



U. S. DEPARTMENT OF LABOR J. D. Hodgson, Secretary

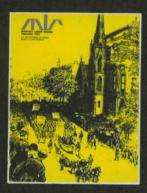
BUREAU OF LABOR STATISTICS Geoffrey H. Moore, Commissioner Ben Burdetsky, Deputy Commissioner

Leon Greenberg, Chief Statistician Peter Henle, Chief Economist

The Monthly Labor Review is for sale by the regional offices of the Bureau of Labor Statistics and by the Superintendent of Documents, U. S. Government Printing Office Washington, D. C. 20402
Subscription price per year — \$9 domestic; \$11.25 foreign.
Single copy 75 cents.
Correspondence regarding subscriptions should be addressed to the Superintendent of Documents.

Communications on editorial matters should be addressed to the Editor-in-Chief, Monthly Labor Review, Bureau of Labor Statistics, Washington, D. C. 20212
Phone: (202) 961-2327.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (October 31, 1967)



Cover design:
Detail from a print depicting
early Labor Day parade
on Fifth Avenue, New York City,
from the collections
of the Library of Congress

BUREAU OF LABOR STATISTICS REGIONAL OFFICES AND DIRECTORS

Region I — Boston: Wendell D. Macdonald 1603-A Federal Building, Government Center, Boston, Mass. 02203 Phone: (617) 223-6727 Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont

Region II — New York: Herbert Bienstock 341 Ninth Avenue, New York, N.Y. 10001 Phone: (212) 971-5405 New Jersey New York Puerto Rico Virgin Islands

Region III — Philadelphia: Frederick W. Mueller 406 Penn Square Building, 1317 Filbert Street. Philadelphia. Pa. 19107 Phone: (215) 597-7796 Delaware District of Columbia Maryland Pennsylvania Virginia West Virginia

Region IV — Atlanta: Brunswick A. Bagdon 1371 Peachtree Street, N.E., Atlanta, Ga. 30309 Phone: (404) 526-5416 Alabama Florida Georgia Kentucky Mississippi North Carolina South Carolina Tennessee

Region V — Chicago: Thomas J. McArdle 219 S. Dearborn Street, Chicago, III. 60604 Phone: (312) 353-7226 Illinois Indiana Michigan Minnesota Ohio

Region VI — Dallas: Jack Strickland 411 N. Akard Street. Dallas, Tex. 75201 Phone: (214) 749-3516 Arkansas Louisiana New Mexico Oklahoma Texas

Regions VII and VIII — Kansas City: Elliott A. Browar 911 Walnut Street, Kansas City, Mo. 64106 Phone: (816) 374-2378 VII lowa Kansas Missouri Nebraska VIII Colorado

Colorado Montana North Dakota South Dakota Utah Wyoming

Regions IX and X — San Francisco: Charles Roumasset
450 Golden Gate Avenue, Box 36017, San Francisco, Calif. 94102
Phone: (415) 556-3178
IX
Arizona
California
Hawaii
Nevada
X
Alaska
Idaho
Oregon
Washington

MONTHLY LABOR REVIEW

Editor-in-Chief, Herbert C. Morton Executive Editor, Henry Lowenstern



Anne M. Young 4 Employment of school-age youth

Special Labor Force Report shows sharp increase in past 10 years in both the number of young workers and the proportion in school

Constance Sorrentino 12 Unemployment in the U.S. and seven countries

In general, countries with serious youth unemployment problems tended to have the highest overall unemployment rates in the 1960's

Joseph P. Goldberg 24 A report on the 1970 International Labor Conference

Major topics range from poverty, civil rights, jobless youth, and the minimum wage to the internal structure of the ILO

Harry P. Cohany 30 The NEA prepares for the 1970's

National Education Association reasserts the right of teachers to bargain collectively and to strike

W. R. Bailey, A. Sackley 32 A model of worker compensation changes

Equation explains overall wage movements reasonably well, but reveals instability when tested in some subperiods

H. E. Henneberger, H. F. Gale 39 Productivity: the major household appliance industry

Increase in output per man-hour averaged 5.8 percent annually from 1958 to 1969

George L. Stelluto 46 Wages in motor vehicle and parts plants

DEPARTMENTS

- 2 Labor month in review
- 43 The anatomy of price change
- 46 Research summaries
- 48 Significant decisions in labor cases
- 52 Foreign labor briefs
- 56 Major agreements expiring next month
- 57 Developments in industrial relations
- 64 Book reviews and notes
- 79 Current labor statistics

SEPTEMBER 1970 VOLUME 93, NUMBER 9

Labor Month in Review



Railroad bargaining. With some contract talks underway and others approaching, officials of the Department of Labor and the National Mediation Board met with representatives of 17 railroad unions and with railroad management to explore ways of streamlining collective bargaining in the industry. Under the present system, individual unions or groups of unions meet separately with management and generally negotiate separate agreements covering wages, work rules, vacations, and holidays. Unlike contracts in most other industries, the railroad agreements do not have fixed terms.

Changes explored at the Washington meetings would have each of the parties put a complete package of demands on the table and then bargain on all issues simultaneously, seeking fixed term agreements with uniform expiration dates.

Meanwhile, a Presidential Emergency Board recommended that one of the oldest and thorniest disputes in railroad history be settled by creating a new job classification. Under the proposal, the duties of firemen and brakemen on diesel locomotives would be combined because "there is no need for firemen on diesel locomotives." Firemen's jobs would be phased out by natural attrition. The panel urged the carriers to share the savings with workers through wage increases.

Inflation alert. The Council of Economic Advisers issued its first "inflation alert." Chairman Paul W. McCracken said that its purpose was to "lift the level of visibility" of inflationary developments in hopes that this would lead to changed public policies.

The report identified several recent wage and price increases but sought to avoid making price predictions. Data showed that annual increases in prices during 1960–69 were greatest in the construction industry. In 1969 and in the first half of 1970, median wage increases in construction were approximately twice the increases in manufactur-

ing, the Council said. "It is clear," the report added, "that wage increases of 15 percent per year or more are far beyond even a generous estimate of gains in output per man-hour, and these wage increases therefore cannot fail to raise the cost of producing buildings, highways, and other structures."

The tobacco, rubber, and trucking industries were cited as examples of areas where inflationary pressures have had a strong effect during recent months. The report noted also that energy costs have risen sharply, with bituminous coal prices increasing an average of 35 percent between June 1969 and June 1970 and the price of residual oil 25 percent in the last year.

An analysis of inflationary developments as far back as the mid-1950's made up a substantial portion of the inflation alert. It was the Council's judgment that inflation eventually responds to the treatment of fiscal and monetary tightness; and that the longer the duration of inflation, the slower it responds to overall Government fiscal and monetary measures.

Unemployment insurance. President Nixon signed into law the unemployment compensation amendments, designed to bring 4.8 million more workers under the protection of the law. Coverage was extended to small firms with 1 to 3 employees (the previous minimum was 4), to employees of non-profit organizations, State hospitals, colleges and universities, to some Americans working abroad, and to some agricultural processing workers.

The new law provides for lengthening the maximum payment period 13 weeks when the national unemployment rate equals or exceeds 4.5 percent for 3 consecutive months. In some cases, a similar provision for individual States may be invoked.

The payroll base on which the Federal unemployment tax is levied will rise from \$3,000 to \$4,200 in 1972. The tax rate for employers rose

from 0.4 percent to 0.5 percent of the payroll, beginning with the third quarter of 1970.

Vocational education. The National Advisory Council on Vocational Education sought to focus public attention on "one of the most glaring failures of the American education system: its inaility to effectively prepare the disadvantaged for full participation in society."

In its third annual report, the Council, appointed by the President, recommended some new approaches: That employment be recognized as an integral part of education by having secondary schools act as student employment agencies and by using part-time jobs as part of their curriculums; that schools follow up on and counsel drop outs; that programs for the disadvantaged be given priority without separating disadvantaged students from the mainstream of education; that parents and students be encouraged to participate in the development of vocational programs; and that residential schools be established for those young people "who cannot cope with their homes or their neighborhoods."

Defense reorganization. The report of the independent Blue Ribbon Defense Panel, which recommended a reorganization of the Defense Department to decentralize authority and eliminate overlapping programs and personnel, also touched on the Department's employment practices.

The study group urged the Department to adhere to its equal employment opportunity programs and also suggested that "The Department of Defense, although not expected to act as enforcement agency of national labor laws, should support any appropriate action that would permit more flexibility in such matters, so that contracts could be withheld from companies that have been determined by appropriate authority to have flagrantly, deliberately, and repeatedly violated expressed national labor policy. At the same time, the Department should not use its contracting powers to help or hurt any party involved in a union representation question, a collective bargaining agreement, or an interunion dispute."

Postal reform. President Nixon signed the bill that established an independent postal service

within the Executive Branch. Postal unions will bargain collectively on wages with the new agency, with unresolved differences to be settled through arbitration. The law provides for an 8-percent pay raise for postal workers, retroactive to April 16, and reduces to 8 years from 21 years the time required to reach top pay scales. Under the new law, unions will not be able to bargain for the union shop.

A board of governors, appointed by the President and approved by the Senate, will operate the system through a postmaster general whom they will appoint. Postal rates will be set by an independent rate commission. The new United States Postal Service will begin operation within a year.

Coal mine safety. A group of West Virginia University graduate students released a report on coal mine health and safety in that State—a product of 18 months of interviews and investigation. The study was financed by two private foundations, Ralph Nader, the Department of the Interior, State officials, the mine workers union, and a coal company.

The report contended that coal mining is "the Nation's most hazardous occupation" and charged coal companies, the union, State and Federal Governments, and the miners themselves with "appalling disregard" for health and safety.

New statistical series

Two additional statistical series—the implicit price deflator of the Department of Commerce and unit nonlabor payments—are included this month in table 32 (p.111). The implicit price deflator is the broadest measure of price change covering the national output of goods and services. Nonlabor payments include profits, depreciation, interest, and indirect taxes—those elements of the price deflator other than labor costs. Other data in the table have been revised to reflect new benchmarks.

Employment of school-age youth

Special Labor Force Report shows that both the number of young workers and the proportion enrolled in school have increased sharply over the past decade

ANNE M. YOUNG

As a NEW DECADE begins, a look back at the school enrollment status of young workers over the period 1959 to 1969 reveals sharp increases in both the number and the proportion enrolled in school. In October 1969, approximately 4.8 million youths 16 to 21 years old were working or looking for work and were also going to school, and 5.8 million employed youths were no longer in school.1 The number of students in the labor force has more than doubled since 1959 compared with a rise of only one-fourth among young workers not in school. As a result of the differential increase in the numbers of students and other youths in the labor force, students accounted for close to one-half of the 16- to 21-year-old labor force in October 1969 compared with less than one-third 10 years earlier. (See chart 1.)

These changes reflected increases in three factors—the number of persons in this age group; the proportion of young persons remaining in school until they are graduated from high school and college; and the proportion of students who work. The population 16 to 21 years old reached 20 million in 1969, a gain of 6 million over the decade, and the proportion in school jumped to 60 percent, up 10 percentage points. Labor force participation rates rose substantially for men and women who were in school and for women who were no longer attending school, but declined somewhat for men who were not students.

The labor force

Over the decade the number in the labor force rose among men and women enrolled in school and among women no longer in school. (See table 1.) The number of out-of-school young men in the labor force increased between 1959 and the mid-1960's, but then decreased in recent years to nearly its earlier level because of the large numbers entering the Armed Forces as the Viet Nam war expanded.

Contributing to the large increase in the number of student workers was a sharp rise in the proportion who work. Thirty-nine percent of all students 16 to 21 years old were in the labor force in October 1969, compared with only 31 percent a decade earlier. Most of the gain in the rates occurred during the second half of the 1960's, a period in which economic expansion was substantial. The increase in labor force rates was about as large for 16- and 17-year-olds as for older students, but somewhat greater for women than for men.

The reasons for the increase in the 1960's in the proportion of students in the labor force are mixed, both in terms of financial pressures and social patterns. The desire of students to work tends to be independent of family resources and is more dependent on personal motivation. Some students work to get experience in the field which they hope to enter upon finishing school. A second group relies on their earnings to pay tuition and to buy basic necessities, such as food and clothing, while they are continuing their education. A third group wants the extra money for entertainment, automobiles, more expensive clothes, or for similar purposes.

The increase in the proportion of teenagers (16 to 19 years old) enrolled in school was greater for Negroes than for whites between 1959 and 1969. However, in both years, Negroes ² accounted for about 10 percent of the teenage students in the labor force. The faster rise in the proportion of Negro teenagers in school was offset by the faster rise in the labor force rates for white students. In October 1969 about 30 percent of the Negro and 40 percent of the white students were in the labor force. Among 16- and 17-year-olds in school

Anne M. Young is an economist in the Division of Labor Force Studies, Burcau of Labor Statistics.

a greater proportion of the white than Negro students were in the labor force, but among 18- and 19-year-olds the proportions were about the same.

Among out-of-school youth, the labor force participation rate for men edged down somewhat over the decade to 90 percent. For girls, the rate rose about 10 percentage points to 63 percent because of a rise among those 18 to 21 years old.

Several factors probably contributed to the decrease in the labor force rate for men. Many of the physically able have entered the Armed Forces in recent years, so that, of those remaining in the civilian population, a somewhat greater proportion than formerly are physically unable to work. Also, some young men are out of the labor force in the weeks just prior to entering, or soon after they have been discharged from, the Armed Forces.

The large rise in the labor force rate for young women no longer in school reflects several factors. With the recent edging up of the average age at first marriage the proportion of young women who are unmarried has increased; their labor force participation rate is much higher than for married women. Also, the labor force participation rate for young married women has recently been increasing more rapidly than in earlier years, in part because of declines in birth rates. This increase in women available for employment coincided with job opportunities, especially for clerical and service workers, resulting from the expansion in economic activity during the 1960's.

Youths no longer in school in 1969 had, on average, more schooling than their counterparts earlier in the decade. In October 1969, about 63 percent of the men and 81 percent of the women 16 to 21 years old who were out of school and in the labor force had at least a high school education 3 compared with 56 and 77 percent, respectively, in 1964.

College-age workers

There were sharp increases during the second half of the 1960's in both the number and the proportion of 18- to 21-year-olds attending college, as the large number of children born in the "baby boom" years immediately following World War II reached 18. The increase in the proportion of men 18 to 21 years old attending college resulted from both the continuation of the long-term trend

toward more schooling and the added incentive for some to go to school to avoid draft calls resulting from expansion of the Viet Nam conflict. In the early 1960's, the proportion of all 18-to 21-year-old men in college full time rose slightly (to 31 percent in 1964), but in the following 5 years it rose markedly. By October 1969, about 2.4 million, or 42 percent of all men in the age group, were in college full time. The increase over the decade in the proportion of 18- to 21-year-old

Chart 1. Population and labor force, persons 16 to 21 years old, by school enrollment status, October 1959–59

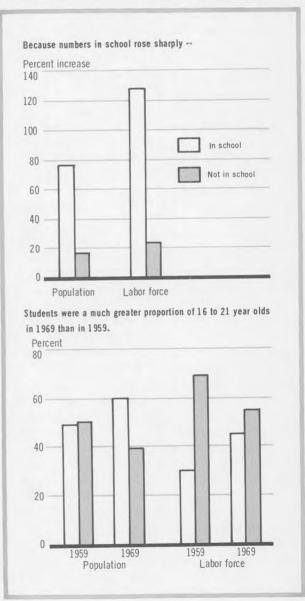


Table 1. Employment status of students and nonstudents 16 to 21 years old, by age and sex, October 1959, 1964, and

[Numbers in thousands]

| | 16 to 21 years old | | | | | | | | | | | | |
|---|---|---|---|---------------------------------------|--|------------------------------------|---|--|--|---|---|---|--|
| Enrollment status, sex, and employment status | | Total | | | 16 and 17 years | | | 18 and 19 years | | | 20 and 21 years | | |
| | 1969 | 1964 | 1959 | 1969 | 1964 | 1959 | 1969 | 1964 | 1959 | 1969 | 1964 | 1959 | |
| ENROLLED IN SCHOOL | | | | | | | | | | | | | |
| MEN | | | | | | | | | | | | | |
| Civilian noninstitutional population | 6, 494 | 5, 226 | 3,741 | 3, 452 | 3, 179 | 2, 323 | 1, 886 | 1, 238 | 918 | 1, 156 | 809 | 500 | |
| Ci vilian labor force. Labor force participation rate ¹ Employed. Unemployed. Unemployment rate ² | 2,751 42.4 2,449 302 11.0 | 1,826 34.9 1,665 161 8.8 | 1, 298 34. 7 1, 183 115 8. 9 | 1,410 40.8 1,228 182 12.9 | 1, 034 32. 5 930 104 10. 1 | 779 33. 5 701 78 10. 0 | 821 43. 5 739 82 10. 0 | 446 36. 0 408 38 8. 5 | 330 35. 9 299. 31 9. 4 | 520 45. 0 482 38 7. 3 | 346 42.8 327 19 5.5 | 189 37. 8 183 6 3. 2 | |
| WOMEN | | | | | | | | | | | | | |
| Civilian noninstitutional population | 5, 600 | 4, 510 | 3, 127 | 3, 259 | 3, 003 | 2, 193 | 1,465 | 958 | 683 | 876 | 549 | 251 | |
| Civilian labor force | 2, 007 35. 8 1, 746 261 13. 0 | 1,102 24.4 962 140 12.7 | 800 25.6 742 58 7.2 | 1,090 33.4 930 160 14.7 | 683 22.7 582 101 14.8 | 515 23. 5 471 44 8. 5 | 537 36. 7 466 71 13. 2 | 241 25. 2 215 26 10. 8 | 196 28.7 185 11 5.6 | 380 43. 4 350 30 7. 9 | 178 32.4 165 13 7.3 | 35. 5 86 (3) | |
| NOT ENROLLED IN SCHOOL | | | | | | | | | | | | | |
| MEN | | | | | | | | | | | | | |
| Civilian noninstitutional population | 2,935 | 3, 104 | 2, 735 | 315 | 363 | 418 | 1, 288 | 1, 196 | 1, 097 | 1,332 | 1,545 | 1, 220 | |
| Civilian labor force Labor force participation rate 1 Employed Unemployed Unemployment rate 2 | 2,627 89.5 2,408 219 8.3 | 2, 838 91. 4 2, 499 339 11. 9 | 2, 512 91.8 2, 155 357 14.2 | 247 78. 4 209 38 15. 4 | 263 72.5 224 39 14.8 | 335 80.1 249 86 25.7 | 1, 136 88. 2 1, 035 101 8. 9 | 1,100 92.0 954 146 13.3 | 1, 019 92. 9 865 154 15. 1 | 1, 244 93. 4 1, 164 80 6. 4 | 1, 475 95. 5 1, 321 154 10. 4 | 1, 158 94. 9 1, 041 117 10. 1 | |
| WOMEN | | | | | | | | | | | | | |
| Civilian noninstitutional population | 5, 087 | 4, 654 | 4, 170 | 455 | 505 | 514 | 2, 040 | 1, 884 | 1,655 | 2, 592 | 2, 265 | 2, 001 | |
| Civilian labor force | 3, 184 62. 6 2, 847 337 10. 6 | 2,613 56.1 2,257 356 13.6 | 2, 202 52. 8 1, 952 250 11. 4 | 206 45. 3 151 55 26. 7 | 215 42.6 159 56 26.0 | 230 44.7 195 35 15.2 | 1, 346 66. 0 1, 198 148 11. 0 | 1, 135 60. 2 961 174 15. 3 | 951 57. 5 826 125 13. 1 | 1,632 63.0 1,498 134 8.2 | 1, 263 55. 8 1, 137 126 10. 0 | 1, 021 51. 0 931 90 8. 8 | |

Percent of civilian noninstitutional population in the labor force.
Percent of civilian labor force who were unemployed.

women in college full time was even sharper than for men; at 27 percent, the percentage was nearly double that for 1959. These figures exclude the very small proportions attending college part time in October 1969.

Labor force participation rates have increased substantially for both high school and college students at the same time that a broader segment of the population has remained longer in school. (See table 2.) With increasing costs of higher education, the past 5 years have witnessed a sharp rise in the proportion of full-time college students 18 to 21 years old who are in the labor market. After remaining close to 30 percent for men and ranging between 20 and 25 percent for women between 1959 and 1964, the labor force rate in 1969 reached 39 percent and 35 percent, respectively, for men and for women.

A small proportion, 6 percent, of these young men attending college full time were married. Most of these students have financial obligations to their family which the average unmarried student does not. As a result, 62 percent of them were in the labor force in October 1969, and about one-fourth of those employed in nonfarm industries worked at full-time jobs, much larger proportions than for unmarried male full-time college students 18 to 21 years old.

Kinds of work

In spite of the sharp rise over the decade in the number of 16- to 21-year-olds enrolled in school and in the proportion in the labor force, the number of students in this age group employed in October 1969, at 4.2 million, was about 1 million

³ Percent not shown where base is less than 100,000,

NOTE: Because of rounding, sums of individual items may not equal totals.

fewer than the number not in school, 5.3 million. Over the 10-year period, the number of employed students in this age group jumped by 2.3 million, double the increase for those not in school.

Youths who work and also attend school full-time are usually able to hold only part-time jobs, in contrast to the full-time jobs held by those who are not in school. For example, of the men students attending college full time and working in nonagricultural industries, more than 8 out of 10 worked at part-time jobs; among those not in school, roughly the same proportion worked at full-time jobs in October 1969.

Distributions of occupations held by students and nonstudents are different because most students are generally available only for part-time work. Among the men, a much smaller proportion of the students hold blue-collar jobs, in part because full-time work is generally the norm in these occupations. (See table 3.) On the other hand, greater proportions of men students hold white-collar jobs, especially clerical and sales, and service jobs, where part-time work may be obtained more readily.

Among women, a much larger proportion of the

students than nonstudents were employed in service occupations, mainly because many students work as part-time maids in private homes or do babysitting. Over half the women not in school held clerical jobs, and another 16 percent were blue-collar workers, primarily operatives, both significantly greater proportions than obtained among women students.

The 1959-69 period witnessed several changes in the occupational distributions of employed students and nonstudents. The continuing decline in the total number of persons employed in agriculture, because of technological developments and movement off the farm, was reflected in a 10-percentage point drop in the proportion of 16- to 21-year-old male students working as farm laborers. The proportion of students in service occupations rose by 7 percentage points, and there was some rise in the proportion who were nonfarm laborers. Among men not in school, the decline in the proportion who were farm workers was about the same as for those in school. The rise in the proportion of nonstudents who were blue-collar workers resulted largely from increases in the number and proportion working as operatives.

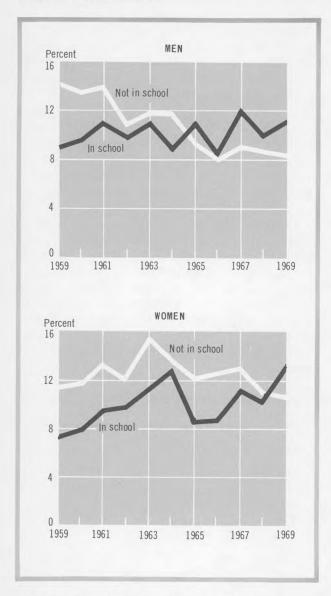
Table 2. Labor force status of students 16 to 21 years old, by sex, age, and type of school, October 1959, 1964, and 1969 [Numbers in 'housands]

| | | 1969 | | | 1964 | | 1959 | | | |
|--|--|---------------------------------------|--|--|--------------------------------------|--|---------------------------------------|-------------------------------------|--|--|
| Sex, age, and type of school | Population | Labor force | Labor force participa-tion rate | Population | Labór force | Labor force participa- tion rate | Population | Labor force | Labor force participa- tion rate | |
| MEN | | | | | | | | | | |
| Enrolled in school, 16 to 21 years old | 6, 494 | 2, 751 | 42. 4 | 5, 226 | 1,826 | 34,9 | 3,730 | 1, 302 | 35. | |
| Elementary or high school, 16 to 21 years old_ 16 to 19 years 16 and 17 years 18 and 19 years | 3, 866 3, 822 3, 333 489 | 1, 670 1, 639 1, 373 266 | 43. 2 42, 9 41. 2 54. 4 | 3, 427 3, 387 3, 014 373 | 1, 192 1, 160 985 175 | 34. 8 34. 2 32. 7 46. 9 | 2, 513 2, 495 2, 231 264 | 871 858 749 109 | 34. 34. 33. 41. | |
| College, full time, 16 to 21 years old | 2, 492 116 2, 376 1, 352 1, 024 | 955 35 920 515 405 | 38. 3 30. 2 38. 7 38. 1 39. 6 | 1, 627 158 1, 469 801 668 | 472 44 428 213 215 | 29. 0 27. 8 29. 1 26. 6 32. 2 | 1, 115 87 1, 028 605 423 | 336 27 309 175 134 | 30. (1) 30. 28. 31. | |
| College, part time, 16 to 21 years old WOMEN | 136 | 126 | 92. 6 | 172 | 162 | 94. 2 | 102 | 95 | 93. | |
| Enrolled in school, 16 to 21 years old | 5, 600 | 2, 007 | 35. 8 | 4, 510 | 1, 102 | 24. 4 | 3, 127 | 802 | 25. | |
| Elementary or high school, 16 to 21 years old | 3, 441 3, 397 3, 137 260 | 1, 181 1, 157 1, 054 103 | 34. 3 34. 1 33. 6 39. 6 | 3, 116 3, 085 2, 877 208 | 723 711 652 59 | 23. 2 23. 0 22. 7 28. 4 | 2, 244 2, 233 2, 075 158 | 542 540 491 49 | 24. 24. 23. 31. | |
| College, full time, 16 to 21 years old | 1,983 115 1,868 1,135 733 176 | 681 31 650 377 273 145 | 34. 3 27. 0 34. 8 33. 2 37. 2 82. 4 | 1, 252 120 1, 132 702 430 142 | 257 27 230 141 89 122 | 20. 5 22. 5 20. 3 20. 1 20. 7 85. 9 | 796 105 691 478 213 87 | 180 11 171 107 64 80 | 22. 10. 24. 22. 30. | |

¹ Percent not shown where base is less than 100,000.

NOTE: Because of rounding, sums of individual items may not equal totals.

Chart 2. Unemployment rates of men and women 16 to 21 years old, October 1959-69



For women students, the greatest change over the period was a 10-percentage point rise in the proportion in white-collar jobs, accompanied by a drop in the proportion in service occupations, due primarily to a decline in the proportion working in private households. In spite of this drop, service occupations remained a major source of employment for women students in 1969. Among those not enrolled in school, there was no change in the already high proportion in white-collar work, 64 percent. Farm work also declined as an occupation for both in- and out-of-school

young women. While the proportion of out-ofschool women in service occupations did not change significantly, within that category the proportion in household service declined while that in other services rose.

Unemployment trends

About 1.1 million workers 16 to 21 years old were unemployed in October 1969. Half of them were students. Ten years earlier, students constituted only 20 percent of the young unemployed. Also, in October 1969, almost 40 percent of all unemployed persons 16 years old and over were 16 to 21 years old, although this age group made up only 13 percent of the labor force. Unemployment rates for student and nonstudent youths are consistently much higher than those for older, more experienced persons. The rate for persons 25 to 54 years old was 2.2 percent at the time of the October survey; for persons 16 to 21 years old it averaged 10.6 percent, ranging from a low of 8 percent for men not in school to 26 percent for Negro women students.

Unemployment rates are now higher for students than for nonstudents; a decade ago the rates were higher for those out of school. (See chart 2.) Between 1959 and 1964, unemployment rates for men students moved within a narrow range, while those for nonstudents decreased but remained higher than for students. In 1965, the nonstudent rate moved below that for in-school youth, and it has remained below since then. Among women, the unemployment rate for those out of school has shown comparatively little net change over the 10 year period but the rate for students has moved irregularly higher; by 1969 it was almost double that for 1959. In October 1969, for the first time, the unemployment rate for women students was higher than that for out-of-school women. This development may be only a single-year phenomenon or it may presage a trend similar to that for male students.

The higher unemployment rate among students in 1969 does not reflect an increase in the proportion of the labor force in the youngest age group. In fact, among both students and nonstudents, a somewhat smaller proportion of the labor force was 16 and 17 years old in 1969 than in 1959; and unemployment rates are highest among the youngest. Among the students, however, half of

the labor force in 1969 was 16 and 17 years old, this had a substantial influence on raising the overall rate for the 16- to 21-year-old students. The 16- and 17-year-olds made up only 8 percent of the young labor force not in school.

The higher rate among students may reflect the much larger numbers seeking employment and their limited availability with respect to hours of work. On the other hand, the decrease in the unemployment rate among those out of school undoubtedly reflects to some extent their higher educational attainment. The proportion with at least a high school education has increased over the years.

Unemployment rates among youths result in part from movement into the labor force. The work pattern of young persons typically consists of a series of entries, withdrawals, and reentries into the labor market and consequent periods of unemployment as they go through the process of

settling into a position with some degree of permanence or the completion of apprenticeship or other formal training.⁴ While the school calendar governs much of students' movement into and out of the labor force, out-of-school youth typically switch jobs as opportunity allows when working conditions, pay, or other factors make another job more desirable. In the absence of the structured school-to-work patterns found in many European countries,⁵ finding "permanent" employment in the United States becomes a process that may take several years rather than a single act of choice. This kind of labor market activity produces relatively high rates of unemployment.

The large proportion of inexperienced new entrants in the 16 to 21 labor force is also an important factor contributing to the high unemployment rate for the age group. The traditional ways of seeking employment in this country, through friends and relatives or by direct applica-

Table 3. Major occupation group of employed persons 16 to 21 years old, by school enrollment status, sex, and color, October 1969

[Percent distribution]

| | E | nrolled in school | | Not enrolled in school | | | |
|---|--|---|---------------------------------------|---------------------------------------|---------------------------------------|----------------------------------|--|
| Major occupation and sex | Total | White | Negro and other races | Total | White | Negro and other races | |
| MEN | | | | | | | |
| Total: Number (thousands) Percent | 2, 449 100. 0 | 2, 239 100. 0 | 210 100. 0 | 2, 408 100. 0 | 2, 021 100. 0 | 387 100. 0 | |
| White-collar Professional and technical Managers and officials Clerical Sales | 29. 4 7. 2 1. 5 10. 8 9. 9 | 29. 9 7. 3 1. 6 10. 4 10. 6 | 23. 8 5. 7 . 5 14. 8 2. 9 | 18. 6 3. 5 2. 6 8. 9 3. 6 | 20. 0 4. 0 2. 9 9. 1 4. 0 | 11. 1. 1. 8. 1. | |
| Blue-collar Craftsmen Operatives Nonfarm laborers | 43. 3 5. 2 17. 9 20. 2 | 43. 8 5. 4 17. 8 20. 6 | 38. 1 3. 3 18. 6 16. 2 | 69. 8 15. 6 36. 3 17. 9 | 69. 1 16. 3 35. 9 16. 9 | 73. 2 11. 9 38. 4 22. 9 | |
| Service workers Private household Other service | 20. 3 . 3 19. 9 | 19.5 .4 19.2 | 28. 1 | 6. 5 . 1 6. 4 | 5. 8 . 1 5. 7 | 9.8 | |
| Farm workers | 7. 0 | 6.7 | 10. 0 | 5. 2 | 5. 1 | 5. 4 | |
| WOMEN | | | | | | 211 | |
| Total: Number (thousands) Percent | 1,746 100.0 | 1,592 100.0 | 154 100, 0 | 2, 847 100. 0 | 2,530 100.0 | 317 100. 0 | |
| White-collar | 58. 4 6. 7 . 6 36. 3 | 58. 1 6. 6 . 6 35. 4 | 62. 5 7. 2 45. 4 | 64. 0 4. 3 . 9 53. 7 | 66. 3 4. 6 1. 0 55. 4 | 45. 5 2. 5 39. 8 | |
| Sales | 14.9 | 15. 4 | 9.9 | 5. 1 | 5. 3 | 3. 1 | |
| Blue-collar | 5. 0 . 2 3. 7 1. 1 | 4.9 .2 3.5 1.1 | 6. 6 5. 9 . 7 | 16. 0 . 9 14. 4 . 7 | 14.9 .9 13.3 .7 | 24.8 | |
| Service workers | 35. 1 14. 3 20. 8 | 35. 8 14. 8 21. 0 | 27. 6 8. 6 19. 1 | 19. 6 3. 4 16. 2 | 18. 4 3, 0 15. 4 | 28. 8 6. 3 22. 6 | |
| Farm workers | 1.4 | 1.3 | 3, 3 | . 4 | .3 | .9 | |

NOTE: Because of rounding, sums of individual items may not equal totals.

Table 4. Duration of unemployment of persons 16 to 21 years old, by school enrollment status, age, and sex, October 1969

[Percent distribution]

| | | | Enrolled in | n school | | Not enrolled in school | | | | |
|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|--------------------|---------------------------------|---------------------------------|--|
| Weeks u | Total, 16 to 21 years old | 16 and 17 years | 18 and 19 years | 20 and 21 years | Total, 16 to 21 years old | 16 and 17 years | 18 and 19 years | 20 and 21 years | | |
| | | | | | | | | | | |
| Total unemployed: | Number (thousands) | 302 100. 0 | 182 100. 0 | 82 100. 0 | (1) 38 | 219 100. 0 | (1) 38 | 101 100. 0 | 100.0 | |
| 5 to 10 weeks | | 56. 1 37. 6 3. 3 3. 0 | 52. 7 40. 7 3. 3 3. 3 | 61. 0 34. 1 2. 4 2. 4 | | 69. 1 19. 8 4. 1 6. 9 | | 64. 0 18. 0 8. 0 10. 0 | 77. 2 20. 3 1. 3 1. 3 | |
| | WOMEN | | | | | | | | | |
| Total unemployed: | Number (thousands) Percent | 261 100. 0 | 160 100. 0 | (1) 71 | (1) 30 | 337 100. 0 | (1) 55 | 148 100. 0 | 134 100. 0 | |
| 5 to 10 weeks 11 to 14 weeks | | 61. 4 32. 2 1. 5 4. 9 | 59. 0 32. 9 2. 5 5. 6 | | | 58. 5 22. 0 7. 1 12. 5 | | 60. 8 15. 5 8. 8 14. 9 | 58. 2 21. 6 6. 7 13. 4 | |

¹ Percent not shown where base is less than 75,000.

NOTE: Because of rounding, sums of individual items may not equal totals.

tion to the employer, may result in a considerable time lag between becoming available for employment and actually starting a job. One of the major functions of the family for youth of this age is the help afforded by appropriate connections so that the transition to maturity and the assumption of the work role is smoothed over. The absence of such family connections and limited knowledge of the job market handicap many in searching for employment.

Table 5. Occupation of last job of unemployed persons 16 to 21 years old, by sex and school enrollment status, October 1969

[Percent distribution]

| | M | en | Women | | |
|--|---|---|---------------------------------------|--|--|
| Occupation | Enrolled | Not enrolled | Enrolled | Not enrolled | |
| Total unemployed: Number (thousands) Percent with no work experience Percent with work experience | 302 32.7 67.3 | 216 12.5 87.5 | 263 45. 2 54. 8 | 336 26. 2 73. 8 | |
| Total with work experience: Number (thousands) Percent | 203 100.0 | 189 100. 0 | 144 100. 0 | 248 100. 0 | |
| Professional, technical, mana- gers, and proprietors. Clerical. Sales. Crafismen and foremen. Operatives. Nonfarm laborers. Service workers. Farm workers. | 3.9 6.8 4.9 8.3 22.8 26.7 19.4 7.3 | 8. 5 9. 5 2. 6 11. 6 31. 7 23. 3 9. 0 3. 7 | 6. 2 34. 0 8. 3 . 7 15. 3 | 2. 0 36. 7 7. 3 1. 6 25. 8 . 4 25. 8 | |

NOTE: Because of rounding, sums of individual items may not equal totals.

The high unemployment rate produced by frequent job changes tends to obscure the fact that the average period of unemployment is relatively short for young workers. As of October 1969, 6 out of 10 jobless workers 16 to 21 years of age had been unemployed for less than 5 weeks. The men not in school had an even higher proportion jobless fewer than 5 weeks. (See table 4.) Both students and nonstudents had higher proportions of short-term unemployment than did persons 45 years old or older; one of the reasons may be that young persons are more likely to accept lower paid or temporary jobs. While unemployment rates for young persons were above those for older workers, a smaller proportion of the youths were jobless for a long time-15 weeks or more-because they either found jobs more easily or were more likely to drop out of the labor force.

Occupations of the unemployed

A substantial proportion of the persons 16 to 21 years old unemployed in October 1969, especially those in school, had no prior work experience. (See table 5.) Among the jobless students, about one-third of the men and nearly one-half of the women had never worked, substantially higher proportions than among those not in school. The much larger proportion for jobless students resulted from the fact that a greater share of them

were 16 and 17 years old, the age group most likely to have had no prior work experience.

The occupational distribution of the last jobs of the unemployed youths who had work experience was generally somewhat different from that for employed youths of the same school status and sex. Among the men, about one-half of the jobless students who had worked at some time had been operatives or nonfarm laborers, but only 38 percent of the employed students were in these two occupation groups; on the other hand, 16 percent of the jobless students had been whitecollar workers, a smaller proportion than among the employed. Among the men who were not students, about two-thirds of the experienced unemployed and of the employed were blue-collar workers, primarily operatives and nonfarm laborers.

Among jobless women students with work experience, about 70 percent were equally divided between former clerical and service workers, the same proportions as among the employed. A larger proportion of the jobless than of the employed had been operatives, and relatively fewer had been sales workers. Among women not in

school, clerical workers were underrepresented among the experienced unemployed while operatives and service workers were overrepresented.

In the months since the survey in October 1969. on which the analysis in this article is based, the economy has generally slowed down. Youth unemployment rates have begun to reflect the decline. As of late spring 1970, the overall 16- to 21-year-old rate was an average of 2 percentage points higher than a year earlier. When jobs become scarce, the greatest difficulty in finding work may be expected to occur among the young, less qualified workers. As a result of the recent overall increase in unemployment, many young students encountered difficulty in securing summertime employment. Some of them may not be able to continue with their college studies (or they may have to work during the school year) if they do not earn enough during the summer, especially if Federal Government loan funds or bank loans at reasonable interest rates are not readily available. The rate of demobilization of the Armed Forces will also affect the labor market for young workers as young men reenter civilian life.

---FOOTNOTES-

¹ Data pertain to the civilian noninstitutional population and are based on information from supplementary questions to the October 1969 monthly survey of the labor force, conducted for the Bureau of Labor Statistics by the Bureau of the Census through its Current Population Survey. The data in this report relate primarily to persons 16 to 24 years old.

This is the 11th in a series of reports on this subject. The most recent was published in the *Monthly Labor Review*, August 1969, pp. 23–32, and reprinted with additional tabular data and explanatory notes as Special Labor Force Report No. 111. Reprints of all articles in the series are available upon request to the Bureau or to any of its regional offices.

² In this report, data for the grouping, "Negro and other races" are used to represent data for Negroes, since Negroes constitute about 92 percent of all persons in the grouping. In addition to Negroes, the grouping includes American Indians, Filipinos, Chinese, and Japanese, among others.

³ See Howard Hayghe, "Employment of High School Graduates and Dropouts," *Monthly Labor Review*, August 1970, pp. 35-42.

⁴ See Marcia Freedman, *The Process of Work Establishment* (New York, Columbia University Press, 1969).

⁵ See Thomas W. Gavett, "Youth Unemployment and Minimum Wages," *Monthly Labor Review*, March 1970, pp. 3-12.

Unemployment in the United States and seven foreign countries

Shortage of jobs for teenagers figured significantly in unemployment during the 1960's

CONSTANCE SORRENTINO

A NEW INTERNATIONAL COMPARISON of unemployment rates reveals continued differences in overall joblessness among major industrial countries, and especially marked differences in the success of teenagers in finding work. In all countries studied, teenagers had more difficulty than adults in securing jobs, but the degree of difficulty varied widely. In 1968, for instance, the United States, Canada, and Italy had, by far, the highest youth unemployment rates—over 10 percent of their teenage labor forces was unemployed. Japan had the lowest level of teenage unemployment, at 2.3 percent. Italian and American teenagers had unemployment rates over 5 times as great as adults; in contrast, Japanese youth unemployment was only twice as high as adult unemployment. In general, countries with serious youth unemployment problems tended to have the highest overall unemployment rates in the 1960's.

This article—the fourth ¹ in a series of reports on unemployment rates adjusted to U.S. definitions—presents comparative data on labor force and unemployment for Canada, France, Great Britain, Italy, Japan, Sweden, West Germany, and the United States during 1960–69. Some revisions have been made in the previously published data. The nature of these changes will be discussed later in this report. Adjusted unemployment rates by age and sex for seven countries—excluding France—are presented here for the first time. These data relate only to 1968.

General trends

During the second half of the 1960's, unemployment in the United States moved steadily downward, reaching a 16-year low of 3.5 percent in 1969. In contrast, unemployment rates in most other major industrial countries rose in the late 1960's. Of the seven foreign countries covered in this study, Canada, Italy, and Great Britain had unemployment rates higher than the United States in 1969. Unemployment in France, West Germany, Sweden, and Japan remained below the U.S. level in 1969, but the gap had narrowed significantly since the early years of the decade, when the U.S. jobless rate was over 5 percent.

Nevertheless, the gap began to widen again in late 1969 and early 1970. Average unemployment in the second half of 1969 was lower than, or equal to, unemployment in the first half in all countries except the United States and Canada. Seasonally adjusted unemployment in the United States rose to 3.8 percent in September and October 1969, dropped to 3.5 percent in November and December, but moved upward again to 4.2 percent in the first quarter of 1970. By the second quarter, U.S. unemployment had risen to 4.8 percent. In Canada, unemployment also rose in late 1969 and by May 1970 was up to 6.2 percent. The United States, Canada, and Great Britain were the only countries with unemployment higher in early 1970 than in the same period of 1969, and only Canada had a higher unemployment rate than the United States by early 1970.

A slowdown in European economic growth in 1967 caused unemployment rates in France, West Germany, and Sweden to rise to decade highs. In 1967, the West German unemployment rate reached 1 percent and the Swedish rate surpassed 2 percent for the first time during the decade. In France, the 3-percent level was crossed for the first time in 1968, when nationwide strikes involving over half the French labor force virtually paralyzed the economy during May and June.

Constance Sorrentino is an economist in the Division of Foreign Labor Statistics and Trade, Bureau of Labor Statistics.

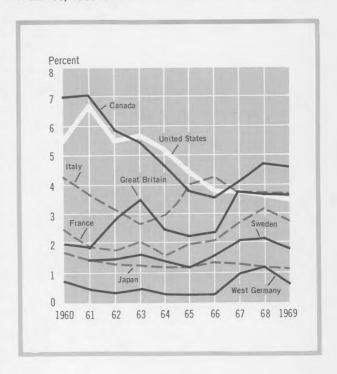
After falling to 2.2 percent in 1965, unemployment in Great Britain rose to 3.8 percent in 1967, the same rate as in the United States that year, and remained at about the same level in 1968–69. The British Government's stringent deflationary measures to combat balance of payments problems had an adverse impact on the labor market. In Italy, unemployment surpassed the U.S. rate in 1966, the first time since the 1950's, and continued slightly higher than the U.S. rate in 1969.

Canada began and ended the decade with the highest unemployment rate among the countries included here. In the intervening years, unemployment had moved downward to 3.6 percent in 1966, the lowest rate in Canada since 1956. Unemployment subsequently rose sharply to 4.8 percent in 1968 and continued at about the same level in 1969. Growth in jobs could not keep up with extremely large increases in the Canadian labor force during the 1960's. In contrast, Japan's labor force growth was not fast enough to cope with the demand for labor, and serious manpower shortages appeared after 1965. Unemployment was below 2 percent throughout the decade in Japan, reaching a 25-year low of 1.1 percent in 1969.

Unemployment trends by country

CANADA. The Canadian unemployment rate fell from 7 percent in 1960 and 1961 to 3.6 percent in 1966, generally paralleling the trend in the United States. (See chart 1 and table 1.) In 1967-69, however, the Canadian jobless rate rose well above 4 percent, while the U.S. rate continued to decline. As in the United States, Canada's uninterrupted years of economic growth during the 1960's were marred by an alarming rise in price levels during the later years of the decade. The Canadian unemployment rate rose in the late 1960's in response to restrictive monetary and fiscal policies instituted to combat inflation. The inflation-high unemployment problem in Canada worsened by the economy's regional imbalance. In 1969, there was virtually full employment in Ontario and the four Western provinces where inflationary pressures were strongest. In Quebec and the four Atlantic provinces, however, unemployment approached 9 percent in some months of 1969.

Chart 1. Adjusted unemployment rates in eight industrial countries, 1960-69



Canada's labor market also had to contend with extraordinary growth in the supply of labor. During the 1960's, Canada had the largest percentage increase in labor force of any of the countries studied. (See chart 2.) After an annual gain of about 2.5 percent in the early 1960's, the labor force grew at an accelerated rate of 3 to 4 percent annually, beginning in 1965. This reflected an acceleration in the number of young persons reaching working age, a new surge in the level of immigration, and continued high growth in the participation of women in the labor force. In contrast with earlier years, expansion of employment opportunities after 1966 was not rapid enough to fully absorb the marked increase in the labor force.

ITALY. After reaching a low of 2.7 percent in 1963, unemployment in Italy rose in 1964–65, as government policies to curb inflation caused a recession in the economy. By 1966, despite a shift to expansionary policies, the jobless rate was 4.3 percent, the highest rate since 1960. Economic growth picked up strongly in 1967, and the un-

Table 1. Labor force and unemployment in 8 industrial countries, 1960-1969

| Year | United | Canada 1 | France | Great Britain | Italy | Japan | Sweden | West Germany | France | Great Britain | Italy | Japan | Sweden | West Germany | |
|--|--|--|--|--|--|--|---|--|--|--|---|--|---|--|--|
| | States 1 | | | Adjusted to U.S. concepts | | | | | | | As published | | | | |
| | | | | | | Civili | an labor fo | rce 2 (in thou | isands) | | | | | | |
| 1960 | 69, 628 70, 459 70, 614 71, 833 73, 091 74, 455 75, 770 77, 347 78, 737 80, 733 | 6, 411 6, 521 6, 615 6, 748 6, 933 7, 141 7, 420 7, 694 7, 919 8, 162 | 19, 310 19, 200 19, 240 19, 550 19, 780 4 19, 950 4 20, 120 4 20, 270 4 20, 290 4 20, 320 | 23, 330 23, 600 24, 000 24, 190 24, 240 24, 420 24, 570 24, 530 24, 370 24, 290 | 20, 340 20, 270 20, 100 19, 760 19, 850 19, 650 19, 410 19, 560 19, 500 19, 280 | 44, 120 44, 610 45, 040 45, 420 46, 040 46, 770 47, 850 48, 810 49, 690 50, 150 | (3) 3, 581 3, 663 3, 731 3, 687 3, 711 3, 760 3, 742 3, 804 3, 832 | 25, 970 26, 180 26, 310 26, 490 26, 560 26, 730 26, 660 26, 190 26, 080 26, 410 | 18, 951 18, 919 19, 050 19, 398 19, 659 19, 829 20, 000 20, 147 20, 172 3 20, 195 | 24, 008 24, 299 24, 604 24, 711 24, 844 25, 040 25, 166 24, 974 24, 833 24, 764 | 20, 972 20, 882 20, 561 20, 134 20, 130 19, 920 19, 653 19, 763 19, 763 | 45, 110 45, 620 46, 140 46, 520 47, 100 47, 870 48, 910 49, 830 50, 610 50, 980 | (3) 3, 699 3, 746 3, 813 3, 779 3, 794 3, 841 3, 868 3, 868 | 26, 518 26, 772 26, 937 27, 066 27, 148 27, 300 27, 243 26, 751 26, 665 27, 001 | |
| | | | | | | Une | employed 5 | (in thousand | s) | | | | | | |
| 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 | 3, 852 4, 714 3, 911 4, 070 3, 786 3, 366 2, 875 2, 975 2, 817 2, 831 | 446 466 390 374 324 280 267 315 382 382 | 480 360 350 410 320 4 400 4 420 4 550 4 640 4 570 | 460 440 660 850 600 540 600 930 910 890 | 880 750 640 530 590 780 830 740 750 | 750 660 590 590 540 570 650 630 590 | (3) 53 54 63 57 43 59 79 84 72 | 200 120 100 120 90 80 70 260 310 4 180 | 239 203 230 273 216 269 280 365 431 379 | 360 341 463 573 381 329 360 560 564 559 | 836 710 611 504 549 721 769 689 694 | 750 660 590 590 540 570 650 630 590 | (3) 56 56 65 60 45 61 82 86 74 | 271 181 154 186 169 147 161 459 323 179 | |
| | | | | | | | Unemploy | ment rate 6 | | | | | | | |
| 1960 1961 1962 1963 1965 1966 1967 1968 1969 | 5. 5 7 5. 5 7 5. 7 5. 7 5. 7 5. 2 4. 5 3. 8 3. 6 5 | 7. 0 7. 1 5. 9 5. 5 4. 7 3. 9 3. 6 4. 1 4. 8 4. 7 | 2. 5 1. 9 1. 8 2. 1 1. 6 4 2. 0 4 2. 7 4 3. 2 4 2. 8 | 2. 0 1. 9 2. 8 3. 5 2. 5 2. 2 2. 4 3. 8 3. 7 3. 7 | 4. 3 3. 7 3. 2 2. 7 3. 0 4. 0 4. 3 3. 8 3. 8 3. 7 | 1.7 1.5 1.3 1.3 1.2 1.2 1.4 1.3 1.2 | (3) 1.5 1.5 1.7 1.5 1.2 1.6 2.1 2.2 1.9 | .8 .5 .4 .5 .3 .3 1.0 1.2 | 1. 3 1. 1 1. 2 1. 4 1. 1 1. 4 1. 4 1. 8 2. 1 1. 9 | 1. 6 1. 5 2. 0 2. 5 1. 6 1. 4 1. 5 2. 4 2. 4 | 4. 0 3. 4 3. 0 2. 5 2. 7 3. 6 3. 9 3. 5 3. 5 3. 4 | 1.7 1.4 1.3 1.3 1.1 1.2 1.3 1.3 1.3 | (3) 1.5 1.5 1.7 1.6 1.2 1.6 2.2 2.2 1.9 | 1.3 .8 .7 .8 .8 .7 .7 .7 .1 1.5 | |

1 Published and adjusted data for the United States and Canada are identical

² Published figures for Italy, Japan, Sweden, and West Germany include military personnel.

3 Not available.

A Preliminary estimates based on incomplete data.

Preliminary estimates based on incomplete data.

Published figures for the United States, Canada, Italy, Japan, and Sweden refer to unemployment as recorded by sample labor force surveys; for France, to annual estimates of unemployment; and for Great Britain and West Germany, to the registered

6 Adjusted figures; as a percent of the civilian labor force. Published figures; for France, unemployment as a percent of the civilian labor force; for Italy, Japan, and France, unemployment as a percent of the civilian labor force; for Italy, Japan, and Sweden, unemployment as a percent of the civilian labor force plus career military personnel; for Great Britain and West Germany, registered unemployed as a percent of employed wage and salary workers plus the unemployed. With the exception of France, which does not publish an unemployment rate, these are the usually published unemployment rates for each country. Published rates shown for Great Britain and West Germany cannot be computed from the data contained in this table. NOTE: Data for the United States relate to the population 16 years of age and over. Published data for Canada, France, Italy, Sweden, and West Germany relate to the population 14 years of age and over; and for Great Britain and Japan, to the population 15 years of age and over. The adjusted statistics, insofar as possible, have been adapted to the age at which compulsory schooling ends in each country. Therefore, adjusted statistics for France and Sweden relate to the population 16 years of age and over; and for West Germany, to the population 15 years of age and over. The age limits of adjusted statistics for Great Britain, Italy, and Japan coincide with the age limits of the published statistics. Although schooling is usually required until age 15 or 16 in Canada, the Canadian data remain at the 14-year-old age limit because sufficient data are not available for adjustment purposes.

SOURCE: National sources and statistical publications of the International Labor Office, the Organization for Economic Cooperation and Development, and the Statistical Office of the European Communities. Some data are based partly on estimates.

employment rate moved downward to 3.8 percent. By 1969, the Italian jobless rate was down to 3.7 percent. However, this was a full percentage point above the 1963 low for the decade.

Unlike any other country studied here, Italy's labor force declined in most years of the decade. Although the Italian unemployment rate was lower in 1969 than in 1960, the economy was actually providing fewer jobs for the country's rising population. Labor force participation rates declined to the point where less than half the Italian population of working age was in the labor force by 1969, the lowest activity rate among major industrial countries. This was attributed to insufficient demand for labor, resulting in nonentry into or withdrawal from the labor force, as well as emigration and structural developments such as longer education and earlier retirement.2

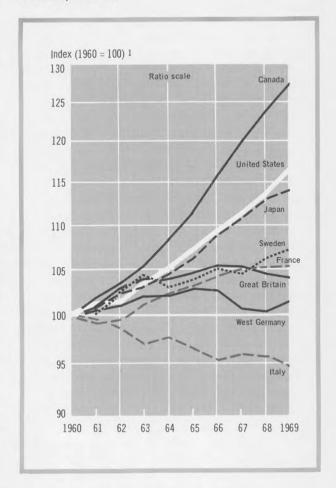
Large-scale emigration has generally helped ease the Italian labor market by reducing the potential number of unemployed. Higher wages and more job opportunities abroad are the attractions to emigration. Over the years, Italy has provided hundreds of thousands of workers for labor-short European countries such as Switzerland and West Germany. In 1969, 325,000 Italians were temporarily outside the country's borders, 264,000 of them working abroad. However, this was substantially below the levels of the early 1960's, when over 500,000 Italians were working abroad. Better economic conditions in Italy and recessions in other European countries caused many Italians to return home in the late 1960's. Over 100,000 Italians who had been working in West Germany left during the 1967 recession—many to return to Italy.

