonally adjusted

Catagory) unemi (în	lumber of ployed per thousand	sons I)		U	nemployn	sent rates		
	Dec. 1986	Nov. 1987	Dec. 1967	Dec. 1986	Aug. 1987	Sept. 1967	Oct. 1987	Nov. 1987	Dec. 1987
CHARACTERISTIC									
Total, 18 years and over Men, 15 years and over Men, 20 years and over Women, 20 years and over Both sexts, 16 to 19 years Martid men, spouse present Martid women, spouse present Yomen who martain fimilies Full-time workers Pat-lime workers Labor foors time lost ⁴	7,919 4,449 3,728 3,470 2,826 1,365 1,617 1,353 662 6,481 1,459	7,090 3,845 3,135 3,245 2,620 1,335 1,487 1,247 579 5,684 1,415	6,978 3,785 3,063 3,193 2,611 1,304 1,441 1,275 569 5,601 1,396 	6.7 6.8 6.0 8.6 5.8 17.5 4.3 4.7 10.0 6.4 8.8 7.6	6.0 6.1 5.2 6.0 5.3 16.2 3.7 4.3 9.0 5.8 8.2 6.9	5.9 5.8 5.0 6.1 5.4 16.4 3.7 4.2 8.8 5.5 8.4 6.8	6.0 5.9 5.1 6.1 5.2 17.2 3.7 4.2 6.9 5.6 8.3 6.8	5.9 5.8 5.0 5.2 16.6 3.5 4.2 8.5 5.5 6.2 6.8	5.8 5.7 4.9 5.9 5.2 16.1 3.4 4.3 8.4 5.4 8.0 6.6
INDUSTRY Nonsgricultural private wage and salary workers	5,981 130 818 1,504 849 855 296 1,658 1,585 598 211	5.243 62 664 1.150 616 534 277 1.545 1.545 611 200	5,096 71 863 1,106 608 500 289 1,423 1,544 565 196	6.7 13.9 13.5 6.9 6.5 7.8 4.6 7.3 5.1 3.5 11.5	6.0 8.6 11.3 5.6 5.5 5.8 4.4 7.0 4.7 3.7 10.6	5.9 7.4 11.9 5.6 5.4 5.9 4.1 6.4 4.8 3.4 8.6	5.9 8.3 11.2 5.7 5.2 8.5 4.4 6.5 4.7 3.3 10.6	5.8 7.0 10.8 5.3 4.8 5.9 4.5 6.0 4.8 3.4 11.1	5.7 8.0 10.6 5.1 4.8 5.6 4.6 6.2 4.8 3.2 10.9

Unemployment as a percent of the civilian labor force.
 Aggregate hours lost by the unemployed and persons on part time for

economic reasons as a percent of potentially available labor force hours. NOTE: Data have been revised based on the experience through December 1987. 11

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HOUSEHOLD DATA

Table A-7. Duration of unemployment

HOUSEHOLD DATA

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(Numbers in thousands)

	Not so	seenally a	Queled			Dessonali	y adjusted	1	_
Weeks of anomployment	Dec. 1995	Nov. 1967	Dec." 1967	Dec. 1986	Aug. 1967	Sept. 1987	Oci. 1987	Nov. 1987	Dec. 1987
DURATION									
Less then 5 weeks	2,072 2,443 2,048 954 1,082 16.4	8,131 2,039 1,633 770 663 14.0	2,871 1,091 1,085 813 851 14.8	3,835 2,403 2,184 1,042 1,152 15.0	3,203 2,142 1,895 834 1,082 14,3	9,220 1,949 1,904 917 987 14.2	3,223 2,093 1,801 844 967	8,218 9,029 1,854 835 835	3,229 1,908 1,791 882 889 14,8
Median duration, in weeks	7.5	5.9	6 3	- 7.1	8.4	6.8	6.2	6.1	6.0
Total unergologied	100.0 30.8 32.7 27.4 12.8 14.8	100.0 46.0 80.0 84.0 11.3 12.7	100.0 44.0 30.5 25.5 12.5 13.0	100.0 42.0 30.3 27.7 13.1 14.5	100.0 44.2 29.6 26.2 11.6 14.7	100.0 45.5 27.8 25.8 13.0 14.0	100.0 48.3 29.4 25.3 11.9 13.4	100.0 48.4 29.7 25.8 12.7 13.2	100.0 46.2 26.2 25.6 12.8 12.9

NOTE: Sessionally adjusted data have been revised based on the experience through December 1967.

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. Table A-8. Resson for unemployment

(Numbers in thousands)

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	Not ee	consily a	Queled			Seecond	y adjusies	1	
Research	Dec.	Nov.	Dec.	Dec.	Aug.	Sept.	Oct.	Nov.	Dec.
	1995	1997	1967	1988	1987	1967	1987	1987	1987
NUMBER OF UNEMPLOYED									
Job losers	3,936	\$,171	3,806	8,913	3,380	3,313	3,308	3,307	3,200
	1,126	825	909	1,064	874	820	944	878	855
	2,810	2,346	2,297	2,849	8,515	2,493	2,444	2,429	2,344
	929	950	858	1,024	902	961	960	928	945
	1,795	1,929	1,736	2,006	1,989	1,908	1,645	1,974	1,945
	601	752	727	890	855	862	914	855	909.
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0-	100.0	100.0	100.0
	52.0	46.8	49.1	49.3	47.0	46.8	47.7	46.8	45.7
	16.1	12.1	13.9	13.4	12.1	11.6	13.3	12.4	12.2
	37.7	34.5	35.2	36.9	34.9	35.2	34.4	34.4	33.5
	12.5	14.0	13.1	12.9	13.8	13.6	13.5	13.1	13.5
	24.1	28.4	28.6	25.3	27.3.	26.9	28.0	28.0	27.8
	10.7	11.1	11.1	12.5	11.9	12.5	12.9	12.1	13.0
GTINLARI LABOR POINCE Job leaves Reentranta New entranta	3,4	2.6	2.7	8.3	2,8	28	2.8	2.7	2.7
	,8	.8	.7	.9	.8	.8	_8	.8	.8
	1,5	1.6	1.4	1.7	1,8	1.8	1.5	1.6	1.8
	,7	.6	.8	.8	.7	.7	_\$.7	.8

NOTE: Seasonally adjusted data have been revised based on the experience through December 1987.

Table A-8. Unemployed persons by sex and age, essentially adjusted

HOUSEHOLD DATA

	li unamp (in	lumber of sloyed per thousand	aona I)		Unemployment rates'						
	Dec. 1986	Nov. 1987	Dec. 1987	Dec. 1986	Aug. 1967	Sept. 1987	Oct. 1987	Nov. 1987	Dec. 1987		
Total, 16 years and over	7,919 3,001 1,365 634 731 1,636 4,913	7,090 2,641 1,335 649 691 1,306 4,442	6,978 2,547 1,304 613 688 1,243 4,412	8.7 13.0 17.5 19.1 16.3 10.7 5.1	6.0 11.8 16.2 18.3 14.7 9.4 4.7	5.9 11.8 16.4 18.3 15.2 9.4 4.6 4.8	6.0 11.8 17.2 20.4 14.7 8.8 4.8	5.9 11.6 16.6 19.2 14.8 8.9 4.5 4.7	5.8 11.2 16.1 17.8 14.7 8.5 4.5 4.5		
25 to 54 years	4,393	3,900 513	488	3.5	3.2	3.3	3.1	3.4	3.2		
Man, 16 years and over	4,449 1,623 721 319 398 902	3,645 1,414 710 356 355 704	3,785 1,378 722 347 367 658	6.8 13.5 18.2 19.0 17.2 11.2	6.1 12.5 17.8 20.5 15.9 9.6 4.7	5.8 12.1 17.3 19.7 15.9 9.3 4.5	5.9 12.1 17.4 20.9 14.8 9.2 4.5	5.8 12.0 17.2 20.4 14.8 9.2 4.4	5.7 11.7 17.2 19.3 15.3 8.7 4.4		
25 years and over	2,810 2,462 347	2,419 2,109 313	2,390 2,112 282	5.5 3.9	4.9 3.4	4.7 3.2 8.1	4.8 3.1	4.6 3.5 6.0	4.6 3.2 5.9		
Women, 16 years and over 16 to 24 years 16 to 19 years 16 to 17 years 16 to 17 years	3,470 1,378 644 315 333	3,245 1,227 625 293 336	1,169 582 266 321	12.5 16.9 19.1 15.3	11.0 14.4 16.0 13.4	11.5 15.4 16.9 14.4	11.5 16.9 19.9 14.6	11.2 16.0 17.9 14.7	10.7 14.8 16.2 14.1		
20 to 24 years	734 2,103 1,931 176	602 2,023 1,600 200	587 2,022 1,827 206	10.2 5.0 5.4 2.9	9.0 4.7 5.0 2.9	9.4 4.7 4.9 3.5	4.7 4.9 3.1	4.7 4.9 3.2	4.7 4.9 3.3		

¹ Unemployment as a percent of the civilian labor force. NOTE: Data have been revised based on the experience through December 1987.

Table A-10. Employment status of black and other workers

(Numbers in thousands)

	Not see	eonally a	djusted		8	essonally	edjusted'		
Employment status	Dec.	Nov.	Dec.	Dec.	Aug.	Sept.	Oct.	Nov.	Dec.
	1986	1987	1987	1966	1987	1987	1987	1987	1987
Civilian noninstitutional population Ovilian labor force Participation rate Employment-population rate" Unemployment rate Not in labor force	25,436	28,021	26,058	25,436	25,868	25,919	25,969	26,021	28,068
	16,065	18,882	16,753	16,163	18,697	16,594	16,755	16,869	16,853
	63,2	64,9	64.3	63.5	64.5	64.0	64,5	64.8	64.7
	14,200	15,112	15,040	14,174	14,804	14,778	14,948	15,017	15,008
	55,8	58,1	57.7	55.7	57.2	57.0	57,8	57.7	57.6
	1,865	1,771	1,723	1,969	1,893	1,816	1,809	1,852	1,845
	11,6	10,5	10.3	12.3	11.3	10.9	10,8	11.0	10.9
	9,371	9,139	9,305	9,273	9,171	9,325	9,214	9,152	9,215

¹ The population figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unadjusted and seasonally adjusted columns. ¹ Civilian employment a a percent of the civilian noninstitutional

population. NOTE: Seasonally adjusted data have been ravised based on the experience through December 1987.