GREAT BRITAIN. In the late 1960's, measures to alleviate serious deficits in the balance of payments took priority over the full employment goal in Great Britain. Restrictive fiscal and monetary policies introduced in July 1966 were followed by even more stringent measures, including devaluation of the pound, in November 1967. Unemployment rose to the 3.7–3.8-percent level in 1967–69, the highest unemployment in Britain during the decade.

The actual effect of the Government's deflationary measures on employment conditions in Britain was probably much greater than the unemployment statistics indicate. Between 1966 and 1969 employment declined by 570,000, but unemployment rose by only 290,000. The British labor force declined in 1967-69, after rising slowly but steadily in the earlier years of the decade. British projections for the 1967-69 period, assuming the demand for labor at the 1964-66 level, had indicated continued slow increases in the labor force. Therefore, the decline in the British labor force in the late 1960's apparently reflected withdrawals from or nonappearance in the labor market of persons discouraged by the leveling off of economic activity.

A comparatively new feature of the British labor market was a more persistent transitional element in the labor force resulting from higher unemployment benefits and redundancy (severance) payments since 1965. According to Britain's Chancellor of the Exchequer, these payments allowed persons a longer time to look around before taking a job, and were a factor in the higher unemployment levels of the late 1960's.³

Chart 2. Trends in the civilian labor force in eight industrial countries, 1960–69



1 For Sweden, 1961=100.

Job vacancies, although considerably below their 1966 peak, remained fairly high in relation to the level of unemployment in 1968 and 1969. The level of vacancies would have been compatible with a much lower level of unemployment under the conditions of the early 1960's.

France. After a decade low of 1.6 percent in 1964, the French unemployment rate moved upward to 2.7 percent in 1967 as a slowdown in economic growth led to higher unemployment, shorter hours, and greater labor unrest. Although growth picked up in late 1967 and early 1968, unemployment continued to rise. In early 1968, unemployment moved toward the "warning point" for the economy set by the Fifth Plan and became

a political issue in France for the first time in the decade.

France's economic and social problems came to a head in the upheavals of May and June 1968, which interrupted all economic activities. After the spring strikes, however, unemployment moved downward, as French producers made up for back orders and attempted to meet the increased consumer demand created by the sharp wage increases of the strike settlement. By 1969, unemployment was down to 2.8 percent, and skilled labor was becoming increasingly scarce. Reported job vacancies increased rapidly in 1969 and, by December, were 3 times as high as the prestrike level.

SWEDEN. The Swedish unemployment rate stayed below the 2 percent level until 1967–68, when a slowdown in economic activity and a particularly hard winter caused it to rise to slightly over 2 percent. The February 1968 unemployment rate of 2.7 percent was the highest since the late 1950's in Sweden. Unemployment declined to 1.7 percent in the second half of 1969, as economic growth accelerated, and averaged 1.9 percent for the year.

In Sweden, "active labor market" policies are highly developed and provide a comprehensive system of institutions for retraining and relief works.4 The Swedish Labor Market Board acted quickly in 1967 and 1968 to meet the unemployment problem, and its programs kept the jobless rate from moving higher. Adding the annual average number of persons employed in public works (20,000) and registered unemployed persons receiving vocational training or retraining (14,000) to the Swedish unemployed count in 1968 would increase the comparative unemployment rate from 2.2 to 3.1 percent. Thus, without the Swedish Government's actions, the unemployment rate would have moved much closer to the U.S. rate of 3.6 percent that year. In 1969, the number of persons employed on public relief projects declined to 15,600, but the number of registered unemployed persons in training programs remained at 14,000.

Japan. The Japanese unemployment rate fluctuated within the narrow range of 1.1–1.4 percent during 1962–69, after a decade high of 1.7 percent in 1960. Although Japan's labor force grew almost

14 percent during the decade (surpassed only by Canada and the United States), years of booming economic growth opened up more job opportunities than the available supply of labor could fill. The extent of the labor shortage was revealed by the fact that, in 1969, there were about five job openings for every new high school graduate entering the labor market. Because of the severe labor shortage, employers were recruiting high school students about a year in advance. For those other than high school graduates, the job-offer-to-job-seeker ratio reached a record high of 1.6 in October 1969.

West Germany. In the years 1960–66, West Germany was confronted with serious labor shortages. Even the normally inactive handicapped, less productive, and older workers had largely been integrated into the working process. Teenagers had little difficulty finding work, and their unemployment rates were about the same as the overall rate. During 1964–66, unemployment had fallen to the incredibly low level of 0.3 percent in West Germany, down from 0.8 percent in 1960.

After years of sustained growth, the West German economy began to slow down in mid-1966. In 1967, for the first time in the history of the German Federal Republic, real output fell short of the level of the preceding year. The unemployment rate more than tripled, rising to 1 percent in 1967, and job vacancies fell below the number of registered unemployed for the first time in the decade. Withdrawals from the labor force of both foreign workers and German nationals kept the jobless rate from going higher. Between mid-1966 and mid-1967, almost 300,000 foreign workers left West Germany. Employment of German nationals dropped by 560,000 in 1967, but unemployment rose by only 190,000.

The unemployment rate increased to 1.2 percent in 1968 because of relatively high unemployment levels in the early part of the year. In the second half of 1968, unemployment declined considerably, and by 1969 averaged only 0.7 percent as manpower shortages appeared again and the labor market became increasingly tight. By October 1969, there were over seven vacancies reported for every one person registered as jobless. Foreign workers returned to West

Germany as the economic picture brightened, reaching a record level of 1.4 million in 1969, over 5 percent of the labor force. By early 1970, there were 1.6 million foreign workers in West Germany.

Unemployment rates by age and sex

Table 2 presents 1968 unemployment rates by age and sex adjusted to U.S. concepts for seven countries. Reliable estimates could not be made for France, and it has been excluded from the comparison. It should be noted that data for West Germany do not relate to the full year. Five age groups are shown—all ages, teenagers, 20 to 24 years, 25 to 54 years, and 55 years and over. The 25 to 54 age group is referred to as adults for comparison with youth and older worker unemployment rates in the following discussion.

Youth unemployment. In the United States, young workers have had substantially higher rates of unemployment than adults. In fact, in every year since the end of World War II, in recession and prosperity alike, teenagers have had the highest unemployment rates of any age group in the labor force. Teenagers abroad are also unemployed more frequently than adult workers, but unemployment rates are often much closer to those of adults than is the case in the United States (table 3).

Charts 3 and 4 show how the countries compared in terms of youth unemployment rates and the ratio of youth to adult unemployment rates in 1968. On both comparisons, Italy ranks highest in extent of youth unemployment. Italy's teenage unemployment rate was 13.4 percent, over 6 times the adult jobless rate. The unemployment problem of Italian youth probably would be worse if it were not for the escape valve of emigration. About 25,000 Italian teenagers were working abroad in 1968. Problems of teenagers in the Italian labor market are intensified by a high dropout rate from school. Almost half of Italian youths entering the labor market have not completed the basic 8 years of schooling required by Italian law.

The United States was second to Italy in extent of youth unemployment, with 12.7 percent of the teenage labor force unemployed in 1968—about

Table 2. Unemployment rates by age and sex adjusted to U.S. concepts in 7 industrial countries, 1968 $^{\rm 1}$

| Sex and age | United States | Can- ada | Great Britain | Italy | Japan | Sweden | West Germany |
|--|----------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| BOTH SEXES | | | | | | | |
| All ages Teenagers 2 20- to 24-year-olds 25- to 54-year-olds 55 and over | 3.6 12.7 5.8 2.3 2.2 | 4.8 10.8 6.3 3.6 4.2 | 3.7 4.4 4.0 3.3 4.4 | 3.8 13.4 10.0 2.2 1.3 | 1.2 2.3 1.8 1.0 1.2 | 2.2 5.6 3.2 1.7 2.1 | 1.5 3.8 1.4 1.1 |
| MALE | | | | | | | |
| All ages Teenagers 2 20- to 24-year-olds 25- to 54-year-olds 55 and over | 2.9 11.6 5.1 1.7 2.1 | 5. 5 12. 7 7. 7 4. 1 5. 0 | 4. 2 5. 5 4. 5 3. 7 5. 1 | 3.6 13.6 10.2 2.2 1.6 | 1.2 2.6 1.8 1.0 1.5 | 2.3 5.5 3.3 1.7 2.6 | 1.3 3.7 1.3 .9 1.6 |
| FEMALE | | | | | | | |
| All ages | 4.8 14.0 6.7 3.4 2.3 | 3.4 8.3 4.2 2.2 (3) | 2.8 3.3 3.2 2.7 2.7 | 4.5 12.9 9.7 2.2 .3 | 1.2 2.0 1.8 .9 | 2.1 6.6 2.9 1.6 1.2 | 1.8 4.0 1.6 1.4 1.5 |

¹ Annual averages, except for West Germany. The West German data relate to April 1968; therefore, the overall unemployment rate differs from that shown in table 1.
² 16 to 19-year-olds in the United States and Sweden; 15 to 19-year-olds in Great Britain, Japan, and West Germany; 14 to 19-year-olds in Canada and Italy.
³ For this age-sex group, Canadian data are not statistically significant.

SOURCE: Bureau of Labor Statistics,

5.5 times the adult rate. Canada's young people ranked third, at 10.8 percent, 3 times the adult rate. After these three countries, there is a considerable drop to the 5.6 and 4.4 percent unemployment rate for teenagers in Sweden and Great Britain. Great Britain was the only country where the youth unemployment rate was not at least double the adult rate.

West Germany's teenage unemployment rate of 3.8 percent in 1968 was high by the standards of earlier years of the decade, when teenage unemployment was 1 percent or less. The German recession of 1967 hit teenagers the hardest. Reportedly, a wave of cyclical dismissals largely affected youths with a low level of education working in unskilled jobs which had offered relatively high pay during the boom period. The need for employers to economize during the recession led to the cancellation of many odd jobs filled by the unskilled youths.

Youth unemployment in Japan, at 2.3 percent in 1968, was the lowest of any country studied here. There is a strong preference by employers for hiring high school graduates in Japan, as shown by the highly favorable job vacancy situation for graduates. Given the very high vacancy-to-graduate ratio in Japan, it is perhaps surprising that teenage unemployment is over twice

Table 3. Ratio of youth to adult unemployment rates $^{\rm 1}$ in 7 industrial countries, 1968

| Country | Total | Male | Female |
|---------------|--|--|----------------------------------|
| United States | 5. 5 3. 0 1. 3 6. 1 2. 3 3. 3 3. 5 | 6. 8 3. 1 1. 5 6. 2 2. 6 3. 2 4. 1 | 4. 3. 1. 5. 2. 4. |

¹ Ratio of teenage unemployment rate to unemployment rate for 25 to 54-year-olds. Ratios are based on data adjusted to U.S. concepts.

SOURCE: Bureau of Labor Statistics.

as high as adult unemployment. There is a growing problem in Japan, however, of matching available jobs with teenage preferences. An increasing number of Japanese high school students disdain manual labor and prefer administrative and clerical jobs to factory work. In white-collar occupations, however, the Japanese labor shortage is not yet serious, and vacancies are not as numerous as in the blue-collar occupations.

Unemployment rates for older workers (55 and over) were lower than rates for 25- to 54-year-olds in the United States and Italy. The unemployment rate for older workers in the United States was 2.2 percent, slightly below the rate of 2.3 percent for 25- to 54-year-olds. In Italy, however, the contrast was greater, with unemployment of older workers at 1.3 percent, much lower than the 2.2-percent unemployment rate for persons in the primary working ages. The very low unemployment rates for older workers in Italy are related to the fact that very few persons over 55 remain economically active. The labor force participation rate for older Italians was only 25 percent in 1968.

Older workers in Great Britain had the highest unemployment rate—4.4 percent. Among older male workers, the rate was 5.1 percent. Reportedly, many persons over retirement age were among the first to be dismissed when Britain's deflationary measures were instituted in the last half of the 1960's. In addition, a number of older persons were prematurely retired involuntarily. Such people had virtually no chance for reemployment in a deteriorating labor market.

UNEMPLOYMENT BY SEX. Women in the United States had a higher unemployment rate in 1968

than women in any other country studied here. At 4.8 percent, the U.S. rate was above Italy's 4.5 percent, Canada's 3.4 percent, and Britain's 2.8 percent, even though these countries had higher overall jobless rates. Canada had the highest level of male unemployment, at 5.5 percent. Great Britain and Italy were next, at 4.2 and 3.6 percent, respectively. The United States ranked fourth, with 2.9 percent of its male labor force unemployed.

In the United States and West Germany, women were more likely to be unemployed than men. Although this was also true in Italy, as indicated by the total unemployment rate of 3.6 percent for men and 4.5 percent for women, Italian men had higher or identical unemployment rates in comparison with women in all four age groups delineated. The reason for this unusual result was the higher concentration of female unemployment and labor force in the younger age groups, where unemployment rates are highest. Seventy percent of all unemployed women were under age 25 in Italy, whereas only half of the jobless Italian men were under 25. In Japan, men and women had identical unemployment rates overall. Swedish, British, and Canadian women, however, had lower unemployment rates than men.

Teenage girls in the United States had a higher unemployment rate than girls in any other country studied—14 percent. The rate for teenage boys in the United States was 11.6 percent. In the United States, Sweden, and West Germany, teenage girls had greater difficulty in securing jobs than teenage boys.

Adjustment to U.S. definitions

With the exception of Canada, the basic labor force and unemployment statistics of the foreign countries studied required adjustment to bring them into closer comparability with U.S. data. Adjustments were made for all known major definitional differences. However, it should be noted that it has been possible to achieve only approximate comparability among countries. The accuracy of the adjustments depends on the availability of relevant information, and, in some instances, it has been necessary to make estimates

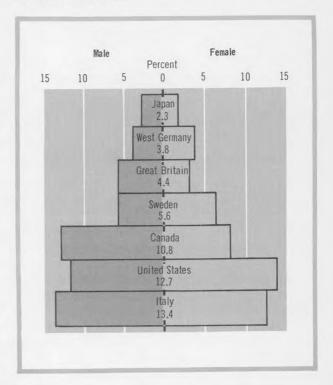
based on incomplete data. Nevertheless, the adjusted figures provide a better basis for international comparisons than the figures regularly published by each country.

No adjustment has been made for the different labor force classifications of persons enrolled in government-sponsored training and retraining programs among the countries covered here. In the United States, classification varies according to type of program. Participants in most poverty program groups which combine work experience and training-for example, the Neighborhood Youth Corps—are classified as employed. Participants in the Job Corps, however, which is primarily a means of training and rehabilitating young persons in residential centers away from home, are counted as not in the labor force. Persons enrolled in training courses under the Manpower Development and Training Act are classified as unemployed if they receive only institutional training. If a person receives on-thejob training involving payment of a wage or salary, he is considered employed. Other countries generally follow the U.S. practice of classifying persons in on-the-job training programs as employed. However, persons receiving only government-sponsored institutional training may be regarded as outside the labor force in other countries. Sufficient information on this point is not yet available to BLS for adjustment purposes, but the effect on comparative unemployment rates is believed to be small.

The adjustment methods used by BLS were described briefly in the earlier studies. However, several significant refinements in methods have been used for this study and many of the previously published estimates have been revised. A minor change, which did not affect the adjusted unemployment rate, was made in the adjustment method for Italy. Important changes in the methods for the other countries, including some qualifications on the comparability of Canadian statistics, are discussed below.

Changes in U.S. definitions. All data in previous studies were adjusted to the labor force definitions followed in the United States prior to 1967. In this study, foreign country data have been adjusted, insofar as possible, to the revised U.S. concepts adopted in January 1967. At that time,

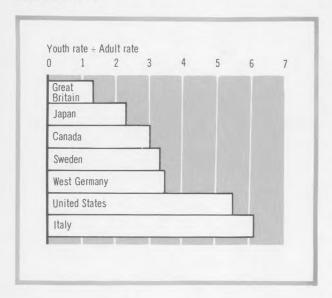
Chart 3. Comparative youth unemployment rates by sex in seven countries, 1968



the definition of unemployment was tightened and actual jobseeking activities were required for a person to be counted as unemployed. Methods used in adjusting the French and Japanese statistics were changed slightly in accordance with this new definition.

Another change introduced in 1967 was the raising of the lower age limit for labor force statistics from 14 to 16 years of age. Instead of adjusting the data of all countries to the new U.S. cutoff age, the foreign age limits, wherever possible, have been adapted to conform to the age at which compulsory schooling ends in each country. This was done because youths in most other countries complete their education and enter the labor force on a full-time basis at earlier ages than in the United States. Therefore, French and Swedish data are adjusted to cover 16-yearolds and over and West German data to cover 15year-olds and over. British and Japanese data remain at their published age limit of 15, and Italian data remain at 14. Although schooling is usually required until age 15 or 16 in Canada,

Chart 4. Ratio of youth to adult unemployment rate in 7 countries, 1968



Canadian data have been left at the 14-year-old limit because sufficient data are not yet available to the Bureau for adjustment purposes.

The effects of the revised age limits for France, Sweden, and West Germany were minimal. In all years, the age limit adjustments resulted either in no change in the overall adjusted unemployment rate or in reductions amounting to no more than one-tenth of 1 percentage point. If the U.S. lower age limit of 16 had been used for the Japanese data, overall unemployment rates would have remained unchanged. However, Italian unemployment rates would have been reduced if 14- and 15year-olds had been excluded; the adjusted Italian unemployment rate in 1968 for 16-year-olds and over was 3.5 percent, compared with the 14-yearold and over rate of 3.8 percent. Italy's adjusted youth unemployment rate for 16- to 19-year-olds in 1968 was 11.3 percent, compared with the 14to 19-year-old rate of 13.4 percent used in this study.

CANADA. As in earlier studies, no adjustments have been made in the published unemployment data for Canada. However, there is some evidence which indicates that there may be an understatement of unemployment, particularly among mar-

ried women. In enumerating the unemployed, the Canadian labor force survey questionnaire differs from the U.S. questionnaire in two important respects. First, the Canadian survey schedule does not specifically ask whether a person was looking for work. Second, the Canadian survey allows for a shorter period of time for jobseeking activities than the U.S. survey. In Canada, a person must have been seeking work in the survey week to be counted as unemployed, whereas a 4-week period for jobseeking is allowed under U.S. definitions. Prior to revision of the U.S. concepts in 1967, the survey questionnaire was unspecific as to the time period for jobseeking. When the U.S. time period was specified as "within the past 4 weeks" in 1967, it was estimated that this caused an increase in the female unemployment rate of four-tenths of a percentage point. Both of the differences mentioned above suggest that the U.S. survey may probe more deeply into the question of unemployment and, hence, pick up more of the "peripheral" labor force—for example, housewives seeking work—in the unemployed count.

The 1961 Canadian population census provides some indication of an undercount of unemployed married women. Unlike the labor force survey, the census questionnaire specifically asked whether persons were looking for work; however, the jobseeking was still limited to only the survey week. Comparison of the results of the June 1961 Canadian population census and the labor force survey for that month reveals that, although unemployment as measured by the census was 32 percent smaller than that derived from the labor force survey, the number of unemployed married women was 60 percent higher in the census than in the survey.⁶

Since the only available information for making an adjustment is the 1961 census, it was felt that no reliable adjustment could be made for the possible undercount of unemployed married women in Canada for the entire 1960–69 period. In any case, an adjustment based on the 1961 census would have had only a small effect on the overall unemployment rate, raising the published Canadian rate by only one- or two-tenths of a percentage point in all years of the period. The

female unemployment rate would have been raised from 3.4 to 4.1 percent in 1968. This would not change the relative position of Canada in extent of female unemployment among the seven countries studied.

There are also a few other minor differences between the U.S. and Canadian labor force survey definitions for which no adjustments have been made. First, Canada, by definition, counts as unemployed persons not seeking work because of a belief no jobs are available, but there is no specific question on this point in the survey questionnaire. Prior to the 1967 U.S. revisions, such persons were also theoretically counted as unemployed, but, like Canada, without explicit questions. They are now counted as outside the labor force in the United States. Second, Canada classifies persons who have jobs but are absent from work during the survey week and looking for other jobs as unemployed. With the 1967 revisions, such persons are classified as employed in the United States. Adjusting the Canadian unemployment figures to exclude persons not seeking work because of a belief no work is available and persons with jobs, not at work, and seeking work would probably not lower the Canadian rate by more than one- or two-tenths of a percentage point.

France. Results of the 1968 population census in France caused the French authorities to revise their previously published annual estimates of unemployed and labor force. In addition, when the last article was published, the latest available French labor force survey results were for October 1962. The October 1964 survey has since become available, making it possible for the Bureau to update its previously published estimates for France. It is probable that when the results of surveys conducted in later years are published, the estimates for 1965 and later years will require further revision.

Great Britain. A new method of adjusting British unemployment data to U.S. concepts has been introduced here, based on the results of the April 1961 population census and the April 1966 "sample census" of Great Britain. The sample census was, in effect, a labor force survey,

the first of its kind conducted in Great Britain between decennial census years. Concepts and definitions were similar to those used in the U.S. labor force survey and allowed for tabulation of adjustment factors to apply to the British registered unemployed series. Adjustment factors for 1960 were assumed to be the same as for 1961; for 1962-65, factors were interpolated from the 1961 and 1966 results; for 1967-69, adjustment factors were assumed to be the same as for 1966. BLS had based its adjustments to the British data in the past on a 1962 study of British unemployment statistics.7 The new estimates raised the British unemployment rate higher than the previously published estimates for 1963 to 1968 and lowered the rates for 1960 to 1962.

Analytical problems arose from the fact that data on labor force status were not collected in exactly the same way in 1961 and 1966. Insofar as possible, the more detailed information available from the 1966 census was used to put the 1961 census results on a compatible basis prior to arriving at adjustment factors. Comparison of the results of these two censuses, adjusted for the differences between them, indicates that the extent to which the British registered unemployed series undercounts unemployment according to U.S. concepts apparently rose sharply between the 2 years. In 1961, adjusted unemployment was estimated as 128 percent of total registered unemployment; in 1966, it was 167 percent. The results of the two censuses indicate that a substantial increase in underregistration of unemployed adult women apparently occurred between 1961 and 1966. Because of the sharp rise in the undercount of unemployment, the reported British unemployment rate of 1.5 percent in both 1961 and 1966 was adjusted to only 1.9 percent in 1961, but to 2.4 percent in 1966.

The use of adjustment factors based on only two time periods, April 1961 and 1966, when reported unemployment was very low, to adjust data for other years, particularly years of high unemployment, is subject to a substantial margin of error. Unfortunately, BLS does not have reliable information on whether the proportion of unemployed persons who register in Great Britain changes substantially as unemployment increases. In 1966, 1968, and 1969, the number of registered

unemployed females declined, and the number of registered unemployed males increased. This could be a true reflection of labor market conditions, but it could also result from a further decline in the propensity for unemployed females to register.

Recognizing the need for more precise information on the labor force, the British Central Statistical Office recently announced plans to carry out a pilot household sample survey this year and to begin a regular program of surveys at the end of 1970. As results of these surveys become available, the method of adjusting the British data to U.S. concepts will be further refined.

Japan. Japan redesigned its labor force survey in September 1967, and all major data items were revised back to 1960 based on the new survey design. The labor force survey schedule is now filled out by the respondent himself, rather than the interviewer. In addition, wording and ordering of questions were changed and minor revisions in definitions introduced. The revised data resulted in higher unemployment rates than had been published previously by Japan.

Sweden. Prior to 1968, the International Labor Office (ILO) published the registered unemployed series as representative of Swedish unemployment figures. In 1968, however, ILO began to publish the Swedish sample survey results as well as the registered unemployed series. Previous studies on comparative unemployment showed the registered unemployed series as the regularly published data for Sweden. Beginning with this study, the sample survey data are entered instead.

West Germany. Data in previous articles covered the Federal Republic of Germany, excluding West Berlin. Here, data for all years have been revised to include West Berlin, and are labeled "West Germany." Inclusion of West Berlin increased the previously published adjusted unemployment rates slightly in the early 1960's but has made no difference in the adjusted rate since 1964.

Adjusted rates by age and sex

Adjusted unemployment rates by age and sex for 1968 are less reliable than the overall

adjusted unemployment rates. Whereas adjustments made to the overall unemployment rates were based on published statistics generally available each year, adjustments by age and sex were partially estimated on the basis of data for years other than 1968. For example, career military personnel and unpaid family workers working less than 15 hours had to be excluded from the labor force in most countries for comparability with U.S. data. Such adjustments by age group for France and Italy were based on age distributions from a 1960 survey coordinated by the Statistical Office of the European Communities. For Japan, age distributions of the career military were taken from the 1965 census.

Adjusted figures by age and sex for Great Britain should be regarded with special caution because the regularly published British data are from registered unemployment statistics rather than a labor force survey. Data on registered unemployed persons are particularly weak for comparisons of youth unemployment rates, since a high proportion of unemployed youths are new entrants to the labor force. Such persons are generally not eligible to collect unemployment benefits and are, therefore, much less likely to register with employment offices than the experienced unemployed.8 Registration statistics also undercount unemployment among married women in Great Britain, since a large number have accepted the option of not paying the British unemployment insurance tax and, hence, are not covered for unemployment benefits. The method of adjustment of the British data by age and sex is based on ratios derived from the 1966 sample census of Britain. Since economic conditions in 1966 were markedly different from conditions in 1968, the adjusted data by age and sex may be less accurate than the adjusted data for countries with regular labor force surveys.

----FOOTNOTES-----

¹ See *Monthly Labor Review*, August 1962, pp. 857–864; March 1965, pp. 256–259; and April 1967, pp. 18–20.

² Organization for Economic Cooperation and Development (OECD) *Economic Outlook*, December 1968, p. 69.

³ See "A Recession with Full Employment?" The Economist, January 24, 1970, pp. 49-50; and "Down to 2.5 percent is Fine, but..." The Economist, February 22, 1969, pp. 61-62.

- ⁴ For a description of Sweden's manpower programs, see Sol Swerdloff, "Sweden's Manpower Programs," *Monthly Labor Review*, January 1966, pp. 1–6.
- ⁵ The latest available French labor force survey was conducted in October 1964. Results of this survey, adjusted to U.S. concepts, yielded a teenage unemployment rate of 6.0 percent about four and one-half times the adult unemployment rate. It is believed that teenage unemployment has risen substantially since 1964, but no accurate statistics are available as yet. The adjusted female unemployment rate was 3.0 percent, over twice as high as the male rate of 1.4 percent. The rates for teenage boys and girls were 7.4 percent and 5.0 percent, respectively. Workers aged 55 and over had a jobless rate of 1.6 percent.
- ⁶ See Mordechai E. Lando, *The Sex Differential in Canadian Unemployment Data* (Center for Naval Analyses, Professional Paper No. 2, January 9, 1970).
- ⁷ See Monthly Labor Review, May 1962, pp. 489-501. This study was subsequently expanded by the author, Joseph Zeisel, in The Structure of Unemployment at Full Employment in Great Britain and the United States (pub-

- lished on demand by University Microfilms, Ann Arbor, Mich.). Another student of British unemployment statistics, Robert J. Flanagan, provides an alternative method of adjusting British unemployment data to U.S. concepts in his recently completed dissertation entitled A Study of International Differences in Phillips Curves (Berkeley, University of California, 1970). Unpublished. He arrives at higher unemployment rates than those shown in this article. In 1960, he raises the British rate to 2.7 percent; in 1968, to 4.2 percent.
- ⁸ Youth are not as likely to be underrepresented in the British registered unemployed data as in the employment office data of most other countries because of the existence of the Youth Employment Service (YES) in Britain. Young persons under 18 seeking their first employment who register for job placement with YES are included in the British registered unemployment count. However, there is no compulsion to register at YES and, in 1969, only 8,600 school leavers who had not yet been in insured employment were included in the British registered unemployed total.

Summer jobs for young workers

Jobs for young people were less plentiful this summer than last, according to a mid-August report by the Bureau of Labor Statistics. While the young labor force was increasing to 13.3 million (due mainly to a lesser number of young men in the Armed Forces), the total number of 16- to 21-year-olds employed was only 11.2 million—some 210,000 less than in the summer of 1969. As a result, unemployment among youths rose to a rate of 15.7

percent, compared with 12.8 percent in 1969 and 14.0 percent in 1968.

Unemployment of white and black youths increased by the same proportion from 1969 to 1970, their jobless rates rising to 13.6 and 30.2, respectively. Young men accounted for more than three-fourths of the overall rise.

The full report, Employment in Perspective: Youth Job Situation in Summer 1970, is available from any of the BLS regional offices listed on the inside front cover.

A report on the 1970 International Labor Conference

Poverty, civil rights, jobless youth, minimum wages, and the ILO's internal structure were major topics of the Geneva gathering

JOSEPH P. GOLDBERG

THE FIFTY-FOURTH SESSION of the International Labor Conference held in June amply demonstrated the organization's faculty for adapting to the changing conditions and prospects confronting the workers of the world. The social and economic aspects of poverty and trade union rights in relation to civil liberties were major foci of discussions by government, employer, and labor representatives from 111 of the 121 member states of the International Labor Organization. Despite internal tensions, several important international instruments were adopted by this unique tripartite international institution. There were continued and divergent pressures from smaller industrial states, developing countries, and the Soviet bloc countries for altering the structure of the organization. Political issues, some directly and others more tenuously related to the rights guaranteed to workers' organizations, also figured prominently.

The conference was one of transition. Substantively, it was oriented to the Second Development Decade program, being concerned with the interrelated social and economic needs of the world's peoples. Administratively, it reflected for the last time the influence of David A. Morse, who had resigned just prior to the conference, after 22 years as Director-General of the International Labor Office. In May, the governing body of the ILO elected Wilfred H. Jenks to the position. The new Director-General has been a prominent member of the ILO Secretariat for over 40 years.

V. Manickavasagam, Malaysian Labor Minister, was elected president of the conference. The

three vice presidents elected were I. Pacuraru, government delegate of Rumania, F. Bannerman-Menson, employer delegate of Ghana, and G. B. Fogam, worker delegate of Cameroon.

The U.S. delegation, headed for the first time by George H. Hildebrand, Deputy Under Secretary of Labor for International Affairs, participated actively in all phases of the conference.²

ILO and poverty

Almost 200 speeches by government, worker, and employer representatives delivered during the 2 weeks of plenary sessions centered on the outgoing Director-General's report, "Poverty and Minimum Living Standards—The Role of the ILO." The report took its theme from the approaches developed by other United Nations agencies to the Second Development Decade, which now stresses the need for coping with social problems along with economic growth in national development programs.

The report on poverty is complementary to the ILO World Employment Program, adopted by last year's conference, which emphasizes the essentiality of including higher levels of employment as objectives "if development is to lead to higher standards of living for more and more people, and if the benefits of development are to be spread more equitably." ³

The keynote of the poverty report was that "A policy for minimum living standards implies giving as much care and attention to the setting of consumption targets as to the setting of investment targets. . . ." The scope of the treatment is wide-ranging, including the need for agrarian reform in many developing countries, the persistence of inequalities based on race, caste, religion, and other distinctions, and the problems of population pressure and of subsistence

Joseph P. Goldberg is Special Assistant to the Commissioner, Bureau of Labor Statistics.

agriculture. Some guides to national policies are indicated, along with the outlines of a program through which the ILO can contribute to the requirements for raising living standards.

The extended discussion of the Director-General's report indicated general approval of the tone, direction, and guides proposed for consideration. Some of the speeches covered the theme of the report, others gave elaborate description of developments within their own countries that coincided with some of the report's proposals, and still others added requests, or forceful demands, for aid from the industrialized countries. Many speakers also called for change the ILO structure. More general political assertions were made by a number of Arab states, notably charging Israel with aggression, coupled with sallies against the United States for its role in Viet Nam and Cambodia. Less intense but frequent expressions in the same direction came also from the Soviet bloc spokesmen.

In his observations, Mr. Hildebrand agreed that growth in income and output, though essential elements in solving problems of poverty, would not automatically assure higher levels of real per capita income. Stressing that each nation must deal with underlying causes of poverty in terms of its own institutions and basic goals, he cited the role of rapid growth in both industrial and agricultural national output as essential to "provide lasting improvements in personal incomes, in social security, and in conditions of life and work." But economic gains would be without real meaning where "personal liberty, freedom of initiative, and freedom of association" do not prevail. Citing recent legislation and proposals for dealing with poverty in the United States, he stated: "In our view, the task of improving conditions of life and work is never finished. This is one of the major reasons why the United States belongs to the International Labor Organization: we can learn and we can contribute through our active participation." He stressed the unique character of the tripartite Ilo structure, grounded on the independence of both the workers' and employers' groups from government domination, and on the common premise among all these groups "that compromises among their competing interests are both possible and to be sought."

Fostering such goals should obtain a climate

free of rancor and recrimination. Oppositely, there was overt criticism of U.S. involvement in Viet Nam and Cambodia, which required lengthy rebuttal by Mr. Hildebrand. His concluding remarks were, "... It becomes a grotesque experience to hear speeches in this conference by delegates whose governments are openly supporting the aggression of North Viet Nam, speeches that are replete with sympathy for the people who are the victims of that aggression, but which never offer the slightest prospect of a negotiated settlement."

Mr. Rudolph Faupl, U.S. workers' delegate, called attention to the long campaign against poverty by the American labor movement, as well as by workers' organizations in all free countries, and cited the continuing efforts made in the United States to wipe out racial and religious discrimination, to raise the minimum wage. and to establish a national health insurance program. He, too, felt that scurrilous attacks on the United States called for a reminder that the United States had come to the assistance of South Viet Nam at the request of that country when it was faced by aggression from North Viet Nam, aided and abetted by the Soviet Union and Communist China. He called attention to the existence in South Viet Nam of a more vigorous and independent trade union movement than in those countries making these attacks. Regarding the charges against Israel, he called that country "the very model of economic development and social progress in the world to which so many countries have turned to learn from its experience. Its loss would be tragic, not just for its nearly 3 million people, Jews and Arabs alike, but for the entire world, and especially the workers of the world."

Civil liberties

Trade union rights and civil liberties figured prominently in the deliberations of the conference. There was also concern with the need for reiteration of the rights and immunities associated with free expression by worker and employer delegates to the conference. The Resolutions Committee gave extensive consideration to proposed resolutions calling attention to the trade union situations in Spain and Greece. The final Conference actions on these matters varied considerably.

The report of the Office, "Trade Union Rights and Their Relation to Civil Liberties," was the

basis for a first general committee consideration. Wide-ranging discussion culminated in the development of a resolution, explicity stating that the absence of civil liberties for workers' and emplovers' organizations removes all meaning from the concept of trade union rights.⁵ Deep concern was expressed about repeated violations of trade union and other human rights, and the competence of the ILO in this field within the United Nations system was reaffirmed. It urged member states which have not vet done so to ratify-and to observe—the ILO Conventions on Freedom of Association and Protection of the Right to Organize (No. 87) and on the Right to Organize and Collective Bargaining (No. 98), and urged the governing body to increase efforts to secure observance. The resolution also called for comprehensive ILO studies of means to ensure universal respect for trade union rights and related civil liberties, including the unions' right to participate in work places and the general economy, and the right to strike. The studies should lead to the development of international instruments. The resolution was adopted unanimously by the conference despite some individual reservations.

Freedom of speech for nongovernmental delegates to 1LO meetings was deemed in need of clarification and reaffirmation, despite existing protection in the 1LO constitution and UN conventions. The conference unanimously approved a resolution explicitly affirming that employers' and workers' representatives should be able freely to express their views on matters of concern to the 1LO, and to report back to the members of their organizations in their own countries. The resolution expressly states that "such immunity may be necessary even in relation to the authorities" of the state of which they are nationals.

Resolutions relating to freedom of association in Spain and Greece, introduced by workers' representatives, failed of adoption. The proposed statement on Spain called for implementation of the recommendations of the ILO Study Group on the trade union situation in Spain published in September 1969. It was defeated in committee by a majority of government and employer members, who indicated that, while they were concerned with freedom of association, they felt the resolution was discriminatory in that it singled out one country while others remained in violation. A

resolution calling on the Greek Government to consider favorably a general amnesty for trade unionists and workers imprisoned or deported for trade union activities, and to make its law and practice conform to Conventions 87 and 98 which it had ratified, was not accepted by the conference, because of lack of a quorum. Many government representatives and the employer spokesman indicated that the resolution prejudged matters presently under review by an ILO Commission of Inquiry, thereby violating the ILO constitutional process.⁶

International instruments

The development of conventions (which come into effect through ratification by individual States) and of recommendations (which require reporting by all members) establish international standards which exert important influences on the law and practice of member states. This important aspect of conference activity was handled by four technical committees during the ongoing session.

Regarding holidays (that is, vacations) with pay, the conference adopted a new convention applicable to all employed persons.7 On the question of covering agricultural workers, a compromise was reached which permits separate ratification or nonratification for agricultural and nonagricultural workers. The convention sets a minimum standard of 3 working weeks of vacation for 1 year of service. The final vote was 213 for the convention and 62 against, with 62 abstentions. (U.S. Government and workers' delegates voted for the adoption, and the employer delegate against.) The employers' stand was grounded in part on insufficient consideration given in the terms of the instrument to conditions in developing countries.

The conference adopted a convention and a recommendation on minimum wage fixing, with special reference to developing countries. Under the convention, ratifying states undertake to establish a minimum-wage-fixing machinery, with coverage to be determined by the Government after full consultation with representative organizations of employers and workers concerned. Minimum wage rates are stated to have the force of law, with failure to apply them making persons concerned subject to appropriate penal or other

sanctions. In fixing the level of minimum wages, account is to be taken of both the needs of workers and their families, including the general wage level, the cost of living, social security benefits, and the relative living standards of other social groups. Attention must be directed also to general economic factors, including economic development requirements, levels of productivity, and the need to attain a high level of employment. The recommendation provides detailed guidelines for placing the convention's principles into effect and includes provision for regional or zonal minimum wage variations based on differences in the cost of living. The final vote on the convention was 248 for, 46 against, and 46 abstentions. (U.S. Government and worker delegates were for and the employer delegate against the convention.) The vote on the recommendation was 251 for, 5 against, and 74 abstentions. (U.S. Government and worker delegates were for the recommendation, and the employer delegate abstained.)

In opposing the convention, the spokesman for the employers' group stated that cost effects of the minimum wage and its impact on the general wage structure in the free world fall on employers, who market their products under strong competition. While the employers' representatives accepted minimum wages as a means of overcoming poverty, they pointed out it was only one element in the totality of a social security and social protective system. They said that the provisions in the instruments lacked flexibility and dynamism, and that the emphasis on statutory provisions might threaten free collective bargaining.

Another recommendation adopted by the conference was on special youth employment and training schemes for development purposes. The stimulus for the recommendation was the concern over the growing volume of unemployment and underemployment of youth in developing countries. Youth there receives little or no education or the education provided does not meet the practical needs of their communities. Of major concern in the development of the recommendation was the issue of compulsory recruitment. The recommendation meets this problem by calling for voluntary participation in special employment programs, and maximum individual free choice of activities and regions. Recruitment

is permitted only under legislative enactments and in full compliance with the terms of international labor conventions on forced labor and employment policy.

The recommendation calls for special programs to promote equality of opportunity and treatment as well as the opportunity for membership in youth or trade union organizations, and establishes formal procedures for appeals by participants against recruitment decisions or conditions of service. The programs are to be administered without discrimination and are "to include the safeguarding of human dignity and the development of the personality and a sense of individual and social responsibility." Standards for participation, and for the content of the programs and conditions of service, are set out. Such programs are stated to be of an interim character intended to meet current and pressing needs, but not to duplicate or prejudice other measures of economic policy or the development of regular vocational or educational programs. The final vote on the recommendation was 311 for, 0 against, and 26 abstentions the U.S. delegation voted unanimously for adoption.

The first discussion was held on a proposed recommendation concerning protection and facilities to be provided workers' representatives in the undertaking (that is, enterprise). If adopted, it would cover both trade union representatives and representatives elected by the workers in the establishment, and would contain an assurance that such varied worker representation does not undermine the position of the trade unions. The worker representatives would enjoy protection against prejudicial acts, such as dismissal because of their status as workers' representatives, or because of union membership or participation in union activities. Specific protective measures for workers' representatives are suggested where no such protection exists for workers generally. Facilities should be provided to workers' representatives in carrying out their functions. These facilities would depend on the industrial relations system of the country and of the establishment, and should not unduly affect efficient operation. The final vote on the proposed conclusions was 243 for, 27 against, and 15 abstentions. (The U.S. delegation voted for it.) Next year's conference will give the proposal second consideration and final determination of the content of the instrument.

Other resolutions

Five other resolutions received the conference's unanimous approval. However, a proposal for a study of "opportunities and social problems" raised by multinational undertakings failed of acceptance in the absence of a quorum. Employers' delegates opposed it, claiming that there was no evidence of attendant social problems.

1. The list of occupational diseases included in the Employment Injury Benefits Convention (No. 121) will be amended to include occupational deafness and other noise-induced disorders, illnesses resulting from the performance of work under compression, and infectious diseases contracted by the staff of medical services and laboratories.

2. The ILO was requested to strengthen its activities in the field of workers' education, particularly by promoting workers' education in developing countries through institutions operated by trade unions or other bodies having full support of workers' organizations.

3. Regarding the employment of older workers, the ILO was asked to coordinate current studies and projects concerned with the elimination of discriminatory practices in the employment of such workers, continuous vocational training or retraining enabling them to adapt to technological change, and examination of the effects of certain pension schemes on older workers' employment.

4. The importance of tripartite participation in the United Nations Conference on Human Environment, to be held in 1972, was stressed, and an ILO delegation will be sent to the conference.

5. In view of new technology, machinery, and materials, the ILO was asked to update the Model Code of Safety Regulations drawn up in 1948 for the guidance of governments and industry.

Other actions

The Committee on the Application of Conventions and Recommendations gave the annual review of reports submitted by governments on ratification of conventions, and of the observations by the Committee of Experts on the Application of Conventions and Recommendations. The Committee reported on the initial success of a new procedure under which problems encountered by governments in applying ratified conventions are

dealt with through direct contacts with a representative of the Director-General of the ILO, and called for further development of this procedure. To ensure continuance or enhancement of the role of workers' and employers' organizations in implementing conventions and recommendations, the Committee endorsed study courses on international labor standards already begun for workers, and to be available to employers on request. Cases of progress by governments in seeking to conform to conventions were noted, along with the more serious cases of noncompliance. Also considered was a general survey prepared by the Committee of Experts on four recommendations concerning the health, welfare, and housing of workers. Cooperation of governments and the debate in the Committee were cited as confirmation of the "vitality of the ILO's standard-setting activities, in all their aspects, and the general concern that international standards should lead to improvements in social conditions at the national level."

ILO structure

Major and knotty questions relating to the structure of the ILO, under study for several years, remained unresolved when the conference adopted the recommendations of the Committee on Structure that they be referred to the governing body for further examination and a report to next year's conference. The leading issues here pertained to the governing body's composition. They included the constitutional provisions reserving 10 of the 24 nonelective government seats for states of chief industrial importance, and the requirement that at least five states of chief industrial importance ratify a constitutional amendment before it goes into effect. Also under attack, from the Communist countries, is the refusal of the employers' group to accord representation in the governing body to "representatives of socialist management," which involves the question of the autonomy of the three groups. A further issue relates to demands that the conference be given a voice in the selection of the Director-General, rather than having the appointment made by the governing body.

Mr. Edward Neilan, U.S. employer representative and Employer-Vice-Chairman of the Committee on Structure, questioned whether a major-

ity of the ILO membership "is in favor of any particular structural change, though," he said, "I do agree that when you take them all together there is a decided body in favor of structural changes." He cited statements in the report that 21 of the 24 employer members of the governing body were affiliated with organizations in their own countries which included substantial numbers of nationalized and socialized industries. Contrasting these countries where management autonomy existed, Mr. Neilan cited from Soviet press reports of governmental interference with rights granted to Soviet enterprises. He stated, "In fact, these governing body members may represent socialist managers somewhat better than the

socialist managers can represent themselves." He viewed Soviet efforts as being directed at destroying the autonomy of the Employers' group.⁸

In conclusion, it can be said that it is the sustaining drive of the tripartite system that makes for accommodation in the face of so many sources and pressures of diversity. It is the general awareness that this system has been an important world-wide foundation for continuing adaptation to changing economic and social conditions that has assured that accommodation overshadows diversity.

-FOOTNOTES-

¹ The other candidate proposed was B. F. Ople, the Philippine Secretary of Labor. The result was 286 votes for Mr. Manickavasagam, 84 for Mr. Ople.

² Members of the delegation were: Government: Delegates-George H. Hildebrand, Deputy Undersecretary of Labor for International Affairs, and George P. Delaney, Special Assistant to the Secretary of State and Coordinator of International Labor Affairs; Substitute Delegate, Allen R. DeLong, Assistant General Counsel, Department of Commerce; Congressional Advisers—Representatives William H. Ayres, John H. Dent, John M. Ashbrook, Dominick V. Daniels, John N. Erlenborn, Edith M. Green; Advisers-Joseph P. Goldberg, Philip H. Kleinberger, Margaret Pallansch, Edward B. Persons, Ben P. Robertson, Roger C. Schrader, Laurence Silberman, and Sylvia R. Weissbrodt, Employers: Delegate—Edwin P. Neilan, Chairman of the Board, Bank of Delaware: Advisers—M. A. Darling, Jr., Leonard Janofsky, Lee Knach, Webb Neely, Robert T. Thompson, and William Van Meter. Workers: Rudolph Faupl, International Representative, International Association of Machinists and Aerospace Workers; Advisers-Max Greenberg, Lane Kirkland, Harry D. Sayre, Bertrand Seidman, Floyd C. Smith, and Miles C. Stanley.

³ ILO Report of Director-General, Part 1, Poverty and Minimum Living Standards; The Role of the ILO, Geneva, 1970, p. 3.

⁴ Ibid., p. 42.

⁵ The resolution stated that the protection of civil rights as such comes within the purview of the United

Nations on the basis of the Universal Declaration of Human Rights and the International Covenants on Civil and Political Rights.

- ⁶ The vote in the Conference was 100 for, 0 against, and 163 abstentions. The Greek Government delegation withdrew from the Conference when the Resolutions Committee approved the resolution by a vote of 10,194 for, 8,906 against, and 2,200 abstentions.
- ⁷ Seafarers are excluded, however, and a resolution was adopted suggesting that present standards for seafarers should be examined under the special ILO maritime machinery.
- 8 The AFL-CIO Executive Council has recently reacted sharply to the appointment of a representative of a Soviet bloc country as assistant director-general of the ILO after the June conference. Charging that this was a further buildup of Communist strength in the organization, the Council expressed its increasing concern over the use of the Ilo as a political instrument, noting "that while the ILO still pays lip service to human rights, it has in fact turned a blind eye to the most blatant violations of basic freedoms in its member countries." The Council statement referred specifically to the failure of the conference to act on the resolutions on trade union rights in Greece and Spain, and the "head-in-the-sands approach to Communist violations of human rights." The AFL-CIO proposes to seek "the ILO return to its historic mission of defending human rights and workers' freedom everywhere in the world." See AFL-CIO News, August 8, 1970.

The NEA prepares for the 1970's

National Education Association reasserts teachers' right to bargain, strike; provides for professional negotiators

HARRY P. COHANY

"To bargain or not to bargain" was a question which occupied the delegates at National Education Association conventions several years ago. Since the late 1960's, however, pressures from the competing American Federation of Teachers (AFL-CIO) and the actions of restless classroom teachers across the country have compelled the NEA to come to grips with economic demands, while at the same time maintaining what some consider fine semantic distinctions designed to please those committed to a "pure and simple" professionalism. At this convention, an association official, in taking credit for the recently signed Hawaiian collective bargaining bill, declared: "We are through playing semantic games."

The resolutions and debates at the 108th annual NEA convention, held in San Francisco from July 3 to July 7, did not fully bear him out. Thus, "professional negotiations" was still used rather than "collective bargaining," and "withdrawal of services" was substituted for "strikes." Yet few if any of the more than 7,000 delegates were in doubt as to what was meant and even fewer seemed disturbed over this turn of events as evidenced by the frequently routine adoption of policy statements dealing with these matters.

The NEA's new approach was made clear in the report of its executive secretary, Sam M. Lambert: "Two years ago I said to this assembly: The time has come to start acting for NEA instead of reacting to AFT. And, we have done precisely that. We have been building our own program and I am satisfied in my own mind it's better than anything our rivals can put on the road."

In support of this assertion, the Association's research department prepared data indicating that agreements were in effect in about 3,300

school districts during the 1969-70 school year, compared with 1,531 in 1966-67, when the first negotiation survey was made. As a result, 6 out of every 10 public school teachers are now employed in districts having negotiation agreements. Local affiliates of NEA represented more than 8 out of 10 teachers in these districts, the survey noted. During the last school year the number of teachers under NEA agreements increased by 176,000 as against a reported 22,000 for the AFT. These agreements covered not only salaries and working conditions, but typically also extended into such areas as class size, teacher load, recruiting, selection of textbooks, and use of teacher aides.

At the convention, further steps in aid of collective bargaining were made known to, or approved by, the delegates. In one of these steps, the NEA is actively seeking a Federal negotiation law which would provide for mediation and fact-finding to resolve negotiation impasses. A strike would be permissible in cases where the impasse machinery had failed to settle the dispute. Injunctions would be restricted to situations of "clear and present danger to the public health and safety." The proposed legislation would also allow the agency shop if agreed to by the parties (it is mandatory under the Hawaiian law). In the meantime, the delegates were urged to continue to work for the passage of similar laws at the State level.

Collective bargaining efforts will also be strengthened by the newly adopted UNISERV program which calls for one full-time professional for every 1,200 members, primarily to serve as experts in negotiations with school boards. As was explained to the delegates: "UNISERV will place a trained and skilled negotiator on the other side of the table, facing down the Board's hired gun, and working with expertise for teachers." In addition, the UNISERV representative will also carry on administrative as well as economic and political action programs. About 250 UNISERV representa-

Harry P. Cohany is chief of the Division of Industrial Relations, Bureau of Labor Statistics.

tives are to be in the field within the first year, to work in "unified" States, that is, those in which members are affiliated with the national, State, and local association. The number of units so serviced is expected to reach 1,200 soon.

A 1969 resolution, upholding the right to strike, was strengthened with these changes: "... no attempt shall be made by any member of the profession to provide for an instructional program during the withdrawal of services by a recognized professional organization. School boards should officially close schools when work stoppage is declared by the recognized professional organization." Delegates were assured that the term "professional organization" referred only to affiliates of the NEA.

Legal difficulties, however, have troubled the companion measure of invoking "professional sanctions"; that is, an alert that deplorable conditions exist in a particular school jurisdiction which thus stands condemned and should be shunned by educators (the NEA equivalent of "hot cargo"). A court case involving the Union Beach, N.J., Board of Education and the New Jersey Education Association held that the NEA's Code of Ethics, which requires an educator "not to accept a position when so requested by the appropriate professional organization" (Principle IV, 5), was an undue restraint on governmental authority and, thus, served an illegal purpose. To forestall further legal problems, the delegates voted to remove the above sentence from the Code of Ethics, but thereby admittedly weakened the effectiveness of sanctions.

Nevertheless, the strike will definitely remain a weapon in the NEA's arsenal, as was made clear by the incoming president, Helen Bain, a speech and English high school teacher from Nashville, Tenn.: "As teachers, we believe that strikes are distasteful . . . But the NEA has learned . . . that sometimes it is necessary to strike. And the NEA will be 100 percent behind them."

At the same time, however, the NEA realizes that such a militant stance is of little avail when agreements reached with a Board of Education cannot be implemented because taxpayers—as they have in ever-growing numbers—refuse to approve bond issues to aid in financing the agreements. One proposed solution to this problem would be increased Federal support for education. Another may lie in fiscally independent school systems; that is, those authorized to levy taxes.

Although neither solution appeared very promising at the moment, the NEA went on record asking for a starting salary of \$12,500 and a maximum for those with advanced degrees of \$25,000-30,000 after "no more than 10 years."

Prospects for merger

Given the NEA's present posture on collective bargaining matters, what is the outlook for merger with the Aft? Executive secretary Sam Lambert saw the difference between the two organizations in these terms: "The newspapers sometime refer to NEA and its State and local affiliates as unions. and I admit that in some respects we do have some of the same outward appearances. You and I know, however, we haven't lost one bit of our interest in the welfare of children or in the quality of education they are getting." Then he added: "In addition, there is still one enormous and overpowering difference between the two organizations. The NEA is still a completely free, independent, selfdetermining organization. It has no entangling alliances, no debts to the plumbers or clothing workers, no encumbrances or obligations to other segments of the labor force or to management. We are free" Despite these obstacles, outgoing president George D. Fischer held out hope for a merger in "about 5 years," coming about gradually by mergers at the local level such as have taken place in Los Angeles, Calif., and Flint, Mich. The outlook for future mergers is cloudy, particularly since the merger in Los Angeles, which after a less than successful strike is under attack in the courts by dissatisfied NEA members. In any case, the merger issue was not presented to the delegates nor was it raised by them in the form of a resolution. Instead, two other issues evoked considerable debate: One proposal dealt with the calling and makeup of a constitutional convention to revamp the association's structure (approved in a roll-call vote by a slight margin) and the other with a resolution on withdrawal from Indochina (defeated after a heated exchange). In additional resolutions the delegates urged the prohibition of "voucher plans" but came out strongly for Federal funds for education to be "expended solely for the support of public schools . . . with no diversion of Federal funds, goods, or services to nonpublic elementary and secondary schools." A similar proposed restriction was narrowly defeated at the 1969 convention.

An econometric model of worker compensation changes

Equation explains overall wage movements reasonably well, but reveals instability when tested in some subperiods

WILLIAM R. BAILEY AND ARTHUR SACKLEY

CAN WAGE MOVEMENTS be predicted from changes in unemployment, consumer prices, and corporate profits?

This article presents the results of an investigation of changes, over a 20-year period, from 1949 to 1968, in average hourly compensation for the private nonfarm economy. The study was initially undertaken for the purpose of developing a wage forecasting equation. However, the development of a model for the determination of changes in wages serves multiple purposes. It provides a means of studying wage behavior, insight into wage trends that can serve as the basis for additional research, and a vehicle for projecting changes in wages.

Background of the study

The method of investigation used in this study is a variant of Phillips curve analysis which is based upon a postulated relationship between money wage rate changes and factors selected to represent the state of the labor market. The seminal study of this type by British economist A. W. Phillips found stability, for over a century, in the relationship between the percentage change in money wages and the unemployment rate in the United Kingdom.1 According to the theory underlying the Phillips relationship, when the supply and demand for labor is out of equilibrium, the rate of change of wages will be roughly proportional to the unemployment rate—a proxy for the degree of disequilibrium. When economic activity quickens, unemployed resources diminish, and demand for labor forces up the price of labor at a faster rate. The reverse is postulated to occur when the unemployment rate rises.

Further development of this type of analysis has mainly taken the form of attempts to obtain a more complete explanation of wage movements by introducing additional explanatory variables such as profits and prices,² the type of bargaining process,³ the level of new hires,⁴ value productivity,⁵ adjusted unemployment rates;⁶ and by shifting temporal relationships and applying the analysis to different periods and industries. Given the multiplicity of variables, type of specification, industry coverage, and period of observation, the results, as might be expected, are diverse and often appear contradictory.⁷

In common with other formulations in this type of research, the model used here hypothesizes a relationship, specified in single equation form, between changes in wages and changes in certain labor market variables. The investigation in this article is limited to that portion of Phillips curve research dealing with the existence of a stable relationship between wage movements and movements of selected economic variables, especially the unemployment rate.⁸

Our study resulted in an estimated equation which by standard statistical criteria provides a reasonably good statistical fit over the period 1949 to 1968. However, further investigation revealed that this relationship was unstable among subperiods of this 20-year period. In particular, the model did not perform well in representing the course of compensation during the 1958–64 subperiod. Although the scope of our investigation was not adequate to support conclusive judgments, the finding of instability contributes further to questions which have been raised about the adequacy of a model of the Phillips type as an explanation of changes in compensation.

William R. Bailey is chief of the Special Reports Group' and Arthur Sackley is a labor economist, Office of Wages and Industrial Relations, Bureau of Labor Statistics.

Method of investigation

The general procedure for this investigation was to specify a single equation model, test the specification by means of ordinary least squares regression techniques, and examine the statistical properties. Many variables in various combinations and alternatives were tested. The preferred form was the one which was logical on conceptual grounds and yielded the highest coefficient of determination (\mathbb{R}^2) and the smallest standard error (S.E.). It associated change in compensation per man-hour in the private economy (dependent variable) with the civilian unemployment rate, the change in that rate, the rate of change in consumer prices, the rate of corporate profits, and changes in the Federal minimum wage.

The equation takes the form:

where

C= the percent change in compensation per man-hour in the private economy;

U= the reciprocal of the civilian unemployment rate:

U'= the first difference in the reciprocal of the civilian unemployment rate variable;

P= percent change in the Consumer Price Index;

R= the ratio of after-tax profits to gross corporate product; and

M= a dummy variable for the effect of changes in the Federal minimum wage.

Observations used in this investigation ran from the second quarter of 1949 to the fourth quarter of 1968.9

The dependent variable (C)—the percent change in compensation per man-hour for employees in the private nonfarm economy—includes wage and salary payments plus supplements to wage and salaries which are included in the national income accounts. The specific form of this variable is the percent change in compensation in a given quarter from the same quarter in the prior year.

Two variables were specified to reflect labor market conditions: the reciprocal of the civilian unemployment rate (U) and the change in the rate (U'). The first variable is specified as the reciprocal of a 4-quarter average, lagged one quarter to reflect an anticipated delay in reaction to the changed labor market condition. The reciprocal specification was adopted to conform to an expected nonlinear relationship. The other unemployment variable (U') is specified as the first difference in the unemployment rate variable.

The price change variable (P) was included to account for the effect upon wages produced when consumer price changes motivate the worker to maintain his real income or when they trigger escalator clauses, which are institutional devices for achieving the same objective. The price variable is specified as a percent change to one quarter from the same quarter in the previous year. The unlagged form proved superior to the lagged versions in the statistical tests.¹¹

The rate of corporate profit represents the ability of employers to grant wage increases. It is also an indicator of market power on the part of the employer. The version specified in the model (R_{t-1}) is the 4-quarter average of the ratio of after tax profits to gross corporate product, lagged one quarter.

The other independent variable in the function is a dummy variable (M_t) to account for the effect on wages of a change in the Federal minimum wage. It takes the value of 1 in the 4 quarters including and immediately following the institution of a general change in Federal minimum wages and zero otherwise.

Other variables were considered for the equation, among them a dummy variable for the period of Federal wage guideposts, changes in the rate of employer contributions for social insurance, a job-opening-to-employment ratio, changes in the amount of bargaining activity, overtime hours, and the lagged value of the dependent variable. With the exception of the last, all variables were rejected because they made little or no contribution to the effectiveness of the model in explaining wage changes. The last—the lagged value of the dependent variable—was rejected because the authors felt the model was sounder conceptually when it was specified entirely in terms of independent variables.

The form of the model that provided the best statistical fit is shown below. Values of the t

 $\bar{R}^2 = 0.86$

statistic are shown in parentheses:

SE = 0.64

$$\begin{array}{c} C_t {=}\, 0.1501 {+}\, 9.6983 \ U_{t-1} {+}\, 34.4031 \ U'_t \\ (6.8) \qquad \qquad (6.6) \end{array}$$

$$+ 0.4778 \ P_t {+}\, 0.1351 \ R_{t-1} {+}\, 0.7520 \ M_t \\ (10.1) \qquad \qquad (2.9) \qquad \qquad (4.7) \, . \end{array}$$

All variables are significant at the 1 percent level. Eighty-six percent of the change in compensation is associated with the behavior of the independent variables.

DW = 1.23

As an illustration of the application of the model, the actual values of the independent variables for 1969 can be inserted in the equation to produce a set of estimated values of the dependent variable. These estimated values can then be compared with the actual. For example, the equation is as follows for the first quarter of 1969:

$$\begin{array}{l} {\rm C}\!=\!0.1501 + (9.6983) \; (0.2800) \\ + \; (34.4031) \; (0.0082) + (0.4788) \; (4.8739) \\ + \; (0.1351) \; (9.2792) + (0.7520) \; (0) \\ {\rm C}\!=\!6.7349 \end{array}$$

The estimated and actual values for the percent change in compensation per man-hour for the four quarters of 1969 are the following:

> Estimated: 6.7349; 6.8046; 6.8038; 6.9195 Actual 6.9067; 6.9472; 6.9382; 6.2758

Tests of stability

Some additional insights were obtained by closer examination of certain analytical results. One matter of particular interest came to light; that is, the question of the stability of the relationship over time.

In examining the results of one of the interim forms of the model we noted certain differences in the pattern of the estimation error. Particularly, there was a rather persistent pattern of overestimation of the extent of wage change during the sluggish period from mid-1957 through mid-1964. Earlier periods displayed the opposite tendency, although not so markedly. These observations raised the question of whether the estimated relationship was stable. Therefore, we sought to determine whether the relation changed significantly and, if so, at what point in time.

For purposes of testing for the stability of the relationship, the model, as estimated, possesses

one serious defect, that of serial correlation of the residuals as indicated by the Durbin-Watson statistic of 1.23. The method used to test for stability is the one developed by Gregory Chow, which assumes the serial independence of the residuals. At least a part of the serial correlation in our model results from the use of overlapping 4-quarter periods in the specification of some variables. Therefore, we developed a model specified for 1-quarter periods which proved to be free of serial correlation. The use of single quarters also clarifies the timing of relationships and of changes in relationships.

The preferred form of the 1-quarter model (the one which provided the best statistical fit) differs in specification from the 4-quarter model. Nevertheless, the results of the following analysis seem clear enough to support reasonable inferences regarding the properties of the 4-quarter model.

The testing procedure was to estimate the model for the total period of observation and for various subperiods and test whether the model produced reasonably comparable estimates for the total period and each subperiod. Having performed this test for the 1-quarter model, we then estimated the 4-quarter model for significant subperiods and drew conclusions from the standard statistical properties of the estimates.

The 20-year period, 1949 through 1968, was divided into 4-year subperiods. The choice of subperiods was dictated by the joint objectives of defining economically meaningful periods and defining sufficiently short periods to identify points at which the relationship might have changed.

The equation used to test for the stability of the quarterly model for 1949–68 was as follows (t values in parenthesis)

$$\begin{split} \mathrm{C_t} &= -0.376 + 2.739\,\mathrm{U_t} + 0.427\,\mathrm{M_t} \\ &\quad (3.14) \quad (4.06) \\ &\quad + 0.269\,\mathrm{P_{t-1}} + 0.069\,\mathrm{R_{t-1}} \\ &\quad (3.74) \quad (2.27) \\ &\quad \overline{\mathrm{R}}{}^2 = .48 \ \mathrm{SE} = .43 \ \mathrm{DW} = 1.97 \end{split}$$

in which:

C=the quarterly change in compensation per man-hour;

U=the reciprocal of the quarterly unemployment rate;

Table 1. Comparison of results of 4-year subperiod tests of the stability of the 1-quarter model regressions

| | | C | oefficients of the in | | | | | |
|--------|-----------|---|---|--------------------------------|---|-----------------------------------|--------------------------|---------|
| Period | Intercept | Reciprocal of unemployment rate (U _t) | Dummy for change in Fed- eral minimum wage (M _t) | Consumer price change (Pt-1) | Corporate profit rate (R _{t-1}) | Coefficient of determination (R2) | Standard error (S.E.) | |
| 949–52 | -1, 3565 | 6, 7048 | 1, 4997 | 0, 2660 | 0.0447 | 0, 77 | 0. 51 | 12, 689 |
| 953-56 | -0, 8287 | 1.7837 | (4. 8) 0. 7557 | -0. 1227 | (0. 5) 0. 1370 | 0. 66 | 0. 27 | 8, 183 |
| 957-60 | 1. 4040 | (1. 9) 8. 2200 | (4. 2) 0. 1540 | (-0.82) -0.0401 | -0. 2104 | 2 0 | 0. 45 | 0, 839 |
| 961–64 | -0.3027 | -10, 5062 | (0, 31) 0, 0266 | (-0.12) -0.1834 | (-0.83) 0.3515 | 2 0 | 0. 45 | 0. 150 |
| 965–68 | -3. 4806 | (-0.38) 16.0432 (1.7) | (0. 11) 0. 0667 (0. 12) | (-0.33) -0.0029 (-0.006) | (0, 44) 0, 0751 (0, 23) | 0, 33 | 0. 47 | 2, 831 |

 $^{^1}$ Critical value of F at the 5-percent level is 3.48, 2 The determination ratio (R) and the determination ratio adjusted for degrees of freedom (\overline{R}^2) are computed as follows:

R2=regression sum of squares total sum of squares

M=a dummy for changes in the minimum wage;

P=the quarterly percent change in the Consumer Price Index; and

R=the quarterly corporate profit rate.

The estimated equations for the five subperiods are shown in table 1. The results, by standard criteria, are very poor except for the first two periods. On the whole, there is a marked inconsistency in coefficient signs and significance tests. At least part of this result may be due to the small number of observations in each subperiod, but the conclusion of inconsistency is inescapable. The most interesting feature is the complete failure of the model to account for wage changes in the 1957–60 and 1961–64 periods.

The test of stability of the fitted relation consists of a test of the hypothesis that the coefficients of the relation fitted for the whole period and for various subperiods are equal, that is, $b_0=b_1=b_2$ where the b_1 are, respectively, vectors of coefficients for the whole period and for two subperiods comprising the whole. The test is an F test on the sums of squared residuals (SSR).¹³

Tests of equality between each 4-year subperiod and the other 16 years of the full period are shown in table 2. It is interesting that the only period identified as inconsistent with the others was 1949–52, not 1957–60 or 1961–64.

To further test the stability of the postulated relationship, a new group of subperiods was defined to clarify the subperiod relationship. In particular, the period of sluggish economic growth from 1958–64 was defined as a subperiod because

R²=1-residual variance total variance

When the correlation is low enough, \bar{R}^2 may actually assume a negative value. This happened in these two periods, and the value was arbitrarily set at zero.

NOTE: Numbers in parentheses are t values.

the behavior of the economy during 1957 seemed more consistent with that of the 1953–56 period. The results of the regressions are shown in table 3 and those of the interperiod stability tests, in table 4.

Although the results are not startling, they reinforce the idea that the relation does not hold for the 1958-64 period and that 1949-52 is still the source of a finding of inequality. The question remains as to why 1958-64 is not shown to be inconsistent.

Interpreting the tests

The logic of the stability test is that if the parameters of the relation in two subperiods differ significantly from one another, better statistical fits would be obtained for each period separately than for the full period. This superiority of fit will reflect itself in the residual sums of squares. The data indicate that the 1949–52 period is explained significantly better by the subperiod model. This is not surprising because this period was one of extreme changes in rates of compensation, and wage behavior during the

Table 2. Results of tests of equality between 4-year subperiods and the other 16 years of the 1949—68 period

| 4-year period | F value 1 | Conclusion |
|--|--|--|
| 1949–52 1953–56 1957–60 1961–64 | 4. 004 0. 749 0. 541 1. 092 0. 747 | Not equal. Equal. Equal. Equal. Equal. |

¹ Critical value of F at 5-percent level is 2.35.

Table 3. Comparison of estimates for selected subperiods (1-quarter model)

| | | | Coefficients of inc | lependent variables | | | | F value |
|------------------|-----------|--|--|-------------------------------|---|-----------------------------------|--------------------------|---------|
| Period | Intercept | Reciprocal of unemploy- ment rate (U _t) | Dummy for change in Federal minimum wage (M _t) | Consumer price change (Pt-1) | Corporate profit rate (R _t -1) | Coefficient of determination (R²) | Standard error (S.E.) | |
| 949–57 | -0. 5269 | 3, 5015 | 0.8441 | 0. 2850 | 0. 0526 (1. 4) | 0.64 | 0, 43 | 16.176 |
| 949–57 and 65–68 | -0.8732 | (2.9) 3.5289 | (4.7) 0.6114 | (3.2) 0.2653 | 0.0914 | 0, 56 | 0, 44 | 16.842 |
| 958-64 | 1.3113 | (3. 0) 8. 3202 | (4.7) 0.1075 | (3.0) -0.1278 | -0.1984 | 1 0 | 0. 42 | 0. 377 |
| 949-68 | 0. 3761 | (0. 96) 2. 7387 (3. 1) | (0. 64) 0. 4274 (4. 1) | (-0, 41) 0, 2962 (3, 7) | (-0.81) 0.0687 (2.3) | 0. 48 | 0, 42 | 18.670 |

¹ See footnote 2 to table 1.

period was influenced by a set of postwar circumstances that were probably more unusual than in any succeeding period.¹⁴ The 1958-64 period is

another matter, however.

The failure of the test to differentiate the 1958–64 period from the others is due to both the full period and the subperiod models producing equally bad results. The total lack of a relationship for the 1958–64 period (R²=0) eliminates the possibility of obtaining a lower sum of squared residuals from a subperiod estimate. Thus, the stability test is inappropriate to this period. The significance tests and the determination ratio are more appropriate bases for judgment in this instance and indicate that wage behavior during 1958–64 was inconsistent with that of other postwar subperiods.

The 4-quarter model

Concern over the stability of the relationship grew out of our work with the 4-quarter model. The single-quarter construction was then adopted only to meet the demands of the stability test. With the results of these tests and some additional examination on the behavior of the 4-quarter model, some inferences could be made regarding the stability of the 4-quarter model. The latter was estimated for selected subperiods derived from the quarterly analysis, and the results, shown in table 5, are generally consistent with the finding of interperiod variability derived from the quarterly model.

Over the whole period from 1949-68, the variables explain 86 percent of the variation in compensation. All variables have the expected signs, and are significant at the 1-percent level.

NOTE: Numbers in parentheses are t values.

The results were slightly better for 1949-57; that is, a higher coefficient of determination, lower standard error, and less serial correlation.

The explanatory capability of the model deteriorates from 1958 to 1964. The unemployment variable becomes negative and only the coefficient for the profit variable is as significant as in the prior period. However, the standard error is low.

From 1965 to 1968, the coefficient for price change is significant at the 1-percent level. In estimates for this period, the standard error dropped sharply. Omission of the 1958–64 period produced marginally better results than estimates which included all observations. Values for all independent variables were significant.

Cautions and conclusions

These findings cannot be accepted without reservation, however. The theory from which the model is derived purports to explain changes in wage rates by selected conditions in the labor market. Such a relationship covers only endogenous changes in the unit cost of labor services. But measured wage changes also include the effects of exogenous elements of compensation, such as

Table 4. Results of tests of equality between selected subperiods, 1949—68

| Subperiod 1 | Subperiod 2 | F value | Critical F value, 5-percent level | Conclusion |
|--|--|-------------------------|--|-----------------------------|
| 1949–57 and 1965–68 1949–57 1949–52 | 1958-64 1965-68 1953-57 and 1965-68 | 1. 74 1. 34 3. 34 | 2. 35 2. 35 2. 45 | Equal Equal Not equal |

Table 5. Comparison of estimates for selected subperiods, using 4-quarter model regressions

| | | | Coefficier | its of independen | t variables | | | | | |
|--------------------|-------------|---|----------------------------------|---|---|---|-----------------------------------|--------------------------|---------|-------------------------|
| Period | Y intercept | Reciprocal of unemployment rate (U _{t-1}) | Consumer price change (Pt) | Corporate profit rate (R _{t-1}) | Dummy for change in Fed- eral minimum wage (M _t) | Change in reciprocal of unemployment rate (U' _t) | Coefficient of determination (R2) | Standard error (S.E.) | F value | Durbin- Watson value |
| 1949-57 | 0. 6229 | 9.8587 (4.3) | 0. 5165 (9. 9) | 0.0838 (1.21) | 1. 2653 (4, 5) | 30. 1695 (4. 9) | 0, 92 | 0.63 | 73.3 | 1, 75 |
| 1958–64 | 0, 1481 | -25.7843 (-1.2) | 0.5718 | 0.8361 | 0.0645 | 15.4816 | 0.30 | 0.53 | 3.0 | 1.41 |
| 1965-68 | -0.7607 | 16.5489 | (1.5) 0.9595 | -0.0693 | (0, 26) 0, 0665 | (0, 43) 36, 7414 | 0.94 | 0.36 | 44.8 | 1.76 |
| 1949-57 and | -0.6348 | (0, 84) 11, 0243 | (2.7) 0.4936 | (-0.16) 0.1656 | (0.10) 1.0291 | (0, 84) 29, 8592 | 0, 89 | 0.64 | 81, 2 | 1, 31 |
| 1965–68 1949–68 | 0, 1501 | (5. 2) 9. 6983 (6. 8) | (10, 0) 0, 4788 (10, 1) | (2. 6) 0. 1351 (2. 9) | (5. 0) 0. 7520 (4. 7) | (4. 8) 34. 4031 (6. 6) | 0, 86 | 0. 64 | 99.2 | 1. 23 |

NOTE: Numbers in parentheses are t values.

changes in statutory minimum wage rates, 15 as well as the effects of industry shifts. Further, no account has been taken of factors which are endogenous to the economic system but exogenous in the timing of their effect upon wage changes, namely, the impact of major collective bargaining settlements, where the timing is dictated by contract provisions. There is, therefore, an element of inconsistency between the theoretical statements about wage changes and the data used to measure those changes. It is probable that some of the instability in wage-rate behavior is attributable to data problems of this type rather than to faulty specification of the model. Consequently, the validity of any conclusions in this paper depends on the adequacy of the wage measure.

The foregoing analysis demonstrates substantial instability in the relationships specified in our model. What are the implications of this instability for the analysis of wage changes?

The major point is that the variability in the model's performance is associated with significant variability in the behavior of the economy. The instability does not appear to be merely the result of natural variability among small samples. The subperiods for which analyses were performed all differ from one another in terms of rates of economic change, patterns of change, and differences in policies adopted to achieve economic stabiliza-

tion. In particular, 1949–52 was a period influenced by wartime conditions and economic controls, and 1958–64, one of sluggish economic growth. Therefore, the instability observed in the model suggests either that there were changes in behavioral relations in the economy or that the model does not represent properly the existing behavioral relations between economic processes and wage change. These alternative explanations are appropriate subjects for further research.¹⁶

In summary, a model has been developed which provides an approximation of wage changes, on the average, for the postwar period. This model specifies a relationship between changes in worker compensation and unemployment, changes in unemployment, changes in consumer prices, the level of profits, and changes in the Federal statutory minimum wage. However, our knowledge of compensation changes, as reflected in this model, cannot be considered satisfactory at this point. The relationship among the variables in the model was inconsistent over time, and it is a poor representation of the forces of change between 1958 and 1964. Research goals should be directed toward developing a model that represents more adequately the structure of the wage-change process.

---FOOTNOTES----

¹ A. W. Phillips, "The Relation Between Unemployment and the Rate of Change of Money Wage Rates in the United Kingdom," *Economica*, November 1958, pp. 283–99.

² George L. Perry, "The Determinants of Wage Rate Changes and the Inflation-Unemployment Trade-off for the United States," Review of Economic Studies, October 1964, pp. 287-308.

³ Otto Eckstein and Thomas A. Wilson, "The Determinants of Money Wages in American Industry," *Quarterly Journal of Economics*, August 1962, pp. 379–414.

⁴ Sara Behman, "Wage Determination Process in U.S.

Manufacturing," Quarterly Journal of Economics, February 1968, pp. 117-142.

- ⁵ Edwin Kuh, "A Productivity Theory of Wage Levels—An Alternative to the Phillips Curve," *Review of Economic Studies*, October 1967, pp. 333–365.
- ⁶ N. J. Simler and Alfred Tella, "Labor Reserves and the Phillips Curve," *The Review of Economics and Statistics*, February 1968, pp. 32–49.
- ⁷ H. I. Liebling and A. T. Cluff, "U.S. Postwar Inflation and Phillips Curves," *Kyklos*, 1969, pp. 232–250, for a survey of results of prior Phillips curve studies of the U.S. economy.
- ⁸ For a negative conclusion on this point, see Raltan J. Bhatia, "Unemployment and the Rate of Change of Money Earnings in the United States, 1900–1958," *Economica*, August 1961, pp. 285–296.
- ⁹ This model closely resembles the one developed by George L. Perry in the article cited in footnote 2.
- ¹⁰ The data for observations on this variable were obtained from the Division of Productivity Research, Bureau of Labor Statistics. They are seasonally adjusted.
- ¹¹ For other evidence supporting a coincident version, see Thomas F. Cargell, "An Empirical Investigation of the Wage-Lag Hypothesis," *American Economic Review*, December 1969, pp. 806–816. We, of course, recognized

the probability of wage changes influencing price changes as well.

- ¹² Gregory Chow, "Tests of Equality Between Sets of Coefficients in Two Linear Regressions," *Econometrica*, July 1960, pp. 591–605.
 - 13 Ibid., p. 598. Letting

 Q_1 = the sums of squared residuals for the full period,

 Q_2 = the sum of the ssr from the 2 subperiods,

 Q_3 = the difference between Q_1 and Q_2 ,

M=number of observations in subperiod 1,

N=number of observations in subperiod 2, and

P=number of independent variables;

then

$$F(P,M+N-2P) = (Q_3/P)/(Q_2/(M+N-2P)).$$

If F is greater than F_e the hypothesis $b_0 = b_1 = b_2$ is rejected.

- 14 See Perry, op. cit.
- ¹⁵ The dummy variable M in the model indicates that minimum wage changes are a significant influence; but, being a dummy variable, it does not quantify the impact of changes precisely.
- ¹⁶ For additional discussion, see comments by Paul S. Anderson, Michael L. Wachter, and Adrian W. Throop, and reply by George L. Perry, in "Wages and the Guideposts," *American Economic Review*, June 1969, pp. 351–70.

Trade unionism in America

The 1970 edition of A Brief History of the American Labor Movement (BLS Bulletin 1000) continues a 20-year tradition of introducing its readers to the mainstreams of trade unionism in the United States. This latest edition updates by 5 years the third edition. It spans a period of almost 180 years, from the time of the first craft organizations of carpenters, shoemakers, and printers in 1791 through the formation of the Alliance for Labor Action in 1969. The Brief History discusses the influence of key leaders on

union policies and activities and the significant developments in the organization of workers and in collective bargaining. And in a lengthy appendix, chronologically organized, it presents "Important Events in American Labor History."

Copies of the *Brief History* may be obtained from any of the regional offices listed on the inside front cover, or from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The price is \$1.

Output per man-hour averaged 5.8 percent annually during 1958-69, compared with 3.4 percent for all manufacturing

JOHN E. HENNEBERGER AND HAZEN F. GALE

Productivity in the major household appliance industry

Productivity in the major household appliance industry ¹ has been increasing rapidly. Output per man-hour in this industry went up an average 5.8 percent a year between 1958 and 1969—a rate far higher than the 3.4-percent rate for all manufacturing and higher than the rates for two-thirds of the 31 individual industries whose productivity the Bureau of Labor Statistics measures regularly.² As a result, the 1969 index of output per manhour for major household appliance manufactures was nearly 90 percent above its 1958 level.

Productivity went up almost every year—even in 1960 and 1961, when output declined. Year-to-year increases ranged from over 14 percent in 1963 to less than 3 percent in 1965.

Output per man-hour grew much faster in the first half of the period than in the second. Productivity went up 7.9 percent a year between 1958 and 1963, as opposed to 3.6 percent a year between 1963 and 1969. (See table 1 and chart 1.) This pattern is typical of industry in general: while output may increase steadily throughout a business expansion, productivity generally goes up faster in the earlier than in the later stages.

The increase in output per man-hour in this industry is closely related to the increase in output. The output index for major appliances went up nearly 120 percent between 1958 and 1969, representing production increases in every year after 1961. The only declines in output came in 1960 and 1961 during a mild recession.

Productivity growth varied widely for the component industries of the major household

appliance group. In the refrigerator and freezer industry output per man-hour grew fastest, and in cooking equipment the slowest. (See table 2.)

Both employment and man-hours in the major household appliance industry went up about 1 percent a year between 1958 and 1969. This slight growth represents a decrease in the first half of the period combined with an increase in the second half. The change in direction reflects the combined effect of output and productivity change.

| | 1958-63 | 1963-69 |
|---------------------|---------|---------|
| Output | 6. 1 | 6. 6 |
| Output per man-hour | 7. 9 | 3. 6 |
| Man-hours | -1.7 | 2. 9 |

Productivity went up faster than output in the first part of the period, with the drop in man-hours. In the second half of the period, output outpaced productivity, with the increase in man-hours.

According to preliminary estimates, the industry had about 114,000 employees in 1969, up from 99,000 in 1958. Changes in total man-hours worked followed employment changes closely in most years, but there was a slight increase in annual hours worked per employee.

In contrast to most manufacturing industries, production workers in this industry accounted for an increasingly larger share of the total work force from 76 percent in 1958 to 81 percent in 1969. The increase resulted entirely from an increase in production worker employment (1.5 percent a year), but nonproduction worker employment declined. Therefore, the 5.2 percent average annual growth in output per production worker man-hour has not been as great as the comparable measure for all employees.

Employment expanded in cooking equipment and refrigerators, and declined in laundry equipment and other appliances.³ There was no clear relationship between productivity growth and

John E. Henneberger and Hazen F. Gale are economists in the Division of Industry Productivity Studies, Bureau of Labor Statistics. Richard Lyon, of the Bureau's Division of Technological Studies, provided the information on technological developments.

Table 1. Output per man-hour and related data in the major household appliance industry, 1958-69

[Indexes, 1958=100]

| | Out | put | | Related data | |
|--|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|
| Year | Per employee | Per employee man-hour | Output | Employees | Employee man-hours |
| 1958 1959 1960 1961 | 100. 0 108. 4 110. 8 120. 1 | 100.0 109.0 113.6 121.0 | 100. 0 116. 5 115. 9 114. 6 | 100. 0 107. 5 104. 6 95. 4 | 100. 0 106. 9 102. 0 94. 7 |
| 1962 1963 1964 1965 | 133.6 150.5 157.3 163.0 | 131.7 150.4 156.1 160.2 | 128. 5 142. 7 157. 8 170. 5 | 96. 2 94. 8 100. 3 104. 6 | 97. 6 94. 9 101. 1 106. 4 |
| 1966 1967 1968 ¹ 1969 ¹ | 159. 4 168. 2 179. 7 187. 0 | 159. 8 170. 6 179. 4 186. 7 | 178. 5 181. 7 200. 9 215. 8 | 112.0 108.0 111.8 115.4 | 111.7 106.5 112.0 115.6 |
| | | Average | annual rates (| (percent) | |
| 1958-69 | 5.9 | 5.8 | 7.1 | 1.1 | 1.2 |

¹ Preliminary.

employment growth; though the greatest growth in both categories took place in refrigerators, cooking equipment had a slow productivity increase and a relatively fast employment increase.

In the short run, output growth is usually a major factor in productivity growth; however, over longer periods of time, productivity increases can result in lower prices, which in turn stimulate demand and lead to greater output growth. In the major household appliance industry, the long-term trend seems to be true. Appliance prices declined while output and output per man-hour grew. Prices for other durable goods were rising at the same time.

The price decline partially reflects the high rate of productivity increase which contributed towards lower unit labor costs. The 1969 wholesale price index for major household appliances was about 7.5 percent below that of 1958, while the 1969 price level for all industrial commodities was over 13 percent above its 1958 level.

Price changes and productivity increases were inversely correlated for the industry's components. Prices of refrigeration equipment went down the most, just as its productivity went up the most; the 1969 price index for this product was about 18 percent lower than the 1958 index. Prices did not decline for all appliances. The price of cooking ranges went up about 6 percent between 1958 and 1969, corresponding to the rel-

atively slow rate of growth in output per manhour in this part of the industry.

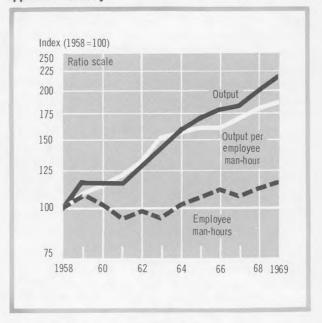
Prices began to move up in 1967 for most of the industry's products. This rise probably reflects the strong inflationary pressures in the economy that resulted in higher material costs and accelerating wage increases.

Factors affecting productivity

OUTPUT. As with the industry as a whole, there was a positive relationship between productivity and output growth for the industry's components. Output and productivity grew the fastest in refrigerators and freezers, the slowest in cooking equipment. Both output and productivity grew at moderate rates in laundry equipment and in other appliances.

Population growth and the new household formation that it fosters is a prime source of demand for major household appliances. These products, once considered luxuries, have come to be regarded as necessities; consequently, the percentage of households owning any or all of the appliances manufactured by the industry has risen steadily and output has responded accordingly.

Chart 1. Output per employee man-hour, output, and employee man-hours, 1958-69, in the major household appliance industry ¹



¹ SIC 3631, 3632, 3633, and 3639.

Table 2. Average annual rate of change in output, output per man-hour and man-hours in the major household appliance industry and subindustries, 1958–67

Percent

| | Output | Output per employee man-hour | Man-hours |
|---|--------------------------------------|------------------------------------|---------------------------|
| Major household appliance industry Cooking equipment Refrigeration equipment Laundry equipment Appliances, not elsewhere classified | 7. 1 4. 5 9. 8 5. 0 4. 9 | 6.3 3.1 7.8 6.6 4.8 | 0.8 1.4 1.9 -1.6 |

Replacement demand is another major influence on appliance production. This factor becomes increasingly important as the ownership percentage, or saturation ratio, grows. Replacements now represent a substantial share of the market for refrigerators, ranges, clothes washers, and water heaters. (See table 3.)

Like other consumer durable goods industries, the major household appliance industry is particularly responsive to changes in the business cycle—when times are bad people can often postpone buying new homes or replacing wornout appliances. Satisfying such pent-up demand makes output jump when the economy turns up again. For example, the household appliance industry was hit hard by the 1957–58 recession; the following year, it experienced its biggest increase in output during the period studied—16.5 percent.

Changes in the nature of the product also affect demand; output can increase even for products like refrigerators that have a high saturation rate. Refrigerators and freezers grew faster than any other major appliance industry, primarily because of a pronounced consumer preference for larger and more expensive models. Thus, the principal source of output growth in this industry has not been the greater number of units produced, but rather their increased size and new features.

Capital expenditures. The relationship between capital expenditures and productivity growth is never very clear, but in general it is believed that an increase in capital outlays will eventually bring about an increase in productivity. The major household appliance industry seems to bear this out, with both expenditures for new plant and equipment and output per man-hour showing large growth rates between 1958 and 1967. Capital expenditures per employee in this industry rose at

an annual rate of 13 percent over the period, going from \$260 in 1958 to \$820 in 1965, with a slight drop in succeeding years. Capital expenditures in manufacturing in general went up 7.8 percent per employee a year between 1958 and 1967.

The relatively large increase in capital spending was related more to expansion of capacity than to introduction of new technology. Since the new equipment and facilities were more efficient than the old, capital investment probably helped to reduce labor requirements.

Just as in the industry as a whole, capital investment growth in the individual parts of the industry corresponded to productivity growth: those industries that had large productivity increases also had large capital spending increases. Refrigerators and laundry equipment grew rapidly in both categories, while cooking equipment and all other appliances had low rates of growth for both capital investments and productivity.

Changes in technology. Most of the industry's capital spending went toward plant modernization, expecially after 1963. These facilities incorporated recent advances in technology and more efficient plant layouts. Advances in machines that form and cut metal resulted in greater speed and accuracy, more automatic controls and devices, and better adaptation to mechanized materials handling. Multistation machines and fabricating lines

Table 3. Replacement and saturation of major household appliances

| Product | 1958 | 1964 | 1967 |
|--|--|---|--|
| | Replacement | as a percent of | total sales |
| Dryers (gas and electric) Freezers Dishwashers Ranges (gas and electric) Refrigerators Water heaters (gas and electric) Clothes washers Food waste disposers | 19 15 10 62 77 50 73 12 | 31 30 16 48 56 60 60 38 | 46 34 13 55 84 80 72 34 |
| | Saturation as a | percent of househ | olds owning |
| Dryers (gas and electric) Freezers Dishwashers Ranges (gas and electric) Refrigerators Water heaters (gas and electric) Clothes washers Food waste disposers | (1) 98 (1) 91 8 | 24 26 9 2 95–100 99 2 90 87 13 | 30 28 16 2 95-100 99 2 90 88 16 |

¹ Not available. ² Estimated by the Bureau of Labor Statistics, based on data from Merchandising Week.

also made metalworking operations more efficient. One producer of laundry equipment installed a 13-station palletized transfer machine that performs drilling, tapping, milling, and other operations required in processing washing machine gear cases. Another large firm introduced an electronically-controlled production line consisting of nine separate metal-cutting, metal-forming, and joining operations for fabricating refrigerator and freezer doors.

Assembly machines, which locate component parts automatically and join them together, replaced manual operations in an increasing number of plants. Machines which measure and inspect work automatically have replaced manually-operated instruments in growing numbers. They

save time, reduce errors, and require less skilled workers than does manual inspection.

Plastics were used more and more in appliance manufacturing. They offer lower tooling costs, fewer man-hours for secondary finishing operations, improved chemical and physical properties, and adaptability to a wide variety of fabrication techniques. Appliance components made of plastic are usually lighter; consequently, they require less labor handling between stations and in final assembly.

In the larger firms, computers took over a good deal of the increased office work brought about by expanding production. They are used in such operations as billing, inventory control, payrolls, and production scheduling.

---FOOTNOTES-

¹ The major household appliance industry as defined in this report is composed of four subindustries, designated 3631, 3632, 3633, and 3639 in the 1967 Standard Industrial Classification (SIC) Manual. The primary products manufactured by each subindustry are as follows. SIC 3631 (Household Cooking Equipment): Establishments primarily engaged in manufacturing household cooking equipment such as stoves, ovens, and ranges (both gas and electric types). SIC 3632 (Household Refrigerators): Establishments primarily engaged in manufacturing household refrigerators and home and farm freezers. SIC 3633 (Household Laundry Equipment): Establishments primarily engaged in manufacturing laundry equipment such as washing machines, wringers, driers and ironers for household use. SIC 3639 (Household Appliances, not elsewere classified): Establishments primarily engaged in manufacturing household appliances, not elsewhere classified, such as hot water heaters, dishwashers, food waste disposal units, and floor polishers.

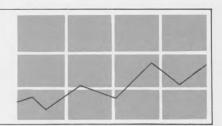
These four industries account for over 60 percent of the household appliance industry (SIC 363). Other components

of the industry manufacture what are small household appliances or housewares: SIC 3634, electric housewares and fans; SIC 3635, household vacuum cleaners; and SIC 3636, sewing machines. These industries are not included in this report.

- ² A technical note describing the methods and procedures used in developing the indexes is available from the Bureau upon request. All average annual rates of change are based on the linear least squares trend of the logarithms of the index numbers.
- ³ The refrigerator industry is the largest appliance industry; with 50,000 employees in 1967, it accounted for nearly half of the industry's total employment. Laundry equipment was the next largest industry, with 22,000 employees in 1967 representing 21 percent of the total. Cooking equipment and other household appliances accounted for 19 percent and 13 percent, respectively.
- 4 Replacement and saturation data from Merchandising Week.

The Monthly Labor Review welcomes communications that supplement, challenge, or expand on research published in its pages. To be considered for publication, communications should be factual and analytical, not polemical in tone. Communications should be addressed to the Editor-in-Chief, Monthly Labor Review, Bureau of Labor Statistics, U.S. Department of Labor, Washington, D.C. 20212.

The Anatomy of Price Change



THE SECOND QUARTER, 1970

THE RATE of inflation was reduced slightly in the second quarter, as the effect of the business slowdown in the past year broadened. The Implicit Price Deflator for private Gross National Product advanced at an annual rate of 4.1 percent—down from 5.3 percent in the first quarter, and the slowest since the third quarter of 1968. (See table 1.) The upward pace of the Consumer Price Index (CPI) lessened from an annual rate of 7.0 percent in the first quarter to 5.9 percent. This was slower than the increase last year in the second quarter but faster than in the second half. (See table 2.) Early in the third quarter, the CPI rise eased further to a 4.8 percent annual rate for the 3month period ending in July, compared with 5.8 percent in June.

It is too early to conclude that the most recent deceleration represents the beginning of a return to price stability, since many factors other than changes in economic activity influence price behavior. However, some of the developments contributing to the deceleration were similar to those which occur when an inflationary period is drawing to a close.

One such development was the less rapid rise in unit labor costs as the improvement in output per man-hour partly offset the rise in compensation per man-hour. Productivity rose because private output moved up after 6 months of decline and man-hours were reduced sharply chiefly by lower employment. The last time employment fell as much as in the second quarter was in the latter half of 1962. In addition, the decline in employment checked the rise in compensation so that the advance in compensation per man-hour was more moderate than in recent

quarters. Since the increase in unit labor costs was smaller than the rise in the Implicit Deflator, the employee share of private GNP decreased quite significantly.

Although increases were large for all major components of the Implicit Price Deflator, the rate of advance slowed considerably for producers' durable equipment and moderately for personal consumption expenditures. In the latter component, the slowdown for durables was substantial; nondurables rose at about the same rate as in the first quarter—somewhat below the 1969 peak; and services continued to accelerate. Private construction and government purchases of goods and services (excluding government employees' compensation) also increased more rapidly than in the first quarter.

In the Consumer Price Index, both goods and services components decelerated. The slowdown in the goods component occurred primarily in foods and new cars. Increased supplies of meats, poultry, and eggs combined with a slight easing in demand contributed to the smallest rise for

Table 1. The anatomy of price change, 1969 and 1970 [Annual rates, compounded]

| | Perc | | ange fro quarte | om prev | ious |
|---|--|--|--|--|---|
| Item | | 1969 | 1970 | | |
| | 11 | Ш | IV | 1 | 11 |
| PRODUCT DEFLATORS | | | | | |
| Private GNP deflator Personal consumption expenditures Private construction Residential Nonresidential Producers' durable equipment Government purchases of goods and | 4. 9 5. 0 6. 4 5. 7 8. 7 1. 7 | 4. 5 4. 8 7. 8 4. 4 9. 5 4. 7 | 4.7 4.7 2.7 1.2 4.0 3.8 | 5. 3 5. 1 4. 5 3. 8 4. 8 5. 7 | 4. 1 4. 2 7. 9 5. 2 10. 2 2. 7 |
| services 1 UNIT COSTS (ALL PERSONS) | 7.1 | 3.6 | 8.0 | 3.4 | 6. 9 |
| Private GNP deflator | 4. 9 7. 1 5. 9 -1. 1 1. 5 | 4. 5 6. 5 8. 2 1. 6 1. 1 | 4.7 7.9 8.8 0.8 -0.8 | 5.3 9.6 6.8 -2.5 -2.0 | 4. 1 1. 9 5. 1 3. 1 8. 2 |

¹ Excludes services of government employees.

Prepared by Toshiko Nakayama of the Division of Consumer Prices and Price Indexes, Bureau of Labor Statistics.

grocery store foods in almost 2 years. On the other hand, charges for restaurant meals, which includes cost of services as well as foods, continued to accelerate. Despite the second quarter slow-down, grocery store foods were still more than 6 percent higher than in the second quarter of last year. Restaurant foods were 8 percent higher.

Although the rise in new car prices slowed substantially, the durables component in the Consumer Price Index accelerated primarily because of the sharp advance in used car prices. Part of the difference in the behavior of the durables component in the Consumer Price Index and in Personal Consumption Expenditures in the second quarter can be attributed to the different treatment of used car prices in the two price measures. Higher used car prices stemmed partly from the unusually strong demand this spring for older model cars. Despite the large increase, used car prices in the second quarter of this year

averaged slightly below second quarter of last year. In contrast, home purchase prices, which are also treated differently in the two price measures, have contributed greatly to the rapid advance in the Consumer Price Index in the past year.³ In the second quarter, the rise in home purchase prices moderated somewhat from the rapid pace of the past year. Among other major durables, appliances and furniture prices increased slightly more than in the first quarter. The increase for furniture, however, was considerably smaller than in the second quarter of last year.

Among nondurables other than food, cigarette and gasoline prices rose sharply. Since the upturn in gasoline followed a steady decline in the three preceding quarters, prices in the second quarter of this year were just slightly higher than in the second quarter of 1969. The rise in apparel prices was slightly slower than in the first quarter and significantly slower than in 1968 and 1969. Sluggish

Table 2. Percent change in prices for consumer goods and services, 1969 and 1970 [Seasonally adjusted, annual rates, compounded]

| | | lative rtance, | | Quarter | | | | 2 | th | dian | | | |
|--|---------------|-------------------|------------|---------------|--------------|--------------|--------------|------------------------------|--------------|--------------|---------------|---------------|--------------|
| Item | December 1969 | | | 1969 | | 1970 | | 3-month span ending— 1970 | | | | | |
| | CPI | WPI | | 11 | 111 | IV | - 1 | П | April | May | June | July | Aug. |
| Personal Consumption Expenditures-Deflator Consumer Price Index-all items | | | | 5. 0 6. 6 | 4. 8 5. 4 | 4. 7 5. 8 | 5. 1 7. 0 | 4. 2 5. 9 | (1) 6. 0 | (1) 6. 0 | (1) 5. 8 | (1) 4.8 | (1) (1) |
| Consumer goods | 100, 0 | 100.0 | CPI WPI | 5. 9 5. 4 | 4. 6 3. 4 | 5. 2 5. 9 | 5. 1 4. 8 | 4.8 -0.9 | 4. 5 0. 3 | 4.8 -0.2 | 5. 2 -2. 7 | 3. 4 0. 1 | (1) 0 |
| Nondurables | 73. 4 | 76.7 | CPI WPI | 6. 1 6. 8 | 5. 5 4. 2 | 5. 6 5. 9 | 5. 8 5. 9 | 4.1 -2.5 | 4.3 -1.4 | 4.4 -1.8 | 3.7 -3.8 | 2. 2 0. 4 | (1) -1, 1 |
| Food | 35. 6 | 39.5 | CPI WPI | 6.7 9.1 | 6. 9 4. 4 | 7.3 9.7 | 9.1 8.7 | 3. 2 -8. 6 | 4.9 -6.3 | 3.6 -6.7 | 1.3 -11.1 | 0. 2 -0. 6 | (1) |
| Nondurables except food | 37.8 | 37.2 | CPI WPI | 5. 1 3. 1 | 4. 3 4. 1 | 4.3 3.6 | 3. 0 2. 6 | 4.7 3.1 | 4. 6 2. 1 | 4. 7 4. 4 | 4. 7 3. 0 | 4.3 | (1) 0.9 |
| Apparel, less footwear | 14.6 | 10.0 | CPI WPI | 5.3 2.0 | 4. 7 6. 6 | 5. 5 5. 5 | 2.6 3.0 | 2.3 2.4 | 2.3 3.7 | 1.7 | 2.8 | 2. 2 0. 1 | (1) 6 |
| Gasoline | 4.6 | 3.8 | CPI WPI | 7. 4 16. 1 | -1.0 -3.3 | -0.4 -1.1 | -3.2 -7.8 | 6.8 -1.2 | 7.0 | 5. 6 7. 1 | 7.8 -11.7 | -1.7 -1.9 | -15. t |
| Durables | 26.6 | 23.0 | CPI WPI | 5. 2 2. 1 | 2.1 | 4.2 | 3. 2 | 6. 1 2. 5 | 3.1 | 7.1 | 8. 1 2. 2 | 7. 5 3. 1 | (1) 2.3 |
| New cars | 3.6 | 10.3 | CPI WPI | 1.1 | 1.5 -0.4 | 2. 0 5. 7 | 4.2 | 1.1 | 1.2 | 0.9 | 1.3 | 0.9 | (1) 0, 4 |
| Furniture | 2.2 | 2.7 | CPI WPI | 8. 4 3. 4 | 4. 4 4. 8 | 4. 6 0. 9 | 3. 0 3. 8 | 4. 7 3. 2 | 5. 0 4. 7 | 5. 2 2. 3 | 3.8 | 2.3 | (1) 3.7 |
| Appliances including radio and TV | 2.5 | 3. 5 | CPI WPI | 1.0 | 1.6 0.7 | 1.4 0.2 | 1.8 | 2.1 | 2.3 | 1.8 | 2.3 | 1.3 | (¹) 2, 6 |
| Services ² | 100.0 | (1) | CPI | 8.3 | 6.7 | 6.6 | 10.0 | 9.0 | 10.6 | 9.3 | 7.3 | 6.4 | (1) |
| Household, except rent | 40.9 | (1) | CPI | 11.0 | 8.8 | 9.5 | 11.5 | 11.5 | 15. 4 | 12.2 | 7.1 | 6.0 | (1) |
| Transportation | 14.4 | (1) | CPI | 6.7 | 5.7 | 9.2 | 18.4 | 7.6 | 7.8 | 7.0 | 8.2 | 10.0 | (1) |
| Medical care | 14.6 | (1) | CPI | 9.5 | 7.7 | 2.6 | 7.3 | 9.4 | 9.7 | 9.3 | 9.2 | 8.7 | (1) |

¹ Not available.

p=Preliminary.

NOTE: Relative importances are for consumer goods portions of CPI and WPI. For all items in the CPI, consumer goods represent 63.8 percent and services represent 36.2 percent. CPI durables also include home purchases and used cars which are not included in WPI. For WPI, consumer goods represent 33.9 percent of all commodities.

² Total services, not seasonally adjusted.

sales in women's apparel continued to be an important factor.

At the wholesale level, price changes for consumer goods moderated during the second quarter. In June, both food and gasoline prices declined contraseasonally. Furthermore, except for new cars, increases for other goods were smaller than at the beginning of the quarter.

The cpr for services advanced 9 percent at an annual rate, compared with 10 percent in the first quarter. A more moderate rise than in the first quarter for local transit fares contributed greatly to the deceleration. In addition, home repairs, laundry services, and washing machine repairs were among the few services for which increases were somewhat slower than in the first quarter and over the past year. Since the second quarter of 1969, the cpr for services has advanced 8 percent, compared with 4.9 percent for commodities. Transportation and household services have risen over 10 percent and medical care services 6.7 percent.

Although the slowdown in the economy has had little effect on service prices thus far, it has apparently started to affect employment. The

second quarter rise in employment in the service-producing sector was the smallest since early 1963. In another development, the rate of advance—based on a 3-month span—for household services moved down from 15.4 percent in April to 7.1 percent in June, This was due largely to the tapering off after April in the uptrend of mortgage interest rates, which, of course, has been a major factor in the sharp rise in the CPI services over the past year.

---FOOTNOTES---

- ¹ Rising auto sales combined with relatively stable auto prices gave larger weight to the automobile component, thus slowing the rise of the durables. Changes in the deflator result from shifts in weights as well as from price changes, unlike the changes in the CPI which result from prices only as weights are fixed.
- ² For explanation of the differences between PCE and CPI, see "Price changes in the first quarter of 1969 in perspective," *Monthly Labor Review*, July 1969, pp. 20–30, reprint No. 2628.
- ³ For a discussion of home purchase in the CPI, see "Trends in home ownership and rental costs," *Monthly Labor Review*, July 1970, pp. 26–32.

Occupational choice and job openings

As American industries continue to grow larger, more complex, and more mechanized, fundamental changes will take place in the Nation's occupational structure. Furthermore, occupations will become more complex and more specialized. Thus, an imposing and confusing number of occupational choices is provided to individuals who are planning their careers. An individual, in examining the vast number of choices, should first look at broad groupings of jobs that have similar characteristics such as entrance requirements. . . .

In considering a career, young people should not eliminate occupations just because their preferences will not be among the most rapidly growing. Although growth is a key indicator of future job outlook, more jobs will be created between 1968–80 from deaths, retirements, and other labor force separations than from employment growth. . . . Replacement needs will be particularly significant in occupations which have a large proportion of older workers and women. Furthermore, large occupations that have little growth may offer more openings than a fast growing small one. For example, among the major occupational groups, openings for operatives resulting from growth and replacement combined will be greater than for craftsmen, although the rate of growth of craftsmen will be more than twice as rapid as the rate of growth for operatives.

-Occupational Outlook Handbook, 1970-71 edition (BLS Bulletin 1650, 1970).

Research Summaries



WAGES IN MOTOR VEHICLE AND PARTS PLANTS

GEORGE L. STELLUTO

Straight-time earnings of production and related workers in motor vehicle manufacturing plants averaged \$3.82 an hour in April 1969 compared with \$3.24 for those in plants making motor vehicle parts, according to a Bureau of Labor Statistics survey. Virtually all workers in the motor vehicle industry were covered by collective bargaining agreements with the United Auto Workers; four-fifths of the workers in parts plants were covered by agreements, usually with uaw.

Men made up over nine-tenths of the 605,556 production workers in motor vehicle plants and four-fifths of the 226,946 workers in parts plants. Incentive pay systems applied to few workers in the motor vehicle industry, compared with about three-tenths in the parts industry. In both industries, a large majority of the workers were in the North Central region—four-fifths in vehicles and seven-tenths in parts.

Motor vehicles

The level of straight-time hourly earnings for production workers in motor vehicle plants in April 1969 (\$3.82) was 32 percent above the average recorded in a similar Bureau survey in April 1963. General wage increases—typically in the form of annual-improvement increases, cost-of-living adjustments, and special increases for skilled trades—accounted for a large part of the increase in average earnings during the 1963–69

period. The latest wage adjustments under major collective bargaining agreements expiring in September 1970 were an 8-cent-an-hour cost-of-living adjustment in October 1969 and a 3-percent annual-improvement factor increase in November 1969. These adjustments are not reflected in data for the current survey.

Workers in Michigan, about half of the industry's work force, averaged \$3.83 an hour in April 1969—the same as workers in the rest of the North Central region who made up another three-tenths of the production workers. Averages for workers in the South and West were \$3.73 and \$3.74, respectively. Part of the relatively small variation in regional averages was due to differences in occupational staffing among the regions.

Average hourly earnings ranged from \$3.37 for janitors to \$5.58 for die-sinkers (drop-forge dies), among the occupations selected for separate study. Major and minor assemblers, together about one-fifth of all production workers, averaged \$3.62 and \$3.52 an hour, respectively. Individual earnings for a majority of the workers in nearly all jobs surveyed were within 2 percent of the nation-wide averages for the occupations.

All companies covered by the survey provided paid holidays, 10 or 11 days a year, and paid vacations, as well as health, insurance, retirement, and supplemental unemployment benefits.

Motor vehicle parts

The April 1969 level of earnings for production workers in motor vehicle parts plants (\$3.24 an hour) was 25 percent above the level recorded in the Bureau's April 1963 survey (\$2.59). Similar increases were recorded in the Northeast and North Central region, whereas average earnings rose 31 percent in the South during the 6-year period.

George L. Stelluto is project director for industry and union wage surveys in the Division of Occupational Wage Structures, Bureau of Labor Statistics.

Workers in the North Central region, largest in terms of industry employment, averaged \$3.39 an hour in April 1969, compared with \$3.27 in the Northeast and \$2.39 in the South. As indicated in table 1, earnings levels also varied by industry branch and among four North Central areas studied separately.

Averages for the occupations studied separately ranged from \$2.62 an hour for shipping packers to \$4.29 for maintenance sheet-metal workers. Averages for assemblers, numerically the largest occupation studied, varied by degree of skill and responsibility—\$3.52 for class A, \$3.11 for class B, and \$2.77 for class C. Earnings of individuals in the same occupation and area varied considerably, unlike the motor vehicles industry.

All establishments visited during the survey provided production workers paid holidays, usually 9 or 10 days annually, and paid vacations. Provisions for retirement pension benefits and various types of insurance, for example, life, hospitalization, surgical, and medical, were also widespread in the industry.