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HOUSEHOLD DATA

Table A-11. Occupational status of the employed and unemployed, not assessmally adjusted

(Numbers in thousands)

	Civilian e	employed	Unem	ployed	Unemploy	ment rate
Occupation	Dec.	Dec.	Dec.	Dec.	Dec.	Dec.
	1966	1987	1986	1967	1986	1987
Total, 16 years and over'	110,588	113,679	7,461	6,526	6.3	5.4
Managerial and professional specialty	27,325	28,519	584	605	2.1	2.1
	12, 869	13,546	287	342	2.2	2.5
	14,457	14,972	297	263	2.0	1.7
Technical, sales, and administrative support	35,016	35,929	1,421	1,329	3.9	3.6
	3,330	3,393	107	93	3.1	2.7
	13,853	13,932	566	564	4.1	3.9
	17,833	18,605	728	671	3.9	3.5
Service occupations	14,886	15,250	1,302	1,148	8.0	7.0
	990	921	68	60	6.5	6.1
	1,872	1,947	116	78	5.8	3.7
	12,024	12,383	1,117	1,011	8.5	7.5
Precision production, oraît, and repair	13,449	13,431	963	738	6.7	5.2
	4,282	4,347	236	172	5.2	3.8
	4,925	5,035	462	408	8.9	7.5
	4,242	4,050	245	160	5.5	3.8
Operators, fabricators, and laborers	17,020	17,554	2,063	1,667	10.8	8.7
	7,689	8,023	876	683	10.2	7.9
	4,652	4,671	448	380	8.8	7.5
	4,679	4,661	741	604	13.7	11.0
	658	785	206	193	24.1	19.7
	4,021	4,076	533	411	11.7	8.2
Farming, forestry, and fishing	2,892	2,996	268	286	9.1	6.7

* Persone with no previous work experience and those whose last job was in the Armed Forces are included in the unemployed total.

Table A-12. Employment statue of male Vietnam-era veterane and nonveterane by age, not essaonally adjusted

(Numbers in thousands)

	СМ	iien				Civilian la	bor force			
Veleran statue	nonineti popul	itutional letion						Unemp	loyed	
and ege			То		Empl	oyed	Num	iber	Perce	int of
	Dec. 1986	Dec. 1987	Dec. 1986	Dec. 1967	Dec. 1986	Dec. 1967	Dec. 1995	Dec. 1987	Dec. 1996	Dec. 1987
VIETNAM-ERA VETERANS										
Total, 30 years and over 30 to 44 years 30 to 34 years 35 to 39 years 40 to 44 years 40 to 44 years 40 to 44 years 45 years and over	7,792 6,314 1,045 2,857 2,412 1,478	7,963 6,063 613 2,402 2,968 1,780	7,256 6,043 990 2,748 2,307 1,213	7,242 5,786 768 2,304 2,716 1,456	6,901 5,721 911 2,602 2,208 1,180	6,902 5,481 687 2,185 2,609 1,421	355 322 79 144 99 33	340 305 79 119 107 35	4.9 6.3 8.0 5.2 4.3 2.7	4.7 5.3 10.3 5.2 3.9 2.4
NONVETERANS Total, 30 to 44 years	18,896 8,653 5,946 4,267	19,908 8,974 6,501 4,433	17,841 6,220 5,609 4,012	18,727 8,487 6,113 4,127	16,901 7,759 5,307 3,835	17,943 8,091 5,896 3,966	940 461 302 177	784 396 227 161	5.3 5.6 5.4 4.4	4.2 4.7 3.7 3.9

NOTE: Male Vietnam-era vetorans are man who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonvetorans are man who have never served in the Armed Forces; published data are limited to

those 30 to 44 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

Table A-13. Employment status of the civilian population for eleven large States

(Numbers in thousands)

	Not see	eonally solu	'bete			Seasonally	adjusted*		
State and employment status	Dec. 1966	Nov. 1987	Dec. 1987	. Dec. 1986	Aug. 1987	Sept. 1987	Oct. 1967	Nov. 1987	Dec. 1987
California									
Chillen conjustibilional consistion	20.314	20,731	20,766	20,314	20,624	20,660	20,695	20,731	20,766
Civilian labor force	13,389	13,918	13,872	13,476	13,775	13,823	13,801	13,920	13,976
Employed	12,548	13,201	13,194	12,509	13,036	13,026	12,979	13,191	13,247
Unemployed	843	717	676	907	739	797	622	737	120
Unemployment rate	6.3	5.1	4,9	6.7	5.4	5.8	6.0	5.3	5.2
Florida									
Civilian noninstitutional population	9,285 5,722	9,521 5 929	9,541	9,285	9,460 5,651	9,480 5,868	9,500 5,961	9,521	9,541 5,996
	6 458	5.628	5,701	5.449	5.519	5.574	6,679	5,637	5,688
Employed	264	303	297	277	332	294	282	309	312
Unemployment rate	4.6	5.1	5.0	4.8	5.7	5.0	4.7	5.2	5.2
tilinois									
Civilian noninstitutional population	8,067	8,890	8,691	8,667	6,686	8,687	8,688 5,628	8,690 5,713	8,691 5,701
Civilian labor force	0,014	5 242	5,670	6 222	5,409	5.434	5.446	5.322	5,272
Employed	0,623	0,040	303	420	410	370	382	391	429
Unemployed		301		74	70	64	6.6	6.6	7.5
Unemployment rate		0.3	0.9	"~					
Mesenchusetts							4 678	4.678	4 577
Civilian noninstitutional population	4,559	4,576	4.577	4,000	4,5/3	0.071	9,075	3,079	3.074
Civilian labor force	3,056	3,065	3,075	3,052	3,097	3,051	3,107	2,078	3,074
Employed	2,980	3,013	2,993	2,950	3,005	2,9/5	3,007	4.007	2,00
Unemployed	95	72	81	102	82		1 100	97	20
Unemployment rate	3.1	2.3	2.6	3.3	3.0	2.5	3.2		e.•
Michigan									
Ovilian noninstitutional population	6,888	6,949	6,953	6,888	6,934	6,939	6,944	6,949	6,953
Civilian labor force	4,477	4,533	4,460	4,497	4,030	4,000	4 306	4 177	4 101
Employed	4,130	4,199		0.130	407		327	350	397
Unemployed	7.6	7.4	8.3	8.0	8.8	7.8	72	7.7	8.8
New Jersey	1								
Civilian noninstitutional population	5,948	6,003	6,007	5,948	5,990	5,994	5,999	6,003	6,007
Civilian labor force	3,852	3,952	3,945	3,900	3,965	3,916	3,965	3,965	3,996
Employed	3,700	3,834	3,804	3,727	3,815	3,740	3,812	3,843	3,835
Unemployed	151	129	141	173	171	176	153	142	15/
Unemployment rate	3.9	3.2	3.6	4.4	4.3	4.5	3.9	3.6	3.1
New York					1		1		
Civilian noninetitutional population	13,747	13,768	13,790	13,747	13,781	13,784	13,786	13,768	13,790
Civilian labor force	8,454	0,090	6,039	7.024	0,020	8.012	8.057	8 134	8,12
Employed	7,994	8,167	0,104	1,841	9,140	300	422	450	30
Unemployed Unemployment rate	460 5.4	4.9	4.2	8.0	4.5	4.5	5.0	5.2	.
North Carolina									
Civilian noninstitutional population	4,792	4,867	4,873	4,792	4,848	4,854	4,861	4,867	4,87
Civilian labor force	3,219	3,336	3,298	3,221	3,306	3,313	3,350	3.330	مالابد ا
Employed	3,063	3,202	3,161	3,048	3,165	3,162	3,218	3,200	3,15
Unemployed	155 4.8	134	. 137	5.4	4.3	4.0	3.9	3.9	4.0
Chio									
Civilian noninstitutional population	8,115	8,140	8,141	8,115	8,136	8,137	8,138	8,140	8,14
Civilian labor force	5,259	5,263	5,235	5,276	5,205	5,148	5,1/6	1 2231	3,24
Employed	4,841	4,959	4,915	4,861	4,641	4,865	4,8/6	4,942	32
			. 224					والحد ا	
Unemployed	418	303	34		1 70	64		5.0	

See footnotes at end of table

HOUSEHOLD DATA

HOUSEHOLD DATA

Table A-13. Employment status of the civilian population for eleven large States-Continued

(Numbers in thousands)

	Not ee	eonelly adj	usted'			Seasonally	native adjusted" Dec. Nov. Dec. 7 1987 1987 1987 96 9.298 9.201 9.27 75 5.738 5.897 5.74 95 5.400 5.372 5.44 18 5.9 5.5 5							
State and employment status	Dec.	Nov.	Dec.	Dec.	Aug.	Sept.	Oct.	Nov.	Dec.					
	1986	1967	1987	1986	1987	1987	1967	1987	1987					
Pennsylvania														
Civilian noninstitutional population	9,254	9,291	9,293	9,254	9,283	9,286	9,258	9,291	9,293					
	6,479	5,716	5,744	5,528	5,697	5,875	5,738	5,687	5,793					
	5,220	5,417	5,451	5,229	5,383	5,359	5,400	5,372	5,483					
	258	299	293	299	314	316	338	315	330					
	4.7	5,2	5.1	5.4	5.5	5.6	5,9	5.5	5.7					
Civilian noninstitutional population	12,089	12,300	12,318	12,089	12,248	12,264	12,282	12,300	12,318					
	8,318	8,569	8,455	8,354	8,548	8,401	8,390	8,573	8,470					
	7,593	7,695	7,881	7,550	7,828	7,685	7,737	7,848	7,631					
	724	674	574	804	718	716	853	725	639					
	8.7	7.9	8.8	9.6	8,4	8.5	7.8	8,5	7.5					

¹ These are the official Sureau of Labor Statistics' estimates used in the administration of Federal fund elecation programs. ² The population figures are not adjusted for seasonal variation; therefore, identical numbers appear in the unadjusted and the seasonality adjusted.

columns. NOTE: Revised seasonal factors are not yet evallable for State data. The seasonally adjusted series will be revised for the release of January data on February 5.

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HOUSEHOLD DATA

Table A-14. Persons not in the labor force by reason, sex, and race, quarterly averages

(in thousands)