The survey of motor vehicles included data for all automotive operations of the four major passenger car manufacturers, including motor vehicle parts operations, with the exception of the truck division of one firm and the steel and glass operations of all companies. The motor vehicle parts survey covered establishments with 50 workers or more and primarily engaged in manufacturing

Table 1. Number and average straight-time hourly earnings of production workers in motor vehicle parts plants, April 1969

| Area and industry branch | Number of . production workers | Average hourly earnings |
|--|-----------------------------------|--|
| United States | 8, 541 | \$3. 24 3. 27 2. 38 3. 39 2. 75 3. 83 3. 44 3. 71 |
| Motor vehicle parts and accessories Automotive stampings Pistons, piston rings, and carburetors Electrical engine parts | 25, 043 | 3. 36 3. 15 2. 83 |

metal parts for motor vehicles. A more comprehensive account of the survey will be presented in a ble bulletin to be issued in a few months.

¹ See L. Earl Lewis and Frederick L. Bauer, "Wages in Motor Vehicle and Parts Plants, April 1963," *Monthly Labor Review*, February 1964, pp. 161–167.

CHARACTERISTICS OF HOUSEHOLD WORKERS

The Social Security Administration obtains information on household workers as a byproduct of the employer reporting system. Data for household workers in 1965 show that about 1.25 million employers reported taxable household wages of \$1.2 billion for 1.4 million workers.

Study of the data reveals significant characteristics of household workers. For instance, 9 out of 10 household workers were women, compared with 4 out of 10 among all wage and salary workers. More than half of the household workers were Negro, and 90 percent of these Negro workers were women. The median age was 52, compared with 37 for all wage and salary workers.

Household workers averaged \$800 in wages annually, but all wage and salary earners averaged \$3,100. Less than 4 percent of the household workers had taxable wages of \$3,000 or more from domestic employment; for more than two-thirds of them, earnings from household employment were under \$1,000. This earnings pattern is undoubtedly influenced by the part-time nature of the work and the absence of minimum wage laws applicable to domestic employment. Four out of 5 household workers had no other type of employment covered by the social security program, and about half of the workers earned fewer than 4 quarters of coverage in domestic work.

Detailed information on the characteristics of household workers may be found in Herbert R. Tacker, "Household Employment under OASDHI, 1951–66," Social Security Bulletin, June 1970, pp. 10–17.

Significant Decisions in Labor Cases



Retirees and union bargaining

A RECENT RULING by an appellate court held that a trade union ceases to represent an employee when he retires and begins to draw benefits under union-negotiated pension provisions. If an employer wishes to modify these benefits, he may do so upon reaching a direct understanding with the retiree. He is not legally obligated to take the matter up with the union, because retired workers are no longer "his employees" within the meaning of the National Labor Relations Act, nor are they members of the bargaining unit to which they belonged as active employees. Retirement "is a complete and final severance of employment."

The ruling on employer-retiree relationship was enunciated in *Pittsburgh Plate Glass Co.*¹ by the U.S. Court of Appeals in Cincinnati. It supersedes a contrary decision of the National Labor Relations Board in this case last year,² when the issue came before the Board for the first time since the enactment of the act in 1935.

In the present situation, the union asked the company to renegotiate the existing agreement so as to provide retired workers with benefits not available under the newly enacted Medicare law. The company rejected the request and challenged the union's right to bargain for retired employees. It then addressed letters to individual retirees, announcing that they could withdraw from the union-negotiated health insurance plan and, instead, receive from the employer a contribution of \$3 a month toward additional Medicare premiums. Some retirees accepted the offer. Asserting the right to bargain over changes in the health insurance plan, the union filed charges with the NLRB.

Upholding the union's position, the Board said that retired workers were "employees" within the meaning of the law; "bargaining about changes in retirement benefits for retired employees is . . . within the contemplation of the statue because of the interest which active employees have in this subject;" and the employer's rejection of the proposal to renegotiate was an unlawful refusal to bargain.

The court of appeals disposed of the Board's conclusions by giving the statutory provisions and past judicial opinions a straight-and-narrow reading. It pointed out that "The statute [section 8(a)(5)] plainly provides that it shall be an unfair labor practice for an employer 'to refuse to bargain collectively with the representatives of his employees. . . .'" (Court's emphasis.) But who were "his employees?"

A Supreme Court statement on this subject indicated the answer: "One aspect of [determining who 'his employees' are] is covered by section 9(b) which provides for the determination of the appropriate bargaining unit." Hence, "his employees" are the members of the bargaining unit. Here the question arose, who was in the bargaining unit?

In this case, the unit was certified as composed of "[a]ll employees of the employer's [business] working [on] hourly rates, including group leaders who work on hourly rates. . . ." Retired employees were not mentioned in this definition. "[T]he Board certified a bargaining unit composed only of presumably active employees," the appellate court said, adding, "In no prior case where the issue was raised did the Board hold that a retiree was in such a unit, or entitled to vote in an election." The opposite was true. The court recalled the Board's own statement from a distant past 5 that—

We have considerable doubt as to whether or not pensioners are employees within the meaning of section 2(3) of the act, since they no longer perform any work for the employers, and have little expectancy of resuming their former employment. In any event, even if pensioners were to be considered employees, we believe that they lack a substantial community of

Prepared by Eugene Skotzko of the Office of Publications, Bureau of Labor Statisites, in consultation with the Office of the Solicitor of Labor.

interest with the employees who are presently in the active service of the employers.

Clearly, the court was puzzled by the Board's reversal of its stand in the present situation.

As already stated, the NLRB had argued that retired employees should be considered as members of the bargaining unit for the purpose of renegotiating their benefits, because the subject "vitally affects" active employees in the bargaining unit in essentially three ways:

First, in the Board's language, "the union and current employees have a legitimate interest in assuring that negotiated retirement benefits are in fact paid and administered in accordance with the terms and intent of their contracts." "We agree," replied the court of appeals; but "the issue in this case is not whether contract benefits can be legally enforced, but whether contract benefits for retirees must be reopened at the request of the union after the employees to whom these benefits are payable have retired."

Second, the Board had said, the active employees have a "selfish as well as compassionate interest" in the adequacy of retired employees' benefits "because of its inextricable relationship to and impact on the wages, hours, and working conditions of those actively employed in the bargaining unit." Again the appeals court agreed, but said, "Leaving aside their altruistic sentiments, what active employees are concerned about are their own retirement benefits. It is not necessary to extend the bargaining obligation to persons already retired in order to insure current employees the right to negotiate through their bargaining representative their own retirement benefits to take effect after their retirement."

Third, the changes in the retirees' berefits should be subject to mandatory bargaining, the NLRB had said, because they "affect the availability of employer funds . . . for active employees." "This [effect on the availability of funds] is of course true," replied the appellate court; however, "does this mean that all employer salaries, including those to supervisory and managerial personnel, are mandatory subjects which must be collectively bargained with the union? Moreover, all employer expenditures, from dividends to capital expenditures, affect, however obliquely, the availability of employer funds for active unit employees. Surely the Board does not contend that these are mandatory subjects of bargaining."

The contrast in basic attitude of the two judicial

bodies to the issue of union representation for retired workers emerges from the following statements in their respective opinions in this case:

NLRB:

... The critical question is whether the [retirement] benefit is founded on employment—past or present. The health insurance plan here was negotiated for active employees to be enjoyed upon retirement, and its terms relate back to their active employment. For retired employees, the benefits paid to them in retirement are part of the return of their investment of a lifetime of labor. In some respects, an employee's retirement from active employment and his separation from the daily association with fellow workers is the very time when he is most vulnerable economically and most needs representation. This is the point at which his economic alternatives are most limited because of his age. It would virtually stand the act on its head to hold that his employer is free to deal with him unilaterally and that the union may not represent him with respect to changes in the very plan which it negotiated for him.

Court of appeals:

... The purpose of Federal labor legislation is to reconcile and, insofar as possible, equalize the power of competing economic forces within the society in order to encourage the making of voluntary agreements governing labor-management relations and prevent industrial strife. Its purpose is not artificially to create or manufacture new economic forces. Thus, the act 'leaves the adjustment of industrial relations to the free play of economic forces but seeks to assure that the play of those forces be truly free.' 6

Retired employees have no economic or bargaining power within this system. Their financial security derives from past economic power pragmatically and prudently exercised. Once retirement benefits have been bargained for, earned, and become payable, the employer may not recant on his contractual obligation to pay them. Nor may retirees demand that they be increased. Changing economic facts pertaining to the employer's business or the general economy occurring after the employee retires cannot enhance or depreciate the value of his services or justify periodic postretirement negotiations. The employer cannot retroactively increase his prices to compensate for these increased benefits, or fund expenses. . . .

Moreover, retirees given the bargaining power would lose their economic security, for just as surely as an employer may increase benefits, in bargaining, he may take them away. Even if retirees were given the statutory power to periodically renegotiate pension benefits previously earned, the union would be an inappropriate bargaining vehicle. It is not at all unlikely that a union negotiator, presented with the opportunity to advance employees' wages at the expense of retirees' pensions, would choose to favor his constituents at the expense of the honorary members, who retain no voting power.

Replaced strikers as 'employees'

Permanently replaced economic strikers remain "employees" of the struck employer and members of the bargaining unit for as long as they "retain an expectation of future employment" by the same employer or "until they have surrendered their interest"—most likely by finding another job. In thus ruling (in *Pioneer Flour Mills* 7), a Federal court of appeals upheld the NLRB's new policy (adopted in deciding this case) of including such permanently replaced strikers in the bargaining unit when the union's majority status is challenged.

Following a strike, the employer handled the matter of reemployment of the displaced strikers in a manner later found by the Board to be unlawful. For example, when some of the replacements departed, the company did not rehire displaced strikers to fill the vacancies but hired new workers—an act of discrimination under section 8(a)(3) and (1) of the National Labor Relations Act. Most important, the employer refused to deal with the union, claiming it had lost the majority status due to replacements.

When the dispute reached the Board, the employer said it had a good faith doubt that the union continued to represent a majority of its employees. The doubt, the company said, was based on the assumption, consistent with the Board's own policy, that displaced economic strikers are not to be counted in the test of the union's majority status. In the present case, however, the Board reversed its policy, and it was within its power under the law to do so.

A 1959 amendment to the act (section 9(c)(3)) clearly gives the permanently replaced economic strikers the right to vote in elections conducted within 12 months of the beginning of the strike, but under the Board's regulations that are "consistent with the purpose and provisions of this act." In implementing this provision, the Board continued—until the present case—the old policy of excluding such replaced strikers from the bargaining unit in weighing the employer's good faith doubt that a union has a majority position.

The company countered the Board's reversal of policy with a contention that, first, the old policy had the effect of a "rule" and, as such, could be changed only in a manner prescribed by the Administrative Procedure Act; second, the reversal of the policy could not retroactively affect

the company's refusal to bargain with the union after the strike, since that refusal was in good faith under the law as it existed—or as the company understood it to exist—at that time.

The court disagreed with these arguments. Regarding the Board's rulemaking power, the court cited the opinion of another court of appeals 9 that,

[W]hen an administrative agency makes law as a legislature would, it must follow the rulemaking procedure . . . and when it makes law as a court would, it must follow the adjudicative procedure . . . [W]hether to use one method of lawmaking or the other is a question of judgment, not of power.

As for the retroactivity of the change in the Board's policy, the court cited the Supreme Court's statement in Chenery Corp. 10 that "such retroactivity must be balanced against the mischief of producing a result which is contrary to a statutory design or to legal and equitable principles." The statutory design, stated in section 9(c)(3) of the act as congressional desire that permanently replaced economic strikers be permitted to vote in elections, has been carried out by the Board in various instances. It would now be a "mischief" not to apply-even though retroactively—the principle of participation in elections to the replaced strikers in the present case: "logic requires that such employees also be included in the [bargaining] unit when determining whether the union continues to enjoy majority status."

In support of its reasoning, the court pointed out that section 2(3) of the act defines the term "employee" as including any person "whose work ceased as a consequence of, or in connection with, any current labor dispute . . . and who has not obtained any other regular and substantially equivalent employment . . ."—a provision that has furnished ground for major judicial rulings upholding the replaced strikers' rights.¹¹

The appellate court concluded, "[W]hether or not the company in good faith relied on earlier Board decisions, the Board drew the proper balance, and its bargaining order should be enforced." The retroactive application of the new policy and the order to the company to bargain, the court said, will not "unduly burden" the company, yet they will serve the purpose of restoring the status quo ante that was disturbed by the company's violations.

-FOOTNOTES-

- 1 Pittsburgh Plate Glass Co. v. NLRB (C.A. 6, No. 19875, June 10, 1970).
- ² Pittsburgh Plate Glass Co. and Local 1, Allied Chemical Workers, 177 NLRB No. 114, July 9, 1969; see Monthly Labor Review, October 1969, pp. 56-58.
- ³ The NLRA's definition of "employee" is rather broad. Section 2(3) reads in part: "When used in this act . . . (3) The term 'employee' shall include any employee, and shall not be limited to the employees of a particular employer, unless the act explicitly states otherwise. . . ." The court here took note of this broad language and pointed out that it may apply to persons who have never been employees of a particular employer (such as the employees of a newly acquired enterprise) or who may become employees in the future (such as job applicants). But, it pointed out, for bargaining purposes the law (section 8(a)(5)) "explicitly states otherwise." In view of the Board's past distinction in this matter, the court was surprised at the NLRB's change of attitude in this case. It cited as an example the Board's opinion (in Page Aircraft Maintenance, Inc., 123 NLRB 159, 163 (1959)) that "antidiscrimination provisions refer to 'employees' generally, whereas unlike these provisions, section 8(a)(5) contains specific language requiring an employer to bargain for 'his' employees." (Board's language and emphasis.)
 - 4 Phelps Dodge Corp. v. NLRB, 313 U.S. 192 (1941).
 - ⁵ In Public Service Corporation of New Jersey, 72 NLRB

229-30 (1947).

- ⁹ U.S. Supreme Court in *Phelps Dodge Corp.* v. *NLRB*, 313 U.S. 177, 183 (1941).
- ⁷ C. H. Guenther & Son, Inc. (Pioneer Flour Mills) v. NLRB (C.A. 5, No. 27495, June 1, 1970).
- ⁸ Section 9(c)(3) of the NLRA provides that "Employees engaged in an economic strike who are not entitled to reinstatement shall be eligible to vote under such regulations as the Board shall find are consistent with the purpose and provisions of the act in any election conducted within 12 months after the commencement of the strike."
- ⁹ The opinion of Judge Friendly in *NLRB* v. A. P. W. Products Co., 316 F.2d S99, 905 (C.A. 2, 1963). See also the landmark decision of the Supreme Court on the issue of rulemaking, in *NLRB* v. Wyman-Gordon (U.S. Sup. Ct., April 23, 1969), in Monthly Labor Review, July 1969, pp. 73–75.
- 10 Securities and Exchange Commission v. Chenery, 332 U.S. 194.
- ¹¹ Cited were: NLRB v. Fleetwood Trailer Co., 389 U.S. 375 (1967)—see Monthly Labor Review, January 1967, p. 61, for the appellate decision (C.A. 9) in this case; Laidlaw Corp. v. NLRB, 414 F.2d 99 (C.A. 7—1969); and American Machinery Corp. v. NLRB (C.A. 5, No. 27283, April 15, 1970).

Employment outlook for appliance servicemen

Employment of appliance servicemen is expected to grow rapidly through the 1970's. In addition to many thousands of job opportunities resulting from employment growth, about 4,200 job opportunities will arise annually to replace experienced servicemen who retire or die. Transfers of servicemen to other kinds of work will provide additional job openings.

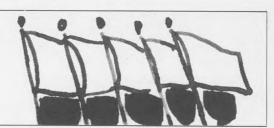
The number of household appliances in use is expected to increase rapidly during the 1970's. Factors that will contribute to this growth include increasing population and family formations and rising level of personal disposable income. The demand for appliances also will be stimulated by the introduction of new appliances, some of which may be cordless like many automatic toothbrushes now in use, and by the improved styling and design of appliances to

make them more attractive and easier to operate. In addition, more widespread use of appliances such as electric can openers, waste disposers, home clothes dryers, dishwashers, and knife sharpeners is expected.

Employment of appliance servicemen is not expected to increase as rapidly as the number of appliances in use. Although the automatic operation of some types of appliances has tended to make them more complicated, manufacturers are designing appliances with more durable components, and appliances that can be taken apart and repaired more easily. In addition, employers are increasing the efficiency of servicemen through more effective training.

—Occupational Outlook Handbook, 1970-71 edition (BLS Bulletin 1650, 1970).

Foreign Labor Briefs



Netherlands

A widening conflict between the Government and trade unions over wages and wage policy has disrupted the peaceful and cooperative industrial relations system that had existed since the end of World War II. The immediate issue concerns the passage in February 1970 of Government-sponsored legislation authorizing the Minister of Social Affairs to declare invalid individual contracts considered detrimental to the economy. The unions strongly oppose this provision, although they approve of a clause giving the Government authority in an economic emergency to extend the life of all collective agreements for a period of up to 6 months.

When the law was enacted, two of the three labor federations, the Netherlands Federation of Trade Unions and the Netherlands Catholic Workers' Federation, were so incensed that they boycotted the talks on national wages in the Social and Economic Council, a highly influential group composed of management, labor, and independent experts which advises the Government. The Council reports twice yearly on the economic situation and recommends general policy guidelines to the Government, which usually adopts them. The two federations also refused to participate in another advisory group, the Labor Foundation, which concentrates on such matters as hours of work, pensions, holidays, equal pay, and broad lines of wage policy. The third federation, the National Federation of Christian Workers. decided to continue its participation in the two advisory bodies, although its leaders declared they had "insurmountable objections" to the bill.

Ironically, the new law is based on an agreement reached within the Social and Economic Council in 1967. This agreement, which became effective on January 1, 1968, liberalized wage policy and permitted contracts to be made without predetermined guidelines. However, the Government could reject contracts which it considered detrimental to the economy. Labor became disenchanted with the agreement, feeling that the Government used its authority too frequently. The Government, on the other hand, wanted statutory authority over wages similar to that a 1969 law gives it over prices. The new law empowers the Ministry of Social Affairs to declare collective agreements invalid if they are not in the "socioeconomic" interest of the nation. The unions fear that the law threatens free collective bargaining. (Concern over inflation is widespread. The 7.5-percent increase in the cost of living index in 1969 was the highest since 1951, when the index rose by 12 percent.)

Union leaders insist that the legislation of February 1970 represents a hollow victory for the Government, claiming that without their cooperation in the Council and the Labor Foundation the Government's wage policy cannot succeed. Some commentators say that the Government may have to take a more active role in individual contract negotiations.

Employers, meanwhile, prepare for greater union militancy. Last February, the Netherland Employers' Federation and the Confessional Employers' Federation established a joint strike fund to assist employers who may be faced with strikes if they reject "unreasonable union demands." Under the plan, struck employers would receive a sum equal to the total amount of wages they normally would have paid to workers during the period of strike. This is the first time that a strike fund has been set up in the Netherlands.

Prepared in the Division of Foreign Labor Conditions, Bureau of Labor Statistics, on the basis of material available in early July.

Hong Kong

New labor regulations have been introduced by the Government and more are anticipated. Effective April 1, 1970, all manual workers, regardless of how much they earn, and nonmanual workers earning up to \$248 (1,500 Hong Kong dollars) monthly, became entitled to 4 unpaid rest days a month. (Under previous legislation only women and young persons employed in industry received 1 free day in 7.) As an apparent compensation to big business, the Department of Labor lifted its prohibition against night work (11 p.m. to 6 a.m.) of women over 18 employed in industrial establishments. This experiment will last until June 1971 and will be limited to industrial plants employing over 500 workers on an 8-hour shift, including at least 100 women who participate in night-shift work. Previously, at least some U.S. electronic firms in Hong Kong had found a night shift impractical because of the ban on women's night work.

Another law recently enacted gives workers' wages a higher priority in the distribution of assets of bankrupt companies. Only taxes continue to have the same priority as workers' backpay. The Governor has the power to waive even the tax collection in order to protect the workers, and the maximum amount of wages in arrear a worker may claim has been raised to \$974 (HK\$6,000) from \$487 (HK\$3,000).

Argentina

Early in June, the military junta Government appointed Bernardo Bas, a labor lawyer, Governor of the Province of Córdoba. Bas has been an adviser to a number of Córdoba unions and was Minister of Labor in 1962–63.

In the current labor situation in the province, Bas' appointment was not without political significance. The Córdoba Regional General Confederation of Labor supported a strike by the Union of Mechanics and Related Automotive Transport Workers over a 1-month period beginning June 8. The mechanics protested the discharge of 900 auto workers in retaliation for the seizure of automotive plants by workers on June 2. These strikes continued until union and management reached a mutual agreement to submit to government arbitration.

The appointment of Bas was apparently a wise

one for, although economic conditions worsened with large financial losses by industry and wage and salary workers in Córdoba, the governor allowed the worst strike since 1968 to work itself out.

Peru

A recent decree of the Military Government gave domestic workers social security, a 6-day workweek, guaranteed holidays, and dismissal pay—conditions of work and benefits they did not have in the past. As a rule, servants had completely depended upon the generosity and unilateral action of the employer: he treated them as members of his family while making them work hard; he gave them about half a day's leave per week, but no holidays or dismissal benefits; and he paid their medical expenses. They were not covered by social security.

Another action of the Government induced the Cerro de Pasco Corp., a leading mining concern in the country, to sign an agreement with 14 mineworkers' unions providing for additional benefits and higher pay. The agreement, reached after 10 months of negotiating, provides for pay based on the altitude at which the work is performed, increased overtime pay, higher benefits for work-related sickness and accidents, company payment of expenses of union negotiators during all stages of collective bargaining, and two additional paid holidays per year.

Both of these improvements, achieved as a result of the Government's action, in effect favored the Communist-oriented General Confederation of Peruvian Workers, which had demanded government intervention in these situations. The favor appeared to be at the expense of the Confederation of Workers of Peru, an affiliate of the strongly anti-Communist Popular American Revolutionary Alliance.

Syria

Some industrial establishments, particularly in the oil sector, faced with a surplus of manpower have been evading government regulations prohibiting dismissal of workers without prior approval of the Ministry of Labor and Social Affairs. They have been paying their workers full wages but not allowing them to report to work. In so doing, employers have avoided any confrontation with the workers which would lead to protest and reprisals. Many workers have been happy to get full pay for no work, and have been able to take simultaneous employment elsewhere.

The Ministry of Labor and Social Affairs responded to this practice of management by issuing a legislative decree that bans this practice. The decree forbids employers to prevent their employees from actually working and, more specifically, forbids them to induce the workers' idleness by means of paid leave granted under circumstances not stipulated in the existing labor legislation.

France

Inflation was a major factor in wage developments during 1969 and early 1970. Continuous rise in prices and a corollary rise in wages fed the inflationary trend and caused an imbalance in the country's foreign trade.

Preliminary wage estimates put the average wage increase in private industry and trade in 1969 at 8.4 percent; in the public sector, the increases ranged 5 to 6 percent. The Government also agreed to a 1-percent wage adjustment effective January 1, 1970, to offset the 6-percent increase in retail prices in 1969.

To correct the economic imbalance, the Government devalued the franc by 11.1 percent in August 1969 and adopted a stabilization program, to last to the end of 1970, designed to reduce consumption and investment and to eliminate the foreign trade deficit. Although the Government's restrictive policy had a steadying effect on the economy, the inflationary pressures have not disappeared entirely. The latest figures avai able indicate that prices in 1970 will continue their sharp upward trend: in January 1970, consumer prices rose by 0.8 percent, and forecasts indicated little relief.

Inflation has been regarded with increasing concern by the trade unions and the Government. Fear that labor would bear the major burden of the economic stabilization program led to a number of wildcat strikes in the fall of 1969,¹ and the Government has since sought to come to terms with labor and avoid serious stoppages in 1970.

At the end of the first quarter of 1970, the

Government's wage policy appeared to have satisfied major sections of labor and to have succeeded in lessening the incidence of strikes. Contracts have been signed with unions representing 600,000 public sector workers in the electricity and gas industries, the railways, and coal mining. The basic pattern is an increase of 6 to 7 percent, including bonuses and cost of living guarantees to insure a specific increase in purchasing power. These agreements, called contrats de progres, link wage adjustments to a formula based on the profitability of the enterprises, overall domestic production, and price developments. They cannot be broken by either side without notice. The Government has also given 500,000 civil servants pay raises totaling nearly 6 percent effective in April and October, with a provision for a possible cost of living adjustment in January 1971, thus avoiding a threatened strike. The civil service unions successfully resisted signing a formal contract with the Government.

The small part of 1970 private sector negotiations concluded by the end of May provided increases averaging 10 percent. In the north of France, for example, 35,000 steelworkers concluded an agreement, effective January 30, 1970, calling for increases of 8 percent for the lowest paid manual workers and 11 percent for highly skilled workers.

Labor relations have undoubtedly improved with the conclusion of these 1970 agreements, but the situation remains tense. The Communistled Confederation Generale du Travail (CGT), the largest labor organization in France, has refused to sign any of the contrats de progrès and has called for strikes to bring about agreements that would tie wages directly to price increases and living costs. The CGT is alone in this demand. Other federations have so far refused to join it for any concerted action, but its future isolation within the labor movement is uncertain.

United Kingdom

An experimental factory system has been introduced at the Coldingly Prison in Surrey, England, intended, as Home Secretary James Callaghan said, to make the inmates feel "that they have a job worth doing and are not just rotting away." An additional goal is to make profits to be used for modernization of other prisons. If Coldingly shows

a profit, at least 12 prisons are to be equipped with similar factory systems within the next 5 years.

Three industrial workshops have been equipped at Coldingly: a laundry, which provides low-cost service to local hospitals; an engineering and machine shop, to make office equipment for the Government; and a sign shop, which will supply local councils and the Ministry of Transport with road signs.

Inmates participating in the program can be hired and dismissed, as well as promoted or demoted. Their wages, however, are only about \$200 a year, compared with the \$4,000 paid for similar work outside. The three shops now employ over 100 men, though eventually about 300 men are expected to be employed there on 40-hour weeks while serving their prison sentences.

The Trades Union Congress and the employers' Confederation of British Industry have agreed to cooperate with this program. Major unions for the building trades, transport, engineering and foundry workers have signed an agreement to accept participants in this program as card-carrying members after their release from Coldingly.

West Germany

The Federation of Trade Unions (Deutscher Gewerkschaftsbund—DGB), in close cooperation with the Adult Education Association, has initiated an education program designed to help workers expand their political awareness and to equip them for the exercise of their political rights and responsibilities. Known as the "Work and Life" program, it consists of week-long courses, evening and weekend seminars, and study trips and excursions. The program is carried out by approximately 10 regional and 250 local groups, with a central institute in Düsseldorf coordinating their activities.

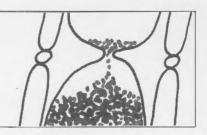
The basic political education course, which lasts a week and is the core of the Work and Life program, includes a broad treatment of politics, history, and economics, but emphasizes elementary techniques of analytical thought to help participants develop political judgment. The basic course usually is followed by short, concentrated courses, each keyed to a definite aspect of political life. The course work is supplemented by study trips and excursions to Eastern and Western European countries and to Israel. The Work and Life program also provides evening courses at work sites, usually lasting 5 days at a time, including discussions of broad political or economic issues or matters of concern to particular industries.

In addition to coordinating the activities of local and regional work-in communities, the central institute in Düsseldorf recruits and trains instructors for the program. Instructors recruited from the political parties, schools, universities, churches, and various associations supplement those provided by the trade unions and the Adult Education Association. One program, which receives financial support from the Federal Government, trains tutors who specialize in political education courses for young people. Training of Work and Life instructors is closely coordinated with the training activities of other national organizations engaged in political education.

An important function of the Work and Life organizations is obtaining paid leave of absence for workers wishing to avail themselves of the political education offered. A number of collective agreements already provide for such leave, but the program's goal is a Federal law that would make paid leave for educational purposes available to all workers as a matter of right.

¹ See Monthly Labor Review, December 1969, p. 63.

Major Agreements Expiring Next Month



This list of collective bargaining agreements expiring in October is based on contracts on file in the Bureau's Office of Wages and Industrial Relations. The list includes agreements covering 1,000 workers or more in all industries except government.

| Company and location | Industry | Union ¹ | Number of workers 3,500 3,000 1,800 | |
|---|---|--|---|--|
| Belt Association, Inc. (New York, N.Y.) Borg-Warner Corp., Warner Gear Division (Muncie, Ind.) Borg-Warner Corp., York Division—Engineering Department (York, Pa.) | Apparel | Ladies' Garment Workers Auto Workers (Ind.). Ice Machinery Independent Employees' Association (Ind.). | | |
| Brown Shoe Co. (Interstate) Brown Shoe Co. (Interstate) Burroughs Corp. (Detroit and Plymouth, Mich.). | Leather Leather Machinery | United Shoe Workers | 5, 050 7, 100 4, 500 | |
| Car-Wash-Service Station Agreement ² (Chicago III.). Caterpillar Tractor Co. (Interstate). Cessna Aircraft Co. (Hutchinson, Kans.). Chain and Independent Grocery Stores—Retail Meat Markets (Houston, Tex.). Chandler Evans, Inc., and Pratt & Whitney, Inc. (West Hartford, Conn.) Chicago Bakery Employers Labor Council covering 4 companies (Chicago, III.). Chrysler Corp., Airtemp Division (Dayton, Ohio). Collins Radio Co. (Cedar Rapids, Iowa). | Services | Teamsters (Ind.) Auto Workers (Ind.) Machinists Meat Cutters Auto Workers (Ind.) Teamsters (Ind.) | 1, 500 26, 300 1, 200 1, 700 2, 000 1, 200 4, 100 7, 000 | |
| Dana Corp., Parish Divisions (Reading, Pa.) | Transportation equipmentUtilities | Steelworkers | 2, 850 2, 150 | |
| Eaton Yale and Towne, Inc., Eaton Axle Division (Cleveland, Ohio) | Transportation equipment | Mechanics Educational Society | 1,750 | |
| First National Stores, Inc. (New York and New Jersey) Fischer Packing Co., and Klarer of Kentucky, Inc. (Louisville, Ky.) Food Employers Council, Inc. (California) | Retail trade Food products Food products | Meat Cutters Meat Cutters Meat Cutters | 1,400 1,450 3,000 | |
| Gasoline Service Station Employers of Metropolitan Chicago area | Retail trade Transportation equipment Communications | Teamsters (Ind.) | 6, 000 1, 000 1, 000 | |
| Jeffboat, Inc. (Jeffersonville, Ind) | Transportation equipment | Marine and Shipbuilding Workers | 1,000 | |
| Kaiser Foundation Hospitals and 2 others (California) Kroger Co., Charleston Division (West Virginia, Kentucky, and Ohio) | Hospitals Retail trade | Service Employees | 4, 500 1, 100 | |
| Ladies Shoe Industry ² (New York, N.Y.) League of Off-Broadway Theatres and Producers (New York, N.Y.) Leeds & Northrup Co. (Pennsylvania) | Leather Amusements Instruments | | 4, 000 1, 500 2, 250 | |
| Mack Trucks, Inc., Shop Agreement (Interstate) Massey-Ferguson, Inc., Master Agreement (Interstate) Meat Markets, Self-Service Contract (Chicago and Cook County, III.) Meat Markets, Service Contract (Chicago and Cook County, III.) Mountain States Employers Council, Inc., Denver Retail Grocers (Denver) | Transportation equipment Machinery Retail trade Retail trade Retail trade | Auto Workers (Ind.) | 6, 350 1, 800 2, 500 2, 000 3, 000 | |
| National Electrical Contractors Association, Inc., Western Pennsylvania Chapter (Pennsylvania). National Twist Drill & Tool Co. (Rochester, Mich.) New York City Bakery Employers Labor Council covering 8 cos. (N.YN.J.) | Construction Machinery Food products | Electrical Workers (IBEW) | 1,500 1,500 1,350 | |
| New York City Bakery Employers Labor Council covering 8 cos. (N.YN.J.)_ Office Buildings ² (Pittsburgh, Pa.) Oil, Petroleum, Chemicals, and Liquid Products Drivers Agreement (Inter- | Food products Services Wholesale trade | Bakery Workers | 1, 350 1, 800 3, 500 | |
| state). Otis Elevator Co., Production and Maintenance Agreement (Yonkers, N.Y.) | Machinery | Electrical Workers (IUE) | 2,000 | |
| Petroleum Labor Group, Wholesale Gas and Oil (Minneapolis and St. Paul) PPG Industries, Pittsburgh Plate Glass Co., Chemical Division (Barberton, Ohio). | Wholesale trade Chemicals | Teamsters (Ind.)Allied Chemical and Alkali Workers of | 1,000 1,500 | |
| Printing Industries of Metropolitan New York, Inc., Printers League Section Printing Industries of Northern California (California) | Printing and Publishing Printing and Publishing | America (Ind.). Typographical Union Lithographers and Photoengravers | 6, 700 2, 200 | |
| Simmons Co., Master Multi-Plant (Interstate) Southeastern Employers ² (Interstate) Sterling Faucet Cos., and 3 other cos. (Morgantown and Reedsville, W. Va.)_ Sylvania Electric Products, Inc., (Warren, Pa.) | Furniture Construction Fabricated metal products Rubber | Upholsterers Boilermakers District 50, Allied and Technical (Ind.) Machinists | 7, 750 3, 700 1, 000 1, 100 | |
| Timex Corp. (Oakville and Middlebury, Conn.)_ TRW, Inc., Tapco Division (Ohio) TRW, Inc., Van Dyke Works, Thompson Products, Michigan Division (Warren) | Instruments | Directly Affiliated Local Union Aircraft Workers Alliance, Inc. (Ind.) Auto Workers (Ind.). | 3, 000 6, 900 1, 150 | |
| Union Carbide Corp., Nuclear Division, Gaseous Diffusion Plant (Oakridge, Tenn.). | Chemicals | Oil, Chemical and Atomic Workers | 1,000 | |
| United Parcel Service (Los Angeles, Calif.) | Trucking | Teamsters (Ind.) | 1,600 | |
| Weston Instruments, Inc., Weston Instruments Division (Newark, N.J.) Whirlpool Corp. (Evansville, Ind.) White Motor Corp., Diamond Reo Truck Division (Lansing, Mich.) | Electrical products Machinery Transportation equipment | Weston Employees' Union (Ind.) Electrical Workers (IUE) Auto Workers (Ind.) | 1, 200 6, 800 1, 300 | |

¹ Union affiliated with AFL-CIO except where noted as Independent (Ind.).

² Industry area (group of companies signing same contract).

Developments in Industrial Relations



Transportation

The protracted bargaining in the trucking industry ended on July 3, when 50,000 workers in the Chicago area approved a 36-month contract providing for \$1.65 in wage increases, plus benefit improvements. Within hours, Trucking Employers, Inc. and the Teamsters reopened the 39-month "national" contract they had negotiated on April 2 and raised the wage portion of their package to \$1.85, from \$1.10.3

The Chicago settlement, which ended a 3-month strike-lockout, provided the following increases:

| $Effective\ date$ | Wages | Company contribu- tion to pension or health and welfare fund |
|-------------------|--------|---|
| April 1, 1970 | \$0.35 | \$1 |
| October 1, 1970 | . 30 | 1 |
| April 1, 1971 | . 25 | 2 |
| October 1, 1971 | . 25 | 2 |
| April 1, 1972 | . 25 | 2 |
| October 1 1972 | . 25 | 2 |

Other terms included an additional holiday and improved vacations.

The renegotiated national contract, which covered 450,000 drivers and related employees, called for increases in hourly wages and over-theroad mileage, as follows:

| Effective date | Wages | Mileage |
|-----------------|--------|---------|
| April 1, 1970 | \$0.35 | \$0, 01 |
| July 1, 1970 | . 15 | |
| January 1, 1971 | . 40 | |
| July 1, 1971 | | |
| January 1, 1972 | . 25 | |
| July 1, 1972 | . 25 | . 0075 |

Contributions to both pension and health and welfare funds were hiked by \$1 a week to each fund on April 1, 1970, January 1, 1971, January 1, 1972, and January 1, 1973. Other terms included

an additional holiday and improved vacations.

Both agreements provided for revised escalator clauses, with a 16-cent maximum possible increase over the term in the national contract and 12-cent maximum in the Chicago pact.

A "selective strike" by 18,000 members of the 260,000-member United Transportation Union (UTU) against three railroads 4 ended on July 7, when President Nixon ordered the strike halted for 60 days. Acting under provisions of the Railway Labor Act, the President appointed an emergency board 5 to investigate the 11-year-old dispute over the need for firemen on diesel locomotives and to report to him in 30 days. The strike by firemen, brakemen, switchmen, and conductors reflected the union's attempt to restore some 18,000 firemen's jobs which were eliminated as a result of a November 1963 arbitration panel's ruling that 90 percent of the diesel locomotive firemen's jobs in freight and yard service were unnecessary and could eventually be eliminated. The panel's ruling was effective until 1966. Since then, the rail unions have attempted to restore the firemen's jobs.

On December 1, 1969, both sides in the dispute agreed to continue talks with the help of a special mediator, Frederick R. Livingston, thus averting a walkout by rail unions. The talks broke down on June 11, 1970, over whether the use of radios by ground crews should be negotiated separately or along with the manning dispute. The union asserted that the use of radios "was not part of the original dispute" and should be dealt with separately. UTU President Charles Luna stated that the cause of the strike was "a simple failure of the railroads to bargain in good faith to settle the firemen issue with us." The union argues that firemen are needed on diesel locomotives as a safety measure; the carriers contend that having firemen aboard a diesel engine amounts to "featherbedding."

Prepared by Leon Bornstein and other members of the staff of the Division of Trends in Employee Compensation, Bureau of Labor Statistics, and based on information from secondary sources available in July.

La Huelga

The long and bitter strike by the United Farm Workers Organizing Committee against table grape growers neared completion on July 29, when the union signed an agreement on initial contracts with 26 grape growers (representing 35 percent of the industry) in the San Joaquin Valley. The settlement, signed in Delano, Calif., meant that 65 percent of the grape growers are now unionized. (The union had achieved a breakthrough with table grape growers in April 1970, when agreements were reached with five growers in the Coachella Valley.6) The remaining table grape growers, located primarily in the Fresno, Calif., area, were expected to sign contracts shortly with the union. In that event, the historic 5-year strike, coupled with a 3-year nationwide boycott of table grapes, would be over.

Cesar Chavez, who led the strikers and organized the boycott, signed the agreement, which called for a wage of \$1.80 an hour plus 20 cents for each box picked, rising to \$1.95 an hour in 1971 and

Earnings index

The Bureau's index of manufacturing production workers average hourly earnings (excluding overtime premium pay and the effects of interindustry employment shifts) rose 0.7 in April, to 155.1. Data for prior periods are shown below.

| 1969 | Index | 1970 Index | | |
|-------------------|--------|-------------------|--|--|
| (1957 - 59 = 100) | | (1957 - 59 = 100) | | |
| April | 146. 0 | January 152. 9 | | |
| May | 146.6 | February 153. 4 | | |
| June | 146. 9 | March 154. 4 | | |
| July | 147. 8 | April 155. 1 | | |
| August | 148. 4 | | | |
| September | 149. 5 | | | |
| October | 150. 2 | | | |
| November | 151. 0 | | | |
| December | 152. 0 | | | |

Monthly data from 1947-68 and data for selected periods from 1939 to 1947 are contained in Summary of Manufacturing Production Workers Earnings Series, 1939-68 (BLS Bulletin 1616, 1969).

1969_____ 147. 7

\$2.05 an hour in 1972. (Prior to the strike, workers received \$1.10 an hour, rising up to \$1.65 an hour in recent years.) Growers will also contribute 10 cents an hour to the union's health plan and 2 cents for each box to an economic development project.

Under the agreement, jobs will be assigned through a union hiring hall. Formal grievance procedures will be instituted, and the agreement prohibits strikes. A joint union-grower committee will regulate the use of dangerous pesticides.

Agreements

In New York City, 25,000 nonprofessional employees of 33 private hospitals were affected by a July 1 settlement between the League of Voluntary Hospitals and Homes and Local 1199 of the Retail, Wholesale and Department Store Union. The 2-year pact provided for an immediate wage increase of \$18 a week or 15 percent, whichever is higher, and \$12 or 10 percent in 1971. There was also a provision for cost-of-living increases equal to any rise in the Consumer Price Index in excess of 6 percent a year. Prior to the settlement, the minimum rate was \$100 a week and the average was \$112 for service workers and \$135 for licensed practical nurses and clerical, technical, and social workers. Other terms included adoption of a twelfth paid holiday (the birthday of Dr. Martin Luther King, Jr.), 4 weeks of vacation after 8 instead of 10 years of service, and adoption of dental and prescription drug plans financed by a 2-percent (of gross payroll) increase in the hospitals' welfare fund payment.

Twenty thousand announcers, newsmen, correspondents, and other employees were covered by a June settlement between the American Federation of Television and Radio Artists (AFTRA) and the NBC, CBS, and ABC networks. Terms of the 3-year pact included a \$60-a-week total increase in newsmen's base pay (to \$410). The networks' pension and welfare contribution was increased to 6.5 percent of employees compensation, from 5 percent. The networks also agreed to begin paying the employees for the re-use in foreign countries of commercials made in the United States.

International Paper Co. and three unions reached agreement in mid-June on a 3-year

contract for 12,000 employees of the firm's Southern Kraft Division. The contract provided for a 25-cent wage increase retroactive to the June 1 termination date of the previous contract and for 6.25-percent increases in June of both 1971 and 1972. Other provisions included a ninth paid holiday, company assumption of the employees' pension contribution (4.5 percent of annual earnings in excess of \$3,000), and improved sick pay and insurance. The unions were the United Papermakers and Paperworkers, the Pulp, Sulphite and Paper Mill Workers, and the Electrical Workers (IBEW).

A 2½-month strike at the Allen-Bradley Co. in Milwaukee, Wis., ended on June 22, when members of the Electrical Workers union (UE) ratified a 33-month contract. The 5,200 workers received an immediate 26-cent wage increase, 16 cents on May 2, 1971, 16 cents on July 9, 1972, and cost-of-living adjustments of up to 7 cents in October of both 1971 and 1972. Benefit changes included a tenth paid holiday, an improved vacation schedule—ranging from 1 week after 1 year of service to 4 weeks after 15 years, and an additional day for each year in excess of 24—and improved pension and insurance. The company agreed to a dues checkoff system and to rehire 30 workers fired during the walkout.

Laid-off workers will continue to accrue benefit credits for up to 3 years under an agreement between TRW, Inc., of Cleveland, Ohio, and the Aircraft Workers Alliance, which represents 5,500 workers. As a result, laid-off employees recalled to work within 3 years will receive vacations, pensions, and Old Guard Bonuses (a lump-sum payment of up to \$1,500, paid after 25 years of service), computed as if their service had not been interrupted. Under the previous provision, up to 3 years of time in layoff status was creditable, but only for job bidding, recalls, shift preferences, and "bumping" in the event of a subsequent layoff. The company extended the new benefit protection to nonunion salaried employees.

About 3,000 employees of Brunswick Corporation's Kiekhaefer-Mercury Division (outboard motors) in Fond du Lac, Cedarburg, and Oshkosh, Wis., were covered by 2-year contracts negotiated by the Machinists. Terms of the pacts, ratified June 20, included a 30-cent-an-hour immediate

wage increase, 25 cents in June 1971, an additional paid holiday, increased company funding of the pension plan, and company assumption of the cost of dependents' insurance coverage.

Kodak

About 38,000 employees of the Eastman Kodak Co., including 34,000 in Rochester, N.Y., were given a 7.5-percent wage increase on August 10, as a result of a decision by the firm's management. The increase, which was announced in mid-July, applied to all hourly and some salaried employees. In July 1969, the company granted a 5.5-percent wage increase.

Forgoing increases

About 450 workers at the Aluminum Company of America's Wear-Ever subsidiary cookware plant in Chillicothe, Ohio, have voted to forgo the third-year wage-and-benefit increases due them under their contract in order to keep the plant operating. A final vote was taken on June 23, after Alcoa had begun phasing out the operation. A company spokesman said that the shutdown was started because wages and benefits ". . . were running at least \$1 an hour more than the competing cookware industry." The gains the workers gave up, which were negotiated for them in 1968 by the Aluminum Workers International Union, consisted of a June 1 wage increase averaging 13 cents an hour, an increase in night shift premiums, another paid holiday, and improvements in SUB and medical insurance.

In a similar development, Rubber Workers at Uniroyal, Inc.'s Naugatuck, Conn., plant agreed on July 12 to forgo a wage increase for 3 years. In return, the company agreed to keep the facility—portions of which are 127 years old—in operation for 4 years. In January, Uniroyal had announced a "tentative" decision to close the canvas and rubber footwear plant, reportedly stating that the \$4.50 an hour in pay and supplementary benefits paid at Naugatuck made the plant's output uncompetitive with both foreign and domestic producers of such products.

The moratorium on wage hikes means that the 4,000 Rubber Workers at the Naugatuck footwear plant are excluded from the 82-cent wage boosts under the new 3-year master agreement concluded

between Uniroyal and the union (ratified on June 30).⁷ However, the Naugatuck plant is covered by the supplementary benefit gains won under the master contract.

Equal rights

The U.S. Department of Justice, on July 20, filed the first suit to halt job discrimination against women since the practice was outlawed by the 1964 Civil Rights Act. The suit, filed in U.S. District Court in Toledo, Ohio, charges the Libby-Owens-Ford Co., Inc. with hiring women at only 1 of its 5 Toledo-area plants and with assigning them to "less-desirable and lower-paying jobs" subject to a high frequency of layoffs. The company was accused of following job practices that "tend to deprive [women] of employment opportunities or adversely affect their status as employees because of their sex." The suit alleged that women have to meet higher hiring qualifications than men in similar jobs, are denied equal opportunity for promotions or overtime work, and are not given jobs traditionally held by men.

Also named in the discrimination suit was the United Glass and Ceramic Workers Union. The suit maintained that labor agreements between the firm and the union shortchange women employees on seniority. Since senority is not based on total time with the company, but on service in jobs from which women have either been excluded or had limited access, the labor contracts were described as depriving females of an equal chance "to compete with their male contemporaries for the more desirable, better-paying jobs."

The Justice Department suit asks for preliminary and permanent injunctions against the company and union to require equal opportunities for women in hiring, job assignments, promotions, overtime work, and seniority. The defendants would be required to compensate women who were rejected for jobs because of their sex or suffered economic losses as a result of discriminatory job assignments. The action came 6 weeks after the Labor Department issued guidelines implementing a 1968 Executive Order prohibiting sex discrimination in employment by Government contractors.⁸

On July 21, the company issued a statement saying it "is making every effort to comply" with the Civil Rights Act requirements. A company

spokesman cited the conflict between Federal and Ohio laws as a major problem in the alleged discrimination. Federal law forbids different treatment of the sexes, but Ohio law requires a number of special conditions for women, including hours restrictions, he said. "This basic conflict of laws" remains unresolved, he added, because Ohio refuses to change its laws.

Philadelphia plan

Seven Philadelphia contractors were charged with failure to make good-faith efforts to hire minority members under the Philadelphia plan. The charges were detailed in six show-cause orders issued by the Department of Health, Education, and Welfare and one by the Department of Housing and Urban Development. The orders could result in the loss of existing Federal contracts and the ban of future contracts for contractors covered by the Philadelphia plan. The controversial plan, which has been challenged in the courts by contractors, sets up specific hiring "goals" for contractors in the Philadelphia area working on federally assisted construction projects. It was implemented in September 1969.

A spokesman for the Department of Health, Education, and Welfare said that the agency was providing funds for eight construction projects in the Philadelphia area involving 21 contractors, six of which have not met their hiring goals. He added, "These contractors have been notified and directed to show cause why enforcement action should not be instituted against them." Under the "show cause" notice, each contractor has 30 days to indicate what efforts he has made to comply with the plan's requirements.

John L. Wilks, director of the Labor Department's Office of Federal Contract Compliance, termed the moves "very significant," saying, "This is the first overt enforcement action we've taken."

Legal developments

J. P. Stevens & Co. disclosed that a Federal appeals court in Richmond, Va., had reversed the NLRB and ruled in the company's favor over charges of unfair labor practices. The July ruling marked the giant textile company's first U.S. appellate court victory in its lengthy battle with the Textile Workers Union over efforts to organize

Stevens' workers. (A union official stated that the decision would be appealed to the Supreme Court.) In five prior cases, appeals courts had upheld NLRB rulings that J. P. Stevens engaged in unfair labor practices while resisting union organizing attempts.

The firm said that the decision means "the company is now under no requirement to bargain or deal with the union in any manner," adding "over a period of more than 7 years of extensive campaigning the union has failed to organize any Stevens plant, and during this time Stevens has repeatedly charged that the labor board has been extremely biased in seeking to assist the union's

organizing efforts."

In July, the American Association of Securities Representatives filed a civil antitrust suit against the New York Stock Exchange and 44 securities firms, charging that recent reductions in commissions paid to securities salesmen by many firms reflect a conspiracy in restraint of trade. The suit also attacked the temporary service fee, or surcharge, of up to \$15 being charged by brokers on orders of 1,000 shares or less, alleging that the surcharge is not shared by registered representatives. The suit asked for damages but did not specify a dollar amount. The action, filed in a Federal district court in New York, also asked the court to enjoin the defendants against violations of the Sherman Antitrust Act and the Clayton Act. The association, which claims 5,000 members, affiliated with the National Maritime Union in June.10

Union developments

In a referendum, members of the Professional Air Traffic Controllers Organization (PATCO) ratified its affiliation with the Marine Engineers Beneficial Association (MEBA). The vote endorsed the move toward affiliation which had been taken at PATCO'S April convention. The affiliation brings the 7,0,00 air traffic controllers into the AFL-CIO. PATCO President John Leyden hailed the move as a way to make new resources available, to achieve increased effectiveness, and to obtain "a more professional approach toward labor-management relations."

The executive board of the 68,000-member Plasterers and Cement Masons Union named Joseph T. Power president of the union following the resignation of President Edward J. Leonard because of ill health. Mr. Leonard, who had served as president of the union since 1958, was named president emeritus. Mr. Power, age 50, had been executive vice president of the union since 1959.

In another union change, Frederick O'Neal, an actor and an AFL-CIO vice president, was named president of the Associated Actors and Artistes of America, succeeding the late Conrad Nagel. Mr. O'Neal had recently been reelected president of Actors' Equity, a post he had held since 1964. Besides Actors' Equity, member groups of the Associated Actors and Artistes include the American Guild of Musical Artists, American Federation of Television and Radio Artists, American Guild of Variety Artists, and the Screen Actors Guild.

Herman D. Kenin, President of the American Federation of Musicians since 1958, died at the age of 69. Mr. Kenin, who was also an AFL-CIO vice president, succeeded former Musicians' President James C. Petrillo in 1958 and helped guide the 300,000-member union to its period of greatest growth. Union officers called a special board meeting for July 29 to deal with the emergency caused by Mr. Kenin's death. The board named Hal C. Davis of Pittsburgh, a vice president of the union since 1963, to succeed Mr. Kenin.

In a nationwide secret mail ballot representation election among REA Express, Inc. employees, the incumbent Brotherhood of Railway and Airline Clerks defeated the Teamsters by a vote of 10,074 to 6,077. The vote was conducted by the National Mediation Board, which declared some 20,598 REA employees eligible to vote.

Conventions

Among unions convening in July were the Maintenance of Way Employees who met in Detroit. Delegates to the union's 36th convention reelected President Harold C. Crotty and other top officers to new 4-year terms, and voted to raise Grand Lodge dues for the 140,000 members from \$6.75 quarterly to \$9.75 effective in 1971.

Nearly 300 delegates to the 36th biennial convention of the Bookbinders, also meeting in Detroit, approved a recommendation to "enter into an agreement for merger with the Lithographers and Photoengravers Union." A merger, which would create a 125,000-member union, was

approved by the Lithographers' international council in June. A convention resolution authorized the Bookbinders' executive council to "take any and all actions which it deems necessary to bring about a merger" with the goal of completing the action prior to the next convention in 1972. Any merger agreement must be ratified by the membership before becoming effective.

Bill Baldwin was elected the new president of the American Federation of Television and Radio Artists by delegates to the union's 33d convention in Louisville. Mr. Baldwin, who has been an actor, narrator, announcer, and sportscaster for nearly 35 years, has been the union's first vice president since 1967. He succeeds Mel Brandt, who served 3 years as president and did not choose to run for another term. In response to officers' calls for "staggered" contract bargaining, the delegates approved a resolution calling for different expiration dates for major contracts. In June, the union had concluded a 3-year contract with the major networks. (See above.)

In Milwaukee, William T. Cleary was elected president of the American Federation of Technical Engineers, succeeding James Woodside, who joined the Navy Department as a labor relations advisor. Delegates to the 18,000-member union voted to increase monthly per capita payments from \$1.50 to \$1.85. If approved by members in a

Table 1. Preliminary measures of compensation, 1968, 1969, and 1970

| Type of measure | Annual rate of increase in percent | | | |
|---|------------------------------------|--------------|---------------|--------------|
| | First 6 months | | Full year | |
| | 1970 | 1969 | 1969 | 1968 |
| Major collective bargaining settlements: First-year wage rate adjustment 1 Wage rate changes over life of contract 1 Wages and benefits combined (equal | 13. 4 9. 5 | 8. 7 7. 5 | 9. 2 7. 6 | 7. 4 5. 9 |
| timing) 2 Wages and benefits combined (first-year changes) 2 | 9.7 | 8.2 | 8. 2 10. 9 | 6. 5 8. 7 |
| Aggregate measures: 3 Total compensation per man-hour, all employees, private nonfarm economy Average hourly earnings, production or nonsupervisory workers, private non- | 6.1 | 5. 8 | 6. 6 | 7.9 |
| farm economy | 5. 0 | 7.2 | 7.1 | 7.0 |

referendum, the dues hike would go into effect in February 1971.

Government

On July 23, Governor Raymond P. Shafer of Pennsylvania signed with "misgivings and strong reservations" a bill giving public employees the right to engage in collective bargaining and a limited right to strike over wages or working conditions. (Some local jurisdictions in the State have, in the past, engaged in collective bargaining with their employees—for example, Philadelphia and Pittsburgh public school teachers. Such agreements, which were in effect as of January 1, 1970, were protected under the new bill.) The new law, which becomes effective 90 days after the Governor's signature, prohibits strikes that endanger the public health, safety, or welfare. The bill does not apply to policemen or firemen, who are covered by a separate law enacted 4 years ago that established procedures for binding arbitration. The Governor's signing of the bill culminated over 2 years of efforts in the State legislature to secure collective bargaining rights for nearly 1 million workers in the public sector across the State. The new law covers State, county, and municipal employees, as well as employees of nonprofit hospitals, nursing homes, universities, and colleges.