	Not ees adju	sonally sted		See	onally adjus	sted	
Reason, sax, and race	1986	1987	1985			87	
			iv				. IV
TOTAL							
Total not in labor force	62,908	62,947	62,808	62,851	62,901	62,963	62,899
Do not want a job now	57,219	57,614	57,026	56,963	57,006	57,490	57,408
Current activity: Going to school	8,075	8,184	6,333	6,394	6,403	6,388	6,414
II, disabled	3,773	4,248	3,957	4,111 26.182	4,193	4,420	25.513
Resping nouse	15,781	16.224	16.055	15,872	18,250	16,317	16,508
Other activity	3,683	3,567	4,657	4,424	4,611	4,713	4,507
	c	6	E 001	E 790	5 871	5,802	5 462
Want a job now	1,378	1,343	1.425	1,348	1,470	1,556	1,389
ill health, disability	817	901	763	648	914	847	834
Home responsibilities	1,277	1,170	1,356	1,231	1,325	1,274	1,234
Think cannot get a job	1,120	891	1,147	1,135	1,048	992	910
Job-market lactors'	326	325	323	373	354	357	329
Other reasons ¹	1,097	1,028	1,170	1,218	1,114	1,132	1,094
blen -						i.	
Fotal not in labor force	20,773	21,130	20,455	20,486	20,681	20,811	20,845
Do not want a job now	18,807	19,229	18,444	18,459	18,585	18,945	18,878
Want a job now	1,965	1,902	2,008	1,994	2,062	2,064	1,918
Reason not looking: School attendance	647	707	260	408	463	416	414
If health, disability	390	358	493	469	428	431	358
Other reasons ²	440	378	479	456	421	444	409
Women		1					
Total not in labor force	42,136	41,817	42,354	42,365	42,220	42,152	42,055
Do not want a job now	38,411	38,385	38,582	38,524	38,423	38,545	38,530
Want a job now	3,/24	3,432	3,653	687	720	784	653
Reason not tooling: School automotive	421	443	403	440	451	431	421
Home responsibilities	1,277	1,170	1,356	1,231	1,325	1,274	1,234
Think cannot get a job	637	533	654	666	619	561	552
Other reasons	658	650	691	/62	693	0000	005
Winte	53.868	53 748	53 557	53 658	53.627	53.771	53.679
Do not want a lob powr	49.575	49.811	49.336	49.437	49,284	49.536	49,564
Want a job now	4,094	3,935	4,238	4,198	1 092	1.062	986
I health disability	583	701	541	617	683	648	646
Home (seponsibilities	940	864	992	912	959	948	909
Think cannot get a job Other reasons ²	772 862	596 823	806 927	.948	714 896	643 951	620 884
Black					1		
Total not in labor force	7,449	7,326	7,401	7,387	7,457	7,326	7,294
Do not want a job now	6,057	6,099	6,034	5,962	6,169	6,068	6,083
Want a job oraw	1,393	1,227	1,389	1,402	1,294	1,237	1,210
Reason not looking: School i ttendance	380	348	374	346	315	333	341
(iii health, dis: biilty	209	183	190	225	193	168	165
Home respon, ibilities	281	2/8	202	327	298	315	237
Other reasons ²	221	172	225	212	175	145	• 163
Job-market factors include "could not find job" and "thinks r svalable." ³ Personal factors include "employers think too young or old," education or training," and "other personal handicap."	nojob "tacks	³ Inclu responsib NOTE: experienc	des small nun littes." Sessonally e through De	nber of men i adjusted dat cember 1987.	not looking fo a have bee	r work becau n revised b	se of "home