On June 30, Governor John A. Burns of Hawaii signed a bill permitting State and local government employees to strike, except where the public health is endangered, if efforts to reach an agreement fail. The bill had been passed by the legislature in May.12

On July 15, New York City Major John V. Lindsay signed an executive order, effective September 1, requiring contractors working on city construction projects—or projects assisted by the city—to hire one minority trainee for every four journeymen on the job. The Mayor stated that the order would result in a "significant increase in . . . job opportunities in the construction industry for the lowest rung of the city's economic ladder."

Statistical summary

Table 1 summarizes various preliminary measures of compensation during the first 6 months

¹ Covers settlements affecting 1,000 workers or more.
² Limited to settlements for 5,000 workers or more. Equal timing assumes a uniform spacing of wage and benefit changes over the life of the contract. First-year changes measure increases in wages and benefits negotiated during the period and effective within 12 months of the effective date of the agreement.
³ Data for full years measure changes from fourth quarter of prior year to fourth quarter of current year. All changes are computed from seasonally adjusted data.

of 1970 and during earlier periods. Mean adjustments are used as the average measure of change.

---FOOTNOTES-

- ¹ Represented by the Chicago Truck Drivers Union, which is not affiliated with the Teamsters, and by several Teamster locals that have never participated in the national bargaining which began in 1964.
- ² Trucking Employers includes 1,100 of the largest trucking firms out of the 12,000 in the industry.
- ³ See *Monthly Labor Review*, June 1970, pp. 77 and 79, for terms of the contract, which provided for the reopening of bargaining if the Chicago locals gained a larger package.

- ⁴ The Southern Pacific, Baltimore & Ohio, and Louisville & Nashville railroads.
- ⁵ Frederick R. Livingston, a special mediator in the rail dispute, was named chairman of the board. The other members were Willoughby Abner and James C. Vadakin.
 - ⁵ See Monthly Labor Review, June 1970, p. 80.
 - ⁷ See Monthly Labor Review, August 1970, p. 78.
 - 8 Ibid
 - 9 See Monthly Labor Review, November 1969, pp. 72-3.
 - 10 See Monthly Labor Review, August 1970, p. 82.
- ¹¹ See *Monthly Labor Review*, June 1970, p. 77, for an account of the convention and the termination of the "sick out" by members of PATCO.
 - 12 See Monthly Labor Review, July 1970, p. 82.

Indexes to the Monthly Labor Review

Each year the December issue of the *Monthly Labor Review* contains an index, by subject, of articles published in the *Review* in the current year. Also included are listings of statistical tables and of books reviewed, by author of book. In recent years, the index has also included an alphabetical list of authors.

At intervals, these yearend indexes have been combined and published as BLS Bulletins:

Bulletin 695, Subject Index to the Monthly Labor Review, Volumes 1 to 11, July 1915 to December 1920

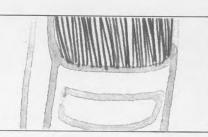
Bulletin 696, Subject Index to the Monthly Labor Review, Volumes 12 to 51, January 1921 to December 1940

Bulletin 1080, Subject Index of Volumes 52–71, Monthly Labor Review, January 1941 to December 1950

Bulletin 1335, Index of Volumes 72–83, Monthly Labor Review, January 1951 to December 1960

Work is now in progress on the next bulletin in the series, to cover volumes 84 to 93, January 1961 to December 1970.

Book Reviews and Notes



World coverage

Trade Unions and Industrial Relations: An International Comparison. By Everett M. Kassalow. New York, Random House, Inc., 1969. 333 pp. \$8.

Too frequently, books on international comparison of labor turn out to be either a series of discrete country studies or a comparative discussion confined to a few selected countries. In the book under review, Professor Kassalow successfully covers all the industrially developed areas of the world and their labor problems. Two additional chapters provide a discussion that this reviewer hopes the author will pursue in a later study—one is on trade union development and the other on the economic setting of industrial relations in the newly independent countries. Students and practitioners in the field will find this study useful for many years. For more serious scholars, it will serve as a challenging point from which to embark on critical analysis.

Kassalow identifies two distinct kinds of movements among the "Western" nations-pragmatic, with the stress on economic objectives (the United States), and ideological or class-oriented (most Western European countries). After discussing the evolution of these systems, the author illustrates the increasing pragmatism of both political and trade union organizations, especially as State power becomes a reality for the parties, and as improved economic conditions provide the working class with something to lose in addition to their chains. Of special value to students is the countryby-country discussion of the changes that took place in Western European socialist movements, and how doctrinal revisionism came about as a natural concomitant of economic advance in the life of the average worker. Full treatment is also given to the differences and similarities among the economic aspects-collective bargaining objectives and techniques, labor attitudes toward management, the various types of worker-participation in industry, and white-collar unionism.

The background discussion leads into a brief but eloquently stated theory for understanding the two strands of labor activity existing in industrialized societies: the worker's reaction to his job situation where he depends on the union to represent his economic interests—and the activity of somewhat broader scope, occasionally even appearing to conflict with his narrow job interests, "which integrates workers into society," in this sphere, they rely on their political party and union to represent their broader social interests. The first represents the "conflict" function of the union, and the second what the author calls the "integration" function of the labor movement, in its broader sense.

Although Kassalow disclaims any intention of presenting a new full-blown theory of trade unionism, he remarks that the dual strands of labor activity he has described may bring together Selig Perlman's "job consciousness" theory of trade unionism, based on a philosophy of job scarcity, with the theories of J. B. S. Hardman and others who saw unionism as "economic and political power centers in modern society."

The author does not feel the Western experience necessarily provides a set of formulas for other countries, only that it helps the developing nations learn through the successes and failures of others. In most of the newly independent countries the labor movement was an ally in the anticolonial struggle. After freedom, the new governments generally found it necessary to integrate the unions into the developing societies and to dissuade them from threatening the economic development program. The need felt by workers in developing societies for "outside" leadership (generally supplied by politicians or intellectuals), for governmental support, for close relationships

to political parties, for "reactionary" economic policies and ideological postures, are all briefly explained without being excused or advocated by the author. This discussion is necessary and desirable if readers are to avoid the oversimplified analyses which have led so many trade unionists, managements, governmental authorities, and university scholars into advocacy of similarly oversimplified and thus ineffective solutions.

The author has obviously read and digested an overwhelming amount of authoritative material from all parts of the world. Much of what is highlighted is "fugitive" material—articles, monographs, and books not normally quoted in studies within the narrow field of labor problems. Serious students of international labor problems should become acquainted with these sources to fully develop their competence in this field.

As a final comment, I should like to add a note on notes. Over the past few years, the practice of putting footnotes at the end of the chapter or at the end of the volume itself has been entirely defensible for source references. In a study such as Professor Kassalow's, where so much analytical information is provided in the notes—the brilliant summary chapter on labor in the Western world, for instance, is only twice as long as its notes—the average reader is seriously inconvenienced. He must shift his glance from text to chapter notes in a veritable intellectual tennis match, straining his neck-muscles, eyesight, and patience. Is it possible to appeal to authors and publishers to revert to the practice of placing substantive footnotes at the bottom of the page where interested readers can read them easily?

> —Morris Weisz Counselor for Labor Affairs U.S. Embassy, New Delhi

Diplomas and job performance

Education and Jobs: The Great Training Robbery. By Ivar Berg. New York, Praeger Publishers, 1970. 200 pp. \$7.50.

This volume studies a vital and difficult question: the economic value of education. The American myth, that additional education is always valuable and will be repaid many times over in better jobs and promotions, is hereby challenged. The myth was comfortable. It required the unemployed of the 30's and the disadvantaged of today to blame themselves for their plight, "If only I had gotten more education."

Dr. Berg correctly suggests that an annual investment of more than \$49 billion ought to be carefully scrutinized. He skillfully organizes and analyzes the information available on the economic contribution of education and training. The data are not convincing that education always pays for itself. And it sometimes seems to be dysfunctional. The better educated do not always perform well; they can become bored and frustrated with low-skilled jobs.

A high school or college diploma is often used as an initial screening device. It then becomes an essential qualification for a job, regardless of whether or not it is an accurate predictor of successful job performance. Berg faults the "purposeless credential consciousness" of employers, although he does not seem to acknowledge that many large employers have dropped their high school degree requirements in recent years.

Dr. Berg could unearth no good data on the economic value of hiring college graduates for managerial positions. On the other hand, the turnover and the resulting costs for these young men was quite high. Interviews with executives, however, brought abundant testimony on the worth of college graduates. The executives cited their diligence and perseverance in enduring 4 years of college, their greater stability, and their poise and self-assurance.

For blue-collar workers, "educational achievement explained so few promotions that it could be discounted as a factor." The better-educated person obtains a better job by moving to another firm, while his lesser educated fellow worker stays and moves up into the vacated slots.

Dr. Berg indicts private industry for not keeping records that would enable them to determine if better-educated workers actually do perform better. There is little information linking education with "such matters as grievance patterns, turnover, productivity, absenteeism, and worker attitudes."

The more careful research of public sector jobs, the military, and civil service supports the same theme. Most of the evidence shows that there is little or no relation between additional education and successful job performance.

Dr. Berg's analysis is documented, careful, skeptical, and generally clear, although he does tend to string ideas and words together in a way that is sometimes difficult to follow. The author did not intend to attack the more difficult problem of the overall value of a humanistic education. Berg focuses on one aspect of education: its contribution to job performance. And he finds it wanting. It would be a mistake to assume that this were its primary purpose; and Berg agrees. On the other hand, it would be presumptuous and evasive to assume that education was performing more effectively as a humanizer, a stimulator of creativity, and a developer of fuller and more mature human beings.

—Gerald F. Cavanagh, S.J.

Research Associate
Cambridge Center for Social Studies

Bargaining model

The Economics of Bargaining. By John G. Cross. New York, Basic Books, Inc., 1969. 247 pp. \$8.95.

In this book Professor Cross develops an economic model of the bargaining process based on a novel concept of the way in which bargainers choose their demands and subsequently modify them as the bargaining proceeds. Initially, the model is examined against the background of other economic models of bargaining (especially those of Nash, Zeuthen, and Hicks). In later chapters, Cross considers the questions of mediation, arbitration, force, threats, preagreement costs, and bluffing as they relate to his basic model. In the last chapter the model is applied to the problem of oligopoly. Though the coverage in this book is relatively wide, the analysis never really deviates very far from Cross's basic model, and a less general title such as "An Economic Theory of Bargaining" would have more accurately described this material.

The author's basic model of the bargaining process is relatively straightforward. Cross assumes there are two bargainers who are negotiating to divide a given quantity of an economic good. Each bargainer expects some constant rate

of concession on the part of the other bargainer, and then chooses the quantity he demands so as to maximize the present value of the utility of this quantity when the other bargainer finally concedes it to him. At the time such decisions are made, neither player plans to concede at all from the demanded quantity but subsequently revises his expectations of the other bargainer's concession rate as the bargaining goes on and changes his demand accordingly. Cross discusses the conditions under which this process will converge to a point of agreement. (A more detailed mathematical discussion of some of the aspects of Cross's basic model may be found in his article, "A Theory of the Bargaining Process," American Economic Review. March 1965, and additional comments by Coddington and Cross in the June 1966 issue.)

There are some interesting and innovative aspects of this model. The first is the recognition that bargainers will take the expected length of time needed to reach agreement into account in setting their demands as well as the costs of not agreeing. The second is the productive or information-providing nature of the bargaining process.

Despite these appealing features, I am uncomfortable with several of the implicit and explicit assumptions that underlie this theory of the bargaining process. For example, it seems curious that even though each bargainer continually changes his demands throughout the bargaining process, he never recognizes that this continual revision will occur at the time he makes his demand decisions. In other words, each bargainer correctly assumes the qualitative (although not necessarily quantitative) behavior of the other bargainer but fails to recognize it on his own part. Thus, according to a strict interpretation of the mathematics of Cross's model, a bargainer could "optimally" decide to demand more than the total amount of the available good and base this decision on an optimization scheme in which he explicitly expects to make no concessions.

Now it may be true that the form of the optimal decision rule is for each bargainer to make the "complete" concession in each decision period and ignore, at that time, the likelihood that he will have to make future concessions, but that should be proved as a mathematical theorem and not simply assumed as Cross does in his model. If it

turns out that this rule is not optimal (and I strongly suspect it is not when each bargainer is aware of the uncertainty involved in his expectation of the other's concession rate), then many of the conclusions that Cross derives from the model would have to be reconsidered, particularly those in the chapter on bluffing.

Another disturbing aspect of the model is that at every point in time, each bargainer always expects the other's concession rate to remain constant throughout the subsequent negotiations. Moreover, neither bargainer recognizes that his own behavior will influence his opponents concession rate even though this is actually what happens. Here again, there is a puzzling asymmetry in the model.

I think that some of the results that Cross finds surprising (he frequently uses exclamation points at the end of counterintuitive statements) may not hold up in a less extreme version of this model. For example, he notes that the more sensitive learner (that is, one who adjusts his expectation of the other's concession rate more rapidly) is likely to have the outcome go against him. This result, it seemed to me, is not so much of a revealing insight into the bargaining process as it is a clue that something is fishy in the structure of the model. A bargainer who is aware of his influence on the other bargainer's concession rate (that is, a really astute learner) is almost certainly going to do better than a bargainer who does not possess such an awareness. Furthermore, even within the assumptions of the Cross model, there is a more plausible (but less exciting) explanation of this result. If, instead of calling expectation adjustment process a "learning" function, one designated it more generally as an expectations response function, then the apparent disadvantage of the more responsive bargainer could be explained in terms of his weakness as a bargainer (because of things such as a poorer political position, a less forceful and confident personality, and so forth) instead of his greater sensitivity as a "learner." In general, I was bothered by Cross' tendency to take a fairly limited result from the basic model and verbally generalize its implications and ramifications in an ad hoc manner that was almost totally unrelated to any analytically substantiated results.

Let me say, however, that on many occasions

throughout this book, I was impressed with the depth of Cross' analytical and economic insights, his technical competence, and the amount of thought and work he has devoted to this interesting subject. I'm sure he is aware of the above and other limitations of the basic model. At the start of Chapter III, he makes it quite clear that he regards the basic model as a somewhat extreme case, and he spends a large part of the book discussing the implications of loosening several of the limiting assumptions. Nonetheless, I do not, on the basis of the present evidence, share his apparent confidence that the basic model provides results that are qualitatively robust. I strongly suspect that if the myopic character of the decision rules was changed by introducing a sequential or dynamic programing form of analysis, which in essence would require bargainers to contemplate alternative bargaining strategies over the entire expected span of the negotiations, some of the results of Cross' basic model would be altered in a fundamental manner. Before plunging ahead at this time with the development of more elegant theoretical models, however, I suspect that economists interested in the analysis of bargaining behavior would do well to give some greater attention to identifying more precisely those empirical phenomena that need to be explained. If nothing else Cross' work makes clear that economic theory has an important role to play in the analysis of bargaining behavior.

> —John P. Gould Special Assistant for Economic Affairs U.S. Department of Labor

From industry to community

Arbitration and Social Change: Proceedings of the Twenty-Second Annual Meeting, National Academy of Arbitrators. Edited by Gerald G. Somers. Washington, BNA, Inc., 1970. 233 pp. \$10.

It is of little moment that there are different schools of thought on the wide variety of problems presented to labor arbitrators. What is remarkable is that in a private, and virtually unsupervised, adjudicative process at a single level without appeal to review tribunals, there should be so much consistency and continuity in the articulation of controlling principles. Enunciation of these principles may do more than settle only the immediate issues submitted. If published, these decisions may have a normative impact nationally upon labor agreement administration and on employer and employee conduct.

In his role as decisionmaker, the arbitrator's reflections and rhetoric are restrained by the nature of the issues submitted for resolution and the need for tactful observations that will minimize industrial tensions. An arbitrator's critical comments on the process in which he is the main actor are best reserved for occasional essays in specialized periodicals. Enduring commentaries, expressing the arbitrator's candid views on the practice of his profession, will be found most frequently in published reports of proceedings of the National Academy of Arbitrators. Twentytwo such meetings have been reported since the founding of the Academy in 1947. The first seven annual meetings, 1948-54, survive only in the eight papers and five committee reports that appear in the first of the series, now at 16 volumes, that is also published by the Bureau of National Affairs.

The program of each annual meeting of the National Academy of Arbitrators usually centers on some general theme. Frequently, the title selected for the program does not encompass all that is published in the proceedings; such mismatching is not necessarily a drawback, however.

In the volume under review, the title applies only to three of the volume's seven chapters. Chapter II deals with the potential application of industrial jurisprudence to community conflict, fair employment problems and campus confrontations; Chapter III is concerned with industrial relations problems in hiring the disadvantaged and retaining them in the work force; and Chapter V canvasses the use of the factfinding process in settlement of public employee disputes. Three chapters discuss continuing and developing problems in the ordinary run of labor arbitration cases: management rights arguments; the uses of expert testimony in arbitration cases; and the ramifications of backpay awards in suspension and discharge cases. Chapter IV is a literal transcript of a whimsical and satirical after-dinner address, replete with in-group humor, that must have been

a joy to hear at the time; it strikes a discordant note, however, when it appears among thoughtful essays designed to be read in the sober light of day.

The chapters related to the volume's title consider the question—Can expertise developed in private adjudication of grievance disputes or in factfinding on presidential boards under the Railway Labor and Taft-Hartley Acts be used in resolving ghetto and campus conflict? The role of experienced labor arbitrators as mediators or factfinders in public employment negotiations is well-documented.

Even the most hopeful participant in the Academy's annual meeting failed to establish any analogy between industrial grievances and community or campus discontent. Optimism rests on the tenuous assumption that experience in labor arbitration produces the poise, temperament, imagination, and personal prestige needed to mediate political and economic confrontations that arise from challenges to established governing institutions because of disparities of age, education, social, and economic class or spring from historic patterns of discrimination.

Despite occasional optimistic suggestions for putting arbitration experience to new uses, many contributors express concern that in deciding industrial discipline cases, arbitrators would be acting injudiciously by applying more relaxed standards of plant behavior to employees recruited from ghettoes than to their co-workers possessed of more conventional backgrounds.

On balance, these papers should be valued more for the difficulty of the questions posed than for the few tentative and untried solutions tendered for experiment. A compact report on developments in the law of labor arbitration in 1968 and a cumulative index of authors and subjects reported in the 16 printed volumes covering the 22 annual meetings of the Academy are useful appendices to the volume.

—Alfred Kamin
Professor of Law
Loyola University of Chicago

(Word of Professor Kamin's death was received after this review went to press.)

Labor abroad

American Labor and United States Foreign Policy. By Ronald Radosh. New York, Random House, Inc. 1969. 463 pp. \$10.

This is a self-proclaimed essay in "radical history." If by this is meant rejection of all the canons of historical scholarship, the author has been successful: sloganeering is substituted for logic, invective for analysis, fiction for fact.

The title is misleading. Out of 450 text pages, 270 are devoted to the period 1916–19, when the American labor movement was hardly a major political force. Of the nine chapters devoted to these years, no less than five full chapters and parts of others deal with the activities of people like John Spargo and William Walling, who were hardly in the mainstream of the labor movement,

to put it mildly.

The period 1919-45 is covered in four pages. Almost nothing about the foreign policy role of the Communist Party from its strongholds in the cro; of the support given by both the AFL and the cro to the foreign policy of President Roosevelt; of labor assistance to anti-Nazi groups. The only reference to the momentous events of the Great Depression and their impact on labor ideology is the erroneous statement that "the National Recovery Administration turned unionism into a semipublic institution whose organization was part of an official government program."

The rest of the book is concerned with the so-called "Lovestone diplomacy" in Europe and with the activities of Serafino Romualdi and others in Latin America. It consists of one long indictment, relying heavily on such objective journals as The Nation, The New Republic, Monthly Review, and Viet Report. There is certainly much in the record that is subject to legitimate criticism, but the author's technique reminds one of a midnight Western (or should I say Eastern?); there are only good guys and bad guys. There is virtually no use of original European and Latin American source materials and the effort is amateurish and superficial.

Nowhere in the book is there any serious treatment of labor's role in the Marshall Plan, in the formulation of American Middle Eastern policy, of its impact upon Japan, of labor participation in

the U.S. aid program. One would also have thought that a book with this title would have contained some analysis of the labor attaché program, and of relations with ILO, ICFTU, and WFTU. Apparently only those matters were included which helped sustain the author's thesis that "the new business collectivism, initiated during the presidency of Woodrow Wilson, has come to resemble the type of business-government alliance established by Benito Mussolini in Fascist Italy."

My colleague John Windmuller will publish in another place a sample of the large number of factual errors that abound in this book. But one I cannot pass over is Radosh's characterization of the late David Saposs as a former Communist, a falsehood initiated by the Dies Committee. Saposs was a staunch opponent of Communism all his life.

On every count—the quality of the research, of the writing, of the analysis—this is a bad book.

—Walter Galenson
Professor of Economics
School of Industrial and Labor Relations
Cornell University

Public bargaining

Perspective In Public Employee Negotiation. Edited by Keith Ocheltree. Chicago, Public Personnel Association, 1969. 98 pp. \$10.

As action in collective bargaining in the public sector accelerates, so does the publication of materials reporting and analyzing these developments. Most of them so far have been collections of essays by a wide variety of experts in collective bargaining generally, reflecting the newness as well as the rapid tempo of developments in this field, the complexity of its issues and portents and the substantial differences which have emerged not only among the States but among different levels of government within States. This approach has the advantage of bringing a significant collection of expertise to bear on the problem. It also has the disadvantage of having a large number of people feeling the elephant from different vantage points, lending a certain amount of unevenness and inconsistency in reporting the results and little overall perspective on the subject being examined.

This special issue in the Public Employee Relations Library, the result of a series of seminars on the subject, reflects both the advantages and disadvantages. It contains 13 articles in all. The first two discuss recent developments and the role of the public interest in these matters. The next four report on concrete experiences in public employee bargaining in Canada and in the United States. The seventh article focuses on some of the problems which ensue when professional employees are involved. The following five take up a variety of overall problems which shape the environment of bargaining in the public arena, such as Milton Derber's fine essay in "Who Negotiates For The Public Sector?" and Howard Black's "Legal Con-Employment Labor siderations in Public Relations." The final article on "Lessons from Experience in the Private Sector" by Robert T. Woodworth does a good job in trying to put the whole matter in perspective.

Aside from a less-than-one-page foreword, there is no attempt to provide these articles with some context. They are not grouped in any kind of meaningful arrangement or succession, nor is there any transition material provided for moving from one article to the next. On balance, however, it is a worthwhile addition to the literature in the field, particularly for the practitioner, because it does make many of the issues stand out and it does provide some concrete case studies in a field which still has a long way to go before anything resembling a unifying set of principles and experiences emerges.

—SEYMOUR L. WOLFBEIN
Dean, School of Business Administration
Temple University

Expanding job content

Job Enlargement: Key to Improved Performance. By Peter P. Schoderbek and William E. Reif. Ann Arbor, Mich., University of Michigan, Bureau of Industrial Relations, 1969. 113 pp., bibliography. \$8.

This book is based on a recent study of the job enlargement interests and experiences of 276 companies randomly selected from the *Fortune* 500 Directory. According to the authors, the purpose of job enlargement is threefold: 1) expand

job content through a greater variety of knowledge and skill, 2) provide for "a more complete utilization of . . . cognitive and motor abilities," and 3) increase the degree of freedom and amount of responsibility for the quality and quantity of work performed. Professor Schoderbek and Mr. Reif point out that the key factor is increasing the variety of tasks performed by an employee, not merely adding more of the same kind of tasks (the latter is job extension, not enlargement).

Starting with an excellent introductory chapter on the history and background of job enlargement, the authors analyze current trends in terms of reasons for its use, number of projects undertaken, and organizational changes resulting from its adoption. Particular attention is given to production, clerical, and supervisory applications.

Major advantages cited by corporate users include increase in job satisfaction, reduction in costs, increases in quality of work, increases in quantity of output, and decreases in monotony. The authors found such disadvantages as problems in overcoming resistance to change, some employees not capable or unwilling to grow with their jobs, increases in training time, and occasional union opposition. In their final chapters, Professor Schoderbek and Mr. Reif address themselves to these problems and offer a series of practical suggestions and guidelines for overcoming them. Of central importance is the justification of job enlargement to top management through the use of objectively determinable results—lower costs, greater output, and higher profits. Chapter IV, "Resistance to Change," will be of particular interest to the practitioner.

While not witten as a philosophical underpinning for job enlargement, the authors contend that it is a useful application of McGregor's Theory Y (the integration of the individual's goals with those of the organization). In their opinion, job enlargement can best be "expressed as an attitude," not just "as a technique, and that it should be viewed as an approach which (will) improve and upgrade practically any job in the organization." Furthermore, job enlargement is not a case of job satisfaction versus the economic interests of the firm. Their research indicates that job satisfaction and economic goals need not be in conflict.

Professor Schoderbek and Mr. Reif have done an excellent job in the development of the concept, stating the issues, presenting the advantages and disadvantages, and providing the reader with information as to its current use (and misuse) in business and industry. Their position is that it is one of the keys to improved performance.

—Don R. Sheriff

Professor, Center for Labor and Management University of Iowa

A 60-book summary of labor's struggles

American Labor: from Conspiracy to Collective Bargaining. Created by Leon Stein and Philip Taft. New York, Arno Press, 1970. \$744.50, 60-volume set; varying prices for individual titles.

To provide a readable, scholarly collection of books that tell the story of the labor movement is indeed a formidable task. Philip Taft and Leon Stein accepted such an assignment, and the result is a 60-volume set of out-of-print accounts of labor's struggles entitled American Labor: from Conspiracy to Collective Bargaining. Some of the books in the collection are texts, others are evaluations by participants in the movement focusing on the exploitation of women, children, and immigrants as well as biographical sketches and histories of particular unions. These personal dialogues are appropriate for relating the history of labor since for a long time persons outside the movement tended to ignore it except when violence or some other crisis erupted.

In The American Labor Movement, Mary Beard says, "It is a significant comment on American intellectuals that it was not until 1918 that there was any authoritative and exhaustive history of the American labor movement. It is still more significant that the preparation of this history was undertaken, not by professional historians, but by economists who could not after all entirely ignore labor in studying industry." A few of the economists contributing to this series are Louis Lorwin (Louis Levine), John R. Commons, Sumner H. Slichter, Solomon Blum, Paul H. Douglas, and Richard T. Ely.

Most labor historians consider The Labor Movement in America by Richard Ely to be the first modern history of the labor movement, though it has been criticized for endorsing a socialist program. Nevertheless, the thoughts are interesting and still timely despite the 1886 copyright date. Ely talks of the economical and educational value of labor organizations and states that "The organization of labor . . . is an indispensable condition of the improvement of the masses, and it must be extended and also pursued on a more elevated ethical plane, if it is to accomplish its legitimate ends. There must be displayed a greater willingness to yield personal advantage to the common good . . ."

Simon Newcomb, an astronomer who thought human events could be regulated with the same mathematical exactness as the stars and author of A Plain Man's Talk on the Labor Question, joined with other academicians in calling Ely's book an anarchist's ravings. Newcomb says that "... the reason why the laborer of today is so much better off, is that the force of circumstances have been stronger than his theory. Capitalists have persisted in building railways to bring him the products of other regions and in making machinery to supply him with clothes and furniture; in a word, to do for him the very thing which, according to his theory, it is disadvantageous to have done. Under these circumstances, I earnestly hope that labor organizations will not succeed in doing themselves irreparable damage by putting this old theory into operation. I hope the common-sense of society will prevail upon them to see that the laborer is best supplied with the necessaries of life when every man is at work at the very best wages he can get, be they high or low."

In many cases, of course, the wages were lower than the laborer thought they should be. And, as Ely points out, ". . . Employers rarely offer an advance voluntarily, for they are like purchasers of other commodities. Does my reader offer seventeen dollars for a garment when the price asked is only sixteen dollars?" So, workers organize and hold back their commodity for the price "which the state of the labor market justifies."

"... The method of initiating a strike does not determine its duration and intensity. These are the resultants of the motives enlisted, the number of participants, and the methods used in conducting the conflict. Such methods include the chief tactical problems in strike management; the strategy directed upon the participants, the non-

striking laborer, the employer, and the public." This analysis is part of an overall account of what happens when workers take collective action to improve their lot. In *The Strike: A Study of Collective Action*, Ernest T. Hiller details the requirements and structure of the strike and the bargaining that follows.

Another book on strikes by Edward Levinson gives a vivid picture of Pearl L. Bergoff, self-proclaimed King of the Strikebreakers during the 1930's. One section in I Break Strikes tells of the finances of strikebreaking: "The only standing overhead is the maintenance of the central and branch offices. In the cases of at least half a dozen large practitioners this expense is avoided. They carry their offices 'in their hats.' When the longawaited moment comes and the fink chieftain is chosen to break a strike, he can hire a store, a loft, or an old stable for recruiting quarters and pass the rent on to the company. Office equipment is scanty. One of the few necessary full-time employees, aside from the operatives on the clients' payrolls, is a man who can read. In the old days he read the New York Call, today most likely he peruses the Daily Worker. The office will thus learn of impending strikes. . . . Once a strike appears inevitable, however, the purse strings will be loosened. The solicitors become high-powered salesmen, with expense accounts for dinners, liquor, theaters, and cigars. Since the profits are so large, there can always be a gratituty for any helpful company executive, lawyer, or superintendent who helps the agency land the contract."

Discussing the hope for industrial peace in his book, Labor Economics, Solomon Blum poses the question, "In spite of the difficulties lying in the way of settlement by agreement, may it not be feasible to attain peace in industry by the intervention of the state and the use of force to make the rival parties compose their differences amicably?" but then concludes that "... with labor in its present frame of mind, the use of coercion is generally impracticable, and would be productive of harm to the cause of peace. Coercion will be feasible only when the law which it is to enforce is accepted by the large proportion of the workers."

For labor, Professor Blum says that the "task of the trade union is far heavier than getting favorable legislation through Congress or the state legislatures. Its task is to convince liberal opinion, both among industrial workers and outside the

ranks of labor, not of the more generalized right of labor organizations to existence, but of the peculiar virtues of labor organizations as active and unique agencies of the general welfare."

In their observations on *The Working Class Movement in America*, Edward and Eleanor Marx Aveling (daughter of Karl Marx) are a bit stronger in their commitment to organization: "To reduce the possibility of funerals, first-class and otherwise, to a minimum, it is clear that the workers of America must organize." They explain, "The working men and the capitalists in the majority of cases quite understand that each, as a class, is the deadly and inexorable foe of the other . . ." and "that the next years of the nineteenth century will be taken up chiefly by an internecine struggle, that will end, as the capitalists hope, in the subjugation of the working class; as the working men know, in the abolition of all classes."

Books in this collection give comprehensive coverage of the specific areas where workers organized to gain what they felt employers were collectively denying them.

An excellent treatise on child labor by Edwin Markham, Benjamin B. Lindsay, and George Creel entitled Children in Bondage says there is "a hideous squandering of energy in the ununiformed unemployed armies of workers who drift upon our streets, or crowd into our churches crying for bread. With all these labor resources to draw upon, what reason have we for wasting the precious energy of the children, sucking the marrow out of their bones, in the mills and mines and fields and streets? A parent should no more devour the health and strength of his child than a hen should devour her own eggs. We let the energies of grown men go to waste like water in a sink-hole. We sweep the children into the labor market, blasting their sacred energies, and blighting the generation that is to come. Could any social situation be more illogical, more inhuman, more insane"? But, they go on, "Child labor fighting, to be sure, isn't very spectacular. One cannot run into a cotton mill, mine, or glass house and drag the children out. One doesn't save the doomed children of the tenements by carrying them down a ladder while a multitude cheers. The process of rescue is through statutory enactments; and it takes a lot of time and trouble to write laws upon the books. Quite often the children themselves are never seen, nor word of thanks ever heard."

Florence Kelley had a strong interest in abolishing child labor and her book, Some Ethical Gains Through Legislation, is part of the set. As general secretary of the National Consumers' League she carried the responsibility of providing the public with "Information on what articles on sale in shop and store represent the lifeblood of little ones and how to look for the League's label so that those purchases may be avoided which swell the fortunes of employers deaf to pity and humanity."

The League was a powerful factor in forcing enactment of laws to protect wage-earning women from overwork, and worked hard to make the statutes effective. Other groups were struggling to gain wages for women equal to those received by men. In Women and the Trades, Elizabeth Beardsley Butler explains, "The social fact of woman's customary position in the household, the position of a dependent who receives no wages for her work, thus lies behind the economic fact of her insufficient wage in the industrial field. It is expected that she has men to support her."

But as Carroll Wright points out in his *The Working Girls of Boston*, "The information furnished by the working girls shows that the wages earned by them constitute in many cases the chief, and sometimes the entire support of the family, the parents looking to the earnings of one, two, three, and four daughters to pay the household bills; the father often being reported not able to work much or always, on account of disability, from lack of steady work or possibly, from disinclination to work while there is revenue from any other source."

A further interesting comment on the status of women, written in 1913 by Edith Abbott in Women in Industry, should interest persons concerned with today's women's rights movement ". . . attention may be called once more to the fact that the 'woman movement' of the last century belongs most exclusively to educated women. So far as industrial employments are concerned, they were considered especially suited to women at a time when men did not regard such work as profitable enough for themselves. By prior right of occupation, and by the invitation of early philanthropists and statesmen, the working-woman holds a place of her own in this field. In the days when the earliest factories were calling for operatives the public moralist de-

nounced her for 'eating the bread of idleness' if she refused to obey the call. Now that there is some fear lest profuse immigration may give us an over-supply of labor, and that there may not be work enough for the men, it is the public moralist again who finds that her proper place is at home and that the world of industry was created for men. The woman of the working classes was self-supporting more than three quarters of a century ago, and even long before that she was reproached for 'eating the bread of idleness.' The efforts of the professional woman to realize a new ideal of pecuniary independence, which have taken her out of the home and into new and varied occupations, belong to recent, if not contemporary history. But this history, for her, covers a social revolution, and the world she faces is a new one. The woman of the working classes finds it, so far as her measure of opportunity goes, very much as her great grandmother left it."

A quote from Samuel Gompers' Labor and the Common Welfare sums up what this collection is all about: "All we can do in our day is to keep on and on, true to our fellows, consciously and confidently relying upon the future, unhampered by prejudice and sordid avarice, to accord our purposes, efforts, and achievements in the interest of humanity the place in history which they justly deserve."

Besides the texts referred to in this note, others worthy of mention are McAlister Coleman's Men and Coal, a study of the mine workers and their union history—"with the miners, whether or not they belonged to the U.M.W. of A. the influence of that organization upon the life and fortune of every mine worker has been so preponderant as to make its story the bulk of any adequate chronicle of American coal mining."

A book by Heber Blankenhorn, The Strike for Union, details the mine workers' efforts in 1922 to organize mines in three Pennsylvania counties and the reasons for their failure. Civil War in West Virginia by Winthrop D. Lane chronicles the history of the United Mine Workers' efforts to organize West Virginia's coal fields. There is also a study on The Steel Worker (John Andrew Fitch), The Women's Garment Workers (Louis Lorwin) and a study by Samuel Yellen, American Labor Struggles, of 10 "epic struggles in American labor history, from the railroad strikes of 1877 to the general strike in San Francisco in 1934." Separate

studies of the Knights of St. Crispin (Don D. Lesochier) and the Molly Maguires (Labor Distrubances in Pennsylvania, 1850–1880 by Walter J. Coleman) are included.

A book on the "new unionism" that developed during the first decade following World War I is in the set, as is John R. Commons' Industrial Goodwill. Another fine addition to the collection is a grouping of speeches by Henry Demarest Lloyd (Men, the Workers) which "presents his record of an uncommonly dedicated crusader who attached trustified wealth in defense of the working man."

Crystal Eastman's extensive work, Work Accidents and the Law, on the investigation of work accidents and employer liability is included, as well as I. M. Rubinow's Social Insurance, a study which provided the foundation for the first unemployment compensation laws.

Two "original editions" prepared by the editors contain documents which reflect trends of thought on labor topics during the 19th century and the transformations as the movement progressed into the 20th century. A third original volume is a compilation of material that chronicles the history of the Pullman Strike. These three books in themselves do much to provide the feelings of the times. Also useful in the series are the introductory comments provided by the editors. More frequent use of explanatory statements by the editors at the beginning of each volume might have helped connect and place each contribution into overall perspective. An index to the collection probably would have been helpful.

The volumes assembled here give a fairly complete picture of what the times were like and should prove to be excellent source material for scholar and student alike.

> —Barbara V. Freund Office of Publications Bureau of Labor Statistics

Other recent publications

Economic development

Coats, A. W. and Ross M. Robertson, Essays in American Economic History. New York, Barnes & Noble, Inc., 1970, 307 pp. \$12.

- Davis, Chester A., American Society in Transition. New York, Appleton-Century-Crofts, 1970, 285 pp., bibliography. \$5.50.
- Stern, Joseph J. and Walter P. Falcon, Growth and Development in Pakistan, 1955-1969. Cambridge, Mass., Harvard University, Center for International Affairs, 1970, 94 pp. (Occasional Papers in International Affairs No. 23.) \$2.75.

Education and training

- Glass, Bentley, The Timely and the Timeless: The Interrelationships of Science, Education, and Society. New York, Basic Books, Inc., 1970, 99 pp. \$4.95.
- Morison, Robert S., "Some Aspects of Policy-Making in the American University," *Daedalus*, American Academy of Arts and Science, Summer 1970, pp. 609-644.
- Odiorne, George S., Training By Objectives: An Economic Approach to Management Training. New York, Macmillan Co., 1970, 354 pp. \$10.95.
- Stapleton, Robert N., "The Trainer in Community Development: Adult Education in Three Different Cultures," *Training and Development Journal*, June 1970, pp. 42-44.
- Wasmuth, William J., "Workshop: A Dynamic Simulated Training Program," *Rehabilitation Record*, U.S. Rehabilitation Services Administration, July and August 1970, pp. 12–16.

Employee benefits

- Institute of Life Insurance, 1970 Life Insurance Fact Book. New York, 1970, 128 pp.
- Oswald, Rudolph and J. Douglas Smyth, "Fringe Benefits—On the Move," American Federationist, June 1970, pp. 18–23.

Health and safety

- Berkowitz, Monroe and William G. Johnson, "Towards an Economics of Disability: The Magnitude and Structure of Transfer and Medical Costs," The Journal of Human Resources, Summer 1970, pp. 271-297.
- Cooper, Barbara S., "Medical Care Outlays for Aged and Nonaged Persons, 1966-69," Social Security Bulletin, July 1970, pp. 3-12.
- Sobey, Francine, The Nonprofessional Revalution in Mental Health. New York, Columbia University Press, 1970, 239 pp., bibliography. \$10.

Industrial relations

- Baer, Walter E., Grievance Handling: 101 Guides for Supervisors. New York, American Management Association, Inc., 1970, 289 pp. \$12.50.
- Bilik, Al, "Toward Public Sector Equality: Extending the Strike Privilege," Labor Law Journal, June 1970, pp. 338-356.
- Cook, Alice H., "Public Employee Bargaining in New York City," Industrial Relations: A Journal of Economy & Society, University of California, Institute of Industrial Relations, May 1970, pp. 249-267.
- Derber, Milton, Crosscurrents in Workers Participation. Urbana, University of Illinois, 1970, 14 pp. (Reprint Series 14; from Industrial Relations, February 1970.)
- Derber, Milton, The American Idea of Industrial Democracy, 1865–1965. Urbana, University of Illinois Press, 1970, 553 pp. \$9.50.
- Flanders, Allan, Management and Unions: The Theory and Reform of Industrial Relations. London, Faber and Faber, 1970, 317 pp. £3.50.
- Megginson, Leon C. and C. Ray Gullett, "A Predictive Model of Union-Management Conflict," Personnel Journal, June 1970, pp. 495-503.
- Moskow, Michael H., J. Joseph Loewenberg, and Edward Clifford Koziara, Collective Bargaining in Public Employment. New York, Random House, Inc. 1970, 336 pp., bibliography.
- Werstein, Irving, Strangled Voices: The Story of the Haymarket Affair. New York, Macmillan Co., 1970, 120 pp., bibliography.

Labor force

- Cassell, Frank H. and others, "Equal Employment Opportunity: Comparative Community Experience—A Symposium," Industrial Relations: A Journal of Economy & Society, University of California, Institute of Industrial Relations, May 1970, pp. 277–355.
- Dear, Edward P., "Computer Job Matching Now and Tomorrow," Personnel, May-June 1970, pp. 57-63.
- Gooding, Judson, "Blue-Collar Blues on the Assembly Line," Fortune, July 1970.
- Goodman, Ann S., Estimates and Projections of Specialized Manpower in the U.S.S.R., 1950-75.
 Washington, U.S. Department of Commerce, Bureau of the Census, 1970, 50 pp. (International Population Reports, Series P-91, No. 21.) 55 cents, Superintendent of Documents, Washington.

- Harbison, Frederick H., From Ashby to Reconstruction:
 Manpower and Education in Nigeria. Princeton, N.J.,
 Inter-University Study of Labor Problems in
 Economic Development, 1970, 17 pp. (Reprint from
 Growth and Development of the Nigerian Economy.)
- Howard, John C., The Negro in the Lumber Industry. Philadelphia, University of Pennsylvania, Wharton School of Finance and Commerce, Industrial Research Unit, 1970, 97 pp. (Racial Policies of American Industry, Report 19.) \$4.50, University of Pennsylvania Press, Philadelphia.
- Howard University, Institute for Youth Studies, New Careers for the Disadvantaged in Human Service: Report of a Social Experiment. Washington, U.S. Department of Labor, Manpower Administration, 1970, 269 pp.
- Kirkland, Lane, "Labor in the Changing Community," American Federationist, June 1970, pp. 14-16.
- Losman, Donald L., "The Nature of Appalachian Unemployment," Appalachia, April 1970, pp. 25-27.
- Silberman, Charles G., "Negro Economic Gains—Impressive but Precarious," Fortune, July 1970.
- Tinbergen, J., "Trade Policy and Employment Growth," International Labor Review, May 1970, pp. 435-440.
- U.S. Women's Bureau, Background Facts on Women Workers in the United States. Washington, U.S. Department of Labor, 1970, 20 pp.
- Utter, Carol, "BLS Establishment Employment Estimates Revised to March 1969 Benchmark Levels," *Employ*ment and Earnings, U.S. Bureau of Labor Statistics, June 1970, pp. 11–21.
- Warriner, Doreen, "Problems of Rural-Urban Migration: Some Suggestions for Investigation," *International Labor Review*, May 1970, pp. 441-451.

Labor organizations

- Bain, George Sayers, The Growth of White-Collar Unionism.New York, Oxford University Press, 1970, 233 pp.\$9.
- Curtin, Edward R., White-Collar Unionization. New York, National Industrial Conference Board, 1970, 70 pp. (Personnel Policy Study No. 220.)
- Stanley, David T., "What Are Unions Doing To Merit Systems," Public Personnel Review, April 1970, pp. 108-113.
- U.S. Bureau of Labor Statistics, A Brief History of the American Labor Movement, 1970 Edition. Washington,

1970, 143 pp. (Bulletin 1000.) \$1, Superintendent of Documents, Washington.

Personnel management

- Fulmer, Robert M. and J. M. Hood, "Computerized Human Relations," *Personnel Journal*, June 1970, pp. 513-516, 525.
- Janson, Robert, "Job Enrichment: Challenge of the 70's," Training and Development Journal, June 1970, pp. 7-9.
- Johnson, David B. and James L. Stern, "Blue Collar Workers: A Recruitment Source for White Collar Openings," Personnel Journal, June 1970, pp. 471-477.
- Siegel, Saul M. and Nick J. Colarelli, "'Consulting' Supervision—How it Works and What it Does," Personnel, May-June 1970, pp. 52-56.
- Yoder, Dale, Personnel Management and Industrial Relations. Englewood Cliffs, N.J., Prentice-Hall, Inc., 1970, 784 pp. 6th ed. \$10.95.

Prices and consumption economics

- Houthakker, H. S. and Lester D. Taylor, Consumer Demand in the United States: Analyses and Projections Cambridge, Mass., Harvard University Press, 1970, 321 pp. 2d ed. \$10.
- National Economic Committee (Temporary), Investigation of Concentration of Economic Power: Hearings Before the Temporary National Economic Committee— Part 8, Problems of the Consumer. New York, Arno Press, 1969, pp. 3283-3491. \$10.
- Stigler, George J., and James K. Kindahl, The Behavior of Industrial Prices. New York, National Bureau of Economic Research, 1970, 202 pp. (General Series, 90.) \$7.50, Columbia University Press, New York.

Social security

- Railroad Retirement Board, "Beneficiaries Under the Railroad Unemployment Insurance Act in 1968-69," RRB Quarterly Review, January-March 1970, pp. 15-25.
- Tacker, Herbert R., "Household Employment Under OASDHI, 1951-66," Social Security Bulletin, June 1970, pp. 10-17.

Urban affairs

Banz, George, *Elements of Urban Form*. New York, McGraw-Hill Book Co., 1970, 199 pp., bibliography. \$16.50.

- Preston, Paul, "A Business Role in the Metropolitan Challenge?" Business and Society, Roosevelt University, Spring 1970, pp. 16-19.
- Smith, Wallace F., Housing: The Social and Economic Elements. Berkeley, University of California Press, 1970, 511 pp. \$12.95.
- Toynbee, Arnold, Cities on the Move. New York, Oxford University Press, 1970, 257 pp. \$6.75.
- Wilson, James Q., editor, The Metropolitan Enigma: Inquiries into the Nature and Dimensions of America's "Urban Crisis." Garden City, N.Y., Anchor Books, 1970, 426 pp. \$1.95.

Wages and hours

- U.S. Bureau of Labor Statistics, Area Wage Survey: The Newark and Jersey City, N.J., Metropolitan Area, January 1970. Washington, 1970, 42 pp. (Bulletin 1660-47.) 50 cents, Superintendent of Documents, Washington. Other recent bulletins in this series include the metropolitan areas of Burlington, Vt. (Bulletin 1660-53); Albuquerque, N. Mex. (Bulletin 1660-55); Birmingham, Ala.; Detroit, Mich.; Norfolk-Portsmouth and Newport News-Hampton, Va.; Pittsburgh, Pa.; Charlotte, N.C.; South Bend, Ind.; York, Pa. (Bulletins 1660-57 through 1660-63.) Various pagings and prices.
- Rapawy, Stephen, Wages in the U.S.S.R., 1950-68: Trade. Washington, U.S. Bureau of the Census, 1970, 45 pp. (International Population Reports, Series P-95, No. 67.)
- Rosow, Jerome M., "Government Pay Trends," Conference Board Record, July 1970, pp. 15–22.
- U.S. Bureau of Labor Statistics, Industry Wage Survey: Communications, 1968. Washington, 1970, 14 pp. (Bulletin 1662.) 30 cents, Superintendent of Documents, Washington.
- U.S. Bureau of Labor Statistics, Industry Wage Survey: Wood Household Furniture, Except Upholstered, October 1968. Washington, 1970, 52 pp. (Bulletin 1651.) 60 cents, Superintendent of Documents, Washington.

Miscellaneous

- Alexander, Albert, The Challenge of Economics: A Guide for the Perplexed. New York, Pitman Publishing Corp., 1970, 227 pp., bibliography. \$6.50.
- American Economic Association, "Papers and Proceedings of the Eighty-Second Annual Meeting of the American Economic Association, New York, December 28–30,

- 1969," American Economic Review, May 1970, pp. 1-529.
- Arrow, Kenneth J. and Mordecai Kurz, Public Investment, The Rate of Return, and Optimal Fiscal Policy. Baltimore, Johns Hopkins Press (for Resources for the Future, Inc.), 1970, 218 pp., bibliography. \$9.
- Beck, Robert H., and others, The Changing Structure of Europe: Economic, Social, and Political Trends. Minneapolis, University of Minnesota Press, 1970, 286 pp. \$9.50.
- Benarde, Melvin A., Our Precarious Habitat. New York, W. W. Norton & Co., Inc., 1970, 362 pp., bibliography. \$6.95.
- Boehme, Lillian R., Carte Blanche for Chaos. New Rochelle, N.Y., Arlington House, 1970, 238 pp. \$7.
- Browne, Harry, How You Can Profit from the Coming Devaluation. New Rochelle, N.Y., Arlington House, 1970, 189 pp., bibliography. \$5.95.
- Brundage, Percival F., The Bureau of the Budget. New York, Praeger Publishers, 1970, 327 pp., bibliography. \$10.
- Canada Department of Labor, Legislation Branch, Labor Standards in Canada, December 1969. Ottawa, 1970, 98 pp. 75 cents, Queen's Printer, Ottawa.
- Chandler, Lester V., America's Greatest Depression, 1929–41. New York, Harper & Row, Publishers, 1970, 260 pp., bibliography. \$6.95, cloth; \$4.95, paper.
- Claiborne, Robert, Climate, Man, and History. New York, W. W. Norton & Co., Inc., 1970, 444 pp., bibliography. \$8.95.
- Cole, Rosanne, Errors in Provisional Estimates of Gross National Product. New York, National Bureau of Economic Research, 1970, 109 pp. (Studies in Business Cycles 21.) \$6, Columbia University Press, New York.
- De Greene, Kenyon B., editor, Systems Psychology. New York, McGraw-Hill Book Co., 1970, 593 pp. \$18.50.
- Drucker, Peter, Technology, Management and Society. New York, Harper & Row, Publishers, 1970, 209 pp. \$5.95.
- Dubos, René, Reason Awake: Science for Man. New York, Columbia University Press, 1970, 280 pp., bibliography, \$6.95.
- Demaris, Ovid, Poso del Mundo: Inside the Mexican-American Border, From Tijuana to Matamoros. Boston, Mass., Little, Brown and Co., 1970, 244 pp. \$5.95.

- Friedman, Milton, and Anna Jacobson Schwartz, Monetary Statistics of the United States: Estimates, Sources, Methods. New York, National Bureau of Economic Research, 1970, 629 pp. \$15, Columbia University Press, New York.
- Gill, Richard T., Economics and the Private Interest: An Introduction to Microeconomics. Pacific Palisades, Calif., Goodyear Publishing Co., 1970, 276 pp. \$6.95, cloth; \$4.95, paper.
- Gronau, Reuben, The Value of Time in Passenger Transportation: The Demand for Air Travel. New York, National Bureau of Economic Research, 1970, 74 pp., bibliography. (Occasional Paper 109.) \$4, Columbia University Press, New York.
- Gutterman, Stanley S., The Machiavellians: A Social Psychological Study of Moral Charater and Organizational Milieu. Lincoln, University of Nebraska Press, 1970, 178 pp., bibliography. \$9.50.
- Hacker, Andrew, *The End of the American Era*. New York, Atheneum, 1970, 239 pp. \$6.50.
- Haveman, Robert H. and Julius Margolis, editors, Public Expenditures and Policy Analysis. Chicago, Markham Publishing Co., 1970, 596 pp. \$9.50, cloth; \$6.50, paper.
- Higbee, Edward, A Question of Priorities: New Strategies for Our Urbanized World. New York, William Morrow and Co., Inc., 1970, 214 pp. \$6.
- Karrass, Chester L., The Negotiating Game. New York, World Publishing Co., 1970, 243 pp. \$6.95.
- Kindleberger, Charles P., Power and Money: The Economics of International Politics and the Politics of International Economics. New York, Basic Books Inc., 1970, 246 pp. \$6.95.
- King-Hele, Desmond, The End of the Twentieth Century? New York, St Martin's Press, 1970, 206 pp., bibliography. \$5.95.
- Kriesberg, Louis, Mothers in Poverty: A Study of Fatherless Families. Chicago, Aldine Publishing Co., 1970, 356 pp. \$9.75.
- Lloyd, T. O., Empire to Welfare State: English History, 1906-67. New York, Oxford University Press, 1970, 465 pp.
- Meyer, Richard Hennig, Bankers' Diplomacy: Monetary Stabilization in the Twenties. New York, Columbia University Press, 1970, 170 pp., bibliography. (Columbia Studies in Economics 4.) \$8.

- Miller, James R., III, Professional Decision-Making: A Procedure for Evaluating Complex Alternatives. New York, Praeger Publishers, 1970, 305 pp. \$12.50.
- Myrdal, Gunnar, The Challenge of World Poverty: A World Anti-Poverty Program in Outline. New York, Pantheon Books, 1970, 518 pp. \$8.95.
- Reddin, William J., Managerial Effectiveness. New York, McGraw-Hill Book Co., 1970, 352 pp., bibliography. \$9.95.
- Servin, Manuel P., The Mexican-Americans: An Awakening Minority. Beverly Hills, Calif., Glencoe Press, 1970, 235 pp. \$2.25, paper.

- Sharpe, William F., Portfolio Theory and Capital Markets. New York, McGraw-Hill Book Co., 1970, 316 pp., bibliography. \$12.95.
- Skolnick, Jerome H. and Elliott Currie, editors, *Crisis in American Institutions*. Boston, Little, Brown and Co., 1970, 483 pp. \$4.95.
- Will, Robert E. and Harold G. Vatter, editors, Poverty in Affluence: The Social, Political, and Economic Dimensions of Poverty in the United States. New York, Harcourt, Brace & World, Inc., 1970, 243 pp. 2d ed. \$3.50.
- Williams, C. Glyn, Labor Economics. New York, John Wiley & Sons, Inc., 1970, 489 pp.