ESTABLISHMENT DATA

ESTABLISHMENT DATA

Table B-1. Employees on nonagricultural payrolls by industry

Dec. Dec. Net. Pec. Ass. Test. Net. Pec. Ass. Test. Net. Pec. Ass. Test. Net. Pec. Ass. Test. Net. Test. Net. Test. Net. Test. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net. Net.	industry		Not seeso	nally adjus	bed			Ressons	illy adjusted	ł.	
Total 101, 249 102, 727 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 102, 273 103, 274 Mining		Dec. 1986	Oct. 1987	Nov. 1987	Dec. 1987	Dec. 1986	Aug. 1987	Sept. 1987	Oct.	Nov.	Dec. 1987
Total private #4,103 #6,342 #6,342 #5,248 #5,248 #5,785 #6,038 Doods-enducing	Tetal	101,289	103,787	104,093	104,333	100,567	102,275	102.434	102.983	103 244	102.67
books producing 24,163 25,442 25,377 23,206 24,680 24,880 24,880 24,880 24,880 24,880 25,877 25,004 25,005 25,005 25,005 25,005 25,005 25,005 25,005 25,005 44,86 5,005 44,86 5,005 4,986 5,005 4,986 5,005 4,986 5,005 4,986 5,005 4,986 5,005 4,986 5,005 4,986 5,005 4,986 5,005 4,986 5,005 1,270 1,280 1,270 1,280 1,270 1,281 1,395 1,302 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,102 13,1	Total private	84,103	86,392	86,541	86,788	83,643	85.229	85.386	85.795	86 038	
Mining 728 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746 746<	oods-producing	24,563	25,442	25,377	25,206	24,630	24,886	24,917	25.064	25.173	25 27
Construction Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las Las <thlas< th=""> <thlas< th=""> <thlas< th=""> <thla< td=""><td>Mining Oil and gas extraction</td><td>728</td><td>766</td><td>766</td><td>767</td><td>724</td><td>751</td><td>7 5 9</td><td>764</td><td>760</td><td>76</td></thla<></thlas<></thlas<></thlas<>	Mining Oil and gas extraction	728	766	766	767	724	751	7 5 9	764	760	76
General pulsion contactors 1.271 1.280 1.271 1.280 1.275 1.280 1.275 1.280 1.275 1.280 1.275 1.280 1.275 1.280 1.275 1.280 1.275 1.280 1.275 1.280 1.275 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1.280 1	Construction	4.861	5,322	5,209	5,055	4.936	5,006	4.989	5.051	5.077	44
Manufacturing 18,972 19,323 13,420 19,420 19,129 19,129 19,129 19,129 19,129 19,129 19,129 19,129 19,129 19,129 19,129 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 11,200 <th1< td=""><td>General building contractors</td><td>1,2/1.9</td><td>1,334.9</td><td>1,316.8</td><td>1,286.9</td><td>1,277</td><td>1,262</td><td>1,260</td><td>1,279</td><td>1,283</td><td>1,29</td></th1<>	General building contractors	1,2/1.9	1,334.9	1,316.8	1,286.9	1,277	1,262	1,260	1,279	1,283	1,29
Durbis gods. 11.185 11.285 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 11.085 1	Manufacturing Production workers	18,974	19,355	19,402	19,384	18,970	19,129 13,038	19,169	19.247	19,336	19,37
Lumba and used products 71.6 723.8 74.7 74.1 728 736 74.1 728 736 74.1 728 736 74.1 728 736 74.1 728 736 74.1 728 736 74.1 74.1 728 736 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 <	Durable goods Production workers	11,185	11.361 7,570	11.398	11.403	11,175	11.248	11.268	11,319	11,364	11.39
Purnture and listures 103.6 232.6 332.4 532.6 538 530 541 530 530 542.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 532.6 533.6 643.7 733.7 736.7 738.7 738.7 738.7 738.7 738.7 738.7 738.7 738.7 738.7 738.7 738.7 738.7 738.7 738.7 738.7 738.7 738.7 738.7 738.7	Lumber and wood products	716.3	751.9	749.7	24.1.9					1.5/3	/,60
Development 27,0 39,2 392,1 52,2 52,4 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 542,1 543,1 543,1 543,1 543,1 543,1 543,1 543,1 543,1 543,1 543,1 543,1 543,1 543,1 543,1 543,1 543,1 543,1 <	Furniture and fixtures	503.6	528.0	531.4	532.6	499	518	520	524	50	75
Bear turners and back seven objusts 257.2 92.4 1 A4.8 77.1 733 744 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 764 765 766 766 763 763 763 763 763 763 763 763 763 763 763 763 763 763	Stone, ciay, and glass products	577.0	593.9	592.1	582.8	584	582	581	583	588	54
Pathonesed meak products 1, 442,1 1, 431,3 1, 232, 1, 23 1, 243, 1, 233, 1, 234, 1, 234, 1, 234, 1, 234, 1, 234, 1, 234, 1, 234, 1, 234, 1, 234, 1, 234, 1, 234, 1, 234, 1, 234, 1, 234, 1, 234, 1, 234, 1, 234, 1, 234, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134, 1, 134	Blast furnaces and basic steel products	1 257 6	102.1	764.8	767.1	733	754	764	768	770	17
Machinery, accept electrical 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,004,a 2,	Fabricated metal products	1,426.3	1,447.1	1.453.3	2.454.6	1 6 2 3 9	278	263	286	286	28
Electrical and electronics and delectronics equipment 2, 12, 1 2, 12, 1 2, 12, 2, 2, 13, 4 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 2, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 1, 11, 1 <th1, 11<="" th=""></th1,>	Machinery, except electrical	2,014.8	2,059.9	2,068.2	2.084.6	2.011	2.044	2 053	2 044	1,446	1,45
Interportation equipment 2.034.0 2.021.1 2.030.0 2.018 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 <	Electrical and electronic equipment	2,121.9	2,115.6	2,122.2	2,132.6	2.118	2.095	2.096	2,000	2,0/0	2,08
Instrumentia et et la gibberti, Mascellaneous manufacturing 19:0 19:0 49:0 19:0 84:0 19:0 83:0 19:0 84:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 19:0 <	Transportation equipment	2.034.0	2.021.1	2.030.0	2,031.8	2,018	2,028	2,018	2.019	2.018	2.01
Miscellaneous manufacturing 992.2 701.4 700.4 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 695 <t< td=""><td>wotor venicles and equipment</td><td>866.0</td><td>840.2</td><td>843.0</td><td>846.0</td><td>853</td><td>848</td><td>837</td><td>838</td><td>836</td><td>83</td></t<>	wotor venicles and equipment	866.0	840.2	843.0	846.0	853	848	837	838	836	83
Non-scale 7,786 7,981 7,981 7,981 7,981 7,981 7,981 7,981 7,972 Production moviers 1,221,41 1,521,41 1,633,1 1,633,1 1,631,1 1,631,1 1,631,1 1,631,1 1,631,1 1,631,1 1,631,1 1,631,1 1,631,1 1,631,1 1,611,1 1,611,1 1,611,1 1,611,1 1,611,1 1,611,1 1,611,1 1,611,1 1,611,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1 1,111,1	Miscellaneous manufacturing	362.9	363.0	701.4	700.6	698 364	695 371	695	697	701	70
Production worker \$,356 3,662 5,663 5,643 5,737 7,853 7,901 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,928 7,939 7,939 7,939	Nondurable goods	7.789	7 994						3/1	3//	37
Pool and kindled products [1.621.4] (.679.6] (.639.1] (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.63) (.64) (.63) (.64) (.63) (.64) (.63) (.64) (.63) (.64) (.63) (.64) (.63) (.64) (.63) (.64) (.63) (.64) (.63) (.64) (.63) (.64) (.63) (.64) (.63) (.64) (.63) (.64) (.63) (.64) (.64) (.64) (.64) (.64)	Production workers	5,506	5,662	5,663	5,645	5,513	5,563	5,578	7.928	7,972	7,98
Obschoom Anufactures 60.2 99.0 79.0 58.0 38 55.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75.7 77.9 75.7 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 <td>Food and kindred products</td> <td>1.621.4</td> <td>1,679.6</td> <td>1,659.1</td> <td>1,633.1</td> <td>1.631</td> <td>1.632</td> <td>1.631</td> <td>1 615</td> <td>1.444</td> <td></td>	Food and kindred products	1.621.4	1,679.6	1,659.1	1,633.1	1.631	1.632	1.631	1 615	1.444	
Anament products 716.4 736.6 741.3 740.3 713 722 735 735 736 736 741.3 740.3 713 732 735 735 736 736 735 736 735 736 735 736 736 735 736 735 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 736 7376 7376 7376 7376 7376 7376 7376 7376 7376 7376 7376 7376 7376	Toplico manufactures	60.3	59.0	57.9	. 58.0	58	56	55	55	56	1,04
Present and alling products 1.673, 2 1.63, 0 1.183, 0 1.183, 0 1.183, 0 1.183, 0 1.183, 0 1.183, 0 1.183, 0 1.183, 0 1.183, 0 1.183, 0 1.183, 0 1.183, 0 1.183, 0 1.183, 0 1.183, 0 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.183, 1 1.1	Apparal and other leville products	/16.4	/39.6	741.3	740.3	715	732	735	736	738	74
Princing and publishing 1,481,54 1,31,54 1,322,5 0,07 681 672 682 Chemical and allied products 1,014,5 1,034,2 1,033,4 1,031,5 1,031,5 1,031,5 1,021,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,031,5 1,641,5 1,642,5 1,643,5 1,640,5 1,64,6 1,52,7 1,531,5 1,440,5 1,522,7 1,533,5 1,46 1,52,7 1,531,5 1,462,5 1,532,5 1,52,7 1,54,7 1,51,7 1,71,919,7 7,8,937 7,73,19,7 7,8,937 7,731,97,77,319,7 7,8,073,7 1,46,73,145,3,145,3,14,5 1,460,5 1,46,73,145,3,146,3,145,3,14,5,3,14,3,14,3,14,3,14,3,14,3	Paper and allied products	670 7	470 6	1,134.0	1,125.0	1,110	1,110	1,117	1.123	1,128	1,12
Chemicals and alled products 1,014,2 1,034,2 1,034,2 1,034,2 1,034,2 1,037,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,030,1 1,	Printing and publishing	1.481.6	1.511.5	1 527 8	, , , , , ,	0/9	677	681	678	68Z	68
Periodeum and code products 160.5 166.6 165.7 164.6 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134 1.134	Chemicals and allied products	1.014.5	1.034.2	1.039.6	1 041 4	1,017	1,508	1,309	1,514	1,522	1,52
Rubber and miseclianceous plastics products 798.3 834.4 840.5 863.6 800 819 823 800 801 823 800 819 823 800 801 823 800 801 823 800 801 823 800 801 823 800 801 823 800 801 823 815 815 815 815 815 815 815 815 815 815 815 815 815 815 815 815 815 815 815 815 815 816 815 816 815 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 816 8	Petroleum and coal products	160.5	165.6	165.7	164.6	163	1,031	1.031	1,035	1,042	1,04
Lastine and eacher products 14.6.6 155.4 155.3 148 152 152 152 152 rece-producing 76,726 78,345 78,716 79,127 75,937 77,319 77,919 78,025 Transportation and public utilities 3,120 3,243 3,244 3,243 3,244 3,243 3,248 3,147 1,183 1,185 1,185 1,185 1,185 1,185 1,185 1,185 1,185 1,185 1,185 1,185 1,185 3,148 3,460 Communication and public utilities 2,206 2,2232 2,2242 2,2208 2,238 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245 2,245	Rubber and miscellaneous plastics products	798.3	834.4	840.5	843.8	600	819	874	10/	100	16
Inte-producing 76,726 78,345 78,716 79,127 75,937 77,389 77,517 77,919 78,073 Transportation	Leather and leather products	148.6	154.6	- 155.4	155.3	148	152	152	152	153	15
Transportation and public utilities 1,220 3,485 3,490 5,495 3,286 5,377 5,416 5,436 5,435 Communication and public utilities 2,266 2,243 2,242 2,208 2,233 2,233 2,233 2,233 2,233 2,233 2,233 2,233 2,245 Durable poots 3,737 5,416 3,472 3,233 3,075 5,416 3,435 3,432 2,243 2,223 2,233 2,233 2,233 2,233 2,233 2,233 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,235 2,331 3,443 3,459 Mondard renchandles stores 2,047 2,467 1,470 1,462 1,8700 1,985 1,485 2,497 2,397 2,397 2,397 2,397 2,397 2,397 2,397 2,397	vice-producing	76,726	78.345	78,716	79,127	75,937	77,389	77,517	77,919	78,073	78,30
Imagenziation Communication and public utilities 3.144 2.206 3.249 2.205 3.247 2.205 3.247 2.205 3.247 2.205 3.247 2.205 3.242 2.205 3.233 3.078 3.147 3.183 3.183 3.183 3.183 3.183 3.183 3.183 3.183 3.183 3.183 3.183 3.183 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813 3.813<	Transportation and public utilities	5,320	5,4R5	5,490	5,495	5.286	5.377	5.416	5 4 34		
Particle and solutions 2 / 2/36 2 / 2/36 2 / 2/36 2 / 2/36 2 / 2/36 2 / 2/37 2 / 2/36 2 / 2/37 2 / 2/36 2 / 2/37 2 / 2/36 2 / 2/37 2 / 2/36 2 / 2/37 2 / 2/36 2 / 2/37 2 / 2/36 2 / 2/37 2 / 2/36 2 / 2/37 2 / 2/36 2 / 2/37 2 / 2/36 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 2/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/37 2 / 3/3	Communication and public utilities	3,114	3,249	3,247	3,253	3,078	3,147	3,183	3,198	3,215	3.21
Conside goods 5,733 5,862 5,866 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725 5,725		4,200	2,230	2,243	2.242	2,208	2,230	2,233	2,238	2,245	2 24
Hondurative goods 7,343 3,451 3,451 3,451 3,451 3,451 3,451 3,451 3,451 3,451 3,451 3,451 3,451 3,461 3,475 3,182 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 3,142 3,181 18,422 3,181 18,422 3,181 18,422 3,181 18,422 3,181 18,422 3,181 18,422 3,181 18,422 3,181 18,422 3,181 18,422 3,181 18,422 3,181 18,422 3,181 18,422 3,181 18,422 3,181 18,422 3,181 18,422 3,181 18,422 1,215	Durable coods	5,733	5,862	5,868	5,878	5,725	5.807	5.815	5.831	5 851	5 87
Parata trade 18.612 18.463 18.700 19.046 16.007 18.254 10.314 18.424 Food stores 2.659.1 2.478.8 2.599.9 2.723.4 2.363 2.411 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 2.435 <	Nondurable goods	7,384 2,349	3,451 2,411	3,461 2,407	3,475 2,403	3,383 2,342	3,422	3,431	3,444	3,458	3,47
General reschandise lotes 18,421 18,423 18,700 19,046 16,007 18,735 18,141 18,423 18,700 19,046 16,007 18,735 18,141 18,423 18,700 19,046 16,007 18,735 18,141 18,423 18,700 19,046 16,007 18,735 18,141 18,423 24,37 Autorolive destra and service stations 1,959,7 2,002,1 1,997,7 2,002,1 18,700 18,706 3,982 4,882 2,060 2,002 Places, hearmone, and real estate 6,437 6,636 6,646 6,451 6,624 6,624 6,027 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 6,032 2,032 1,233 1,232	Retail trade					- 1					2,55
Food stores 21,877,9 21,238,2 2,411 2,415 2,439 Automotive dealers and service stations 1,959,7 21,237,9 21,218 2,411 2,415 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,459 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,003 2,000 2,004 2,000 2,004 2,006 2,000 <	General merchandise stores	10,612	18,463	18,700	19,046	18,007	18,256	18,314	18,408	18,424	18.42
Automotive dealers and service stations 1,959,7,2,002,1 1,997,7,2,002,3 1,916 1,882 2,438 2,468 2,002 Esting and fining places 1,884,4 6,032,2 5,992,3 5,908 3,992 6,018 6,022 6,020 6,018 6,022 6,020 6,018 6,022 6,020 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 6,037 5,038 3,326 3,326 3,326 3,326 3,326 3,326 3,326 3,326 3,326 3,326 3,326 3,326 3,326 3,326 3,326 3,326 3,326 3,326 3,326 3,326 3,326	Food stores	2.977.4	2 980 5	2,399.9	2./25.4	2,363	2,411	2,415	2,459	2,437	2,42
Earling and drinking places 5,884.4 6,038.2 5,992.5 6,038.7 5,992 5,992 6,027 Preses, learning, and real estate 6,437 6,636 6,634 6,646 6,451 6,624 6,229 6,450 6,653 5,792 6,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792 3,792	Automotive dealers and service stations	1.959.7	2.002.1	1.997.7	2 002 1	2,710	2,962	2,958	2,969	2,980	2,990
Presson, Neuronce, and real sature 6,437 6,638 6,638 6,645 6,624 6,624 6,629 6,650 6,651 Finance 1,224 3,226 3,226 3,227 3,228 3,228 3,228 3,226 3,222 3,226 2,069 2,057 1,299 3,282 3,226 2,069 2,057 1,299 1,283 1,226 2,068 2,067 1,299 1,283 1,226 1,226 1,227 1,226 1,227 1,226 1,228 1,226 1,283 1,226 1,285 1,226 1,285 1,226 1,285 1,226 1,285 1,226 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,285 1,286 1,286	Eating and drinking places	5,884.4	6.038.2	5,992.5	6,008.7	5.938	5,992	6,018	2,000	2,002	2,012
Prinance 1,224 3,266 3,292 3,297 3,227 3,283 3,282 3,302 Instruct 1,244 3,266 3,297 1,227 1,283 3,282 3,302 Resistate 1,217 1,266 1,273 1,225 1,281 1,282 2,068 2,069 Boritiste 23,438 24,504 24,472 24,517 23,542 24,279 24,285 24,406 24,472 Boritiste 23,438 24,504 24,472 24,517 23,544 24,279 24,285 24,406 24,472 Boritiste 4,938.6 5,745 7,523.3 7,552 1,984 24,957 24,379 24,379 24,405 24,472 Instruct 6,677.3 6,986.5 7,018.3 7,051.4 6,691 6,923 6,943 6,987 5,129 1,984 3,944 2,950 2,405 24,472 5,133 5,984 5,983 6,987 5,129 5,193 6,987 5,129 5,153 <td>Finance, insurance, and real estate</td> <td>6,437</td> <td>6.636</td> <td>6.634</td> <td>.6.646</td> <td>6.451</td> <td>6 624</td> <td>6 6 90</td> <td></td> <td></td> <td></td>	Finance, insurance, and real estate	6,437	6.636	6.634	.6.646	6.451	6 624	6 6 90			
Implement 1.996 2.064 2.067 2.076 1.999 2.005 2.034 2.068 2.068 Devices 1.217 1.246 1.227 1.221 1.281 1.286 1.287 Devices 2.34.38 2.4.61 2.24 1.227 1.281 1.286 1.287 Devices 2.34.38 2.4.504 2.4.72 24.317 23.54 2.4.279 24.429 24.405 2.4.472 Devices 4.93.6 2.23.59 2.23.6 3.252.6 4.912 3.133 5.152 5.194 5.192 Operation 6.77.35 5.686 7.035 7.051.6 6.916 6.220 6.90 6.920 7.035 Operation 7.035 7.352 17.352 17.353 16.724 17.046 17.88 17.025 Operation 2.895 2.944 2.954 1.944 7.944 1.944 1.248 1.248	Pinance	3,224	3,286	3,292	3,297	3.227	3.293	3 292	3 294	0,000	0,000
Services 1,245 1,256 1,267 1,268 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 1,288 <th1,288< th=""> 1,288 1,288 <</th1,288<>	Real estate	1,996	2.064	2.067	2,076	1.999	2,050	2.054	2,068	2,069	2,078
Buchness services 23,4581 24,504 24,472 24,517 23,341 24,279 24,285 24,406 24,472 Headiness services 4,938.6 5,245.7 5,233.4 3,252.4 4,912 5,133 5,132 5,132 5,132 5,132 5,195 5,195 5,195 5,195 5,195 5,195 5,195 5,195 5,195 5,195 5,195 5,195 5,195 7,023 6,943 6,943 6,943 6,943 6,943 6,197 7,035 17,152 17,552 17,552 17,945 17,046 17,186 17,205 17,235 1,2904 2,3904 2,3904 2,3904 2,3904 2,3904 2,3904 2,3904 2,3904 2,3904 2,3904 2,3904 2,3945 14,17,046 17,186 17,204 17,204 17,204 17,204 17,204 17,204 17,204 17,204 17,204 17,204 17,204 17,204 17,204 17,204 17,204 17,204 17,204 17,204 14,205 </td <td>Stantas.</td> <td>.,</td> <td>.,</td> <td></td> <td></td> <td>1,223</td> <td>1,201</td> <td>1,283</td> <td>1,286</td> <td>1,287</td> <td>1,281</td>	Stantas.	.,	.,			1,223	1,201	1,283	1,286	1,287	1,281
Health services 4,938.6 5,233.9 13,252.9 4,912 5,133 5,152 5,194 5,192 Genominant 6,677.3 6,986.5 7,018.3 7,051.4 6,691 6,927 6,987 7,025 Genominant 17,186 17,395 17,552 16,924 17,046 17,188 17,208 Federal 2,895 2,944 2,954 2,904 2,944 2,954 2,904 2,946 2,946 3,462 3,425 3,423 3,417 208 3,442 3,444 3,454 17,046 17,188 17,208 3,442 3,444 3,454 1,7046 17,188 17,208 3,442 3,444 3,454 3,404 17,046 17,188 17,208 3,444 3,444 3,454 3,404 3,444 3,444 3,444 3,444 3,444 3,444 3,444 3,444 3,444 3,444 3,444 3,444 3,444 3,444 3,444 3,444 3,444 3,444 3,444 3,444<	Business services	23,438	24,504	24 . 472	24,517	23,544	24,279	24.295	24.405	24.472	24 61
Geromment 17,186 17,395 17,552 16,924 17,046 17,188 17,205 Federal	Health services	4,938.6	5,245.7	5,233.9	5,252.9	4,912	5,133	5,152	5,194	5,192	5,227
Federal	Gevenment					0,071	0.723	0,943	6,987	7,025	7,066
Stain 2,893 2,944 2,954 2,970 2,904 2,946 2,966 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967 2,967	Federal	17,186	17,395	17,552	17,545	16,924	17,046	17,048	17,188	17,208	17.275
	State	2,895	2,944	2,954	2.970	2.904	2,940	2,962	2,965	2,975	2,979
Local	Local	10 287	10 383	4,098	4,089	3,927	3,964	3,957	3,973	3,979	4,009