Current Labor Statistics



| Em | ployment and unemployment—nousehold data | |
|-----|---|-----|
| 1. | Employment status of noninstitutional population, 1947 to date | 80 |
| 2. | Employment status, by color, sex, and age, seasonally adjusted, quarterly averages | 80 |
| 3. | | 81 |
| 4. | | 81 |
| 5. | | 82 |
| 6. | | 82 |
| 7. | Unemployment rates, by age and sex, seasonally adjusted | 83 |
| 8. | | 84 |
| 9. | Duration of unemployment, seasonally adjusted | 84 |
| 10. | Unemployment insurance and employment services | 85 |
| No | nagricultural employment—payroll data | |
| 11. | Employment by industry, 1947 to date | 86 |
| 12. | | 86 |
| 13. | Employment by industry division and major manufacturing group | 87 |
| 14. | Employment by industry division and major manufacturing group, seasonally adjusted | 88 |
| Lab | por turnover rates | |
| 15. | Labor turnover in manufacturing, 1959 to date | 89 |
| | Labor turnover in manufacturing, by major industry group | 90 |
| Ho | urs and earnings—private nonagricultural payrolls | |
| 17. | | 91 |
| 18. | Weekly hours, by industry division and major manufacturing group | 92 |
| 19. | Weekly hours, by industry division and major manufacturing group, seasonally adjusted | 93 |
| | Hourly earnings, by industry division and major manufacturing group | 94 |
| 21. | Weekly earnings, by industry division and major manufacturing group | 95 |
| 22. | Spendable weekly earnings in current and 1957–59 dollars | 96 |
| Pri | ces | |
| 23. | Consumer and Wholesale Price Indexes, 1949 to date | 96 |
| | Consumer Price Index, general summary and selected items | 97 |
| 25. | Consumer Price Index, selected areas | 103 |
| 26. | Wholesale Price Index, by group and subgroup of commodities | 104 |
| 27. | Wholesale Price Index, for special commodity groupings | 106 |
| 28. | Wholesale Price Index, by stage of processing | 107 |
| 29. | Wholesale Price Index, by durability of product | 108 |
| 30. | Industry-sector price index for output of selected industries | 108 |
| Lab | por-management disputes | |
| 31. | Work stoppages and time lost | 110 |
| Pro | oductivity | |
| 32. | Indexes of output per man-hour, hourly compensation, and unit labor costs | 111 |
| Sch | nedule of release dates for major BLS statistical series | 117 |

1. Employment status of the noninstitutional population, 16 years and over, 1947 to date

[In thousands]

| | | Total la | bor force | | | Ci | vilian labor for | ce | | |
|------------------------------|--|---|---|---|---|--|---|---|--------------------------------------|---|
| Year | Total non- institutional | | | | | Employed | | Unem | ployed | |
| | population | Number | Percent of population | Total | Total | Agriculture | Nonagri- cultural industries | Number | Percent of labor force | Not in labor force |
| 1947 | 103, 418 | 60, 941 | 58. 9 | 59, 350 | 57, 039 | 7, 891 | 49, 148 | 2, 311 | 3. 9 | 42, 47 |
| 1948 | 104, 527 | 62, 080 | 59. 4 | 60, 621 | 58, 344 | 7, 629 | 50, 713 | 2, 276 | 3. 8 | 42, 44 |
| 1949 | 105, 611 | 62, 903 | 59. 6 | 61,286 | 57, 649 | 7,656 | 49, 990 | 3,637 | 5. 9 | 42,70 |
| 1950 | 106, 645 | 63, 858 | 59. 9 | 62,208 | 58, 920 | 7,160 | 51, 760 | 3,288 | 5. 3 | 42,78 |
| 1951 | 107, 721 | 65, 117 | 60. 4 | 62,017 | 59, 962 | 6,726 | 53, 239 | 2,055 | 3. 3 | 42,60 |
| 1952 | 108, 823 | 65, 730 | 60. 4 | 62,138 | 60, 254 | 6,501 | 53, 753 | 1,883 | 3. 0 | 43,09 |
| 1953 | 110, 601 | 66, 560 | 60. 2 | 63,015 | 61, 181 | 6,261 | 54, 922 | 1,834 | 2. 9 | 44,04 |
| 1954 | 111, 671 | 66,993 | 60. 0 | 63,643 | 60, 110 | 6, 206 | 53,903 | 3, 532 | 5. 5 | 44, 678 |
| 1955 | 112, 732 | 68,072 | 60. 4 | 65,023 | 62, 171 | 6, 449 | 55,724 | 2, 852 | 4. 4 | 44, 666 |
| 1956 | 113, 811 | 69,409 | 61. 0 | 66,552 | 63, 802 | 6, 283 | 57,517 | 2, 750 | 4. 1 | 44, 402 |
| 1957 | 115, 065 | 69,729 | 60. 6 | 66,929 | 64, 071 | 5, 947 | 58,123 | 2, 859 | 4. 3 | 45, 330 |
| 1957 | 116, 363 | 70,275 | 60. 4 | 67,639 | 63, 036 | 5, 586 | 57,450 | 4, 602 | 6. 8 | 46, 088 |
| 1959 1960 1961 1962 | 117, 881 119, 759 121, 343 122, 981 125, 154 | 70, 921 72, 142 73, 031 73, 442 74, 571 | 60. 2 60. 2 60. 2 59. 7 59. 6 | 68, 369 69, 628 70, 459 70, 614 71, 833 | 64, 630 65, 778 65, 746 66, 702 67, 762 | 5, 565 5, 458 5, 200 4, 944 4, 687 | 59, 065 60, 318 60, 546 61, 759 63, 076 | 3.740 3,852 4,714 3,911 4,070 | 5. 5 5. 5 6. 7 5. 5 5. 7 | 46, 960 47, 617 48, 317 49, 539 50, 583 |
| 1964 | 127, 224 | 75, 830 | 59. 6 | 73, 091 | 69, 305 | 4, 523 | 64, 782 | 3,786 | 5. 2 | 51, 394 |
| | 129, 236 | 77, 178 | 59. 7 | 74, 455 | 71, 088 | 4, 361 | 66, 726 | 3,366 | 4. 5 | 52, 058 |
| | 131, 180 | 78, 893 | 60. 1 | 75, 770 | 72, 895 | 3, 979 | 68, 915 | 2,875 | 3. 8 | 52, 288 |
| | 133, 319 | 80, 793 | 60. 6 | 77, 347 | 74, 372 | 3, 844 | 70, 527 | 2,975 | 3. 8 | 52, 527 |
| | 135, 562 | 82, 272 | 60. 7 | 78, 737 | 75, 920 | 3, 817 | 72, 103 | 2,817 | 3. 6 | 53, 291 |
| | 137, 841 | 84, 239 | 61. 1 | 80, 733 | 77, 902 | 3, 606 | 74, 296 | 2,831 | 3. 5 | 53, 602 |

2. Employment status, by color, sex and age, seasonally adjusted, quarterly averages

[In thousands]

| Characteristic | 1 | 970 | | 19 | 969 | | | 1 | 968 | | | 1967 | | Annual | average |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2d | 1st | 4th | 3d | 2d | 1st | 4th | 3d | 2d | 1st | 4th | 3d | 2d | 1969 | 1968 |
| WHITE | | | | | | | | | | | | | | | |
| Civilian labor force Men, 20 years and over Women, 20 years and over Both sexes, 16–19 years | 24. 378 | 42, 245 | 41,956 | 71, 942 41, 842 23, 949 6, 151 | 71, 466 41, 639 23, 684 6, 143 | 71, 285 41, 656 23, 566 6, 036 | 70, 392 41, 423 23, 122 5, 847 | 70, 045 41, 373 22, 843 5, 829 | 69, 851 41, 235 22, 741 5, 875 | 69, 587 41, 230 22, 565 5, 792 | 69, 440 41, 175 22, 632 5, 633 | 68, 944 40, 972 22, 276 5, 696 | 68, 210 40, 673 21, 775 5, 762 | 71,778 41,772 23,838 6,168 | 69, 975 41, 317 22, 820 5, 838 |
| Employed Men, 20 years and over Women, 20 years and over Both sexes, 16–19 years | 70, 059 41, 131 23, 347 5, 581 | 70, 527 41, 180 23, 587 5, 760 | 70, 096 41, 091 23, 327 5, 678 | 69, 575 40, 995 23, 120 5, 460 | 69, 260 40, 871 22, 891 5, 498 | 69, 135 40, 926 22, 794 5, 415 | 68, 267 40, 677 22, 372 5, 218 | 67, 804 40, 553 22, 066 5, 185 | 67, 617 40, 405 21, 987 5, 225 | 67, 311 40, 376 21, 777 5, 158 | 67, 032 40, 300 21, 766 4, 966 | 66, 576 40, 101 21, 416 5, 059 | 65, 888 39, 772 20, 963 5, 153 | 69, 518 40, 978 23, 032 5, 508 | 67, 750 40, 503 22, 052 5, 195 |
| Unemployed | 1, 332 | 2, 789 1, 065 926 798 | 2, 379 865 829 685 | 2, 367 847 829 691 | 2, 206 768 793 645 | 2, 150 730 772 648 | 2, 125 746 750 629 | 2, 241 820 777 644 | 2, 234 830 754 650 | 2, 276 854 788 634 | 2, 408 875 866 667 | 2, 368 871 860 637 | 2, 322 901 812 609 | 2, 260 794 806 660 | 2, 225 814 768 643 |
| Unemployment rate Men, 20 years and over Women, 20 years and over Both sexes, 16–19 years | 3.1 | 3. 8 2. 5 3. 8 12. 2 | 3. 3 2. 1 3. 4 10. 8 | 3.3 2.0 3.5 11.2 | 3. 1 1. 8 3. 3 10. 5 | 3. 0 1. 8 3. 3 10. 7 | 3. 0 1. 8 3. 2 10. 8 | 3. 2 2. 0 3. 4 11. 0 | 3. 2 2. 0 3. 3 11. 1 | 3. 3 2. 1 3. 5 10. 9 | 3. 5 2. 1 3. 8 11. 8 | 3. 4 2. 1 3. 9 11. 2 | 3. 4 2. 2 3. 7 10. 6 | 3. 1 1. 9 3. 4 10. 7 | 3. 2 2. 0 3. 4 11. 0 |
| NEGRO AND OTHER | | | | | | | | | - | | | | | | |
| Civilian labor force Men, 20 years and over Women, 20 years and over Both sexes, 16–19 years | 9, 226 4, 706 3, 688 832 | 9, 224 4, 700 3, 682 842 | 9,056 4,622 3,616 818 | 8, 979 4, 593 3, 595 791 | 8, 867 4, 549 3, 535 783 | 8, 914 4, 554 3, 550 810 | 8,737 4,513 3,468 756 | 8,700 4,517 3,414 769 | 8, 828 4, 562 3, 467 799 | 8, 762 4, 543 3, 433 786 | 8,733 4,496 3,444 793 | 8, 632 4, 507 3, 348 777 | 8,632 4,505 3,347 780 | 8, 954 4, 579 3, 574 801 | 8, 759 4, 535 3, 446 778 |
| Employed Men, 20 years and over Women, 20 years and over_ Both sexes, 16–19 years | 1 131 | 8, 598 4, 498 3, 468 632 | 8,500 4,445 3,429 626 | 8, 394 4, 416 3, 372 606 | 8, 271 4, 382 3, 307 582 | 8, 371 4, 397 3, 352 622 | 8, 164 4, 335 3, 264 565 | 8, 132 4, 349 3, 205 578 | 8, 233 4, 388 3, 246 599 | 8, 147 4, 351 3, 200 596 | 8,073 4,305 3,191 577 | 8,006 4,328 3,112 566 | 7, 986 4, 303 3, 115 568 | 8, 384 4, 410 3, 365 609 | 8, 169 4, 356 3, 229 584 |
| Unemployed | 779 272 272 235 | 626 201 215 210 | 556 177 187 192 | 585 177 223 185 | 596 167 228 201 | 543 157 198 188 | 573 178 204 191 | 568 168 209 191 | 595 174 221 200 | 615 192 233 190 | 660 191 253 216 | 626 179 236 211 | 646 202 232 212 | 570 169 209 192 | 590 179 217 194 |
| Unemployment rate Men, 20 years and over Women, 20 years and over Both sexes, 16–19 years | 8. 4 5. 8 7. 4 28. 2 | 6. 8 4. 3 5. 8 24. 9 | 6. 1 3. 8 5. 2 23. 5 | 6. 5 3. 9 6. 2 23. 4 | 6.7 3.7 6.4 25.7 | 6. 1 3. 4 5. 6 23. 2 | 6. 6 3. 9 5. 9 25. 3 | 6. 5 3. 7 6. 1 24. 8 | 6.7 3.8 6.4 25.0 | 7. 0 4. 2 6. 8 24. 2 | 7.6 4.2 7.3 27.2 | 7.3 4.0 7.0 27.2 | 7. 5 4. 5 6. 9 27. 2 | 6. 4 3. 7 5. 8 24. 0 | 6.7 3.9 6.3 24.9 |

¹ These data have been adjusted to reflect the experience through December 1969. For a discussion of seasonal adjustment procedures and the historical seasonally

adjusted series, see the February 1970 issue of Employment and Earnings.

3. Full- and part-time status of the civilian labor force

[In thousands—not seasonally adjusted]

| Employment status | | | | 1970 | | | | | | 1 | 969 | | | Annual | average |
|---|--------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|
| Employment status | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 | 1968 |
| FULL TIME | | | | | | | | | | | | | | | |
| Civilian labor force | 74, 884 | 73, 555 | 69, 383 | 69, 255 | 69, 116 | 69, 018 | 68, 869 | 69, 204 | 69, 296 | 69, 491 | 70, 350 | 73,713 | 73, 514 | 69,700 | 68, 33 |
| Employed: Full-time schedules 1 Part-time for economic | 68, 044 | 66, 779 | 64, 413 | 64, 166 | 64, 108 | 63, 997 | 64, 155 | 65, 302 | 65, 517 | 65, 594 | 66, 206 | 68, 854 | 68, 471 | 65, 503 | 64, 225 |
| reasons | 3, 088 | 2, 831 | 2, 128 | 2, 301 | 2, 139 | 2, 117 | 2, 135 | 1,998 | 1,916 | 1,955 | 2, 069 | 2,607 | 2, 456 | 2, 055 | 1,970 |
| Unemployed, looking for full- time work Unemployment rate | 3, 753 50 | 3, 945 5. 4 | 2, 842 4. 1 | 2, 787 4. 0 | 2, 869 4. 2 | 2, 904 4. 2 | 2, 579 3. 7 | 1,904 2.8 | 1, 864 2. 7 | 1, 942 2. 8 | 2, 075 2. 9 | 2, 251 3. 1 | 2, 587 3. 5 | 2, 142 3. 1 | 2, 138 |
| PART TIME | | | | | | | * | | | | | | | | |
| Civilian labor force | 9, 917 | 10, 496 | 12, 358 | 12,706 | 12, 574 | 12, 266 | 11, 850 | 12, 212 | 12, 131 | 12,019 | 10,634 | 8,803 | 9, 283 | 11, 032 | 10, 405 |
| Employed (voluntary part- time) | 9, 159 | 9,772 | 11, 816 | 11,940 | 11,711 | 11, 375 | 11, 023 | 11, 488 | 11, 284 | 11, 122 | 9,751 | 8, 185 | 8, 688 | 10, 343 | 9,726 |
| Unemployed, looking for part- time work Unemployment rate | 757 7. 6 | 724 6. 9 | 542 4. 4 | 765 6. 0 | 863 6. 9 | 890 7.3 | 827 7. 0 | 724 5. 9 | 847 7. 0 | 898 7. 5 | 883 8. 3 | 618 7. 0 | 594 6. 4 | 689 6. 2 | 679 6. 5 |

¹ Employed persons with a job but not at work are distributed proportionately among the full- and part-time employed categories.

4. Employment and unemployment, by age and sex, seasonally adjusted ¹

[In thousands]

| Employment status | | | | 1970 | | | | | | 19 | 969 | | | Annual | average |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Employment status | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 | 1968 |
| TOTAL | | | | | | | | | | | | | | | |
| Total labor force | 85, 967 | 85, 304 | 85, 783 | 86, 143 | 86, 087 | 85, 590 | 85, 599 | 85, 023 | 84, 872 | 85, 051 | 84, 868 | 84, 517 | 84, 310 | 84, 239 | 82, 272 |
| Civilian labor force | 82, 813 78, 638 3, 519 75, 119 4, 175 | 82, 125 78, 225 3, 554 74, 671 3, 900 | 82, 555 78, 449 3, 613 74, 836 4, 106 | 82, 872 78, 924 3, 586 75, 338 3, 948 | 82, 769 79, 112 3, 550 75, 562 3, 657 | 82, 249 78, 822 3, 499 75, 323 3, 427 | 82, 213 79, 041 3, 426 75, 615 3, 172 | 81, 583 78, 737 3, 435 75, 302 2, 846 | 81, 379 78, 528 3, 434 75, 094 2, 851 | 81, 523 78, 445 3, 446 74, 999 3, 078 | 81, 325 78, 194 3, 498 74, 696 3, 131 | 80, 987 78, 142 3, 614 74, 528 2, 845 | 80, 789 77, 931 3, 561 74, 370 2, 858 | 80, 733 77, 902 3, 606 74, 296 2, 831 | 78, 737 75, 920 3, 817 72, 103 2, 817 |
| MEN 20 YEARS AND OVER Total labor force | 50, 024 | 49,906 | 50, 020 | 50, 032 | 49, 920 | 49,707 | 49, 736 | 49, 534 | 49, 544 | 49, 642 | 49, 642 | 49, 488 | 49, 405 | 49, 406 | 48, 834 |
| Civilian labor force. Employed. Agriculture. Nonagriculture. Unemployed. | 47, 294 45, 524 2, 593 42, 931 1, 770 | 47, 154 45, 521 2, 603 42, 918 1, 633 | 47, 226 45, 593 2, 625 42, 968 1, 633 | 47, 199 45, 667 2, 602 43, 065 1, 532 | 47, 060 45, 709 2, 537 43, 172 1, 351 | 46, 836 45, 534 2, 479 43, 055 1, 302 | 46, 826 45, 674 2, 473 43, 201 1, 152 | 46, 578 45, 553 2, 499 43, 054 1, 025 | 46, 531 45, 533 2, 482 43, 051 998 | 46, 599 45, 511 2, 575 42, 936 1, 088 | 46, 586 45, 465 2, 593 42, 872 1, 121 | 46, 443 45, 485 2, 670 42, 815 958 | 46, 338 45, 335 2, 646 42, 689 1, 003 | 46, 351 45, 388 2, 636 42, 752 963 | 45, 852 44, 859 2, 816 42, 043 993 |
| WOMEN, 20 YEARS AND OVER Civilian labor force | 28, 500 | 28, 026 | 27, 885 | 28, 274 | 28, 295 | 28, 066 | 28, 073 | 27, 875 | 27, 671 | 27,767 | 27, 634 | 27, 664 | 27, 524 | 27, 413 | 26, 266 |
| Employed | 27, 073 545 26, 528 1, 427 | 26, 772 573 26, 199 1, 254 | 26, 476 567 25, 909 1, 409 | 27, 022 571 26, 451 1, 252 | 27, 016 583 26, 433 1, 279 | 26, 925 630 26, 295 1, 114 | 27, 060 586 26, 474 1, 013 | 26, 897 585 26, 312 978 | 26, 663 555 26, 108 1, 008 | 26, 699 554 26, 145 1, 068 | 26, 543 535 26, 008 1, 091 | 26 626 582 26, 044 1, 038 | 26, 512 547 25, 965 1, 012 | 26, 397 593 25, 804 1, 015 | 25, 281 606 24, 675 985 |
| BOTH SEXES, 16–19 YEARS Civilian labor force | 7, 019 | 6, 945 | 7, 444 | 7, 399 | 7, 414 | 7, 347 | 7,314 | 7,130 | 7, 177 | 7, 157 | 7,105 | 6,880 | 6, 927 | 6,970 | 6, 618 |
| Employed | 6, 041 381 5, 660 978 | 5, 932 378 5, 554 1, 013 | 6, 380 421 5, 959 1, 064 | 6, 235 413 5, 822 1, 164 | 6, 387 430 5, 957 1, 027 | 6, 363 390 5, 973 984 | 6, 307 367 5, 940 1, 007 | 6, 287 351 5, 936 843 | 6, 332 397 5, 935 845 | 6, 235 317 5, 918 922 | 6, 186 370 5, 816 919 | 6, 031 362 5, 669 849 | 6, 084 368 5, 716 843 | 6, 117 377 5, 739 853 | 5, 780 394 5, 385 839 |

¹ These data have been adjusted to reflect the experience through December 1969. For a discussion of seasonal adjustment procedures and the historical seasonally

adjusted series, see the February 1970 issue of Employment and Earnings.

5. Employment totals, by occupation, with unemployment rates, seasonally adjusted,1 quarterly averages

| Characteristic | 19 | 970 | | 19 | 69 | | | 19 | 968 | | | 1967 | | Annual | average |
|---|---|---|---|---|---|-----------------------------|---|--|---|--|--|--|--|---|-------------------------------------|
| And arterions | 2d | 1st | 4th | 3d | 2d | 1st | 4th | 3d | 2d | 1st | 4th | 3d | 2d | 1969 | 1968 |
| EMPLOYMENT (in thousands) | 78, 533 | 78, 992 | 78, 570 | 78, 090 | 77, 550 | 77, 418 | 76, 409 | 76,017 | 75, 898 | 75, 392 | 75, 121 | 74,630 | 73, 911 | 77, 902 | 75, 92 |
| White-collar workers Professional and technical | 37, 981 11, 129 | 37, 938 11, 026 | 37, 509 10, 936 | 36, 923 10, 764 | 36, 677 10, 740 | 36, 264 10, 638 | 35, 906 10, 473 | 35, 732 10, 392 | 35, 419 10, 295 | 35, 140 10, 142 | | 34, 456 9, 952 | 33, 943 9, 761 | 36, 845 10, 769 | 35, 55 10, 32 |
| Managers, officials, and proprietors | 8, 290 13, 748 4, 815 | 8, 215 13, 906 4, 791 | 8, 141 13, 655 4, 777 | 7,970 13,478 4,711 | 7,993 13,281 4,663 | 7, 841 13, 171 4, 614 | 7,897 12,876 4,660 | 7, 827 12, 823 4, 690 | 7,661 12,816 4,647 | 7,716 12,694 4,588 | 7,633 12,624 4,564 | 7,630 12,343 4,531 | 7, 453 12, 250 4, 479 | 7, 987 13, 397 4, 692 | 7,777 12,80 4,64 |
| Blue-collar workers | 27, 663 10, 109 13, 891 3, 663 | 28, 236 10, 264 14, 168 3, 804 | 28, 389 10, 265 14, 412 3, 712 | 28, 425 10, 174 14, 589 3, 662 | 27, 931 10, 044 14, 208 3, 679 | 10, 298 | 27, 774 10, 147 14, 051 3, 576 | 27, 491 9, 972 13, 911 3, 608 | 27, 513 10, 003 13, 956 3, 554 | 27, 297 9, 936 13, 896 3, 465 | 27, 279 9, 827 13, 918 3, 534 | 27, 343 9, 790 13, 999 3, 554 | 27, 175 9, 853 13, 787 3, 535 | 28, 237 10, 193 14, 372 3, 672 | 27, 52 10, 01 13, 95 3, 55 |
| Service workers | | 9, 673 | 9, 589 | 9, 493 | 9,467 | 9,558 | 9,411 | 9, 385 | 9,395 | 9, 337 | 9,330 | 9, 277 | 9,276 | 9, 528 | 9,38 |
| Farmworkers | 3, 234 | 3, 153 | 3,089 | 3, 231 | 3, 417 | 3,438 | 3,346 | 3,400 | 3, 507 | 3,649 | 3,654 | 3, 556 | 3,448 | 3, 292 | 3, 46 |
| Unemployment rate | 4.8 | 4.1 | 3.6 | 3.6 | 3.5 | 3.4 | 3.4 | 3.6 | 3.6 | 3.7 | 3.9 | 3.9 | 3.9 | 3.5 | 3. |
| White-collar workersProfessional and technical | | 2.4 1.9 | 2. 2 1. 5 | 2. 2 1. 4 | 2. 0 1. 3 | 2. 0 1. 1 | 1.9 1.2 | 2. 0 1. 3 | 2. 0 1. 2 | 2. 0 1. 2 | 2.2 | 2.2 | 2. 0 1. 4 | 2. 1 1. 3 | 2. |
| Managers, officials, and proprietors Clerical workers Sales workers | 1.3 4.0 4.0 | | .9 3.2 2.8 | 1. 0 3. 2 3. 0 | .9 2.8 2.9 | . 9 2. 9 2. 9 | 1. 0 2. 8 2. 8 | 1.1 2.9 2.6 | 3.0 2.7 | 3.1 3.0 | 1. 0 3. 4 3. 2 | . 9 3. 3 3. 6 | 2.8 2.9 | 3. 0 2. 9 | 1. 3. 2. |
| Blue-collar workers | 6.0 | 2.6 | 5.0 | 4. 0 2. 2 4. 4 7. 2 | 3.8 2.1 4.3 6.5 | 3.7 2.1 4.1 6.4 | 3.8 2.2 4.3 6.7 | 4. 2 2. 4 4. 5 7. 4 | 4. 0 2. 4 4. 3 7. 0 | 4. 4 2. 5 4. 8 7. 7 | 4. 5 2. 5 5. 1 7. 8 | 4. 5 2. 3 5. 1 7. 6 | 4. 6 2. 8 5. 0 8. 0 | 3.9 2.2 4.4 6.7 | 4. 2. 4. 7. |
| Serviceworkers | 1 3 3 | 4.7 | 3.9 | 4.5 | 4.4 | 4.0 | 4.3 | 4.5 | 4.6 | 4.3 | 4.9 | 4. 5 | 4. 2 | 4.2 | 4. |
| Farmworkers | 2.5 | 2.1 | 1.8 | 2.2 | 1.9 | 1.6 | 1.6 | 2.4 | 2.3 | 1.9 | 2.3 | 2.4 | 2.4 | 1.9 | 2. |

¹ These data have been adjusted to reflect the experience through December 1969. For a discussion of a seasonal adjustment procedures and the historical seasonally

adjusted series, see the February 1970 issue of Employment and Earnings.

6. Unemployed persons, by reason for unemployment

[In thousands—not seasonally adjusted]

| Reason for unemployment, | | | | 1970 | | | | | | 190 | 69 | | | Annual | average |
|--|------------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| age, and sex | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 | 1968 |
| Total, 16 years and over | 4, 510 | 4,669 | 3, 384 | 3, 552 | 3,733 | 3,794 | 3, 406 | 2,628 | 2,710 | 2, 839 | 2, 958 | 2,869 | 3, 182 | 2, 831 | 2, 817 |
| Lost last job | 1,778 635 1,342 756 | 1,598 565 1,567 939 | 1, 658 447 944 333 | 1,669 507 1,001 375 | 1,797 441 1,143 351 | 1,787 473 1,158 377 | 1,595 485 999 328 | 1, 133 378 825 292 | 939 421 1,011 339 | 882 451 1,093 414 | 823 586 1, 105 445 | 894 507 997 471 | 979 459 1,010 734 | 1,017 436 965 413 | 1,070 431 909 407 |
| Male, 20 years and over | 1,667 | 1,584 | 1,403 | 1,498 | 1,606 | 1,678 | 1,456 | 1,052 | 909 | 906 | 914 | 888 | 945 | 963 | 993 |
| Lost last job Left last job Reentered labor force Never worked before | 1, 013 230 368 56 | 911 206 413 55 | 942 170 251 40 | 988 214 261 34 | 1, 059 200 312 35 | 1, 144 185 310 39 | 997 197 230 32 | 693 150 188 20 | 524 141 226 18 | 458 141 267 40 | 440 209 235 30 | 469 192 200 24 | 534 170 195 46 | 556 164 216 27 | 599 167 205 22 |
| Female, 20 years and over | 1,391 | 1,302 | 1, 205 | 1, 171 | 1, 264 | 1,238 | 1,086 | 840 | 994 | 1,097 | 1,202 | 1,119 | 987 | 1,015 | 985 |
| Lost last job | 574 256 500 62 | 540 192 473 97 | 562 174 435 34 | 497 188 439 47 | 542 156 530 36 | 451 200 529 58 | 418 177 437 54 | 303 138 354 46 | 309 183 457 45 | 314 209 501 72 | 288 237 596 81 | 310 196 549 64 | 307 184 434 62 | 335 171 455 55 | 341 167 422 55 |
| Both sexes, 16 to 19 years | 1, 451 | 1,783 | 776 | 883 | 863 | 878 | 864 | 736 | 807 | 836 | 842 | 865 | 1,250 | 853 | 839 |
| Lost last job Left last job Reentered labor force Never worked before | 191 149 474 638 | 147 167 682 786 | 155 103 259 259 | 184 104 301 293 | 196 85 302 280 | 192 88 319 280 | 180 111 331 241 | 137 90 283 226 | 106 97 328 276 | 110 101 324 301 | 95 140 274 334 | 115 119 248 383 | 138 105 380 627 | 126 101 294 331 | 130 97 281 330 |

7. Unemployment rates, by age and sex, seasonally adjusted 1

| Age and sex | | | | 1970 | | | | | | 19 | 69 | | | Annual | average |
|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 | 1968 |
| TOTAL | | | | | | | | | | | | | | | |
| 16 years and over | 5. 0 | 4.7 | 5.0 | 4.8 | 4.4 | 4.2 | 3.9 | 3.5 | 3. 5 | 3.8 | 3.8 | 3.5 | 3.5 | 3.5 | 3. (|
| 16 to 19 years 16 and 17 years 18 and 19 years | 13. 9 15. 2 13. 2 | 14.6 16.0 13.3 | 14. 3 15. 6 13. 8 | 15. 7 18. 7 13. 8 | 13. 9 15. 7 12. 4 | 13. 4 16. 3 11. 7 | 13. 8 17. 2 11. 6 | 11. 8 13. 7 10. 2 | 11.8 14.3 9.2 | 12. 9 16. 5 10. 4 | 12. 9 16. 1 10. 6 | 12. 3 15. 8 9. 8 | 12. 2 14. 6 10. 3 | 12. 2 14. 5 10. 5 | 12. 7 14. 7 11. 2 |
| 20 to 24 years 25 years and over 25 to 54 years 55 years and over | 8. 6 3. 5 3. 7 2. 9 | 7. 4 3. 2 3. 3 3. 0 | 8.1 3.3 3.4 3.3 | 7.7 3.1 3.2 2.8 | 6. 8 3. 0 3. 1 2. 7 | 7. 3 2. 6 2. 7 2. 4 | 6. 1 2. 4 2. 5 2. 0 | 5. 8 2. 2 2. 3 2. 1 | 5. 8 2. 2 2. 1 1. 9 | 6. 4 2. 4 2. 4 2. 3 | 6. 5 2. 4 2. 5 2. 2 | 5. 4 2. 3 2. 3 2. 0 | 5. 8 2. 3 2. 3 2. 0 | 5. 7 2. 2 2. 3 2. 0 | 5. 8 2. 3 2. 3 2. 2 |
| MALE | | | | | | | | | | | | | | | |
| 16 years and over | 4.5 | 4.3 | 4.4 | 4.2 | 3.6 | 3.6 | 3.3 | 2.9 | 2.9 | 3.1 | 3.2 | 2.8 | 2.9 | 2.8 | 2. 9 |
| 16 to 19 years 16 and 17 years 18 and 19 years | 14. 1 15. 2 13. 6 | 14. 8 16. 6 13. 2 | 15. 0 16. 4 14. 6 | 15. 2 17. 2 13. 9 | 12.5 14.6 10.8 | 13. 0 15. 4 11. 0 | 12. 6 14. 9 10. 8 | 11. 0 13. 1 9. 3 | 11. 7 13. 7 8. 9 | 11.8 14.4 9.6 | 12. 0 15. 0 9. 4 | 11. 3 15. 5 7. 8 | 11.8 14.4 9.7 | 11. 4 13. 7 9. 3 | 11. 6 13. 9 9. 6 |
| 20 to 24 years 25 years and over 25 to 54 years 55 years and over | 9. 1 3. 0 3. 0 2. 8 | 7. 2 2. 9 2. 9 2. 8 | 7.7 2.9 2.8 3.1 | 7. 9 2. 6 2. 6 2. 8 | 6. 4 2. 4 2. 3 2. 8 | 6. 9 2. 2 2. 1 2. 4 | 6. 1 2. 0 2. 0 2. 1 | 5. 5 1. 8 1. 7 2. 2 | 5. 3 1. 7 1. 4 1. 9 | 6. 3 1. 9 1. 8 2. 2 | 6. 4 1. 8 1. 8 2. 0 | 4. 5 1. 7 1. 6 2. 0 | 5. 3 1. 7 1. 7 1. 9 | 5. 1 1. 7 1. 6 1. 9 | 5. 1 1. 8 1. 7 2. 1 |
| FEMALE | | | | | | | | | | | | | | | |
| 16 years and over | 5. 9 | 5.5 | 5.9 | 5. 7 | 5.7 | 5.1 | 4.8 | 4.5 | 4.5 | 4.9 | 5. 0 | 4.8 | 4.6 | 4.7 | 4. 8 |
| 16 to 19 years 16 and 17 years 18 and 19 years | 13. 7 15. 1 12. 7 | 14.3 15.3 13.4 | 13. 4 14. 6 12. 9 | 16. 4 20. 6 13. 7 | 15.6 17.0 14.3 | 13.9 17.3 12.7 | 15. 2 20. 3 12. 4 | 12. 8 14. 7 11. 2 | 11. 9 15. 0 9. 6 | 14. 2 19. 2 11. 3 | 14. 2 17. 7 12. 0 | 13.6 16.2 12.0 | 12.7 14.8 11.0 | 13. 3 15. 5 11. 8 | 14. 0 15. 9 12. 8 |
| 20 to 24 years 25 years and over 25 to 54 years 55 years and over | 8. 1 4. 5 4. 8 3. 1 | 7.7 3.8 4.1 3.2 | 8. 7 4. 2 4. 3 3. 6 | 7. 5 3. 8 4. 2 2. 7 | 7. 2 4. 0 4. 4 2. 5 | 7. 6 3. 3 3. 6 2. 3 | 6. 2 3. 0 3. 3 1. 7 | 6. 1 3. 0 3. 3 1. 9 | 6. 5 3. 1 3. 4 2. 0 | 6. 5 3. 4 3. 6 2. 5 | 6. 6 3. 4 3. 7 2. 5 | 6. 3 3. 3 3. 6 2. 1 | 6. 3 3. 2 3. 5 2. 3 | 6. 3 3. 2 3. 5 2. 2 | 6. 7 3. 2 3. 4 2. 3 |

¹ These data have been adjusted to reflect the experience through December 1969. For a discussion of seasonal adjustment procedures and the historical seasonally

adjusted series, see the February 1970 issue of Employment and Earnings.

84

8. Unemployment indicators, seasonally adjusted 1

[in percent]

| Selected categories | | | | 1970 | | | | | | 19 | 69 | | | Annual | average |
|--|---|--|---|---|---|---|---|--|---|---|---|---|---|---|---|
| Southfron nutribution | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 | 1968 |
| Total (all civilian workers) | 5. 0 3. 7 5. 0 13. 9 4. 7 8. 3 2. 7 4. 6 | 4. 7 3. 5 4. 5 14. 6 4. 2 8. 7 2. 5 4. 3 . 8 | 5. 0 3. 5 5. 1 14. 3 4. 6 8. 0 2. 6 4. 7 | 4. 8 3. 2 4. 4 15. 7 4. 3 8. 7 2. 4 4. 4 | 4. 4 2. 9 4. 5 13. 9 4. 1 7. 1 2. 2 4. 0 | 4, 2 2, 8 4, 1 13, 4 3, 8 7, 0 2, 0 3, 7 | 3. 9 2. 5 3. 6 13. 8 3. 6 6. 3 1. 8 3. 4 | 3. 5 2. 2 3. 5 11. 8 3. 2 5. 7 1. 7 3. 2 . 5 | 3. 5 2. 1 3. 6 11. 8 3. 2 6. 2 1. 5 3. 1 | 3. 8 2. 3 3. 8 12. 9 3. 5 6. 6 1. 6 3. 1 | 3. 8 2. 4 3. 9 12. 9 3. 5 6. 7 1. 7 3. 3 | 3, 5 2, 1 3, 8 12, 3 3, 2 6, 4 1, 5 3, 1 | 3. 5 2. 2 3. 7 12. 2 3. 2 6. 5 1. 6 3. 1 | 3. 5 2. 1 3. 7 12. 2 3. 1 6. 4 1. 5 3. 1 | 3. 6 2. 2 3. 8 12. 7 3. 2 6. 7 1. 6 3. 1 |
| over 2 State insured 3 Labor force time lost 4 | 3. 5 5. 4 | 3.7 4.9 | 3. 6 5. 4 | 3. 1 5. 1 | 2.7 4.8 | 2.7 4.5 | 2. 5 4. 2 | 2. 4 3. 9 | 2. 4 4. 0 | 2. 2 4. 3 | 2. 2 4. 3 | 2. 1 4. 0 | 2. 2 4. 0 | 2. 1 3. 9 | 2. 2 4. 0 |
| OCCUPATION | | | | | | | | | | | | | | | |
| White-collar workers | 3.1 | 2.6 | 2.8 | 2.9 | 2.7 | 2.3 | 2.1 | 2.1 | 2.1 | 2.4 | 2.2 | 2, 2 | 2.2 | 2, 1 | 2,0 |
| Professional and mana- gerial | 2. 2 4. 4 4. 0 | 1. 5 4. 0 3. 4 | 1.7 3.9 4.4 | 1.7 4.0 4.1 | 1.8 3.6 3.5 | 1. 4 3. 2 3. 4 | 1.3 3.1 2.8 | 1. 5 2. 8 2. 6 | 1.1 3.5 2.2 | 1.3 3.4 3.5 | 1.3 3.2 2.8 | 1.2 3.2 2.9 | 1. 2 3. 2 3. 2 | 1.2 3.0 2.9 | 1. 1 3. 0 2. 8 |
| Blue-collar workers | 6. 6 4. 4 7. 2 9. 9 | 6.3 4.0 6.8 10.4 | 6. 2 4. 2 6. 7 9. 1 | 5. 7 3. 5 6. 3 8. 8 | 5. 2 3. 1 6. 2 7. 4 | 5. 0 2. 5 6. 0 7. 7 | 4. 6 2. 3 5. 1 8. 5 | 4.3 2.3 5.0 7.4 | 4. 2 2. 1 4. 9 6. 9 | 4. 2 2. 4 4. 9 6. 5 | 4. 4 2. 6 4. 7 7. 6 | 3.8 2.1 4.2 6.8 | 3.8 1.9 4.2 7.1 | 3.9 2.2 4.5 6.7 | 4. 1 2. 4 4. 4 7. 2 |
| Service workers | 5.3 | 5. 0 | 4.9 | 5.0 | 4.9 | 4.8 | 4.5 | 3.6 | 4. 0 | 4.2 | 4.8 | 4, 5 | 4.3 | 4.2 | 4. 5 |
| INDUSTRY | | | | | | | | | | | | | | | |
| Nonagricultural private wage and salary workers s Construction Manufacturing Durable goods Nondurable goods | 5. 6 11. 0 6. 0 5. 9 6. 2 | 5. 2 10. 9 5. 3 5. 1 5. 6 | 5. 2 11. 9 5. 2 4. 9 5. 7 | 4. 8 8. 1 4. 7 4. 9 4. 5 | 4. 6 8. 1 4. 7 4. 8 4. 6 | 4. 3 7. 9 4. 6 4. 7 4. 4 | 3. 9 7. 1 3. 8 3. 8 3. 8 | 3. 6 6. 0 3. 8 3. 7 3. 9 | 3. 6 5. 4 3. 7 3. 6 3. 9 | 3. 8 7. 3 3. 6 3. 2 4. 2 | 3. 9 7. 4 3. 7 3. 2 4. 3 | 3. 5 7. 0 2. 9 2. 3 3. 7 | 3. 5 5. 9 3. 2 3. 1 3. 3 | 3. 5 6. 0 3. 3 3. 0 3. 7 | 3. 6 6. 9 3. 3 3. 7 |
| Transportation and public utilitiesWholesale and retail trade | 3. 3 5. 3 | 3. 3 5. 4 | 3. 3 5. 1 | 3.9 | 3. 1 4. 7 | 2. 4 4. 7 | 2. 9 4. 3 | 2. 4 3. 9 | 2. 4 3. 9 | 2. 9 4. 2 | 2. 0 4. 5 | 2. 0 4. 3 | 2. 0 4. 1 | 2. 2 4. 1 | 2. 0 |
| Finance and service indus- tries | 4.8 | 4.1 | 4.2 | 5. 5 3. 9 | 4.0 | 3. 2 | 3.1 | 2.7 | 3, 2 | 3.1 | 3.4 | 3.4 | 3.6 | 3.2 | 3. 4 |
| Government wage and salary workers | 2.0 | 1.9 | 2, 2 | 2.2 | 2, 1 | 2.0 | 2. 2 | 2, 0 | 2.1 | 2.4 | 1.9 | 1, 9 | 1.8 | 1.9 | 1.8 |
| Agricultural wage and salary workers | 8.6 | 5. 5 | 9.3 | 5.9 | 6.4 | 5, 8 | 6. 2 | 6. 5 | 5. 2 | 6.3 | 6. 5 | 6. 5 | 8.9 | 6.1 | 6. 3 |

¹ These data have been adjusted to reflect the experience through December 1969. For a discussion of seasonal adjustment procedures and the historical seasonally adjusted series, see the February 1970 issue of Employment and Earnings.
² Unemployment rate calculated as a percent of civilian labor force.

9. Duration of unemployment, seasonally adjusted 1

[In thousands]

| Period | | | | 1970 | | | | | | 19 | 69 | | | Annual | average |
|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|
| | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 | 1968 |
| Less than 5 weeks | 2, 061 1, 334 711 470 241 | 1, 961 1, 303 685 450 235 | 2, 219 1, 214 612 352 260 | 2, 295 1, 075 569 372 197 | 1, 995 1, 154 545 363 182 | 1, 973 1, 016 465 306 159 | 1,756 914 409 276 133 | 1, 515 893 392 272 120 | 1, 558 912 389 249 140 | 1, 882 882 363 233 130 | 1,756 995 392 240 152 | 1, 646 854 385 250 135 | 1, 656 824 400 233 167 | 1,629 827 375 242 133 | 1,594 810 412 256 156 |
| 15 weeks and over as a percent of civilian labor force | . 9 9. 3 | .8 | . 7 9. 0 | .7 8.2 | .7 8.4 | . 6 8. 1 | .5 7.8 | . 4 8. 1 | . 4 8. 0 | . 4 7. 3 | . 4 7. 9 | . 4 7. 8 | . 4 8. 2 | . 5 8. 0 | 8. 5 |

 $^{^{1}}$ These data have been adjusted to reflect the experience through December 1969. For a discussion of seasonal adjustment procedures and the historical seasonally

adjusted series, see the February 1970 issue of Employment and Earnings.

Insured unemployment under State programs as a percent of average covered employment.
 Man-hours lost by the unemployed and persons on part time for economic reasons as a percent of potentially available labor force man-hours.
 Includes mining, not shown separately.

10. Unemployment insurance and employment service operations 1

[All items except average benefits amounts are in thousands]

| Item | | | 19 | 70 | | | | | | 1 | 969 | | | |
|--|----------------------------|----------------------|----------------------|------------------------|----------------------|------------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|
| | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | June | May |
| Employment service: 2 New applications for work Nonfarm placements | | 854 339 | 857 352 | 828 328 | 765 295 | | 658 311 | | 762 463 | 801 503 | 750 471 | | | 85 43 |
| State unemployment insurance programs: Initial claims ^{3 4} | 1, 118 | 1,010 | 1, 333 | 1, 078 | 1, 169 | 1,529 | 1, 363 | 866 | 745 | 655 | 731 | 1,105 | 710 | 613 |
| Insured unemployment ⁵ (average weekly volume) ⁶ Rate of insured unemployment ⁷ | 1, 583 3. 0 | 1, 667 3. 2 | | | | | 1, 375 2, 7 | 1, 030 2, 0 | | | | 1, 021 | 852 | 900 |
| Weeks of unemployment compen- sated Average weekly benefit amount for | 6, 080 | 6, 142 | 6,743 | 6, 956 | 6, 517 | 6, 418 | 4, 692 | 3, 054 | 3, 156 | 3, 104 | 3, 496 | 3, 626 | 3, 123 | 3, 519 |
| total unemployment | \$49.51 \$291,707 | \$49.30 \$292,854 | \$49.00 \$320,224 | \$48, 93 \$331, 067 | \$49.11 \$310,800 | \$48, 49 \$299, 352 | \$47.42 \$214,260 | \$46.47 \$136,585 | \$46. 25 \$139, 536 | \$45.70 \$136,182 | \$46.16 \$156,707 | \$45.30 \$159,161 | \$44.88 \$135,004 | \$45.14 \$152.966 |
| Unemployment compensation for ex-servicemen: 89 Initial claims 36 Insured unemployment6 (average | 47 | 38 | | 42 | | | 39 | | | | | | | 20 |
| weekly volume Weeks of unemployment compen- | 73 | 70 | 70 | 69 | 66 | 61 | 48 | 38 | 32 | 32 | 37 | 36 | 30 | 29 |
| sated Total benefits paid | 303 \$15, 299 | 280 13, 972 | 294 \$14, 564 | \$14, 200 | \$12, 028 | \$11,957 | 193 \$9, 517 | 126 \$6, 240 | \$6, 256 | 133 \$6, 514 | | | | \$5, 847 |
| Unemployment compensation for Federal civilian employees: 9 10 | | | | | | | | | | | | | | |
| Initial claims 3 Insured unemployment 5 (average | 15 | 10 | 13 | 11 | 11 | 15 | 12 | 13 | 11 | 10 | 8 | 11 | 10 | 8 |
| weekly volume) Weeks of unemployment compen- | 27 | 26 | 27 | 29 | 30 | 28 | 24 | 22 | 18 | 17 | 18 | 19 | 18 | 17 |
| satedTotal benefits paid | \$5, 378 | \$5, 323 | \$5, 824 | \$6, 192 | | | | | 76 \$3, 494 | 74 \$3, 163 | 77 \$3, 497 | 78 \$3,597 | \$3, 155 | \$3, 318 |
| Railroad unemployment insurance: Applications 11 | 12 | 4 | 8 | 9 | 4 | 9 | 5 | 5 | 10 | 6 | 7 | 17 | 11 | 11 |
| Insured unemployment (average weekly volume) | 11 | 15 | 16 | 19 | 18 | 21 | 17 | 14 | 15 | | 13 | | | 18 |
| Number of payments ¹² Average amount of benefit payment ¹³ Total benefits paid ¹⁴ | 26 \$91. 89 \$2, 253 | \$84.87 | \$81.50 | | \$96.76 | \$94.78 \$4,091 | 35 \$96. 02 \$3, 241 | \$96.28 | 36 \$89. 31 \$2, 918 | \$93.64 | 28 \$94. 12 \$2, 375 | \$91.74 | | |
| All programs: 15 Insured unemployment 6 | 1, 696 | 1,778 | 1, 885 | 1, 916 | 1, 987 | 1,957 | 1, 464 | 1, 105 | 929 | 902 | 1,015 | 1,088 | 911 | 970 |

1 Includes data for Puerto Rico.
2 Includes Guam and the Virgin Islands.
3 Initial claims are notices filed by workers to indicate they are starting periods of unemployment. Excludes transition claims under State programs.
4 Includes interstate claims for the Virgin Islands.
5 Number of workers reporting the completion of at least 1 week of unemployment.
6 Initial claims and State insured unemployment include data under the program for Puerto Rican sugarcane workers.
7 The rate is the number of insured unemployed expressed as a percent of the average covered employment in a 12-month period.
5 Excludes data on claims and payments made jointly with other programs.
9 Includes the Virgin Islands.
10 Excludes data on claims and payments made jointly with State programs.

11 An application for benefits is filed by a railroad worker at the beginning of his first period of unemployment in a benefit year; no application is required for subsequent periods in the same year.

12 Payments are for unemployment in 14-day registration periods.
13 The average amount is an average for all compensable periods, not adjusted for recovery of overpayments of overpayments and settlement of underpayments.
14 Adjusted for recovery of overpayments and settlement of underpayments.
15 Represents an unduplicated count of insured unemployment under the State, Ex-servicemen and UCFE programs and the Railroad Unemployment Insurance Act. Includes claims filed under Extended Duration (ED) provisions of regular State laws.

SOURCE: U.S. Department of Labor, Office of Manpower Management Data Systems for all items except railroad unemployment insurance which is prepared by the U.S. Railroad Retirement Board. Data for latest month are subject to revision.

Employees on nonagricultural payrolls, by industry division, 1947 to date 1

[In thousands]

| | | | Contract | Manufac- | Transpor- tation and | Wholes | sale and retai | I trade | Finance, insurance, | | Gov | vernment | |
|------------------------------|---|---------------------------------|--|---|--|---|--|--|--|--|---|--|---|
| Year | TOTAL | Mining | construc- | turing | public utilities | Total | Wholesale trade | Retail trade | and real estate | Services | Total | Federal | State and local |
| 1947 | 43, 881 | 955 | 1, 982 | 15, 545 | 4, 166 | 8, 955 | 2, 361 | 6, 595 | 1,754 | 5, 050 | 5, 474 | 1,892 | 3, 58 |
| 1948 | 44, 891 | 994 | 2, 169 | 15, 582 | 4, 189 | 9, 272 | 2, 489 | 6, 783 | 1,829 | 5, 206 | 5, 650 | 1,863 | 3, 78 |
| 1949 | 43, 778 | 930 | 2, 165 | 14, 441 | 4, 001 | 9, 264 | 2, 487 | 6, 778 | 1,857 | 5, 264 | 5, 856 | 1,908 | 3, 94 |
| 1950 | 45, 222 | 901 | 2, 333 | 15, 241 | 4, 034 | 9, 386 | 2, 518 | 6, 868 | 1,919 | 5, 382 | 6, 026 | 1,928 | 4, 09 |
| 1951 | 47, 849 | 929 | 2,603 | 16, 393 | 4, 226 | 9, 742 | 2, 606 | 7, 136 | 1, 991 | 5, 576 | 6, 389 | 2,302 | 4, 08 |
| 1952 | 48, 825 | 898 | 2,634 | 16, 632 | 4, 248 | 10, 004 | 2, 687 | 7, 317 | 2, 069 | 5, 730 | 6, 609 | 2,420 | 4, 18 |
| 1953 | 50, 232 | 866 | 2,623 | 17, 549 | 4, 290 | 10, 247 | 2, 727 | 7, 520 | 2, 146 | 5, 867 | 6, 645 | 2,305 | 4, 34 |
| 1954 | 49, 022 | 791 | 2,612 | 16, 314 | 4, 084 | 10, 235 | 2, 739 | 7, 496 | 2, 234 | 6, 002 | 6, 751 | 2,188 | 4, 56 |
| 1955 | 50, 675 | 792 | 2,802 | 16, 882 | 4, 141 | 10, 535 | 2, 796 | 7, 740 | 2, 335 | 6, 274 | 6, 914 | 2,187 | 4, 72 |
| 1956 | 52, 408 | 822 | 2, 999 | 17, 243 | 4, 244 | 10, 858 | 2, 884 | 7,974 | 2, 429 | 6, 536 | 7, 277 | 2, 209 | 5, 06 |
| 1957 | 52, 894 | 828 | 2, 923 | 17, 174 | 4, 241 | 10, 886 | 2, 893 | 7,992 | 2, 477 | 6, 749 | 7, 616 | 2, 217 | 5, 39 |
| 1958 | 51, 363 | 751 | 2, 778 | 15, 945 | 3, 976 | 10, 750 | 2, 848 | 7,902 | 2, 519 | 6, 806 | 7, 839 | 2, 191 | 5, 64 |
| 1959 ² | 53, 313 | 732 | 2, 960 | 16, 675 | 4, 011 | 11, 127 | 2, 946 | 8,182 | 2, 594 | 7, 130 | 8, 083 | 2, 233 | 5, 85 |
| 1960 | 54, 234 | 712 | 2, 885 | 16, 796 | 4, 004 | 11, 391 | 3, 004 | 8,388 | 2, 669 | 7, 423 | 8, 353 | 2, 270 | 6, 08 |
| 1961 1962 1963 1964 | 54, 042 55, 596 56, 702 58, 331 60, 815 | 672 650 635 634 632 | 2, 816 2, 902 2, 963 3, 050 3, 186 | 16, 326 16, 853 16, 995 17, 274 18, 062 | 3, 903 3, 906 3, 903 3, 951 4, 036 | 11, 337 11, 566 11, 778 12, 160 12, 716 | 2, 993 3, 056 3, 104 3, 189 3, 312 | 8, 344 8, 511 8, 675 8, 971 9, 404 | 2, 731 2, 800 2, 877 2, 957 3, 023 | 7, 664 8, 028 8, 325 8, 709 9, 087 | 8, 594 8, 890 9, 225 9, 596 10, 074 | 2, 279 2, 340 2, 358 2, 348 2, 378 | 6, 31 6, 55 6, 86 7, 24 7, 69 |
| 1966 | 63, 955 | 627 | 3, 275 | 19, 214 | 4, 151 | 13, 245 | 3, 437 | 9, 808 | 3, 100 | 9, 551 | 10, 792 | 2, 564 | 8, 22 |
| | 65, 857 | 613 | 3, 208 | 19, 447 | 4, 261 | 13, 606 | 3, 525 | 10, 081 | 3, 225 | 10, 099 | 11, 398 | 2, 719 | 8, 67 |
| | 67, 915 | 606 | 3, 285 | 19, 781 | 4, 310 | 14, 084 | 3, 611 | 10, 473 | 3, 382 | 10, 623 | 11, 845 | 2, 737 | 9, 10 |
| | 70, 274 | 619 | 3, 437 | 20, 169 | 4, 431 | 14, 645 | 3, 738 | 10, 907 | 3, 557 | 11, 211 | 12, 204 | 2, 758 | 9, 44 |

 ¹ The industry series have been adjusted to March 1969 benchmarks (comprehensive counts of employment) and data are not comparable with those published in issues prior to July 1970. For comparable back data, see Employment and Earnings, United States, 1999—70 (BLS Bulletin 1312—7) to be released this fall.