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Table B-2. Average weekly hours of production or nonsupervisory workers' on private nonagricultural payrolls by industry

		Net setes	willy adjust		Beasenally edjusted						
Industry											
	Dec. 1986	Oct. 1987	Nov. 1987 p	Dec. 1987 p	Dec. 1986	Aug. 1987	Sept. 1987	Oct. 1987	Nov. 1987 p	Dec. 1987 p	
Total private	14.8	34.9	34.8	34.9	34.6	34.9	34.6	34.4	34.9	34.7	
Nining	42.4	42.7	42.5	42.8	(2)	(2)	(2)	(2)	(2)	(2)	
Construction	36.8	38.8	17.1	37.8	(2)	(2)	(2)	(2)	(2)	(2)	
Manufacturing	41.5	41.3	41.4	41.9	40.8	41.0	40.6	41.3	41.2	41.1	
Overtime hours	3.8	4.0	•.1	•.2		3					
Durable goode	42.3	41.8	42.0	42.5	41.4	41.6	41.0	41.9	4.0	4.0	
I umber and wood products	40.6	40.6	40.4	40.7	40.6	40.4	39.4	40.4	40.8	40.7	
Furniture and fixtures	41.1	40.6	40.4	40.9	39.9	40.1	1 22.2	40.0	1 40.0	47.6	
Stone, clay, and glass products	42.0	43.0	42.3	4Z-3	1 22.2	1 12.1	1 11.1	43.7	43.6	43.5	
Primary metal industries	43.0	41.7	41.7	44.4	42.6	44.0	45.2	44.3	43.8	44.1	
Blast furnaces and basic steel products	47.2	42.0	42.2	42.7	41.2	41.5	40.8	42.0	42.0	41.7	
Papricated metal products	42.R	42.4	42.9	43.6	41.7	42.2	41.6	42.6	1 42.7	1 22.3	
Flectrical and electronic eouloment	42.1	41.1	41.4	42.1	41.0	41.0	40.4		11.0	1 1 1	
Transportation equipment	43.4	42.3	42.6	42.8	42.1	1 11-1	1 11.3	41.0	1 251	1 41.4	
Motor vehicles and equipment	43.9	42.7	43.0	1 22.2				42.1	41.8	42.3	
Instruments and related products	40.2	40.0	19.6	40.1	(2)	(2)	(2)	(2)	(2)	(2)	
			1	1	40.0	40.1	40.1	40.5	40.4	40.4	
Nondurable google	40.6	40.5	40.6	1	1 1 1	3.2	1 1.6	3.6	3.8	3.7	
Overtime hours	3.0	1 3.4	3.7	3.7	1	1		1	1 .		
Feed and kinded products	40.3	40.7	40.8	41.3	39.8	40.3	40.2	40.5	40.6	40.8	
Tobacco menutacturas	37.4	41.2	41.2	41.2	(2)	(2)	(2)	(2)	1 (2)	1 82.	
Textile mill products	42.2	42.2	42.2	42.3	41.6	42.1	41.3	1 11.7	11.0	1 37.4	
Apparel and other textile products	. 17.4	37.5	37.4	37.8	1 37.9		30. 1		41.4	43.2	
Paper and allied products	- 44-L	43.7	43.6	1 11-1	1 3.6	1	38.2	38.0	38.0	37.9	
Printing and publishing	. 38.7	138.1	1 38.3	1 13.7	42.1	42.4	42.8	42.7	42.6	42.5	
Chemicals and allied products	1 12.2	1	41.7	41.9	43.6	43.3	43.2	43.5	43.5	43.9	
Petroleum and coar products	42.3	41.9	42.1	42.5	(2)	(2)	(2)	(2)	(2)	1 (2)	
Leather and leather products	38.1	18.7	38.5	38.9	(2)	(2)	(2)	(2)	(2)	(2)	
Transportation and public stilling		39.3	39.3	39.1	38.9	39.3	39.1	39.3	39.2	38.9	
Wholessie trade	. 38.4	38.4	38.9	38.4	38.2	38.3	38.0	38.4	38.3	38.2	
Retail trade	29.4	29.2	29.0	29.3	24.9	29.6	29.6	29.3	29.2	28.0	
Finance, insurance, and real estate	. 16.5	36.2	16.4	36.1	(2)	(2)	(2)	(2)	1 (2)		
Services	. 12.4	32.5	32.5	.32.5	32.4	32.5	32.5	32.5	32.6	32.5	

Osta relate to production workers in mining and manufacturing; to construction workers in construction; and to nonsupervisory workers in transportation and public utilities; wholess and ristal tracks; finance, issurance, and real earlies; and earliceas. These groups account for approximately four-liths of the total employees on private nonagricultural pervisis. The series is not published sessonally adjusted since the seasonal component is small relative to the trans-cycle and/or irregular components and consequently cannot be separated with sufficient precision.
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Table B-3. Average hourly and weakly earnings of production or nensupervisory workers' of private nonagricultural psyrolis by industry

		Anango ha	urly conting	• .		Annange u		-	
	Dec. 1986	0et. 1987	Nov. 1987 p	Dec. 1987 P	Dec. 1986	0et. 1987	Nov. 1987 s	Dec. 1987	,
Total private Bessonelly adjusted	18.86 8.84	\$9.09 9.08	89.14 9.13	\$9.13 9.11	\$308.33 305.86	\$317.24 316.89	\$318.07 318.64	#318.64 316.12	
Mining	12.63	12.34	12.46	12.46	535.51	326.92	529.55	533.29	
Ċauturta.	12.77	12.79	12.81	12.81	469.94	494.25	475.25	484.22	
Manufacturing	9.85	9.95	10.01	10.08	408.78	410.94	414.41	422.35	
Durable goode United and wood products Furniture and fictures Stone class and fictures	10.40 8.32 7.65	10.51 #.44 7.73	10.57 8.48 7.74	10.64	439.92 337.79 314.42	439.32 342.66 313.84	443.94 342.59 312.70	452,20 343.92 318.61	
Primary metal industries . Bies furmaces and basic steel products . Fabricated metal products .	11.82	12.05	12.08 13.97 10.15	12.15	427.14 508.26 589.45 422.84	443.33 522.97 610.49 424.62	437.38 527.90 610.49 428.33	437.38 535.82 623.38 436.82	
Machinery, except electrical Electrical and electronic equipment Transportation equipment Machinery electronic enternation	10.67 9.82 12.96	10.86 9.95 13.09	10.89	10.47	456.68 413.42 562.46	460.46 408.95 553.71	467.18 414.41 561.47	478.29 424.79 567.53	
Instruments and related products Miscelleneous menufacturing	9.65 7.69	9.81 7.77	9,90	9.99	407.23	410.06 310.80	416,79 309,28	433.57	
Nendurable gaeds Food and Lindred products Tobleco menufactures	9.07 8.88 12.93	9,18 8,86 12,77	9.24 8.97 13.59	9.30 9.07 13.58	368.24 357.86 483.58	371.79 360.60 526.12	373.14 365.98 559.91	381.30 374.59 559,50	
Apperent and other lactile products . Paper and allied products . Printing and publishing .	5.90 11.34 10.15	5.99 11.48 10.42	5,99 11.49 10,40	6.02 11.58 10.44	220.66 500.09 392.81	224.63 501.68 397.00	224.03 500.96 398.12	227.56	
Chambate and ailled products. Petroleum and coal products. Rubber and misolitaneous plastice products Leather and leather products	12.20 14.41 8.82 5.98	12.52 14.46 8.91 6.09	12.58 14.72 8.93 6.11	12.61 14.72 9.02 6.14	519.72 628.28 373.09 227.84	530.85 642.11 373.33 235.68	537.17 643.26 375.95 235.24	542.23 646.21 383.35 238.85	
Transportation and public utilities	11.90	12.09	12.19	12.16	465.29	475.14	479.07	475.46	
Whetesate trade	9.47	9.67	9.75	4.75	363.65	371.33	373.43	374.40	
Retell texts	6.07	6,16	6.19	6.17	178.46	179.87	179.51	180.78	
Pinanes, incurance, and real exists	8.48	8.81	8.92	8.85	309.52	318.92	324.69	319.49	
Contess	8.32	8.61	8.70	8.72	269.57	279.83	282.75	283.40	

* See footnote 1, table 5-2. p = preliminary. NOTE: Connected everage hourly and weatly earnings data for transportation and public utilities in August 1957 are \$12.04 and \$475.78, respectively, for September, \$12.09 and \$473.93, respectively.

Table 8-4. Hourly Earnings Index for production or nonsupervisory workers' on private nonegricultural payrolls by industry (1677-100)

		Het ees	aanadiy adij	ante-d		Beauseraffy adjusted							
interity.	Dec. 1986	Oct. 1987	Hov. 1987p	Dec. 1987p	Paraset desage Nume Dec. 1985- Dec. 1987	Dec. 1986	Aug. 1987	Sapt. 1987	Oct. 1987	Nov. 1987p	Nec. 1987p	Hov. 1987- 1987	
Total private mentions: Constant deliver Constant (1977) deliver Minimum Constanting Transportation Transportation and public utilities .	171.6 95.6 182.7 155.3 173.7 174.7 174.7	174.9 93.4 182.3 156.3 175.7 177.3 178.5	176.0 93.9 184.1 156.2 176.5 178.6 178.6	176.2 W.A. 184.0 155.8 177.4 178.6 179.8	2.7 (2) .7 .3 2.1 2.2 2.9	171.1 95.3 (4) 154.3 173.4 173.5 (4)	- 174.1 93.7 (4) 154.7 175.5 177.0 (4)	174.6 93.8 (4) 134.0 176.7 176.6 (4)	174.9 93.7 (4) 154.7 176.3 176.9 (4)	175.6 93.8 (4) 156.7 176.7 177.3 (4)	L75,6 E.A. (4) 158.7 177.0 177.3 (4)	-0.1 (3) (4) -1.1 (5) (4)	
Phones, Incorpose, and real exists Surface	159.2 182.4 177.5	161.9 189.4 183.9	162.3 191.8 185.7	161.9 190.7 186.0	1.4 4.6 4.8	159.3 (4) 176.6	161.3 (4) 182.4	162.7 (4) 182.3	162.2 (4) 183.9	162.3 (4) 185.1	162.1 (4) 184.9	 (4	

1 See footnote 1, table B-2.

* Change is -1.8 from Hovember 1998 to November 1987, the takest month available.

* Change is .2 from October 1987 to November 1987, the latest month available.

 These series are not seasonally adjusted since the seasonal component is small relative the literai-cycle and/or irregular components and consequently cannot be separated with subterministic sectors. p – preliminery. N.A. – not available

NOTE: Bessonally adjusted August and Buptamber 1987 indexes for Veneportation and public ullities have been corrected. Corrected not seasonally adjusted indexes are 17(),1 and 177.1,

ent precision. * Change is less then .05 percent.

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Table 8-5. Indexes of aggregate weekly hours of production or nonsupervisory workers' on private nonagricultural payrolls by industry (1977 - 100)

		et soasons	ily adjusts		· Basesandly adjusted							
induciyy	Nec. 1986	Oct. 1987	Nov. 1987 Ø	Dec. 1987 p	Dec. 1984	Aug. 1987	Sept. 1987	Oct. 1987	Яст. 1987 р	Dec. 1987	P	
Total	119.5	123.0	122.8	123.4	117.9	121.2	120.4	121.9	122.2	122.9		
Goods-producing	98.6	103.6	102.4	102.8	97.8	99.7	\$7.7	101.3	101.5	102.0		
Mining	\$1.2	\$8.2	87.9	A8.5	79.5	45.2	84.9	87.7	86.8	86.4		
Construction	126.6	147.8	1 37.2	134.7	130.7	133.4	124.9	136.8	136.2	139.5		
Manufacturing	94.1	95.8	96.4	97.4	92.3	43.A	93.1	45.0	95.4	\$5.5		
Densite goods	91.8 99.1 111.1 84.7 61.3 46.3 101.5 90.8 104.3 101.5 91.1 105.1 82.2 47.3 99.1 81.3 82.1 81.3 82.1 81.2 81.2 81.2 81.2 81.2 81.2 81.2	93.0 104.4 115.4 90.3 90.3 91.9 87.5 102.3 97.3 86.5 103.9 86.5 100.0 104.5 85.5 103.9 86.5 104.5 103.9 86.5 100.0 104.4 132.7 103.2 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 103.9 10.9 10.9 10.9 10.9 10.9 10.9	93.8 103.1 115.5 88.6 64.7 53.4 93.0 90.2 103.9 98.6 87.6 106.2 86.0 100.2 103.1 86.0 100.2 103.1 86.0 100.2 103.1 104.5 84.9 88.9 101.9 104.5	95.1 102.8 117.3 86.6 67.7 94.3 92.7 106.4 87.7 109.4 87.7 109.4 84.2 100.8 102.2 89.1 102.2 89.1 102.2 89.1	89.8 101.0 106.5 86.5 61.1 48.3 88.3 83.9 101.5 97.2 86.3 102.1 81.0 96.0 98.5 76.6 98.5 76.6 86.3 100.5 109.5 109.4	91.2 101.2 111.7 86.1 65.0 53.0 89.4 87.4 100.6 97.4 86.1 103.6 97.4 86.1 103.6 97.4 86.1 103.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 86.1 100.6 97.4 87.5 100.6 97.5 100.6 87.7 97.5 71.0 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 100.6 83.7 84.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6	90.1 99.2 109.7 85.9 65.9 55.2 88.2 88.2 86.7 99.3 102.3 80.7 97.4 94.1 72.4 82.4 82.4 82.4 82.4 8101.9 9132.6	92.6 101.7 112.7 87.7 64.8 91.3 94.9 105.1 82.7 98.7 100.3 73.4 83.7 83.7 83.7 83.7 101.3 132.3	93.0 104.2 113.0 84.1 67.1 34.6 92.0 90.0 102.3 97.5 82.5 99.0 101.3 71.5 82.5 99.0 101.3 73.8 87.6 101.0 133.0 96.8	92.9 104.6 112.7 91.7 91.7 91.7 91.7 91.7 95.0 106.4 85.0 106.4 82.9 97.0 83.6 83.1 101.7 76.0 83.6 83.3 101.5 133.1		
Chemicate and aliked products Petroleum and coal products Rubber and miscellaneous plastics products Leather and leather products	79.3 114.6 57.6	45.4 118.9 62.1	84.7 120.2 62.0	83.8 122.2 62.6	81.6 112.7 56.7	63.4 115.5 61.4	83.2 115.5 60.0	84.5 118.4 61.1	84.5 119.5 40.5	86.1 120.0 61.3		
Service producing	131.0	133.7	134.0	135.1	129.0	133.1	132.9	133.3	133.6	133.0	1	
Transportation and public utilities	. 107.4	111.4	1.11.0	111.3	106.5	109.7	109.9	110.9	111.0	109.7		
Whelesele trade	. 117.3	119.6	119.4	119.9	116.4	118.2	117.3	118.8	118.9	118.9		
Retail trade	. 124.4	121.7	122.4	126.5	118.0	122.4	122.5	121.4	121.5	119.9	1	
Finance, indirance, and real estate	. 140.0	141.8	142.5	141.7	139.8	143.0	141.4	142.2	143.4	141.4	J	
Services	. 147.1	154.3	154.2	154.1	147.8	152.9	152.9	153.5	154.4	155.0	}	
' See footnote 1, table B-2.				p = pretic	ninery.							

Table 8-6. Indexes of diffusion: Percent of industries in which employment' increased

Time	Year		Feb.	Mar.	Apr.	Mary		July	-	Sapt.	Out	Nev.	Oee.
Over 1-month spen	1985 1986 1987	55.9 53.2 53.5	47.0 48.1 56.8	52.4 48.1 58.6	47.3 53.5 58.4	53.2 52.4 58.6	46.8 46.8 55.7	53.8 52.4 68.6	53.8 56.2 54.6	47.8 55.1 65.4	53.2 53.2 65.4	54.3 59.7 970.3	57.3 59.7 962.4
Over 3-month span	1985 1986 1987	51.1 49.7 58.6	48.4	42.4 45.7 61.1	46.5 48.4 61.6	44.3 47.6 61.4	49.7 45.4 67.3	47.0 48.4 66.2	48.6 55.1 75.1	45.9 55.9 69.7	47.6 38.1 p78.4	55.1 58.6 975.4	56.5 60.3
Over 6-month spen	1985 1986 1987	46.5	46.5 47.6 62.7	43.2 43.0 38.9	44.3 41.2 67.3	44.3 45.4 67.6	45.1 48.4 71.1	43.0 47.3 76.2	44.3 53.0 980.3	44.2 59.2 980.3	49.2 58.9	47.3 57.8	45.9 58.9
Over 12-month span	1985 1986 1987	44.6 43.2 62.2	44.1 44.1 63.5	43.8 46.2 67.3	40.8 45.7 68.9	41.4 47.8 972.4	41.6 • 49.3 973.0	42.2 49.5	42.4 51.6	43.4	44.3 52.2	44.1 55.1	42.4 56.3

oyees, easeonally adjusted for 1, 3, and 6 month spans, on payrolls of 185 rai industries. Data for the 12-month span are unadjusted. Number of emp private nonegriculta p = preliminary.

NOTE: Figures are the percent of industrias with employment rising, 04alf of the un-changed components are counted as rising.) Data are centered within the spans.

Senator PROXMIRE. Now, would you like, Mrs. Norwood, to take a stab at my question, which is that you concluded on a very encouraging note—and, of course, the data are very encouraging—why? Is there anything that the Congress has done right or that the administration has done right as far as unemployment is concerned that has had an effect in the last year?

We not only have had declining unemployment, but the level is good. Any time the unemployment in this country, it seems to me, is below 6.5 percent or so, it is good, and it is below 6 percent now.

Mrs. Norwood. I think several developments have occurred in the economy.

First, we have had during recent years a fairly consistent defense buildup, which has provided jobs. I don't think there is any doubt about that.

We have had in many ways rather expansionary policies. You know, I recently, a few weeks ago, was at the convention of the American Economic Association, where a lot of very prominent economists were discussing the question of deficits and what—

Senator PROXMIRE. Including President Eisner.

Mrs. Norwood. Yes.

Senator PROXMIRE. Especially President Eisner.

Mrs. Norwood. That was the session that I was referring to.

I think there is a great deal of concern among economists, but, nevertheless, it also seems true that over the last several years, some of our spending policies, we have had an effect on the labor market.

Senator PROXMIRE. You are a great diplomat. What you are really saying, as I understand it—and I think that this is the case—that when you run huge deficits, massive deficits, 1982, 1983, 1984, 1985, and 1986, it should be no surprise that unemployment is going to fall. The most dramatic example of that was when we ran the colossal deficits in World War II and unemployment came down from about 17 percent in 1940 to 2 percent in 1945, so that the benefit of a deficit, of a series of deficits is that unemployment, at least in the short run, declines.

But that enormous, enormous, colossal debt we build up means it is going to be much more difficult, it seems to me, in the future to maintain that, particularly if we do what Congress has promised to do in the Gramm-Rudman-Hollings bill, which I supported and which I think is right, which is to diminish the deficit, cut it down, and when we do that it seems to me that we are going to be confronted with a situation that is likely to have a reverse effect on unemployment. In other words, unemployment is likely to increase.

Isn't that correct?

Mrs. NORWOOD. In addition, of course, American consumers have over the last several years been spending at a very high rate. Many economists and many forecasters are suggesting that situation may change, partly as a result of the stock market declines.

There is no evidence of that yet, but certainly the extent of consumer purchases, or perhaps the converse of that, the very small rate of consumer savings in this country, has also helped to expand production.

Senator PROXMIRE. I am glad you mention that because we have focused all of our attention—I mean all of it—on the Federal deficit, which is a real problem. But there has been very little attention focused on the fact that we have a colossal increase in debt in the household sector.