These series are based upon establishment reports which cover all full- and part-time employees in nonagricultural establishments who worked during, or received pay for any part of the pay period which includes the 12th of the month. Therefore, persons who

worked in more than one establishment during the reporting period are counted more than once. Proprietors, self-employed persons, unpaid family workers, and domestic servants are excluded.

2 Data include Alaska and Hawaii beginning 1959. This inclusion has resulted in an increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1959 benchmark morth.

mark month.

12. Employees on nonagricultural payrolls, by State

[In thousands]

| State | June 1970 p | May 1970 | June 1969 | State | June 1970 » | May 1970 | June 1969 |
|---|---|---|---|---|---|---|---|
| Alabama | 1, 010. 0 | 1, 002. 3 | 1, 010. 3 | Montana | 204. 1 | 198. 1 | 203. 2 |
| Alaska | 95. 8 | 90. 1 | 92. 6 | Nebraska | 487. 0 | 482. 4 | 478. 1 |
| Arizona | 542. 1 | 546. 7 | 510. 2 | Nevada | 200. 3 | 195. 9 | 191. 9 |
| Arkansas | 537. 0 | 532. 4 | 539. 8 | New Hampshire | 266. 7 | 256. 0 | 267. 2 |
| California | 7, 052. 6 | 6, 990. 9 | 6, 966. 8 | New Jersey | 2, 641. 9 | 2, 615. 6 | 2, 628. 8 |
| Colorado | 733. 2 | 723.9 | 716.7 | New Mexico | 294. 2 | 290. 3 | 289. 8 |
| Connecticut | 1, 206. 5 | 1, 199.3 | 1,212.8 | New York | 7, 316. 1 | 7, 257. 6 | 7, 290. 9 |
| Delaware | 214. 6 | 211.6 | 211.9 | North Carolina | 1, 749. 0 | 1, 741. 2 | 1, 739. 4 |
| District of Columbia | 702. 4 | 686.1 | 694.6 | North Dakota | 163. 4 | 161. 1 | 160. 5 |
| Florida | 2, 146. 1 | 2, 147.2 | 2,070.4 | Ohio | 3, 952. 8 | 3, 907. 2 | 3, 942. 4 |
| Georgia | 1, 536. 5 | 1, 527. 2 | 1, 523. 6 | Oklahoma | 767. 6 | 761. 6 | 762. 4 |
| Hawaii | 292. 3 | 284. 2 | 279. 3 | Oregon | 715. 6 | 696. 6 | 723. 3 |
| Idaho | 208. 3 | 203. 3 | 200. 3 | Pennsylvania | 4, 416. 5 | 4, 375. 2 | 4, 444. 7 |
| Illinois | 4, 381. 0 | 4, 325. 5 | 4, 414. 9 | Rhode Island | 338. 8 | 332. 3 | 347. 7 |
| Indiana | 1, 866. 1 | 1, 859. 8 | 1, 897. 1 | South Carolina | 813. 6 | 815. 6 | 817. 3 |
| lowa | 894. 1 | 884. 2 | 892. 0 | South Dakota | 179. 2 | 175. 2 | 175. 5 |
| Kansas | 678. 2 | 676. 9 | 689. 0 | Tennessee | 1, 318. 1 | 1, 318. 5 | 1, 323. 9 |
| Kentucky | 907. 9 | 909. 4 | 907. 8 | Texas | 3, 741. 2 | 3, 723. 5 | 3, 636. 6 |
| Louisiana | 1, 044. 3 | 1, 039. 4 | 1, 056. 7 | Utah | 360. 4 | 359. 9 | 351. 7 |
| Maine | 338. 9 | 327. 8 | 340. 4 | Vermont | 149. 9 | 144. 8 | 146. 6 |
| Maryland Massachusetts Michigan Minnesota Mississippi Missouri | 1, 316. 6 2, 280. 6 3, 019. 4 1, 315. 5 574. 4 1, 652. 6 | 1, 303. 3 2, 255. 0 3, 023. 2 1, 304. 5 578. 2 1, 645. 5 | 1, 294. 2 2, 272. 5 3, 088. 1 1, 322. 1 570. 6 1, 671. 7 | Virginia Washington West Virginia Wisconsin Wyoming | 1, 466. 0 1, 105. 5 517. 4 1, 544. 1 113. 6 | 1, 451. 5 1, 098. 7 511. 1 1, 526. 6 107. 6 | 1, 450. 7 1, 149. 3 520. 5 1, 539. 8 115. 3 |

p = preliminary.

SOURCE: State agencies in cooperation with U.S. Department of Labor, Bureau of Labor Statistics. More detailed industry data are available from the State agencies. For addresses, see inside back cover of Employment and Earnings.

13. Employees on nonagricultural payrolls, by industry division and major manufacturing group 1

[In thousands]

| Industry division and group | | | | 1970 | | | | | | 19 | 969 | | | Annual | average |
|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Industry division and group | July » | June » | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 | 1968 |
| TOTAL | 70, 486 | 71, 378 | 70, 780 | 70, 758 | 70, 460 | 70, 029 | 69, 933 | 71,760 | 71, 354 | 71, 333 | 70, 964 | 70,758 | 70, 481 | 70, 274 | 67, 915 |
| MINING | 634 | 634 | 620 | 616 | 610 | 608 | 611 | 623 | 622 | 623 | 630 | 638 | 635 | 619 | 606 |
| CONTRACT CONSTRUCTION | 3, 569 | 3, 506 | 3, 344 | 3, 286 | 3, 161 | 3, 071 | 3, 048 | 3, 398 | 3, 553 | 3, 648 | 3, 687 | 3, 731 | 3,707 | 3, 437 | 3, 285 |
| MANUFACTURING Production workers 2 | 19, 296 13, 948 | 19,622 14,253 | 19, 432 14, 061 | 19, 627 14, 240 | 19, 794 14, 385 | 19,770 14,346 | 19, 824 14, 402 | 20, 110 14, 680 | 20, 194 14, 763 | 20, 395 14, 953 | 20, 482 15, 041 | 20, 497 15, 014 | 20, 164 14, 700 | 20, 169 14, 768 | 19, 781 14, 514 |
| Durable goods | 11, 137 7, 989 | 11,399 8,229 | 11,352 8,164 | 11, 488 8, 282 | 11,607 8,379 | 11,573 8,327 | 11, 623 8, 377 | 11, 802 8, 556 | 11, 832 8, 580 | 12, 008 8, 744 | 12, 030 8, 767 | 11, 992 8, 701 | 11, 889 8, 612 | 11, 893 8, 648 | 11, 626 8, 457 |
| Ordnance and accessories_ Lumber and wood products_ Furniture and fixtures | 242. 8 584. 1 441. 5 | 250. 0 605. 9 452. 7 | 254. 1 579. 2 451. 4 | 260. 1 574. 5 462. 9 | 271. 0 578. 6 468. 6 | 277. 6 579. 2 470. 3 | 282. 8 583. 8 475. 6 | 291. 3 597. 0 482. 2 | 297. 1 600. 1 485. 2 | 298. 3 604. 4 488. 1 | 305. 8 616. 7 486. 8 | 313. 9 629. 3 488. 4 | 322. 1 627. 5 476. 2 | 318. 8 609. 2 483. 5 | 338. 0 600. 1 471. 6 |
| Stone, clay, and glass products | 643.6 | 649.9 | 638. 0 | 639.8 | 635.1 | 632. 9 | 632, 0 | 650.9 | 661.9 | 664.7 | 669. 0 | 674. 0 | 670.9 | 656. 3 | 635. 5 |
| | 1,318.5 1,381.6 | 1,329.0 1,401.1 | 1,319.4 1,385.6 | 1, 329. 5 1, 402. 5 | 1, 338. 1 1, 416. 1 | 1, 346. 6 1, 421. 1 | 1, 351. 4 1, 433. 1 | 1, 367. 6 1, 456. 6 | 1, 364. 7 1, 456. 7 | 1, 364. 0 1, 454. 6 | 1, 373. 9 1, 459. 6 | 1, 375. 5 1, 449. 2 | 1, 374. 3 1, 428. 9 | 1, 358. 0 1, 442. 1 | 1, 315. 5 1, 390. 4 |
| Machinery, except electrical Electrical equipment Transportation equipment Instruments and related | 1,976.4 1,902.0 1,776.5 | 1,998.8 1,930.9 1,890.0 | 2,006.4 1,932.5 1,897.2 | 2, 040. 4 1, 959. 1 1, 928. 9 | 2, 058. 3 1, 983. 2 1, 963. 4 | 2, 055. 9 1, 995. 2 1, 901. 1 | 2, 044. 6 1, 928. 2 1, 999. 4 | 2, 043. 2 1, 948. 9 2, 042. 9 | 2, 028. 6 1, 955. 4 2, 049. 2 | 2, 036. 0 2, 069. 7 2, 088. 2 | 2, 032. 9 2, 057. 4 2, 096. 5 | 2, 022. 2 2, 049. 0 2, 056. 0 | 2, 032. 1 2, 022. 7 2, 022. 9 | 2, 027. 7 2, 013. 0 2, 067. 1 | 1, 965. 9 1, 974. 5 2, 038. 6 |
| products | 459.6 | 465. 0 | 465. 5 | 469.1 | 471.3 | 471.3 | 472. 6 | 477.7 | 476. 9 | 476. 2 | 476. 8 | 482.1 | 477.4 | 476. 5 | 461.9 |
| Miscellaneous manufacturing | 410.7 | 425.6 | 422.4 | 421.3 | 423. 0 | 421.4 | 419.0 | 443.7 | 456. 4 | 463. 4 | 454.9 | 452. 0 | 433.7 | 440. 2 | 433. 4 |
| Nondurable goods Production workers 2 | 8, 159 5, 959 | 8, 223 6, 024 | 8, 080 5, 897 | 8, 139 5, 958 | 8, 178 6, 006 | 8, 197 6, 019 | 8, 201 6, 025 | 8, 308 6, 124 | 8, 362 6, 183 | 8, 387 6, 209 | 8, 452 6, 274 | 8, 505 6, 313 | 8, 275 6, 088 | 8, 277 6, 120 | 8, 155 6, 056 |
| Food and kindred products_ Tobacco manufactures Textile mill products | 1,828.7 72.1 949.3 | 1, 793. 4 71. 4 970. 4 | 1,736.7 70.8 967.2 | 1, 722. 2 71. 4 974. 6 | 1,735.6 73.8 977.3 | 1, 739. 9 77. 4 979. 9 | 1,744.3 79.9 987.6 | 1,790.7 84.0 995.3 | 1, 831. 7 87. 1 997. 6 | 1, 862. 0 94. 5 994. 8 | 1, 928. 8 97. 6 997. 2 | 1,941.9 93.0 1,000.1 | 1,832.6 71.9 992.0 | 1,795.9 82.0 998.7 | 1, 781. 5 84. 6 993. 9 |
| Apparel and other textile products | 1,344.2 | 1,400.7 | 1, 372. 4 | 1, 382. 4 | 1, 402. 8 | 1,404.0 | 1, 388, 8 | 1,407.6 | 1,417.6 | 1, 423. 0 | 1, 421. 4 | 1,427.1 | 1, 369. 2 | 1,412.3 | 1, 405. 8 |
| Paper and allied products Printing and publishing | 709.7 1,098.6 | 720.7 1,103.7 | 707.8 1,102.3 | 714. 2 1, 109. 9 | 714.9 1,112.3 | 714.2 1,110.0 | 716.0 1,107.7 | 722.7 1,116.2 | 720. 4 1, 113. 4 | 716.4 1,107.7 | 718. 0 1, 098. 5 | 722. 6 1, 098. 0 | 715. 7 1, 092. 5 | 712.1 1,093.3 | 691. 2 1, 065. 1 |
| Chemicals and allied productsPetroleum and coal | 1,064.6 | 1, 064. 9 | 1, 058. 3 | 1, 063. 8 | 1, 064. 1 | 1, 060. 8 | 1, 058. 5 | 1, 062, 1 | 1, 059.9 | 1, 058.1 | 1, 063. 9 | 1, 076. 5 | 1, 076. 1 | 1, 060. 7 | 1, 029. 9 |
| productsRubber and plastics | 197.4 | 196.8 | 191.9 | 190.4 | 189.7 | 188. 4 | 188. 0 | 188. 9 | 191.0 | 191.8 | 191.9 | 195. 0 | 195. 3 | 182.9 | 186. 8 |
| products, nec Leather and leather | 569. 0 | 566. 4 | 543. 2 | 580. 8 | 585. 0 | 588. 2 | 593. 4 | 599. 6 | 601.6 | 600. 5 | 599. 0 | 599. 4 | 588. 8 | 593. 9 345. 1 | 561. 3 355. 2 |
| TRANSPORTATION AND PUBLIC | 325.3 | 334. 5 | 329. 2 | 329. 1 | 331.6 | 334. 6 | 336.7 | 341, 3 | 341.2 | 338, 2 | 336.1 | 351.0 | 341.2 | | |
| UTILITIES | 4, 561 | 4, 547 | 4, 469 | 4, 432 | 4, 443 | 4, 420 | 4, 435 | 4, 478 | 4, 486 | 4, 481 | 4, 508 | 4, 510 | 4, 507 | 4, 431 | 4, 310 |
| WHOLESALE AND RETAIL TRADE. Wholesale trade | 14, 913 3, 886 | 15, 009 3, 878 | 14, 878 | 14, 818 | 14, 700 3, 797 | 14, 606 3, 788 | 14, 707 3, 797 | 3, 841 11, 797 | 3, 816 11, 276 | 14, 850 3, 801 | 3, 781 | 14, 670 3, 796 | 14, 663 3, 787 | 3,738 | 3, 611 |
| Retail trade | 11,027 | 11, 131 | 11,065 | 11, 015 | 10,903 | 10, 818 | 10,910 | | | 11, 049 | 10, 933 | 10, 874 | 10, 876 | 10, 907 | 10, 473 |
| SERVICESHotels and other lodging | 3,738 | 3,701 | 3, 670 11, 641 | 3, 658 11, 564 | 3, 639 | 3, 615 11, 357 | 3, 604 11, 254 | 3, 608 11, 351 | 3, 597 11, 349 | 3, 589 11, 372 | 3, 595 11, 300 | 3, 641 11, 372 | 11, 384 | 11, 211 | 10, 623 |
| Personal services Medical and other health | | 788.3 1,012.6 | 759.6 1,009.8 | 745. 3 1, 006. 2 | 727. 3 1, 006. 2 | 717.5 1,003.0 | 709.6 1,005.1 | 713.3 1, 022.0 | 714. 5 1, 025. 4 | 738. 4 1, 028. 0 | 764. 8 1, 022. 1 | 852. 3 1, 023. 8 | 856. 5 1, 036. 9 | 750.3 1,025.8 | 722.2 |
| servicesEducational services | | 3, 088. 9 1, 105. 7 | 3, 043. 2 1, 190. 7 | 3, 033. 9 1, 197. 8 | 3, 019. 4 1, 197. 8 | 3, 000. 7 1, 196. 1 | 2, 979. 8 1, 163. 6 | 2, 961. 4 1, 179. 9 | 2,950.0 1,184.5 | 2, 927. 8 1, 164. 3 | 2, 907. 8 1, 061. 6 | 2, 905. 1 958. 4 | 2, 903. 3 974. 7 | 2, 868. 8 1, 116. 9 | 2, 638. 6 1, 067. 3 |
| GOVERNMENT | 12, 107 | 12,659 | 12,72 | 12, 757 | 12, 680 | 12, 582 | 12, 450 | 12, 554 | 12, 461 | 12, 375 | 12, 048 | 11,699 | 11,793 | 12, 204 | 11, 845 |
| FederalState and Local | 2,707 9,400 | 2,710 9,949 | 2,765 9,961 | 2, 838 9, 919 | 2, 758 9, 922 | 2, 694 9, 888 | 2,690 9,760 | 2,760 9,794 | 2,705 9,756 | 2,717 9,658 | 2,733 9,315 | 2, 804 8, 895 | 2, 842 8, 951 | 2,758 9,446 | 2,737 9,109 |

¹ For comparability of data with those published in issues prior to July 1970, and coverage of these series, see footnote 1, table 11.

² Production workers include working foremen and all nonsupervisory workers (including leadmen and trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, maintenance,

repair, janitorial, and watchman services, product development, auxiliary production for plant's own use (e.g., powerplant), and recordkeeping and other services closely associated with the above production operations.

p = preliminary.

14. Employees on nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted ¹ [In thousands]

| | | | | [iii tilou | , | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Industry division and group | | | | 1970 | | | | | | 1 | 969 | | |
| | July » | June p | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July |
| TOTAL | 70, 455 | 70, 598 | 70, 852 | 71, 163 | 71, 256 | 71, 135 | 70, 992 | 70, 842 | 70, 808 | 70, 836 | 70, 567 | 70, 497 | 70, 400 |
| MINING | 617 | 619 | 620 | 622 | 626 | 626 | 625 | 627 | 624 | 622 | 623 | 621 | 618 |
| CONTRACT CONSTRUCTION | 3, 311 | 3, 326 | 3, 351 | 3, 426 | 3, 481 | 3, 466 | 3, 394 | 3, 496 | 3, 473 | 3, 445 | 3, 436 | 3,420 | 3, 439 |
| MANUFACTURINGProduction workers 2 | 19, 400 14, 100 | 19, 473 14, 135 | 19, 572 14, 180 | 19, 795 14, 389 | 19, 944 14, 512 | 19, 937 14, 489 | 20, 018 14, 573 | 20, 082 14, 638 | 20, 082 14, 638 | 20, 233 14, 794 | 20, 252 14, 826 | 20, 246 14, 826 | 20, 247 14, 839 |
| Durable goods Production workers 2 Ordnance and accessories Lumber and wood products Furniture and fixtures Stone, clay, and glass products | 449 | 11, 295 8, 136 250 584 452 636 | 11, 386 8, 186 256 582 456 638 | 11, 529 8, 318 261 585 468 644 | 11, 648 8, 409 271 593 471 651 | 11, 625 8, 367 277 598 472 657 | 11, 679 8, 425 281 605 477 653 | 11,773 8,516 290 606 478 659 | 11, 782 8, 522 296 603 479 659 | 11, 965 8, 703 298 601 483 658 | 11, 968 8, 713 306 606 483 657 | 11,950 8,698 316 607 484 655 | 11, 955 8, 706 322 608 484 655 |
| Primary metal industries Fabricated metal products Machinery, except electrical Electrical equipment Transportation equipment Instruments and related products | 1,303 1,398 1,976 1,923 1,863 460 | 1,303 1,389 1,983 1,935 1,877 463 | 1, 309 1, 394 2, 004 1, 956 1, 897 468 | 1, 323 1, 411 2, 032 1, 979 1, 925 471 | 1, 337 1, 425 2, 046 1, 995 1, 950 472 | 1, 349 1, 428 2, 048 1, 993 1, 890 472 | 1,360 1,436 2,043 1,922 1,988 474 | 1, 380 1, 447 2, 051 1, 930 2, 009 476 | 1, 384 1, 444 2, 043 1, 934 2, 028 476 | 1, 386 1, 445 2, 050 2, 051 2, 078 476 | 1, 381 1, 452 2, 041 2, 049 2, 078 477 | 1, 367 1, 451 2, 028 2, 043 2, 081 479 | 1, 358 1, 446 2, 032 2, 045 2, 086 478 |
| Miscellaneous manufacturing | 418 | 423 | 426 | 430 | 437 | 441 | 440 | 447 | 436 | 439 | 438 | 439 | 441 |
| Nondurable goods Production workers 2 Food and kindred products Tobacco manufactures Textile mill products Apparel and other textile products Paper and allied products | 8, 174 6, 001 1, 791 81 956 1, 390 706 | 8, 178 5, 999 1, 797 81 958 1, 385 711 | 8, 186 5, 994 1, 805 81 971 1, 375 714 | 8, 266 6, 071 1, 805 81 979 1, 394 721 | 8, 296 6, 103 1, 823 81 980 1, 396 721 | 8, 312 6, 122 1, 830 80 987 1, 398 720 | 8, 339 6, 148 1, 817 80 999 1, 416 721 | 8, 309 6, 122 1, 805 77 995 1, 410 720 | 8, 300 6, 116 1, 806 80 993 1, 405 718 | 8, 268 6, 091 1, 780 81 991 1, 406 716 | 8, 284 6, 113 1, 799 83 992 1, 409 715 | 8, 296 6, 128 1, 801 86 992 1, 410 714 | 8, 292 6, 133 1, 795 81 999 1, 416 712 |
| Printing and publishing Chemicals and allied products Petroleum and coal products Rubber and plastics products, nec Leather and leather products | 1, 099 1, 053 191 577 330 | 1, 101 1, 056 193 564 332 | 1, 108 1, 060 192 548 332 | 1, 111 1, 063 193 585 334 | 1,113 1,066 194 589 333 | 1, 113 1, 067 193 591 333 | 1, 113 1, 068 193 595 337 | 1, 110 1, 067 192 594 339 | 1,109 1,064 191 596 338 | 1, 106 1, 062 191 596 339 | 1,100 1,064 189 596 337 | 1, 097 1, 064 190 597 345 | 1, 093 1, 064 189 597 346 |
| TRANSPORTATION AND PUBLIC UTILITIES | 4, 507 | 4, 498 | 4, 478 | 4, 468 | 4, 502 | 4, 496 | 4, 507 | 4, 469 | 4, 464 | 4, 463 | 4, 459 | 4, 457 | 4, 454 |
| WHOLESALE AND RETAIL TRADE | 14, 922 | 14, 941 | 14, 968 | 14, 991 | 14, 984 | 14, 987 | 14, 938 | 14,750 | 14, 848 | 14, 824 | 14,739 | 14,713 | 14,673 |
| Wholesale tradeRetail trade | 3, 840 11, 082 | 3, 854 11, 087 | 3, 859 11, 109 | 3, 853 11, 138 | 3, 847 11, 137 | 3, 834 11, 153 | 3, 828 11, 110 | 3, 807 10, 943 | 3,782 11,066 | 3,775 11,049 | 3,762 10,977 | 3, 751 10, 962 | 3, 742 10, 931 |
| FINANCE, INSURANCE, AND REAL ESTATE | 3, 676 | 3, 672 | 3,677 | 3, 673 | 3, 665 | 3, 652 | 3, 648 | 3, 626 | 3, 611 | 3, 596 | 3, 584 | 3,580 | 3, 567 |
| SERVICES Hotels and other lodging places Personal services. Medical and other health services Educational services | | 11, 516 749 997 3, 067 1, 151 | 11, 572 764 1, 005 3, 058 1, 146 | 11, 564 768 1, 006 3, 034 1, 151 | 11, 537 772 1, 015 3, 025 1, 143 | 11,530 770 1,018 3,007 1,145 | 11, 472 775 1, 016 2, 992 1, 125 | 11, 431 770 1, 016 2, 973 1, 129 | 11, 383 760 1, 021 2, 950 1, 125 | 11, 361 761 1, 025 2, 931 1, 122 | 11, 289 748 1, 026 2, 914 1, 105 | 11, 248 730 1, 026 2, 891 1, 117 | 11, 205 734 1, 030 2, 875 1, 113 |
| GOVERNMENT | 12, 538 | 12, 553 | 12,614 | 12, 624 | 12, 517 | 12, 441 | 12, 390 | 12, 361 | 12, 323 | 12, 292 | 12, 185 | 12, 212 | 12, 197 |
| Federal 3 State and local | 2,633 9,905 | 2,663 9,890 | 2,781 9,833 | 2, 852 9, 772 | 2,780 9,737 | 2,718 9,723 | 2,717 9,673 | 2,721 9,640 | 2,730 9,593 | 2,739 9,553 | 2,747 9,438 | 2,749 9,463 | 2, 765 9, 432 |

 $^{^{\}rm 1}\,\text{For}$ comparability of data with those published in issues prior to July 1970, and coverage of these series, see footnote 1, table 11.

NOTE: These data have been seasonally adjusted to reflect experience through February 1970. For additional detail see June 1970 issue of **Employment and Earnings**.

² For definition of production workers, see footnote 2, table 13.

15. Labor turnover rates in manufacturing, 1959 to date ¹

| | | | | [F | er 100 em | ipioyeesj | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Annua |
| | | | | | Total acc | essions | | | | | | | |
| 959 960 961 962 | 3. 8 4. 0 3. 7 4. 1 3. 6 | 3.7 3.5 3.2 3.6 3.3 | 4. 1 3. 3 4. 0 3. 8 3. 5 | 4. 1 3. 4 4. 0 4. 0 3. 9 | 4. 2 3. 9 4. 3 4. 3 3. 9 | 5. 4 4. 7 5. 0 5. 0 4. 8 | 4. 4 3. 9 4. 4 4. 6 4. 3 | 5. 2 4. 9 5. 3 5. 1 4. 8 | 5. 1 4. 8 4. 7 4. 9 4. 8 | 3. 9 3. 5 4. 3 3. 9 3. 9 | 3. 4 2. 9 3. 4 3. 0 2. 9 | 3. 6 2. 3 2. 6 2. 4 2. 5 | 4. 2 3. 8 4. 1 4. 1 3. 9 |
| 964 | 3. 8 4. 6 4. 3 | 3. 4 3. 5 4. 2 3. 6 3. 8 3. 9 3. 6 | 3. 7 4. 0 4. 9 3. 9 4. 0 4. 4 3. 7 | 3.8 3.8 4.6 3.9 4.3 4.5 3.7 | 3. 9 4. 1 5. 1 4. 6 4. 7 4. 8 4. 2 | 5. 1 5. 6 6. 7 5. 9 5. 9 6. 6 | 4. 4 4. 5 5. 1 4. 7 5. 0 5. 1 | 5. 1 5. 4 6. 4 5. 5 5. 8 5. 6 | 4. 8 5. 5 6. 1 5. 3 5. 7 5. 9 | 4. 0 4. 5 5. 1 4. 7 5. 1 5. 0 | 3. 2 3. 9 3. 9 3. 7 3. 9 3. 6 | 2. 6 3. 1 2. 9 2. 8 3. 1 2. 9 | 4. 0 4. 3 5. 0 4. 4 4. 6 4. 7 |
| V/ V | | | | | New I | nires | | | 1 | | | | |
| 959 960 961 962 963 | 2. 0 2. 2 1. 5 2. 2 1. 9 | 2. 1 2. 2 1. 4 2. 1 1. 8 | 2. 4 2. 0 1. 6 2. 2 2. 0 | 2. 5 2. 0 1. 8 2. 4 2. 3 | 3.7 2.3 2.1 2.8 2.5 | 2.7 3.0 2.9 3.5 3.3 | 3. 0 2. 4 2. 5 2. 9 2. 7 | 3. 5 2. 9 3. 1 3. 2 3. 2 | 3. 5 2. 8 3. 0 3. 1 3. 2 | 2. 6 2. 1 2. 7 2. 5 2. 6 | 1.9 1.5 2.0 1.8 1.8 | 1.5 1.0 1.4 1.2 1.4 | 2. 6 2. 2 2. 2 2. 5 2. 4 |
| 964 965 966 967 968 969 | 2. 0 2. 4 3. 2 3. 0 3. 0 3. 3 2. 9 | 2. 0 2. 4 3. 1 2. 7 2. 7 3. 0 2. 5 | 2. 2 2. 8 3. 7 2. 8 2. 9 3. 4 2. 6 | 2. 4 2. 6 3. 6 2. 8 3. 2 3. 5 2. 6 | 2. 5 3. 0 4. 1 3. 3 3. 6 3. 8 2. 8 | 3.6 4.3 5.6 4.6 4.7 5.4 2.0 | 2.9 3.2 3.9 3.3 3.7 3.9 | 3. 4 3. 9 4. 8 4. 0 4. 3 4. 3 | 3.5 4.0 4.7 4.1 4.6 4.8 | 2.8 3.5 4.2 3.7 4.0 4.0 | 2. 2 2. 9 3. 1 2. 8 2. 9 2. 8 | 1.6 2.2 2.1 2.0 2.2 2.1 | 2.6 3.1 3.8 3.3 3.5 3.7 |
| 3/0 | 1 2.0 | -, - | | | Total sepa | | | | | | | | |
| 959 960 961 962 963 | 3.7 3.6 4.7 3.9 4.0 | 3. 1 3. 5 3. 9 3. 4 3. 2 | 3. 3 4. 0 3. 8 3. 6 3. 5 | 3. 6 4. 2 3. 4 3. 6 3. 6 | 3. 5 3. 9 3. 5 3. 8 3. 6 | 3. 6 4. 0 3. 6 3. 8 3. 4 | 4. 0 4. 4 4. 1 4. 4 4. 1 | 4. 6 4. 8 4. 2 5. 1 4. 8 | 5. 3 5. 3 5. 1 5. 0 4. 9 | 5. 5 4. 7 4. 2 4. 4 4. 1 | 4. 7 4. 5 4. 0 4. 0 3. 9 | 3. 9 4. 8 4. 0 3. 8 3. 7 | 4. 1 4. 3 4. 0 4. 1 3. 9 |
| 1964 1965 1965 1966 1967 1968 1969 | 4. 0 3. 7 4. 0 4. 5 4. 4 | 3. 3 3. 1 3. 6 4. 0 3. 9 4. 0 4. 3 | 3. 5 3. 4 4. 1 4. 6 4. 1 4. 4 4. 5 | 3. 5 3. 7 4. 3 4. 3 4. 1 4. 5 4. 8 | 3. 6 3. 6 4. 3 4. 2 4. 3 4. 6 4. 6 | 3. 5 3. 6 4. 4 4. 3 4. 1 4. 6 | 4. 4 4. 3 5. 3 4. 8 5. 0 5. 3 | 4. 3 5. 1 5. 8 5. 3 6. 0 6. 2 | 5. 1 5. 6 6. 6 6. 2 6. 3 6. 6 | 4. 2 4. 5 4. 8 4. 7 5. 0 5. 3 | 3. 6 3. 9 4. 3 4. 0 4. 1 4. 3 | 3. 7 4. 1 4. 2 3. 9 3. 8 4. 2 | 3. 9 4. 1 4. 6 4. 6 4. 9 |
| | | | | | Qui | its | | | | 17 | | | |
| 1959 1960 1961 1962 1963 | 1.1 1.2 .9 1.1 1.1 | 1.0 1.2 .8 1.1 1.0 | 1.2 1.2 .9 1.2 1.2 | 1.4 1.4 1.0 1.3 1.3 | 1.5 1.3 1.1 1.5 1.4 | 1. 5 1. 4 1. 2 1. 5 1. 4 | 1.6 1.4 1.2 1.4 1.4 | 2. 1 1. 8 1. 7 2. 1 2. 1 | 2. 6 2. 3 2. 3 2. 4 2. 4 | 1.7 1.3 1.4 1.5 1.5 | 1. 2 . 9 1. 1 1. 1 1. 1 | 1. 0 .7 .9 .8 | 1.5 1.3 1.4 1.4 |
| 1964 1965 1966 1966 1967 1968 1969 | 1.2 1.4 1.9 2.1 | 1. 1 1. 3 1. 8 1. 9 1. 9 2. 1 1. 9 | 1. 2 1. 5 2. 3 2. 1 2. 1 2. 4 1. 9 | 1.3 1.7 2.5 2.2 2.2 2.6 2.1 | 1. 5 1. 7 2. 5 2. 2 2. 4 2. 7 2. 1 | 1. 4 1. 7 2. 5 2. 3 2. 3 2. 6 2. 1 | 1. 5 1. 8 2. 5 2. 1 2. 4 2. 6 | 2.1 2.6 3.6 3.2 3.8 4.0 | 2.7 3.5 4.5 4.0 4.2 4.4 | 1.7 2.2 2.8 2.5 2.8 2.9 | 1. 2 1. 7 2. 1 1. 9 2. 1 2. 1 | 1.0 1.4 1.7 1.5 1.6 1.6 | 1. 1. 2. 2. 2. 2. |
| 1370 | | 1.0 | - | | Lay | | | | | | | | 1 |
| 1959 1960 1961 1962 1963 | 3.2 | 1. 5 1. 7 2. 6 1. 7 1. 6 | 1.6 2.2 2.3 1.6 1.7 | 1.6 2.2 1.9 1.6 1.6 | 1.4 1.9 1.8 1.6 1.5 | 1. 4 2. 0 1. 8 1. 6 1. 4 | 1.8 2.4 2.3 2.2 2.0 | 1.8 2.4 1.8 2.2 1.9 | 2. 0 2. 4 2. 1 1. 9 1. 8 | 3. 2 2. 8 2. 0 2. 2 1. 9 | 2.9 3.1 2.2 2.3 2.1 | 2. 4 3. 6 2. 6 2. 5 2. 3 | 2. d 2. d 2. d 2. d 1. d |
| 1964 1965 1965 1966 1967 1968 1969 1969 | 2.0 1.6 1.3 1.5 1.5 | 1.6 1.2 1.0 1.3 1.2 1.0 | 1.6 1.2 1.0 1.5 1.1 1.0 | 1. 4 1. 3 1. 0 1. 3 1. 0 . 9 1. 7 | 1. 4 1. 1 . 9 1. 1 1. 0 . 9 1. 5 | 1. 3 1. 1 1. 0 1. 1 . 9 1. 0 | 2.1 1.8 2.0 1.9 1.8 1.6 | 1. 4 1. 6 1. 1 1. 2 1. 3 1. 1 | 1. 5 1. 3 1. 0 1. 2 1. 1 1. 1 | 1. 8 1. 4 1. 1 1. 3 1. 2 1. 3 | 1.7 1.5 1.3 1.3 1.2 1.3 | 2.1 1.9 1.7 1.6 1.4 1.8 | 1. 1. 1. 1. 1. |

¹ For comparability of data with those published in issues prior to July 1970, see

footnote1, table 11.

Month-to-month changes in total employment in manufacturing and nonmanufacturing industries as indicated by labor turnover rates are not comparable with the changes shown by the Bureau's employment series for the following reasons: (1) The

labor turnover series measures changes during the calendar month, while the employment series measures changes from midmonth to midmonth and (2) the turnover series excludes personnel changes caused by strikes, but the employment series reflects the influence of such stoppages.

p = preliminary.

16. Labor turnover rates in manufacturing, by major industry group 1

[Per 100 employees]

| | | | Access | ion rates | | | | | | Se | paration r | ates | | | |
|--|----------------------|----------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------|----------------------|----------------------|-----------------|-------------|-----------------|
| Major industry group | | Total | | | New hires | | | Total | | | Quits | | | Layoffs | |
| | June 1970» | May 1970 | June 1969 | June 1970? | May 1970 | June 1969 | June 1970? | May 1970 | June 1969 | June 1970» | May 1970 | June 1969 | June 1970» | May 1970 | June 1969 |
| MANUFACTURING | 5. 4 4. 0 | 4.2 | 6. 6 4. 9 | 4. 0 2. 8 | 2.8 | 5. 4 3. 8 | 4. 4 4. 8 | 4.6 5.0 | 4.6 5.0 | 2.1 | 2.1 | 2.6 | 1.3 | 1.5 | 1.0 |
| Durable goods | 4.9 | 3.7 | 6.2 | 3.5 | 2.4 | 5.1 | 4.3 | 4.4 | 4.4 | 1.9 | 1.8 | 2.4 | 1.4 | 1.7 | |
| Ordnance and accessoriesLumber and wood | | 1.9 | 3.9 | | 1.0 | 3.2 | | 4.1 | 3.5 | | 1.1 | 1.8 | | 2.4 | 1.0 |
| Furniture and fixtures Stone, clay, and glass | 7. 6 5. 3 | 6.8 | 9. 0 7. 6 | 6. 2 4. 1 | 5. 0 3. 5 | 8. 1 7. 0 | 5. 4 4. 8 | 5. 2 6. 0 | 6. 5 5. 7 | 3.3 | 3.4 | 4.7 | 1.3 | 1.5 | . 8 |
| products | 6.4 | 5.0 | 7.9 | 5.0 | 3.7 | 6.8 | 4.7 | 4.6 | 4.6 | 2.5 | 2.4 | 3.0 | 1.3 | 1.2 | . ! |
| Primary metal industries_ Fabricated metal products | 5. 2 | 3.6 4.7 | 6.3 | 3.9 | 2.2 | 5. 4 6. 2 | 3.3 | 3.7 | 3. 5 5. 4 | 1.5 | 1.4 | 1.9 | .7 | 1.2 | 1.3 |
| Machinery, except electrical Electrical equipment Transportation equip- | 3.6 4.2 | 2.6 | 5. 2 5. 7 | 2.6 2.9 | 1.7 | 4.3 4.6 | 3.5 4.5 | 4. 1 4. 0 | 3. 4 3. 7 | 1.4 | 1.4 | 1.8 | 1.2 | 1.8 | .6 |
| ment Instruments and related | | 3.5 | 5.5 | | 1.6 | 3.8 | | 4.8 | 4.8 | | 1.3 | 1.9 | | 2.7 | 1.8 |
| products | 4.0 | 2.6 | 4.8 | 2.9 | 1.8 | 4.2 | 4.1 | 3.3 | 3.3 | 1.9 | 1.4 | 1.9 | 1.1 | 1.1 | . ! |
| Miscellaneous manu- facturing | 7.1 | 5. 4 | 7.8 | 5. 3 | 4.0 | 6.6 | 5.8 | 6.0 | 5.8 | 2.9 | 2.9 | 3.5 | 1.8 | 2.1 | 1.3 |
| Nondurable goods | 6.1 | 4.8 | 7.1 | 4.6 | 3.4 | 5.7 | 4.5 | 4.8 | 4.8 | 2.5 | 2.6 | 2.9 | 1.2 | 1.3 | 1.0 |
| Food and kindred products Tobacco manufactures Textile mill products Apparel and other textile products. | 9. 2 4. 7 5. 5 | 6. 9 3. 7 4. 9 | 10.3 4.9 6.6 | 6. 9 2. 8 4. 3 | 5. 0 2. 6 3. 8 | 8. 2 3. 3 5. 6 | 5. 9 2. 2 5. 0 | 6. 2 3. 6 5. 3 | 6. 4 3. 5 5. 3 | 3.1 1.3 3.2 | 3. 1 2. 0 3. 6 | 3. 5 1. 8 3. 8 | 2.1 .3 .7 | 2.2 | 2.0 .9 .4 |
| | 6.4 | 5.9 | 6.2 | 4.3 | 3.6 | 4. 4 | 5. 5 | 6.0 | 5.6 | 2.9 | 3.0 | 3.0 | 1.8 | 2.2 | 1.7 |
| Paper and allied products Printing and publishing Chemicals and allied | 5. 1 4. 2 | 3. 4 3. 0 | 6.9 5.5 | 3.9 3.4 | 2. 6 2. 4 | 6.0 4.8 | 3.2 3.2 | 3. 5 3. 4 | 4.0 3.5 | 1.7 2.0 | 1.9 2.0 | 2.5 2.4 | .6 | .8 | . 4 |
| products Petroleum and coal | 3.7 | 2.4 | 4.9 | 3.2 | 1.8 | 4.2 | 2.5 | 2.5 | 2.9 | 1.2 | 1.2 | 1.5 | .6 | .6 | .6 |
| Products Rubber and plastics | 4. 4 | 2.9 | 5.3 | 4.0 | 2.5 | 4.6 | 2.5 | 2.4 | 2.2 | 1.1 | 1.0 | 1.3 | .8 | .7 | .3 |
| products, n.e.c Leather and leather | 6.4 | 4.9 | 7.7 | 5.0 | 3.5 | 6.6 | 5.3 | 5.1 | 5.3 | 2.8 | 2.8 | 3.4 | 1.1 | 1.2 | .7 |
| products | 6.6 | 5.9 | 7.0 | 4.9 | 4.3 | 5,7 | 5.2 | 5.9 | 5.8 | 3.1 | 3.4 | 3.9 | 1.0 | 1.5 | .9 |

¹ For comparability of data with those published in issues prior to July 1970, see footnote 1, table 11. For relationship to employment series see footnote 1, table 15.
² These data have been seasonally adjusted to reflect experience through February 1970. For additional detail see June 1970 issue of Employment and Earnings.

NOTE: For additional detail see Employment and Earnings, table D-2. p=preliminary.

17. Gross hours and earnings of production and nonsupervisory workers ¹ on private nonagricultural payrolls by industry division, 1947 to date

| | | Averages | | | Averages | | | Averages | | | Averages | |
|----------------------------------|-----------|----------------|------------------|--|---|---|--|---|---|------------------|----------------|--------------|
| Year | Weekly | Weekly | Hourly | Weekly | Weekly | Hourly | Weekly | Weekly | Hourly | Weekly | Weekly | Hourly |
| | earnings | hours | earnings | earnings | hours | earnings | earnings | hours | earnings | earnings | hours | earnings |
| | | Total private | | | Mining | | Con | tract construc | tion | | Manufacturing | |
| 1947 | \$45. 58 | 40. 3 | \$1.131 | \$59. 94 | 40. 8 | \$1.469 | \$58. 87 | 38. 2 | \$1.541 | \$49. 17 | 40. 4 | \$1.217 |
| 1948 | 49. 00 | 40. 0 | 1.225 | 65. 56 | 39. 4 | 1.664 | 65. 27 | 38. 1 | 1.713 | 53. 12 | 40. 0 | 1.328 |
| 1949 | 50. 24 | 39. 4 | 1.275 | 62. 33 | 36. 3 | 1.717 | 67. 56 | 37. 7 | 1.792 | 53. 88 | 39. 1 | 1.378 |
| 1950 | 53. 13 | 39. 8 | 1.335 | 67. 16 | 37. 9 | 1.772 | 69. 68 | 37. 4 | 1.863 | 58. 32 | 40. 5 | 1.440 |
| 951 | 57. 86 | 39. 9 | 1. 45 | 74. 11 | 38. 4 | 1. 93 | 76. 96 | 38. 1 | 2. 02 | 63. 34 | 40. 6 | 1. 56 |
| 952 | 60. 65 | 39. 9 | 1. 52 | 77. 59 | 38. 6 | 2. 01 | 82. 86 | 38. 9 | 2. 13 | 67. 16 | 40. 7 | 1. 65 |
| 953 | 63. 76 | 39. 6 | 1. 61 | 83. 03 | 38. 8 | 2. 14 | 86. 41 | 37. 9 | 2. 28 | 70. 47 | 40. 5 | 1. 74 |
| 954 | 64. 52 | 39. 1 | 1. 65 | 82. 60 | 38. 6 | 2. 14 | 88. 91 | 37. 2 | 2. 39 | 70. 49 | 39. 6 | 1. 78 |
| 955 | 67. 72 | 39. 6 | 1. 71 | 89. 54 | 40. 7 | 2. 20 | 90. 90 | 37. 1 | 2. 45 | 75. 70 | 40. 7 | 1. 86 |
| 956 | 70. 74 | 39. 3 | 1. 80 | 95. 06 | 40. 8 | 2. 33 | 96. 38 | 37. 5 | 2. 57 | 78. 78 | 40. 4 | 1. 95 |
| | 73. 33 | 38. 8 | 1. 89 | 98. 65 | 40. 1 | 2. 46 | 100. 27 | 37. 0 | 2. 71 | 81. 59 | 39. 8 | 2. 05 |
| | 75. 08 | 38. 5 | 1. 95 | 96. 08 | 38. 9 | 2. 47 | 103. 78 | 36. 8 | 2. 82 | 82. 71 | 39. 2 | 2. 11 |
| | 78. 78 | 39. 0 | 2. 02 | 103. 68 | 40. 5 | 2. 56 | 108. 41 | 37. 0 | 2. 93 | 88. 26 | 40. 3 | 2. 19 |
| | 80. 67 | 38. 6 | 2. 09 | 105. 44 | 40. 4 | 2. 61 | 113. 04 | 36. 7 | 3. 08 | 89. 72 | 39. 7 | 2. 26 |
| 961 | 82, 60 | 38. 6 | 2. 14 | 106. 92 | 40. 5 | 2. 64 | 118. 08 | 36. 9 | 3. 20 | 92. 34 | 39. 8 | 2. 32 |
| 962 | 85, 91 | 38. 7 | 2. 22 | 110. 43 | 40. 9 | 2. 70 | 122. 47 | 37. 0 | 3. 31 | 96. 56 | 40. 4 | 2. 39 |
| 963 | 88, 46 | 38. 8 | 2. 28 | 114. 40 | 41. 6 | 2. 75 | 127. 19 | 37. 3 | 3. 41 | 99. 63 | 40. 5 | 2. 46 |
| 964 | 91, 33 | 38. 7 | 2. 36 | 117. 74 | 41. 9 | 2. 81 | 132. 06 | 37. 2 | 3. 55 | 102. 97 | 40. 7 | 2. 53 |
| 965 | 95, 06 | 38. 8 | 2. 45 | 123. 52 | 42. 3 | 2. 92 | 138. 38 | 37. 4 | 3. 70 | 107. 53 | 41. 2 | 2. 61 |
| 966967968969 | 98. 82 | 38. 6 | 2. 56 | 130. 24 | 42. 7 | 3. 05 | 146. 26 | 37. 6 | 3. 89 | 112. 34 | 41. 3 | 2.72 |
| | 101. 84 | 38. 0 | 2. 68 | 135. 89 | 42. 6 | 3. 19 | 154. 95 | 37. 7 | 4. 11 | 114. 90 | 40. 6 | 2.83 |
| | 107. 73 | 37. 8 | 2. 85 | 142. 71 | 42. 6 | 3. 35 | 164. 93 | 37. 4 | 4. 41 | 122. 51 | 40. 7 | 3.01 |
| | 114. 61 | 37. 7 | 3. 04 | 154. 80 | 43. 0 | 3. 60 | 181. 16 | 37. 9 | 4. 78 | 129. 51 | 40. 6 | 3.19 |
| | Transport | ation and publ | ic utilities | Whole | sale and retai | l trade | Finance, in | surance, and | real estate | | Services | |
| 947 948 949 950 | | | | \$38. 07 40. 80 42. 93 44. 55 | 40. 5 40. 4 40. 5 40. 5 | \$0.940 1.010 1.060 1.100 | \$43. 21 45. 48 47. 63 50, 52 | 37. 9 37. 9 37. 8 37. 7 | \$1.140 1.200 1.260 1.340 | | | |
| 951 952 953 954 955 | | | | 47. 79 49. 20 51. 35 53. 33 55. 16 | 40. 5 40. 0 39. 5 39. 5 39. 4 | 1. 18 1. 23 1. 30 1. 35 1. 40 | 54. 67 57. 08 59. 57 62. 04 63. 92 | 37. 7 37. 8 37. 7 37. 6 37. 6 | 1. 45 1. 51 1. 58 1. 65 1. 70 | | | |
| 956 | | | | 57. 48 59. 60 61. 76 64. 41 66. 01 | 39. 1 38. 7 38. 6 38. 8 38. 6 | 1. 47 1. 54 1. 60 1. 66 1. 71 | 65. 68 67. 53 70. 12 72. 74 75. 14 | 36. 9 36. 7 37. 1 37. 3 37. 2 | 1. 78 1. 84 1. 89 1. 95 2. 02 | | | |
| 961 962 963 964 1965 | | 41, 1 41, 3 | \$2. 88 3, 03 | 67. 41 69. 91 72. 01 74. 28 76. 53 | 38. 3 38. 2 38. 1 37. 9 37. 7 | 1. 76 1. 83 1. 89 1. 96 2. 03 | 77. 12 80. 94 84. 38 85. 79 88. 91 | 36. 9 37. 3 37. 5 37. 3 37. 2 | 2. 09 2. 17 2. 25 2. 30 2. 39 | \$69.84 73.60 | 36, 0 35, 9 | \$1.9 2.0 |
| 1966 | 128. 13 | 41. 2 | 3. 11 | 79. 02 | 37. 1 | 2. 13 | 92. 13 | 37. 3 | 2. 47 | 77. 04 | 35, 5 | 2, 1 |
| 1967 | 131. 22 | 40. 5 | 3. 24 | 81. 76 | 36. 5 | 2. 24 | 95. 46 | 37. 0 | 2. 58 | 80. 38 | 35, 1 | 2, 2 |
| 1968 | 138. 85 | 40. 6 | 3. 42 | 86. 40 | 36. 0 | 2. 40 | 101. 75 | 37. 0 | 2. 75 | 84. 32 | 34, 7 | 2, 4 |
| 1969 | 147. 74 | 40. 7 | 3. 63 | 91. 14 | 35. 6 | 2. 56 | 108. 33 | 37. 1 | 2. 92 | 91. 26 | 34, 7 | 2, 6 |

¹For comparability of data with those published in issues prior to July 1970, see footnote 1, table 11.

Data relate to production workers in mining and manufacturing: to construction workers in contract construction: and to nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and

services. These groups account for approximately four-fifths of the total employment on private nonagricultural payrolls.

² Data include Alaska and Hawaii beginning 1959.

NOTE: For additional detail see Employment and Earnings, table C-1.

18. Gross average weekly hours of production or nonsupervisory workers ¹ on private nonagricultural payrolls, by industry division and major manufacturing group

| Industry division and group | | | | 1970 | | | | | | 19 | 69 | | | Annual | average |
|---|------------------------------|------------------------------|------------------------------|----------------------------------|----------------------------------|----------------------------------|------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| manuf amount and group | July 1970° | June 1970 p | May 1970 | Apr. 1970 | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 | 1968 |
| TOTAL PRIVATE | 37.6 | 37.4 | 37.0 | 36.9 | 37.2 | 37. 0 | 37.1 | 37.7 | 37. 5 | 37. 6 | 37.9 | 38, 1 | 38, 0 | 37.7 | 37. |
| MINING | 42.8 | 42.8 | 42.7 | 43.1 | 42.4 | 42.6 | 42.3 | 43.3 | 43, 3 | 43.3 | 43. 4 | 43. 6 | 43. 0 | 43. 0 | 42. |
| CONTRACT CONSTRUCTION | 38.7 | 38.5 | 38.1 | 37. 9 | 37. 2 | 36, 8 | 35.7 | 37. 6 | 37.1 | 38. 3 | 39. 3 | 39. 1 | 38. 7 | 37. 9 | 333 |
| MANUFACTURING | 39. 7 2. 9 | 40. 0 3. 1 | 39. 8 2. 9 | 39. 7 2. 8 | 40. 0 3. 0 | 39. 8 3. 0 | 40.1 | 41. 0 | 40.6 | 40.7 | 41.0 | 40.6 | 40. 4 | 40.6 | 37. 4 40. 1 3. 0 |
| Durable Goods Overtime hours | 40.1 2.8 | 40. 7 3. 2 | 40.3 2.9 | 40. 2 2. 8 | 40. 6 3. 1 | 40. 3 3. 0 | 40. 7 3. 3 | 41.7 | 41. 2 | 41.4 | 41.7 | 41.1 | 40.9 | 41.3 | 41. 4 |
| Ordnance and accessories Lumber and wood products Furniture and fixtures Stone, clay, and glass | 40. 0 39. 3 37. 9 | 40.7 39.9 39.0 | 40. 8 40. 1 38. 5 | 40. 8 39. 8 38. 7 | 40. 8 39. 5 39. 1 | 40. 8 39. 4 38. 7 | 41. 0 39. 1 38. 9 | 41. 0 40. 1 40. 8 | 40. 6 39. 9 40. 3 | 40. 3 40. 3 40. 6 | 40. 6 40. 3 40. 7 | 40. 2 40. 2 40. 8 | 39. 8 39. 7 39. 7 | 40. 4 40. 2 40. 4 | 41. 5 40. 6 40. 6 |
| products | 41.6 | 41.6 | 41.5 | 41.5 | 41.3 | 40.9 | 40.9 | 42.9 | 41.9 | 42.1 | 42.4 | 42.4 | 41.8 | 42.0 | 41.8 |
| Primary metal industries Fabricated metal products Machinery, except electrical Electrical equipment and | 40.3 40.6 40.7 | 40.7 41.1 41.2 | 40. 4 40. 7 41. 1 | 40. 4 40. 6 41. 4 | 40, 8 40, 9 42, 1 | 40. 8 40. 6 41. 9 | 41. 3 41. 0 42. 2 | 41.7 41.8 43.1 | 41. 4 41. 6 42. 2 | 41. 7 41. 7 42. 4 | 42. 1 42. 1 42. 7 | 41. 8 41. 7 42. 9 | 41. 6 41. 2 41. 8 | 41. 8 41. 6 42. 5 | 41.6 41.7 42.1 |
| supplies Transportation equipment Instruments and related | 39. 1 40. 5 | 39. 8 41. 6 | 39. 6 40. 4 | 39. 6 39. 2 | 40. 1 40. 0 | 39. 7 39. 6 | 40. 3 40. 1 | 40. 9 42. 2 | 40. 5 41. 5 | 40. 4 41. 9 | 40. 7 42. 3 | 40. 3 40. 5 | 39. 8 41. 6 | 40. 4 41. 5 | 40. 3 42. 2 |
| products | 39.5 | 40.0 | 40.0 | 40.3 | 40.7 | 40.2 | 40.5 | 41.3 | 41.1 | 40.9 | 41.2 | 40.7 | 40, 5 | 40.7 | 40. 5 |
| Miscellaneous manufacturing industries | 38.2 | 38.7 | 38.6 | 38. 8 | 39. 0 | 38. 8 | 38. 8 | 39. 5 | 39. 3 | 39. 3 | 39. 2 | 39. 1 | 38. 5 | 39. 0 | 39, 4 |
| Nondurable goods Overtime hours | 39. 2 2. 9 | 39. 2 3. 0 | 39. 0 2. 9 | 39. 0 2. 8 | 39, 2 3, 0 | 39. 1 3. 0 | 39. 2 3. 1 | 40. 0 3. 4 | 39. 8 3. 4 | 39. 7 3. 5 | 40. 0 3. 7 | 39. 9 3. 5 | 39. 8 3. 4 | 39. 7 3. 4 | 39. 8 |
| Food and kindred products Tobacco manufactures Textile mill products Apparel and other textile | 40.7 37.7 40.0 | 40. 5 38. 1 40. 2 | 40. 5 36. 8 39. 7 | 39. 9 37. 1 39. 9 | 40. 0 36. 4 40. 1 | 40, 0 36, 9 40, 0 | 40. 5 37. 2 40. 0 | 41. 0 36. 8 41. 3 | 41. 0 37. 3 41. 1 | 40. 7 38. 6 40. 9 | 41. 8 39. 0 41. 0 | 41. 4 37. 5 41. 0 | 41. 2 37. 6 40. 7 | 40. 8 37. 4 40. 8 | 40. 8 37. 9 41. 2 |
| products | 35.5 | 35.4 | 35.1 | 35. 4 | 35. 8 | 35. 5 | 35. 2 | 35. 9 | 35. 8 | 35, 8 | 35. 8 | 36. 3 | 35. 9 | 35.9 | 36, 1 |
| Paper and allied products Printing and publishing Chemicals and allied products_ Petroleum and coal products_ Rubber and plastics prod- | 41.7 37.7 41.3 43.5 | 41.8 37.7 41.4 42.8 | 41.8 37.6 41.6 42.8 | 41. 7 37. 7 41. 6 42. 2 | 42. 0 38. 0 41. 8 41. 8 | 41. 9 37. 8 41. 6 41. 8 | 42.4 37.7 41.7 41.9 | 43. 2 39. 0 42. 9 41. 7 | 42. 9 38. 4 42. 0 42. 7 | 43. 1 38. 4 41. 7 42. 9 | 43. 3 38. 6 41. 8 42. 6 | 43. 1 38. 6 41. 7 42. 9 | 43. 0 38. 4 41. 7 43. 6 | 43. 0 38. 4 41. 8 42. 6 | 42. 9 38. 3 41. 8 42. 5 |
| ucts, nec Leather and leather products_ | 40.3 37.6 | 40. 2 37. 9 | 39.9 37.5 | 40. 3 36. 3 | 40. 4 37. 1 | 40. 6 37. 4 | 40. 7 37. 7 | 41. 5 38. 3 | 41. 1 37. 4 | 41. 3 37. 0 | 41. 5 36. 8 | 41. 0 37. 1 | 40. 8 37. 4 | 41. 1 37. 2 | 41.5 38.3 |
| RANSPORTATION AND PUBLIC UTILITIES | 41.0 | 40.7 | 40.4 | 39. 8 | 40.2 | 40. 5 | 40. 5 | 40.8 | 40.9 | 41.0 | 41. 0 | 40, 8 | 41.1 | 40, 7 | 40, 6 |
| WHOLESALE AND RETAIL TRADE. | 36.3 | 35.6 | 35.0 | 34.9 | 35. 0 | 35. 0 | 35, 1 | 35.7 | 35. 2 | 35. 3 | 35, 7 | 36, 6 | 36, 5 | 35. 6 | 36, 0 |
| Wholesale trade Retail trade | 40.3 35.0 | 40. 1 34. 2 | 39. 9 33. 5 | 39. 9 33. 3 | 40. 0 33. 4 | 40. 0 33. 3 | 40. 2 33. 4 | 40.7 34.1 | 40, 2 33, 6 | 40. 3 33. 7 | 40. 3 34. 2 | 40. 5 35. 3 | 40. 3 35. 2 | 40. 2 | 40. 1 34. 7 |
| INANCE, INSURANCE, AND REAL ESTATE | 36.9 | 36.7 | 36.7 | 36. 9 | 37. 0 | 37. 0 | 36, 9 | 37. 0 | 37. 2 | 37. 1 | 37. 0 | 37. 0 | 37.1 | 37.1 | 37. 0 |
| ERVICES | 34.9 | 34.5 | 34.3 | 34.3 | 34.7 | 34. 3 | 34. 3 | 34. 6 | 34. 6 | 34. 5 | 34.6 | 35. 3 | 35. 3 | 34.7 | 34.7 |

¹ For comparability of data with those published in issues prior to July 1970, see footnote 1, table 11. For employees covered, see footnote 1, table 17.