Federal debt is \$2.35 trillion, household sector about \$2.8 trillion, business sector over \$3 trillion, and all three of those together add up to well over \$8 trillion and constitute, it seems to me, a colossal burden. People not only have to pay for the interest on the national debt, they have to pay interest on their mortgages. Businesses have to pay a colossal interest on their borrowing.

Back in 1955 we had \$2.85 of debt for every dollar of earnings. Today we have over \$9 of debt for every dollar of earnings. That means, of course, that much of the cash-flow that used to go to research and development and other, manpower training and buying new equipment, has to go to just paying interest on the debt.

So this is a comprehensive economic problem covering our whole economy.

Mrs. Norwoon. One of the elements that I think supports some of that view is the fact that the labor market now has so many two-earner families. The one-earner family is a minority today except, of course, for the group of women maintaining families, who have very great difficulty. Most husband-wife families have two earners in the household. I think that partly as a result of that, their standards of living and their whole attitude about purchases and about the kinds of houses they live in, the kinds of cars they buy, and so on, is based upon the assumption of having not one income but two incomes. So, our standards of living are, or at least our aspirations for higher standards of living, increasing.

Senator PROXMIRE. Still you have a situation where the combination of government living beyond our means, households living beyond their means, and businesses living beyond their means, together, in aggregate, adds up to a situation which seems to me indicates we are likely to have trouble in the future.

Now, let me ask you about the fact that in November, as I recall, leading economic indicators dropped by a record amount, 1.7 percent, which was an astonishingly big drop, the leading indicators indicating the kind of economy we are likely to have in the future.

As I think you would agree, unemployment is a lagging indicator. It follows the fact that unemployment has been performing so well is partly because we were running big deficits in 1986, we were running a very easy monetary policy in much of 1986, and, of course, it has come in, therefore, with a diminution in unemployment.

Now, we have begun to some extent to reverse that. We had a spectacular drop in the deficit in 1987, and money had been much tighter in the last 6 months, and it seems that the consumer is unable to keep borrowing and spending very much longer at this kind of level.

So it would seem to me that the outlook may not be quite as good as the immediate figures that you have given to us this morning suggest as far as unemployment is concerned.

Mrs. Norwood. Of course, one of the major reasons for the drop in the leading indicators was the stock market decline.

Senator PROXMIRE. Yes, that was the leading reason, but 9 out of the 10 indicators fell.

Mrs. NORWOOD. But that had the biggest effect, I believe.

Senator PROXMIRE. That had by far the biggest. About two-thirds of the total effect was because of that.

Mrs. Norwood. I think one of the important elements in all of this, Senator, is the foreign debt and the future of the value of the dollar, which we don't know very much about. I think that is an extremely important element because we are rather dependent upon foreign investment in this country. So if the dollar continues to fall, we may have some difficulties.

Senator PROXMIRE. Now, on a seasonally adjusted basis the initial claims for unemployment insurance rose in November and December after hitting bottom in October.

Could that be a sign of a rise in the unemployment rate, or is there some other explanation—future rise?

Mrs. Norwood. I don't really see the UI data as an indicator of what is going to happen. First of all, as we have discussed before, a relatively small portion of the people who are unemployed are now getting UI benefits. The data also, as I have said many times, need to be looked at over much longer periods of time.

Senator PROXMIRE. I am glad to get that explanation because it follows what I understand, that only one-third of the unemployed are currently covered by unemployment insurance.

But to what extent does this reflect a change in work, with more people working at home or as independent contractors? Does it reflect that primarily?

Mrs. Norwood. It reflects a number of things. First, there has been some tightening of requirements for eligibility for unemployment insurance by law.

Second, there also has been some tightening of requirements through administrative action.

Third, we had two back-to-back recessions, one of them quite steep in 1981-82, and a lot of people used up their benefits. A number of manufacturing industries have been restructured. Though we are gaining jobs in manufacturing, we have regained less than 60 percent of what we lost during the last recession.

Senator PROXMIRE. You are only back to 60 percent of what we had in 1981 in manufacturing jobs?

Mrs. NORWOOD. Yes, that is right.

Senator PROXMIRE. I didn't understand. That is an astonishing figure.

Mrs. Norwood. Now, remember that output has not declined so much. What we are seeing is a restructuring; we are seeing greater efficiency. Some of the more inefficient plants have been taken out of production.

Senator PROXMIRE. Well, that productivity has slowed down in the last year or so, hasn't it? Mrs. Norwood. Yes, it has slowed down, but it is still quite high

in manufacturing.

Senator PROXMIRE. If the economy goes into a recession and unemployment rises sharply as it did in the 1981–82 recession, what percentage of the job losers will be covered by unemployment insurance?

Mrs. NORWOOD. All I can do is look back to 1981. It was higher certainly. In April 1981, for example, close to 45 percent of the unemployed were covered. But I don't think that it will go back to the 1975 level of coverage, which was about two-thirds.

Senator PROXMIRE. So you think it will go back how far, you say? Mrs. Norwood. Pardon me.

Senator PROXMIRE. You say in the event of a recession the proportion of unemployed workers who would be covered would be how high?

Mrs. Norwood. If you take the total unemployed as we measure them in the Current Population Survey, I would guess about somewhere around 45 to 50 percent might be covered. If you look just at the people who have lost their jobs, job losers, then it might be considerably higher. It might be as much as 80 percent.

Senator PROXMIRE. Well, that is what puzzles me. In November almost 70 percent of the workers who lost their jobs—who were unemployed were not covered, 28.6 percent received unemployment benefits. Last March the figure was much higher, 37 percent.

Do you have the data for December? Can you explain why the percentage of unemployed workers receiving benefits fell so sharply over that 8-month period?

This is a tough human problem, it seems to me. We always think of people unemployed getting unemployment benefits for a while, but now it looks as if that is getting more fragile and less supportive.

Mrs. NORWOOD. You have to remember that over the last year more than 2 million people entered the labor force. Most of those people would not have unemployment insurance coverage.

Second, the number of people who leave their last job voluntarily always increases during a period of economic expansion. About 15 percent or so of the people who are now unemployed are job leavers.

The number of job losers; that is, people who lost their job, has declined during the expansion. There is still a sizable number of them, but they are not as large a share of the total unemployed.

them, but they are not as large a share of the total unemployed. Senator PROXMIRE. The President is currently working on his budget submission for fiscal 1989.

What budget changes are being proposed for the Bureau of Labor Statistics, and what effect will the proposed changes have on your operations? Are there any operations that will be seriously cut back?

Mrs. Norwood. Yes. I can't address fiscal 1989, but I can tell you about fiscal 1988.

As you know, there is an across-the-board cut of 4.26 percent. For the Bureau of Labor Statistics that is a little more than \$10 million.

In addition to that, our concern is that we understand that the Congress also reduced the travel fund for three departments, and the Labor Department is one of those. We have not yet been informed of what portion of that cut will be allocated to the Bureau of Labor Statistics. It could be as high as 20 percent of our travel budget.

More than 90 percent of all of our travel is to collect data, train data collectors, or provide technical assistance to the States who act as our data collectors. What we have been doing over the past couple of weeks is looking at each of our programs to try to figure out how we can take the cuts for fiscal 1988 in a way that will preserve the quality of as much of the important data that we produce as we can.

As you know, the early 1980's especially in 1982, we took cuts by eliminating a lot of programs that were pretty much around the periphery. They were good things to have, and I still get complaints from people because we have cut them out, but what we tried to do was to preserve the basic core of data. Now, we are getting into the core.

The kinds of things we are looking—and we have not made the decisions yet because we have to see how the travel fits into this but it looks like we may have to make reductions in samples.

We are looking at reducing some of the samples of the Consumer Price Index in about 10 areas.

We are looking at reduction of detail in the Producer Price Index.

We are looking at some reductions in the International Price Program; that is, export-import prices, but we are very concerned about that program because its samples are already too small since trade has expanded so much.

In the employment area, we are trying to protect the national employment and unemployment data, which means that the only alternative then is to reduce the amount of detail for local areas, for States in the Monthly Establishment Program and probably for Los Angeles and New York City in the Current Population Survey, which currently have special treatment. We will be maintaining the data and the quality of the data at the national level.

We are looking at an elimination of one of our wage indexes and at reducing detail in some of the other wage programs.

We will have a better idea when we know the exact amount of the travel cut because we really think we are going to have to go back and redo much of the review of these cuts when we find that out.

Senator Proxmire. Let me ask you——

Mrs. NORWOOD. I, of course, hope that it will be decided that since the Labor Department has so many enforcement activities and data collection activities which require travel, that it will not get a proportional amount of that cut, but we haven't yet been informed by OMB what that decision is.

Senator PROXMIRE. Let me ask you a little bit about this. This is the inflation I showed you before, with inflation rising from 1.1 percent last year to an end-of-the-year figure of 4.5 percent, at least in November.

Now, the latest real earnings release shows that average hourly earnings for nonsupervisory workers rose 2.9 percent in the last year and average weekly hours rose 0.3 percent, so that workers on average are currently earning 3.2 percent more than they did a year ago.

But the CPI rose 4.6 percent in the same period, leaving workers 1.3 percent worse off. That means that if a family had \$20,000 of income they took a \$260 hit net. They got an increase in their pay, but the inflation outpaced that, and as a result they are worse off by \$260.
Why have the earnings of production workers failed to keep pace with inflation during the last year?

Mrs. Norwood. What we are seeing is declining rates of wage increases, particularly in those industries which are being restructured. We are seeing increases in services. For example, over the last year the service industries in our Employment Cost Index had an increase in total compensation—benefits as well as salaries and wages—of 4.8 percent; whereas, in manufacturing the increase was only 2.6 percent.

You are correct, of course, that as inflation increases the value of these wage and benefit increases is diminished considerably, but I think there is a differential here between what is happening in services and what is happening in manufacturing.

Senator PROXMIRE. There is also a terrific geographic difference. Mrs. NORWOOD. Yes.

Senator PROXMIRE. I was up in Hartford earlier this week, and I talked with a man who has a large retail operation, and I asked him how he was doing on hiring employees. He had lived in the Washington area before. And he said, "well, the trouble up here is you can't get anybody to work." He said, "there is nobody there." And I noticed that the McDonald's in Boston is paying people

And I noticed that the McDonald's in Boston is paying people now \$7 an hour; \$7 an hour isn't great pay, but for a minimum wage job like a McDonald's worker it is astonishing.

Now, in those areas workers are doing pretty well, I presume, because they are being paid more, but in many other areas—Wisconsin is probably average and Oklahoma, Louisiana, Texas are probably in bad shape—there really is a great deal of suffering and incomes, net incomes, I imagine have dropped sharply.

Can you give us a little notion of how this varies by region of the country?

Mrs. Norwood. It is clear that the Northeastern region is doing quite well and that in order to get workers many employers, particularly in retail trade, restaurants, and smaller establishments are having to raise wages considerably.

In the South and Middle Western areas that is not the case.

Unemployment seems to be getting restructured throughout the country, in part because of the kinds of industries that are developed and that are already geographically present. For example, during the recession, we had a band of very high-unemployment States going right down the center of the country from the Great Lakes all the way down into the South. That is no longer true. Now, some of the unemployment has moved to Alaska and some of the oil-producing areas in the South and in the West. Of course we have the farm area problem as well.

So I think, there are shifts that are going on. There are also many fewer young people. We are finding a good many complaints from industries that hire summer youth—resort areas, for example. There are just fewer teenagers around for them to hire.

Senator PROXMIRE. The Bureau of Labor Statistics' third quarter report on the employment of minority workers starts with the following sentence:

"Black men were far more likely than white or Hispanic origin men to have spent all of 1986 without any employment." What percentage of each group did not work at all in 1986 black, Hispanic, and white?

Mrs. NORWOOD. We will have to supply that for the record.

Employment and labor force for the black population has increased over the last year. These increases, however, are not evenly distributed among the black population.

But we can provide the specifics of that release.

[The following information was subsequently supplied for the record:]

Nonwork rates* for whites, blacks, and Hispanics, by sex, 1986.

	Men .	Women
White	20.1	39.7
Black	30.0	41.5
Hispanic	18.8	46.0

*Proportion of population with no work experience during calendar year 1986.

Note--Differences between demographic groups reflect not only age-specific differences in nonwork rates, but also, differences in the age profile of each group.

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Mr. PLEWES. In the figures I see before me, the percent of persons who had unemployment during the year 1986, for whites was 15 percent, for blacks was 25 percent, and for those with Hispanic origin was 22.3 percent.

Senator PROXMIRE. These are the percentage that didn't work at all?

Mr. PLEWES. These are the percentage who had some unemployment. I would have to calculate the percentage who didn't work at all. I don't have that figure before me, sir.

I have some numbers----

Senator PROXMIRE. It is appalling. That is real depression level. Mr. PLEWES. I have some numbers, but not——

Senator PROXMIRE. I mean, that is a terrible economic problem for the country.

Mrs. Norwood. But that is a spell of unemployment.

Senator PROXMIRE. What is that?

Mrs. NORWOOD. The data that he is giving you are for a spell of unemployment. That does not necessarily mean that they are unemployed all year long.

Senator PROXMIRE. Well, but he is saying that 25 percent at any one time of the black men are unemployed.

Mr. PLEWES. That is not quite correct. What the figures say is that roughly one-fourth of the blacks were unemployed at sometime during the year.

Senator PROXMIRE. Those were the figures you had in 1933 for the whole economy and we had the worst depression in our history.

Mrs. Norwood. We had a much smaller labor force and population.

Senator PROXMIRE. Well, that is true.

The employment-population ratio for black teenagers fell from a peak of 31.2 percent in August to 29.1 percent in December while their unemployment rate rose from 30.6 to 33.4 percent.

Can you explain why the job market has deteriorated for black teenagers?

You just pointed out that there is a need for young people and they are looking for young people to work, and here you have a situation where black teenagers just aren't getting the jobs. Is this a matter of racism? What is it?

Mrs. Norwood. A lot of reasons probably. One is that they are not located in the areas where the jobs are, and they often don't have the transportation to get there.

Another is clearly the kind of conditions that some of our central city people live in. Many of the black teenagers are members of families maintained by women. One out of every three of them lives in poverty. They grow up, I think, with very little hope and very little understanding of the world of work that is out there, partly because of the education they get and partly because of the circumstances in which they live.

Senator PROXMIRE. I think those are all facts that undoubtedly are true, but is there any way you can measure the discrimination?

I just have a feeling that there is a tendency on the part of white employers to hire white youngsters instead of black youngsters. After all, most of the employers are white. They make the decision.

Mrs. Norwood. We have no evidence.

Senator PROXMIRE. There is no evidence of that?

Mrs. Norwood. No specific evidence that I can point to of discrimination.

Senator PROXMIRE. Last year the civilian unemployment rate declined significantly during the first half, from 6.7 percent in January to 6 percent in July. Since then it has leveled off and hasn't declined very much.

Does that suggest the economy has hit a plateau and that the unemployment figure is likely to flatten out at that level?

Mrs. Norwood. The economy is generating and has been for the last half year just enough jobs to take account of the increase in the labor force. We are lucky, I think, that the labor force is projected to slow down its growth, but we do need continued growth just to keep up with the labor force itself.

I have, by the way, brought for you a preliminary copy of our charting of our projections to the year 2000. It is a unique publication for us. We are very proud of it, and I thought you would like to have a copy of it.

Senator PROXMIRE. I am delighted to have it, and I will to happy to study it.

One of the indications of economic distress is the people that have jobs and are counted as employed, but only have part-time jobs and they are only part time for economic reasons. They can't get any better, and therefore they work 10 hours, 15 hours, or 20 hours a week.

Now, although unemployment fell by 940,000 in 1987, there was practically no real reduction in the number of people working part time for economic reasons. That puzzles me.

Why? If the economy is growing and creating jobs, why then are people having difficulty finding full-time work? Does that suggest that a larger then normal proportion of the new jobs are part-time jobs?

Mrs. Norwood. The data suggest that most of the jobs that are created are full-time jobs. We do have almost 15 million people who work part time because that is what they want to do. There are, of course, a lot of service industries which, in part, because of the two-earner family, have extended their working hours and are hiring additional people for shorter worktime.

We should remember that some of that 5.3 million people who are part time for economic reasons are working, oh, say, 30 or 32 hours, so that it is not a completely half-time kind of situation. But it is clear that is a high number. It has come down enormously—

Senator PROXMIRE. And you have characterized that as part time for economic reasons. In other words, they haven't chosen to work—a lot of people would choose to work 20 hours. Maybe they are in a family and they have children to take care of and one of the members of the family has to stay home.

Mrs. Norwood. That is right.

Senator PROXMIRE. They only want to work 20 hours a week. They are not counted as part time for economic reasons, I understand?

Mrs. Norwood. No, that is the almost 15 million who want to work——

Senator PROXMIRE. It is only if they want a full-time job, they need a full-time job, but all they can get is something that employs them for a lot less than that?

Mrs. Norwood. That is right.

Some of them, of course, have jobs and rather than being laid off, their shift is reduced from, say, 5 days to 4 days or something of that sort. There are a number of different arrangements that are made.

But you are quite right, that is a high number.

Senator PROXMIRE. Let me get back again to this chart here. It compares the CPI for each month in 1987 with the same month a year earlier.

This is the one for that?

Mrs. Norwood. Yes.

Senator PROXMIRE. A steady rise in the inflation rate throughout 1987.

What explains that increase in inflation, and do you see any reason under current circumstances why the inflation rate should not continue to increase as it did through 1987?

Mrs. NORWOOD. The major reason is the increase in oil prices, and the major reason for the decline in the rate of inflation in preceding years was the decrease in oil prices.

Senator PROXMIRE. Well, that is the major reason, but it is certainly not the only reason; is it?

Mrs. NORWOOD. No; it is not the only reason, but it has had an enormous effect.

Senator PROXMIRE. Certainly another reason, and another reason that, as I see it, would be likely to persist, is something you mentioned earlier, which is the decline in the value of the dollar. As we have to pay more for imports—that means that we buy cars, TV sets, almost anything—you have to pay more for it.

Furthermore, the competition in this country will be less, and therefore there will be more of a tendency for business in this country to increase their prices because the foreign competition isn't nearly as tough.

Mrs. NORWOOD. Yes, I think imports have had an impact, but I think that if we are looking toward the future, we have to look at several things.

One is what is going to happen to oil prices. The OPEC countries do not seem at the moment to have been able to reduce production and raise prices. We don't know what will happen in the future. There are some suggestions that might turn around. That is something we have to watch out for.

Clearly, imports are an important factor. As you know, our data suggest that for some countries whose currencies are tied to the dollar, like Korea, Taiwan, and Hong Kong, there has not been a very large effect from the drop in the value of the dollar, but for other countries like Japan the difference has been very large. But the foreign exporter to the American market has tended to absorb a good part of that drop in the value of the dollar.

I think that suggests that in the future it is going to be much more difficult for them to hold down export prices to this market, and therefore there should be some upward pressure on them. Now, as they go up in price, of course, we would expect that American consumers would reduce their purchases of those goods.

Senator PROXMIRE. Let me ask you about another budget question that affects you but also affects the elderly in this country. The CPI for the elderly. The Older American Act amendments requires BLS to produce a test CPI for the elderly within 180 days.

Do you have the resources, do you have the budget, do you have the money to carry that out, and how accurately will this test CPI/E reflect the crisis facing the elderly?

Mrs. Norwoon. It is a requirement of law. We will carry it out. We will do it, as we explained to the Congress, by reweighting existing data. We don't think that a reweighting of existing data will provide a very accurate picture of the difference between the elderly and the general population, but we have been instructed to do that and we will do it.

I believe that work is underway.

Senator PROXMIRE. Mr. Dalton.

Mr. DALTON. We are in fact looking at the question that you have posed in light of the budget reductions, and we haven't come to a conclusion yet, but it is possible that we might ask for an extension of time.

Senator PROXMIRE. I am sorry, I missed the last part of that.

Mr. DALTON. We haven't come to a determination yet, but it may be possible that we ask for an extension in time to provide that information.

Senator PROXMIRE. OK.

I have just one more question, and it relates to employment in manufacturing.

During 1987, payroll employment in manufacturing grew by more than 400,000.

Was that employment growth located primarily in industries that have been made more competitive by the declining dollar, or has the increase been widespread and unrelated to the dollar?

Mrs. Norwood. There has been an increase in employment over the year in a number of the industries, including machinery, steel, furniture, lumber and wood, paper, and rubber——

Senator PROXMIRE. Are those strong export industries?

Mrs. Norwood [continuing]. Which are export related.

Senator PROXMIRE. They are export related.

Mrs. NORWOOD. I believe a lot of it is export related, very clearly. Senator PROXMIRE. I do have one more question. It refers to the good old Diffusion Index. That indicates that two-thirds to threequarters of all the industries have been expanding employment. It has been across the board.

Is that an unusually high number, and how much of it is due to the strengthening of employment in manufacturing?

Mrs. NORWOOD. It is unusually high number, and a lot of it is due to the strengthening of manufacturing. We are experimenting with a Diffusion Index that would have more service industries in it, since the economy is becoming more service oriented. There has been a little dampening in the second index, but not a great deal. They are both showing considerable employment increase.

Senator PROXMIRE. Madam Commissioner, I want to thank you.

Let the record show that this is your 101st time you have testified before the Joint Economic Committee on the unemployment figures, and you have always done a superlative job. I don't know of anybody in this administration or any administration that has done that so consistently, certainly so well, and testified so often in spite of abrasive and maybe distasteful questions. [Laughter.]

This is the 70th time since 1971 that I have chaired the hearings on unemployment, since we started them in the Nixon administration, the administration denied the person who occupied your position the right to have a press conference to announce the figures, and so we have had you up ever since then, and I must say it is a great pleasure and honor to have an opportunity to interrogate you and you always do a great job.

Thank you very much.

Mrs. Norwood. Thank you very much. It is a great pleasure for us to be here.

Senator PROXMIRE. The committee will stand adjourned.

[Whereupon, at 10:20 a.m., the committee adjourned, subject to the call of the Chair.]

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