NOTE: For additional detail, see Employment and Earnings, table C-2. $p\!=\!\text{preliminary}$.

19. Gross average weekly hours of production or nonsupervisory workers ¹ on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted

| Industry division and group | | | 19 | 70 | | | | | | 1969 | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|---|--|
| | Julyp | Junep | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July |
| TOTAL PRIVATE | 37.3 | 37.2 | 37.1 | 37.2 | 37. 4 | 37.3 | 37. 5 | 37.6 | 37.6 | 37. 5 | 37.7 | 37.7 | 37. |
| MINING | 42.4 | 42.3 | 42.6 | 43.1 | 43. 2 | 43.4 | 42.7 | 43, 2 | 43. 5 | 43. 0 | 43.1 | 43.1 | 42. |
| CONTRACT CONSTRUCTION | 37.6 | 37.7 | 38.1 | 38.3 | 38. 0 | 38. 2 | 36.7 | 38. 2 | 38. 1 | 37.6 | 38. 1 | 37.9 | 37. |
| MANUFACTURINGOvertime hours | 39.9 3.0 | 39. 8 3. 1 | 39. 8 2. 9 | 40. 0 3. 0 | 40. 2 3. 2 | 39. 9 3. 2 | 46. 3 3. 3 | 40. 7 3. 5 | 40. 5 3. 5 | 40. 5 3. 5 | 40. 7 3. 6 | 40. 6 3. 6 | 40.6 |
| Durable Goods Overtime hours | 40. 5 3. 0 | 40. 5 3. 2 | 40. 3 3. 0 | 40. 4 3. 0 | 40. 7 3. 2 | 40. 5 3. 2 | 41. 0 3. 4 | 41. 3 3. 6 | 41. 1 3. 5 | 41. 2 3. 6 | 41. 4 3. 8 | 41. 2 3. 8 | 41. 3 |
| Ordnance and accessories Lumber and wood products Furniture and fixtures. Stone, clay, and glass products Primary metal industries. Fabricated metal products Machinery, except electrical Electrical equipment and supplies Transportation equipment Instruments and related products. | 40. 5 39. 4 38. 4 41. 5 40. 4 41. 0 41. 2 39. 7 41. 0 39. 9 | 40. 6 39. 4 38. 8 41. 2 40. 4 40. 9 41. 1 39. 7 41. 6 39. 9 | 40. 8 39. 7 38. 8 41. 3 40. 2 40. 6 41. 1 39. 7 40. 3 40. 1 | 41. 1 39. 8 39. 3 41. 6 40. 1 40. 9 41. 4 40. 0 39. 7 40. 5 | 41. 1 39. 5 39. 4 41. 8 40. 7 41. 2 41. 8 40. 2 40. 4 40. 7 | 41. 3 40. 1 39. 3 41. 7 40. 9 41. 1 41. 9 39. 7 40. 3 40. 2 | 40. 6 39. 6 39. 5 41. 7 41. 2 41. 4 42. 2 40. 5 40. 2 40. 7 | 40. 5 40. 3 40. 0 42. 1 41. 7 41. 5 42. 6 40. 3 41. 4 40. 9 | 40. 3 40. 2 40. 0 41. 8 41. 6 41. 4 42. 2 40. 1 40. 7 40. 9 | 40. 2 39. 9 39. 9 41. 7 42. 1 41. 4 42. 4 40. 2 41. 2 40. 7 | 40. 3 40. 0 40. 1 41. 9 42. 1 41. 5 42. 6 40. 4 41. 6 41. 0 | 40. 4 39. 9 40. 3 41. 9 41. 6 42. 5 40. 4 41. 2 40. 9 | 40.3 39.8 40.2 41.7 41.6 42.4 40.4 42.1 40.9 |
| Miscellaneous manufacturing industries | 38.9 | 38.6 | 38.7 | 39.0 | 39. 0 | 38.6 | 39. 3 | 39. 3 | 39. 3 | 38.9 | 39.0 | 39. 1 | 39. 2 |
| Nondurable Goods- Overtime hours- | 39. 2 2. 9 | 39. 0 3. 0 | 39. 1 3. 0 | 39. 4 3. 0 | 39. 4 3. 2 | 39. 3 3. 2 | 39. 6 3. 4 | 39. 8 3. 3 | 39. 6 3. 3 | 39. 6 3. 3 | 39. 7 3. 3 | 39. 7 3. 4 | 39. 8 3. 4 |
| Food and kindred products | 40. 2 38. 1 40. 4 35. 6 | 40. 3 37. 5 39. 9 35. 2 | 40. 7 37. 1 39. 8 35. 1 | 40. 6 38. 3 40. 6 35. 5 | 40. 5 37. 5 40. 2 35. 6 | 40. 7 37. 3 40. 1 35. 5 | 41. 0 38. 3 40. 4 35. 6 | 40. 8 36. 2 40. 9 36. 6 | 40. 8 37. 2 40. 7 35. 8 | 40. 6 37. 3 40. 6 35. 8 | 40.9 37.4 40.7 35.8 | 40. 9 37. 2 40. 9 35. 9 | 40. 7 38. 0 41. 1 36. 0 |
| Paper and allied products | 41.7 37.8 41.4 42.7 40.7 37.3 | 41.7 37.7 41.4 42.6 40.2 37.5 | 41.8 37.7 41.5 42.5 40.0 37.7 | 42.1 37.9 41.4 41.9 40.7 37.4 | 42. 2 38. 0 41. 8 42. 2 46. 7 37. 4 | 42. 3 38. 0 41. 8 42. 7 41. 0 37. 1 | 42. 8 38. 2 42. 0 42. 5 40. 9 37. 5 | 42. 8 38. 6 41. 8 42. 3 41. 1 37. 7 | 42. 7 38. 4 41. 8 42. 6 40. 8 37. 3 | 42. 8 38. 2 41. 7 42. 6 40. 9 37. 2 | 42. 9 38. 3 41. 8 42. 2 41. 0 37. 1 | 42. 9 38. 4 41. 8 42. 8 40. 9 36. 9 | 43. 0 38. 5 41. 8 42. 8 41. 2 37. 1 |
| TRANSPORTATION AND PUBLIC UTILITIES | 40.6 | 40.6 | 40.6 | 40.2 | 46.6 | 40.7 | 40.7 | 40.8 | 40.7 | 40.9 | 40, 8 | 40, 5 | 40.7 |
| WHOLESALE AND RETAIL TRADE | 35. 5 | 35. 4 | 35. 4 | 35.3 | 35. 3 | 35. 4 | 35. 4 | 35. 5 | 35. 5 | 35, 5 | 35.6 | 35. 7 | 35. 7 |
| Wholesale TradeRetail trade | 40. 0 34. 0 | 40. 0 33. 9 | 40. 1 33. 9 | 40. 1 33. 7 | 40. 1 33. 8 | 40. 2 33. 7 | 40. 3 33. 8 | 40. 5 33. 8 | 40. 3 34. 0 | 40. 3 34. 0 | 40. 3 34. 1 | 40. 3 | 40. 0 |
| INANCE, INSURANCE, AND REAL ESTATE | 36.9 | 36.7 | 36.8 | 36.9 | 37.0 | 37. 0 | 36. 9 | 36. 9 | 37. 2 | 37. 0 | 37. 1 | 37. 0 | 37. 1 |
| SERVICES | 34.6 | 34.4 | 34.5 | 34. 4 | 34.7 | 34, 4 | 34. 4 | 34. 6 | 34. 7 | 34.6 | 34. 7 | 35. 0 | 35. 0 |

 $^{^{1}}$ For comparability of data with those published in issues prior to July 1970, see footnote 1, table 11. For employees covered, see footnote 1, table 17. $p\!=\!p$ eliminary.

NOTE: These data have been seasonally adjusted to reflect experience through February 1970. For additional detail see June 1970 issue of Employment and Earnings.

20. Gross average hourly earnings of production or nonsupervisory workers ¹ on private nonagricultural payrolls, by industry division and major manufacturing group

| Industry and division group | | | | 1970 | | | | | | 1 | 969 | | | Annual | average |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | July » | June p | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 | 1968 |
| TOTAL PRIVATE | \$3.22 | \$3.21 | \$3.20 | \$3.18 | \$3.17 | \$3.15 | \$3.13 | \$3.12 | \$3.13 | \$3.12 | \$3.11 | \$3.06 | \$3.05 | \$3.04 | \$2.8 |
| MINING | 3.80 | 3. 82 | 3.80 | 3.79 | 3.78 | 3.77 | 3.76 | 3.71 | 3.72 | 3.69 | 3. 65 | 3, 60 | 3, 59 | 3, 60 | 3. 3 |
| CONTRACT CONSTRUCTION | 5. 17 | 5. 11 | 5.10 | 5. 09 | 5. 06 | 5.06 | 5. 07 | 5, 03 | 4. 97 | 4.96 | 4, 92 | 4, 80 | 4. 76 | 4. 78 | 4.4 |
| MANUFACTURING | 3.36 | 3.36 | 3.34 | 3. 32 | 3. 31 | 3. 29 | 3. 29 | 3, 29 | 3. 26 | 3, 25 | 3, 24 | 3. 20 | 3. 19 | 3. 19 | 3. 0 |
| Durable Goods | 3.56 | 3.57 | 3. 55 | 3. 52 | 3, 51 | 3. 48 | 3. 49 | 3. 49 | 3, 46 | 3, 45 | 3. 44 | 3. 39 | 3. 38 | 3. 39 | 3. 19 |
| Ordnance and acces- | 3.62 | 3. 58 | 3. 59 | 3. 58 | 3. 57 | 3, 54 | 3, 53 | 3. 51 | 3. 53 | 3. 48 | 3. 46 | 3. 43 | 3. 41 | 3. 42 | 3. 20 |
| Lumber and wood products | 2.92 | 2.98 | 2.92 | 2, 88 | 2.86 | 2.84 | 2.83 | 2. 84 | 2. 86 | 2. 83 | 2.84 | 2.79 | 2.75 | 2.74 | |
| Furniture and fixtures Stone, clay, and glass products | 2.76 | 2. 76 3. 40 | 2.75 | 2. 73 | 2. 71 3. 32 | 2. 70 3. 28 | 2.71 | 2.71 | 2.70 | 2. 68 | 2. 68 | 2. 64 | 2. 75 2. 62 3. 19 | 2. 62 | 2. 57 2. 47 2. 99 |
| Primary metal indus- | 3.90 | 3.92 | 3.90 | 3. 87 | 3. 86 | 3. 85 | 3. 86 | 3. 87 | 3. 85 | 3. 85 | 3. 87 | 3. 84 | 3. 79 | 3. 79 | 3. 55 |
| Fabricated metal products | 3.54 | 3. 54 | 3.52 | 3.50 | 3. 48 | 3.46 | 3. 45 | 3.44 | 3.41 | 3, 39 | 3, 40 | 3. 34 | 3. 33 | 3, 34 | 3. 16 |
| Machinery, except electrical | 3.76 | 3.76 | 3.77 | 3.75 | 3.75 | 3.72 | 3.70 | 3.72 | 3. 67 | 3. 67 | 3. 63 | 3, 57 | 3, 56 | 3. 58 | 3. 36 |
| Electrical equipment and supplies | 3.33 | 3.30 | 3.27 | 3. 24 | 3. 24 | 3.20 | 3. 18 | 3. 17 | 3. 13 | 3. 13 | 3. 13 | 3.10 | 3, 09 | 3. 09 | 2. 93 |
| ment | 4.07 | 4.11 | 4. 06 | 4.00 | 4. 01 | 3.97 | 4. 02 | 4. 04 | 3. 98 | 3. 95 | 3.94 | 3. 92 | 3. 90 | 3.90 | 3. 69 |
| Instruments and related products | 3.34 | 3.31 | 3.30 | 3. 29 | 3. 28 | 3. 27 | 3. 26 | 3. 25 | 3. 23 | 3. 21 | 3. 19 | 3. 15 | 3. 13 | 3. 15 | 2, 98 |
| Miscellaneous manufac- turing industries | 2.80 | 2. 82 | 2. 81 | 2.80 | 2.80 | 2.80 | 2.79 | 2.76 | 2.72 | 2, 69 | 2. 68 | 2. 64 | 2. 64 | 2, 66 | 2. 50 |
| Nondurable Goods | 3.09 | 3.06 | 3.05 | 3. 04 | 3. 03 | 3. 01 | 3. 01 | 2.99 | 2.97 | 2.96 | 2.95 | 2. 92 | 2.92 | 2. 91 | 2.74 |
| Food and kindred products Tobacco manufactures Textile mill products Apparel and other tex- tile products | 3. 17 3. 01 2. 43 2. 38 | 3. 15 3. 02 2. 44 2. 38 | 3. 16 2. 99 2. 43 2. 36 | 3. 12 2. 98 2. 42 2. 37 | 3. 10 2. 90 2. 42 2. 37 | 3. 08 2. 89 2. 42 2. 36 | 3. 08 2. 86 2. 42 2. 36 | 3. 04 2. 67 2. 42 2. 35 | 3. 01 2. 62 2. 42 2. 34 | 2. 98 2. 49 2. 41 2. 34 | 2. 97 2. 51 2. 41 | 2. 94 2. 49 2. 38 | 2. 97 2. 77 2. 35 | 2. 96 2. 62 2. 34 | 2. 80 2. 48 2. 21 |
| Paper and allied | 2.00 | 2.30 | 2.50 | 2.37 | 2.37 | 2. 30 | 2. 30 | 2. 33 | 2. 34 | 2. 34 | 2. 34 | 2. 31 | 2. 28 | 2. 31 | 2. 21 |
| products Printing and publishing Chemicals and allied | 3. 46 3. 90 | 3. 42 3. 90 | 3. 40 3. 88 | 3. 37 3. 85 | 3. 35 3. 84 | 3. 35 3. 81 | 3. 35 3. 80 | 3. 34 3. 81 | 3. 32 3. 78 | 3. 31 3. 77 | 3. 31 3. 75 | 3. 28 3. 70 | 3. 27 3. 68 | 3. 24 3. 69 | 3. 05 3. 48 |
| products Petroleum and coal | 3.73 | 3.68 | 3.64 | 3.61 | 3.60 | 3. 60 | 3.60 | 3. 58 | 3. 56 | 3. 55 | 3. 52 | 3.50 | 3.49 | 3.47 | 3. 26 |
| products Rubber and plastics | 4.28 | 4.22 | 4. 25 | 4. 26 | 4. 23 | 4. 23 | 4. 21 | 4.10 | 4.10 | 4. 06 | 4. 04 | 3.99 | 4. 03 | 4.00 | 3.75 |
| products, necLeather and leather | 3.20 | 3.13 | 3.09 | 3.16 | 3. 15 | 3.14 | 3. 15 | 3.14 | 3. 13 | 3.12 | 3.13 | 3. 08 | 3. 09 | 3. 07 | 2.92 |
| products | 2.48 | 2.49 | 2.49 | 2. 48 | 2. 47 | 2. 47 | 2. 46 | 2.44 | 2. 42 | 2.40 | 2.38 | 2. 35 | 2. 34 | 2. 36 | 2. 23 |
| RANSPORTATION AND PUBLIC UTILITIES | 3.85 | 3. 83 | 3.79 | 3. 75 | 3.75 | 3. 75 | 3. 73 | 3. 72 | 3. 72 | 3.70 | 3.71 | 3. 67 | 3. 65 | 3. 63 | 3. 42 |
| WHOLESALE AND RETAIL TRADE. | 2.70 | 2.70 | 2.70 | 2.69 | 2. 68 | 2.68 | 2. 65 | 2. 61 | 2. 63 | 2. 61 | 2.59 | 2. 56 | 2.55 | 2. 56 | 2, 40 |
| Wholesale trade Retail trade | 3. 41 2. 44 | 3. 40 2. 43 | 3. 41 2. 43 | 3. 40 2. 41 | 3. 40 2. 41 | 3. 38 2. 40 | 3. 35 2. 38 | 3. 34 2. 35 | 3. 33 2. 36 | 3. 29 2. 35 | 3. 28 2. 33 | 3. 24 2. 30 | 3. 23 2. 30 | 3. 23 2. 30 | 3. 05 2. 16 |
| NANCE, INSURANCE, AND REAL ESTATE | 3.05 | 3.04 | 3.04 | 3. 03 | 3. 05 | 3. 04 | 3. 02 | 2. 98 | 2.99 | 2.95 | 2, 93 | 2. 92 | 2. 91 | 2. 92 | 2. 75 |
| ERVICES | 2.81 | 2.81 | 2.80 | 2.79 | 2.79 | 2.77 | 2.74 | 2.72 | 2.72 | 2.69 | 2, 67 | 2, 62 | 2, 63 | 2. 63 | 2. 43 |

 $^{^{\}rm 1}$ For comparability of data with those published in issues prior to July 1970, see footnote 1, table 11. For employees covered, see footnote 1, table 17.

NOTE: For additional detail see Employment and Earnings, table C-2. $p\!=\!$ preliminary.

21. Gross average weekly earnings of production or nonsupervisory workers ¹ on private nonagricultural payrolls, by industry division and major manufacturing group

| | | | | 1970 | | | | | | 1 | 969 | | | Annual | average |
|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------|------------------------------|--------------------------|--------------------------|
| Industry division and group | July » | June p | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 | 1968 |
| OTAL PRIVATE | \$121.07 | \$120.05 | \$118.40 | \$117.34 | \$117.92 | \$116.55 | \$116.12 | \$117.62 | \$117.38 | \$117.31 | \$117.87 | \$116.59 | \$115.90 | \$114.61 | \$107.7 |
| MINING | 162.64 | 163.50 | , 162. 26 | 163.35 | 160. 27 | 160.60 | 159.05 | 160.64 | 161.08 | 159.78 | 158. 41 | 156.96 | 154. 37 | 154.80 | 142. 7 |
| CONTRACT CONSTRUCTION | 200.08 | 196.74 | 194.31 | 192.91 | 188. 23 | 186. 21 | 181.00 | 189.13 | 184.39 | 189.97 | 193.36 | 187.68 | 184. 21 | 181.16 | 164.9 |
| MANUFACTURING | 133.39 | 134.40 | 132.93 | 131.80 | 132, 40 | 130.94 | 131.93 | 134. 89 | 132. 36 | 132, 28 | 132, 84 | 129.92 | 128, 88 | 129.51 | 122. 5 |
| Durable goods | 142.76 | 145.30 | 143.07 | 141.50 | 142.51 | 140. 24 | 142. 04 | 145. 53 | 142, 55 | 142. 83 | 143. 45 | 139. 33 | 138. 24 | 140, 01 | 132.0 |
| Ordnance and accessories | 144.80 | 145.71 | 146. 47 | 146.06 | 145.66 | 144, 43 | 144. 73 | 143.91 | 143, 32 | 140, 24 | 140. 48 | 137. 89 | 135. 72 | 138. 17 | 135. 2 |
| Lumber and wood products Furniture and fixtures | 114.76 104.60 | 118.90 107.64 | 117. 09 105. 88 | 114.62 105.65 | 112.97 105.96 | 111.90 104.49 | 110.65 105.42 | 113. 88 110. 57 | 114.11 108.81 | 114. 05 108. 81 | 114. 45 109. 08 | 112. 16 107. 71 | 109.18 104.01 | 110. 15 105. 85 | 104. 3 100. 2 |
| Stone, clay, and glass products | 141.86 | 141.44 | 140. 27 | 139.03 | 137. 12 | 134. 15 | 134. 15 | 137. 76 | 137. 85 | 137.67 | 137.80 | 136. 53 | 133, 34 | 133.98 | 124.9 |
| Primary metal industries | 157.17 | 159.54 | 157.56 | 156.35 | 157. 49 | 157. 08 | 159. 42 | 161.38 | 159. 39 | 160, 55 | 162.93 | 160.51 | 157.66 | 158, 42 | 147.6 |
| Fabricated metal products | 143.72 | 145.49 | 143.26 | 142.10 | 142, 33 | 140. 48 | 141. 45 | 143.79 | 141, 86 | 141.36 | 143. 14 | 139. 28 | 137, 20 | 138.94 | 131.7 |
| Machinery, except electrical | 153. 03 | 154.91 | 154.95 | 155. 25 | 157. 88 | 155. 87 | 156. 14 | 160, 33 | 154. 87 | 155.61 | 155. 00 | 149.94 | 148. 81 | 152. 15 | 141.4 |
| Electrical equipment and supplies | 130. 20 | 131.34 | 129.49 | 128.30 | 129.92 | 127. 04 | 128. 15 | 129.65 | 126.77 | 126. 45 | 127. 39 | 124.93 | 122, 98 | 124. 84 | 118. 0 |
| Transportation equipment | 164.84 | 170.98 | 164.02 | 156.80 | 160.40 | 157. 21 | 161.20 | 170. 49 | 165. 17 | 165. 51 | 166.66 | 158.76 | 162. 24 | 161, 85 | 155. |
| Instruments and related products | 131.93 | 132.40 | 132.00 | 132.59 | 133, 50 | 131. 45 | 132. 03 | 134. 23 | 132. 75 | 131. 29 | 131. 43 | 128. 21 | 126.77 | 128. 21 | 120.6 |
| Miscellaneous manufac- turing industries | 106.96 | 109.13 | 108.47 | 108.64 | 109. 20 | 108.64 | 108, 25 | 109.02 | 106.90 | 105.72 | 105. 06 | 103, 22 | 101.64 | 103.74 | 98. 5 |
| Nondurable goods | 121.13 | 119.95 | 118.95 | 118.56 | 118.78 | 117.69 | 117.99 | 119.60 | 118. 21 | 117.51 | 118. 00 | 116.51 | 116. 22 | 115.53 | 109.0 |
| Food and kindred products Tobacco manufactures Textile mill products | 129. 02 113. 48 97. 20 | 127. 58 115. 06 98. 09 | 127. 98 110. 03 96. 47 | 124. 49 110. 56 96. 56 | 124. 00 105. 56 97. 04 | 123. 20 106. 64 96. 80 | 124.74 106.39 96.80 | 124. 64 98. 26 99. 95 | 123. 41 97. 73 99. 46 | 121, 29 96, 11 98, 57 | 124. 15 97. 89 98. 81 | 121.72 93.38 97.58 | 122. 36 104. 15 95. 65 | 120.77 97.99 95.47 | 114. 2 93. 9 91. 0 |
| Apparel and other textile products | 84.49 | 84.25 | 82.84 | 83.90 | 84. 85 | 83, 78 | 83, 07 | 84. 37 | 83, 77 | 83.77 | 83.77 | 83. 85 | 81. 85 | 82.93 | 79. |
| Paper and allied products Printing and publishing | 144. 28 147. 03 | | 142. 12 145. 89 | 140. 43 145. 15 | 140.70 145.92 | 140. 37 144. 02 | 142. 04 143. 26 | 144. 29 148. 59 | 142. 43 145. 15 | 142. 66 144. 77 | 143. 32 144. 75 | 141. 37 142. 82 | 140. 61 141. 31 | 139. 32 141. 70 | 130, 8 133, 2 |
| Chemicals and allied products | . 154. 05 | 152.35 | 151.42 | 150.18 | 150. 48 | 149.76 | 150, 12 | 150. 36 | 149. 52 | 148. 04 | 147. 14 | 145. 95 | 145. 53 | 145. 05 | 136. |
| Petroleum and coal products | 186.18 | 180.62 | 181.90 | 179.77 | 176. 81 | 176. 81 | 176. 40 | 170.97 | 175. 07 | 173.77 | 172.10 | 171.17 | 175.71 | 170.40 | 159. |
| Rubber and plastics products, n e c | 128.96 | 125.83 | 123. 29 | 127.35 | 127. 26 | 127. 48 | 128. 21 | 130, 31 | 128, 64 | 128.86 | 129.90 | 126, 28 | 126. 07 | 126. 18 | 121. |
| Leather and leather products | 93.26 | 94. 37 | 93. 83 | 90. 02 | 91.64 | 92.38 | 92.74 | 93. 45 | 90, 51 | 88. 80 | 87. 58 | 87. 19 | 87. 52 | 87. 79 | 85. |
| TRANSPORTATION AND PUBLIC UTILITIES | 157.85 | 155.88 | 153.12 | 149. 25 | 150.75 | 151, 88 | 151, 07 | 151.78 | 152. 15 | 151.70 | 152. 11 | 149.74 | 150, 02 | | 138. 8 |
| WHOLESALE AND RETAIL TRADE | 98. 01 | 96.12 | 94. 50 | 93.88 | 93.80 | 93. 80 | 93. 02 | 93.18 | 92.58 | 92. 13 | 92. 46 | 93.70 | | | 86. |
| Wholesale tradeRetail trade | 137. 42 | | 136.06 81.41 | | | | | | | 132, 59 79, 20 | | | | 129. 85 78. 66 | 122. 74. |
| FINANCE, INSURANCE, AND REAL | | 5 111.57 | 111.57 | 111.81 | 112.85 | 112. 48 | 111.44 | 110, 26 | 111. 23 | 109. 45 | 108. 41 | 108. 04 | 107.96 | 108, 33 | 101. |
| SERVICES | 98.07 | 96.95 | 96.04 | 95.70 | 96. 81 | 95. 01 | 93.98 | 94.11 | 94.11 | 92, 81 | 92.38 | 92, 49 | 92, 84 | 91.26 | 84. |

¹ For comparability of data with those published in issues prior to July 1970, see footnote 1, table 11. For employees covered, see footnote 1, table 17.

NOTE: For additional detail see Employment and Earnings, table C-2. p=preliminary.

96

22. Gross and spendable average weekly earnings of production or nonsupervisory workers 1 on private nonagricultural payrolls, in current and 1957-59 dollars, 1960 to date

| | | | Total | private | | | | | Manufa | acturing | | |
|---|---|--|--|--|---|--|---|---|---|--|---|--|
| * | Gross | average earnings | Spend | dable averag | e weekly ea | rnings | Gross a | average | Spend | dable averag | e weekly ea | rnings |
| Year and month | weekly | earnings | | with no idents | | r with 3 idents | weekly | earnings | Worker deper | with no | Worke | r with 3 idents |
| | Current dollars | 1957-59 dollars | Current | 1957-59 dollars | Current dollars | 1957-59 dollars | Current dollars | 1957-59 dollars | Current dollars | 1957-59 dollars | Current dollars | 1957-59 dollars |
| 1960 1961 1962 1963 1964 | \$80. 67 82. 60 85. 91 88. 46 91. 33 | \$78. 24 79. 27 81. 55 82. 91 84. 49 | \$65. 95 67. 08 69. 56 71. 05 75. 04 | \$63. 62 64. 38 66. 00 66. 59 69. 42 | \$72. 96 74. 48 76. 99 78. 56 82. 57 | \$70.77 71.48 73.05 73.63 76.38 | \$89. 72 92. 34 96. 56 99. 63 102. 97 | \$87. 02 88. 62 91. 61 93. 37 95. 25 | \$72. 57 74. 60 77. 86 79. 82 84. 40 | \$70.39 71.59 73.87 74.81 78.08 | \$80, 11 82, 18 85, 53 87, 58 92, 18 | \$77. 70 78. 87 81. 15 82. 08 85. 27 |
| 1965 | 95. 06 98. 82 101. 84 107. 73 114. 61 | 86. 50 87. 37 87. 57 88. 89 89. 75 | 78. 99 81. 29 83. 38 86. 71 90. 96 | 71.87 71.87 71.69 71.54 71.23 | 86. 30 88. 66 90. 86 95. 28 99. 99 | 78. 53 78. 39 78. 13 78. 61 78. 30 | 107. 53 112. 34 114. 90 122. 51 129. 51 | 97. 84 99. 33 98. 80 101. 08 101. 42 | 89. 08 91. 57 93. 28 97. 70 101. 90 | 81, 06 80, 96 80, 21 80, 61 79, 80 | 96. 78 99. 45 101. 26 106. 75 111. 44 | 88. 06 87. 93 87. 07 88. 08 87. 27 |
| 1969: June | 115, 22 115, 90 116, 59 117, 87 117, 31 117, 38 117, 62 | 90. 30 90. 41 90. 59 91. 16 90. 38 89. 95 89. 58 | 91. 40 91. 90 92. 41 93. 35 92. 94 92. 99 93. 17 | 71. 63 71. 68 71. 80 72. 20 71. 60 71. 26 70. 96 | 100. 46 100. 98 101. 51 102. 49 102. 06 102. 11 102. 30 | 78. 73 78. 77 78. 87 79. 27 78. 63 78. 25 77. 91 | 130, 06 128, 88 129, 92 132, 84 132, 28 132, 36 134, 89 | 101. 93 100. 53 100. 95 102. 74 101. 91 101. 43 102. 73 | 102. 30 101. 43 102. 20 104. 34 103. 93 103. 99 105. 85 | 80, 17 79, 12 79, 41 80, 70 80, 07 79, 69 80, 62 | 111. 86 110. 95 111. 75 114. 01 113. 57 113. 63 115. 61 | 87. 66 86. 54 86. 83 88. 17 87. 50 87. 07 |
| 970: January February March April May Junep | 116. 12 116. 55 117. 92 117. 34 118. 40 120. 05 | 88. 10 87. 96 88. 53 87. 57 87. 96 88. 79 | 93. 43 93. 76 94. 78 94. 35 95. 14 96. 38 | 70. 89 70. 76 71. 16 70. 41 70. 68 71. 29 | 101. 97 102. 32 103. 39 102. 95 103. 77 105. 08 | 77. 37 77. 22 77. 62 76. 83 77. 10 77. 72 | 131. 93 130. 94 132. 40 131. 80 132. 93 134. 40 | 100. 10 98. 82 99. 40 98. 36 98. 76 99. 41 | 105. 28 104. 53 105. 63 105. 18 106. 02 107. 03 | 79. 88 78. 89 79. 30 78. 49 78. 77 79. 24 | 114. 48 113. 69 114. 85 114. 37 115. 27 116. 43 | 86. 86 85. 80 86. 22 85. 35 85. 64 86. 12 |

¹ For comparability of data with those published in issues prior to July 19/0, see footnote 1, table 11. For employees covered, see footnote 1, table 17. Spendable average weekly earnings as rebased on gross average weekly earnings as published in table 21 less the estimated amount of the workers' federal social security and income tax liability. Since the amount of tax liability depends on the number of dependents supported by the worker as well as on the level of his gross income, spendable earnings have been computed for 2 types of income receivers: (1) A worker with no dependents and (2) a married worker with 3 dependents.

The earnings expressed in 1957-59 dollars have been adjusted for changes in purchasing power as measured by the Bureau's Consumer Price Index.

These series are described in "The Spendable Earnings Series: A Technical Note on its Calculation," in Employment and Earnings and Monthly Report on the Labor Force, February 1969, pp. 6-13.

NOTE: For additional detail see Employment and Earnings, table C-5. p=preliminary.

23. Consumer and Wholesale Price Indexes, annual averages and changes, 1949 to date 1

[Indexes: 1957-59=100]

| | | | Consum | er prices | | | | | Wholesa | le prices | | |
|------|--|--------------------------------------|--|--------------------------------------|--|--------------------------------------|--|-------------------------------------|--|---------------------------------------|--|--------------------------------------|
| Year | Alli | tems | Commo | odities | Serv | ices | All com | modities | Farm prod | lucts, proc- s, and feeds | Industrial | commodities |
| | Index | Percent change | Index | Percent change | Index | Percent change | Index | Percent change | Index | Percent change | Index | Percent change |
| 1949 | 83.0 | -1,0 | 87.1 | -2.6 | 72.6 | 4.6 | 83. 5 | -5.0 | 94.3 | -11, 7 | 80.0 | -2.1 |
| 1950 | 83. 8 90. 5 92. 5 93. 2 93. 6 | 1. 0 8. 0 2. 2 0. 8 0. 4 | 87. 6 95. 5 96. 7 96. 4 95. 5 | 0.6 9.0 1.3 3 9 | 75. 0 78. 9 82. 4 86. 0 88. 7 | 3.3 5.2 4.4 4.4 3.1 | 86. 8 96. 7 94. 0 92. 7 92. 9 | 4. 0 11. 4 -2. 8 -1. 4 | 98. 8 112. 5 108. 0 101. 0 100. 7 | 4.8 13.9 -4.0 -6.5 3 | 82. 9 91. 5 89. 4 90. 1 90. 4 | 3.6 10.4 -2.3 .8 |
| 1955 | 93.3 94.7 98.0 100.7 101.5 | 3 1.5 3.5 2.8 | 94.6 95.5 98.5 100.8 100.9 | 9 1.0 3.1 2.3 | 90. 5 92. 8 96. 6 100. 3 103. 2 | 2. 0 2. 5 4. 1 3. 8 2. 9 | 93. 2 96. 2 99. 0 100. 4 100. 6 | 3.2 2.9 1.4 | 95. 9 95. 3 98. 6 103. 2 98. 4 | -4.8 6 3.5 4.7 -4.7 | 92. 4 96. 5 99. 2 99. 5 101. 3 | 2. 2 4. 4 2. 8 . 3 1. 8 |
| 1960 | 103. 1 104. 2 105. 4 106. 7 108. 1 | 1.6 1.1 1.2 1.2 1.3 | 101.7 102.3 103.2 104.1 105.2 | .8 .6 .9 .9 | 106.6 108.8 110.9 113.0 115.2 | 3.3 2.1 1.9 1.9 | 100. 7 100. 3 100. 6 100. 3 100. 5 | 4 .3 3 | 98. 6 98. 6 99. 6 98. 7 98. 0 | 1.0 9 7 | 101. 3 100. 8 100. 8 100. 7 101. 2 | -0.5 1 |
| 1965 | 109.9 113.1 116.3 121.2 127.7 | 1. 7 2. 9 2. 8 4. 2 5. 4 | 106. 4 109. 2 111. 2 115. 3 120. 5 | 1. 1 2. 6 1. 8 3. 7 4. 5 | 117. 8 122. 3 127. 7 134. 3 143. 7 | 2.3 3.8 4.4 5.2 7.0 | 102. 5 105. 9 106. 1 108. 7 113. 0 | 2. 0 3. 3 . 2 2. 5 4. 0 | 102. 1 108. 9 105. 2 107. 6 113. 5 | 4. 2 6. 7 -3. 4 2. 3 5. 5 | 102. 5 104. 7 106. 3 109. 0 112. 7 | 1. 3 2. 1 1. 5 2. 5 3. 4 |

¹ Historical price changes are shown in greater detail and for earlier years in the Bureau's Handbook of Labor Statistics, 1989 (BLS Bulletin 1630), in tables 108-120.

24. Consumer Price Index—general summary and U.S. average for groups, subgroups, and selected items

[The official name of the index is, "Consumer Price Index for Urban Wage Earners and Clerical Workers." It measures the average change in prices of goods and services purchased by families and single workers. The indexes shown below represent the average of price changes in 56 metropolitan areas, selected to represent all U.S. urban places having populations of more than 2500.]

[1957-59=100 unless otherwise specified]

| | | | | 113 | 77-33-10 | J ulliess o | therwise s | specifical | | | | | | | |
|---|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | General | summary | | | | | | |
| Item and group | | | | | 1970 | | | | | | 1 | 969 | | | Annual |
| | | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | average 1969 |
| All items All items (1947–49 = 100) | | 135.7 166.5 | 135. 2 165. 9 | 134. 6 165. 2 | 134. 0 164. 4 | 133. 2 163. 4 | 132. 5 162. 5 | 131. 8 161. 7 | 131.3 161.1 | 130, 5 160, 1 | 129. 8 159. 3 | 129.3 158.6 | 128. 7 157. 9 | 128. 2 157. 3 | 127.7 156.7 |
| Food Food at home Food away from home | | 133.4 128.7 156.2 | 132.7 128.0 155.3 | 132. 4 127. 8 154. 7 | 132. 0 127. 4 154. 0 | 131.6 127.4 152.4 | 131.5 127.4 151.5 | 130. 7 126. 6 150. 6 | 129. 9 125. 8 149. 9 | 128. 1 123. 8 149. 0 | 127. 2 122. 9 148. 1 | 127. 5 123. 6 146. 7 | 127. 4 123. 6 145. 8 | 126.7 123.0 144.8 | 125. 5 121. 5 144. 6 |
| Housing Rent Homeownership | | 136. 2 123. 8 155. 0 | 135. 6 123. 4 154. 4 | 135. 1 123. 0 153. 3 | 134. 4 122. 6 152. 1 | 133.6 122.3 150.9 | 132.2 121.8 148.5 | 131.1 121.3 146.8 | 130.5 121.0 145.4 | 129. 8 120. 5 144. 5 | 129. 2 120. 1 143. 6 | 128. 6 119. 7 142. 6 | 127.8 119.3 141.3 | 127. 0 118. 8 140. 0 | 126.7 118.8 139.4 |
| Apparel and upkeep Transportation Health and recreation Medical care | | 131. 4 131. 4 144. 3 165. 8 | 132. 2 130. 6 143. 7 164. 7 | 131. 9 129. 9 142. 9 163. 6 | 131. 1 128. 9 142. 3 162. 8 | 130. 6 127. 1 141. 4 161. 6 | 130.0 127.3 140.7 160.1 | 129. 3 127. 3 140. 1 159. 0 | 130. 8 126. 4 139. 6 158. 1 | 130. 7 125. 6 139. 1 157. 4 | 129. 8 125. 7 138. 6 156. 9 | 128. 7 123. 6 138. 4 157. 6 | 126. 6 124. 2 137. 7 156. 8 | 126. 8 124. 3 137. 0 155. 9 | 127. 1 124. 2 136. 6 155. 0 |
| Special groups: All items less shelter All items less food All items less medical care | | 133. 0 136. 6 133. 9 | 132. 6 136. 1 133. 4 | 132. 1 135. 5 132. 9 | 131. 5 134. 8 132. 2 | 130. 7 133. 8 131. 5 | 130.3 133.0 130.8 | 129. 8 132. 3 130. 1 | 129. 5 131. 9 129. 7 | 128. 6 131. 4 128. 9 | 128. 1 130. 8 128. 2 | 127. 6 130. 0 127. 6 | 127. 1 129. 3 127. 0 | 126. 7 128. 8 126. 5 | 126. 3 128. 6 126. 1 |
| Commodities Nondurables Durables Services | | 126. 5 130. 4 116. 9 155. 8 | 126. 2 130. 0 116. 7 155. 0 | 125. 8 129. 8 115. 9 154. 1 | 125. 2 129. 3 114. 8 153. 4 | 124. 5 128. 7 114. 1 152. 3 | 124. 2 128. 4 113. 7 150. 7 | 123. 7 127. 8 113. 7 149. 6 | 123. 6 127. 7 113. 6 148. 3 | 122.9 126.7 113.5 147.2 | 122. 4 126. 1 113. 2 146. 5 | 121.7 125.8 111.6 146.0 | 121. 4 125. 2 111. 9 145. 0 | 121. 0 124. 7 111. 9 144. 0 | 120, 5 124, 1 111, 6 143, 7 |
| Commodities less food Nondurables less food Apparel commodities Apparel commodities less | | 122.9 127.8 130.5 | 122. 8 127. 7 131. 4 | 122.3 127.5 131.2 | 121. 6 127. 0 130. 4 | 120. 8 126. 1 129. 9 | 120. 4 125. 8 129. 3 | 120. 1 125. 2 128. 6 | 120. 3 125. 7 130. 3 | 120. 2 125. 5 130. 4 | 119. 8 125. 1 129. 3 | 118. 7 124. 4 128. 1 | 118. 2 123. 3 125. 9 | 118. 1 123. 1 126. 2 | 118. 0 123. 0 126. 5 |
| wear Nondurables less food and a Household durables Housefurnishings | | 127. 2 126. 2 108. 3 112. 5 | 128. 3 125. 5 108. 2 112. 4 | 128. 0 125. 3 108. 0 112. 2 | 127. 1 125. 0 107. 8 112. 0 | 126.7 123.9 107.4 111.7 | 126. 2 123. 7 106. 9 111. 1 | 125. 5 123. 2 106. 6 110. 5 | 127. 5 123. 0 106. 5 110. 6 | 127.7 122.6 106.5 110.4 | 126.6 122.6 106.4 110.2 | 125. 3 122. 2 106. 2 109. 9 | 122. 8 121. 7 106. 0 109. 4 | 123. 5 121. 3 106. 0 109. 3 | 123. 7 121. 0 105. 5 109. 0 |
| Services/less rent | | 162. 8 161. 6 158. 6 181. 8 153. 8 | 161. 9 160. 6 157. 1 180. 6 153. 4 | 161. 0 160. 0 156. 1 179. 3 152. 3 | 160. 1 159. 1 155. 5 178. 4 151. 4 | 158. 9 157. 7 154. 5 177. 0 150. 3 | 157. 1 155. 0 154. 1 175. 2 149. 8 | 155. 8 153. 2 152. 9 173. 8 149. 4 | 154. 3 152. 4 148. 4 172. 8 148. 9 | 153. 1 151. 4 145. 8 171. 8 148. 2 | 152. 3 150. 4 145. 1 171. 2 147. 6 | 151. 7 149. 5 144. 0 172. 2 147. 2 | 150. 7 148. 2 143. 1 171. 1 146. 5 | 149. 6 146. 9 142. 5 170. 1 145. 7 | 149. 2 146. 4 142. 9 168. 9 145. 5 |
| | Other index bases | | | | | U.S. | average for | groups, sub | groups, and | selected ite | ms | | | | |
| F00D | | 133.4 | 132.7 | 132.4 | 132. 0 | 131.6 | 131.5 | 130.7 | 129.9 | 128.1 | 127.2 | 127.5 | 127. 4 | 126.7 | 125. 5 |
| Food away from home Restaurant meals Snacks | Dec. 63 | 156. 2 156. 2 136. 5 | 155. 3 155. 4 135. 2 | 154. 7 154. 8 134. 6 | 154. 0 154. 2 134. 0 | 152. 4 152. 5 132. 4 | 151.5 151.6 132.0 | 150. 6 150. 7 131. 4 | 149. 9 150. 2 129. 9 | 149. 0 149. 3 129. 2 | 148. 1 148. 3 128. 8 | 146. 7 147. 2 126. 2 | 145. 8 146. 2 125. 6 | 144. 8 145. 1 125. 1 | 144. 6 144. 9 125. 4 |
| Corn flakes | Dec. 63 | 128.7 128.8 113.1 136.7 130.4 114.9 | 128. 0 128. 2 113. 3 136. 4 130. 4 115. 1 | 127. 8 128. 0 113. 2 135. 7 130. 5 115. 0 | 127. 4 127. 6 114. 2 134. 3 130. 0 114. 8 | 127. 4 127. 0 113. 1 132. 9 130. 4 114. 4 | 127. 4 126. 3 112. 1 130. 2 130. 2 114. 2 | 126. 6 125. 5 111. 9 127. 8 130. 2 113. 8 | 125. 8 124. 9 110. 9 127. 9 130. 0 113. 4 | 123. 8 124. 1 111. 2 127. 2 129. 7 113. 0 | 122. 9 123. 7 111. 6 126. 9 129. 6 113. 0 | 123. 6 123. 0 111. 2 125. 8 129. 4 112. 9 | 123. 6 122. 6 111. 4 124. 7 129. 4 112. 6 | 123. 0 122. 6 111. 6 123. 3 129. 0 112. 3 | 121. 5 122. 4 111. 5 122. 3 129. 2 112. 3 |
| CookiesLayer cake | Dec. 63 Dec. 63 Dec. 63 | 135. 0 126. 1 107. 2 121. 8 119. 6 | 133. 4 125. 7 105. 7 121. 8 118. 8 | 134. 1 125. 3 104. 7 121. 5 118. 5 | 133. 3 125. 7 103. 4 121. 7 118. 2 | 133. 4 125. 6 102. 4 121. 3 116. 4 | 132. 6 125. 5 101. 7 119. 9 116. 7 | 132. 2 124. 4 101. 3 118. 1 116. 3 | 131. 1 124. 1 100. 9 118. 0 115. 8 | 129. 7 123. 4 99. 8 117. 1 115. 1 | 129. 1 122. 5 99. 8 115. 4 115. 2 | 128. 8 121. 6 101. 0 113. 2 113. 2 | 128. 1 120. 3 100. 9 113. 8 112. 8 | 128. 2 120. 9 100. 9 113. 6 113. 4 | 128. 1 120. 5 100. 6 113. 7 113. 1 |
| Steak, porterhouse_ Rump roast Rib roast Chuck roast Hamburger_ | Apr. 60 Dec. 63 Dec. 63 | 130. 8 135. 2 136. 6 128. 8 128. 0 132. 8 123. 4 142. 5 126. 2 143. 5 121. 4 | 130. 2 134. 5 135. 3 127. 6 124. 3 130. 1 123. 1 140. 6 125. 8 142. 7 121. 2 | 130, 5 135, 0 135, 9 129, 0 124, 3 129, 2 124, 2 142, 7 128, 0 142, 8 121, 8 | 130. 9 135. 6 136. 5 131. 1 124. 5 130. 5 125. 1 142. 8 130. 0 142. 4 121. 1 | 130. 2 134. 7 133. 6 126. 9 121. 8 126. 8 121. 1 141. 2 126. 9 140. 8 120. 5 | 129. 7 133. 9 133. 0 126. 4 120. 4 126. 4 120. 1 141. 8 126. 7 140. 5 119. 9 | 128. 8 132. 9 132. 2 126. 2 121. 4 126. 6 120. 7 141. 6 122. 1 138. 7 118. 7 | 127. 2 131. 3 130. 6 123. 2 119. 0 123. 9 118. 8 140. 5 123. 2 137. 8 118. 6 | 127. 2 131. 1 131. 5 125. 2 121. 1 125. 9 119. 5 140. 9 122. 7 138. 4 117. 9 | 127. 6 132. 0 132. 9 126. 8 123. 4 129. 0 121. 1 140. 8 125. 3 139. 1 117. 8 | 129. 0 133. 1 135. 0 128. 1 128. 3 132. 9 122. 1 145. 9 127. 2 140. 9 117. 8 | 127. 9 131. 9 135. 4 129. 9 127. 4 132. 7 123. 4 146. 5 128. 7 140. 5 117. 8 | 127. 6 131. 7 136. 8 132. 5 131. 1 135. 5 125. 0 150. 1 131. 0 140. 0 115. 4 | 123. 2 126. 8 129. 5 124. 4 121. 7 126. 4 118. 4 139. 7 122. 3 134. 0 113. 2 |

24. Consumer Price Index—general summary and U.S. average for groups, subgroups, and selected items—Continued

| Index or group | Other | | | | 1970 | | | | | | 19 | 969 | | | Annua |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | bases | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 |
| DOD—Continued Meats, poultry, and fish—Continued Meats—Continued | | 101.0 | 104.4 | | | | | | 100.0 | | | | | 100.0 | 105.6 |
| Pork Chops Loin roast Pork sausage Ham, whole Picnics Bacon | Apr. 60 Dec. 63 | 134.9 137.5 144.3 149.5 125.9 137.2 | 134. 4 135. 5 142. 6 150. 5 126. 5 137. 5 137. 4 | 134. 8 135. 1 143. 6 150. 4 129. 0 138. 5 137. 1 | 135. 9 135. 6 143. 5 150. 6 133. 5 139. 9 138. 2 | 137. 9 139. 7 146. 1 150. 6 135. 3 142. 1 138. 7 | 137. 2 139. 5 146. 2 148. 6 134. 0 139. 9 138. 8 | 135. 6 136. 9 143. 7 146. 7 136. 9 137. 7 136. 7 | 133. 3 135. 7 143. 4 146. 8 130. 7 134. 7 133. 1 | 132. 0 134. 1 140. 4 148. 3 124. 8 136. 0 132. 4 | 132. 7 134. 0 141. 8 149. 1 123. 9 136. 5 134. 9 | 133.7 137.6 143.0 149.6 121.8 135.5 135.6 | 130. 2 135. 7 141. 3 146. 0 117. 0 134. 5 128. 7 | 129. 0 136. 4 141. 9 143. 6 114. 2 130. 9 126. 8 | 125. 129. 135. 137. 117. 127. 124. |
| Other meats Lamb chops Frankfurters Ham, canned Bologna sausage Salami sausage Liverwurst | Dec. 63 Dec. 63 Dec. 63 Dec. 63 | 137. 2 141. 9 137. 1 132. 8 140. 5 131. 5 132. 5 | 137. 4 141. 0 137. 1 134. 4 139. 7 131. 9 133. 2 | 137. 9 141. 2 138. 2 136. 7 139. 5 132. 0 132. 9 | 138. 0 142. 0 137. 4 138. 3 139. 7 131. 8 131. 9 | 137. 3 142. 2 136. 1 138. 3 138. 4 130. 4 131. 6 | 136. 0 140. 8 134. 2 136. 6 137. 7 128. 6 131. 4 | 135. 3 140. 9 134. 2 134. 8 137. 2 128. 0 130. 1 | 134. 4 140. 4 134. 6 130. 4 136. 6 127. 9 129. 9 | 133. 6 139. 4 134. 7 127. 8 136. 1 127. 1 129. 8 | 133. 3 139. 9 134. 7 125. 1 136. 2 127. 2 129. 9 | 132. 6 139. 7 135. 4 122. 6 136. 2 127. 0 128. 0 | 131. 2 139. 3 133. 7 120. 6 134. 5 126. 0 126. 3 | 128. 8 140. 9 129. 4 115. 6 132. 0 123. 7 125. 0 | 127. 137. 127. 120. 129. 122. 123. |
| Poultry Frying chicken Chicken breasts Turkey | | 97.5 96.6 108.0 117.3 | 97.4 95.9 108.2 119.2 | 97. 1 95. 3 109. 2 119. 5 | 97. 1 95. 4 109. 4 119. 0 | 97. 9 96. 7 110. 4 116. 9 | 99. 1 98. 5 110. 4 115. 9 | 99. 5 99. 4 110. 1 114. 4 | 97. 9 97. 9 110. 4 110. 3 | 99. 1 99. 5 110. 8 110. 0 | 98. 2 98. 6 112. 0 107. 2 | 102. 0 103. 8 113. 8 105. 9 | 101. 4 103. 3 113. 0 104. 7 | 100. 4 103. 1 109. 4 101. 8 | 96. 98. 108. 102. |
| Fish | | 143. 4 127. 4 156. 2 126. 8 131. 7 | 143. 2 128. 2 154. 4 126. 6 131. 9 | 142. 3 127. 8 153. 0 126. 0 130. 8 | 141. 1 126. 8 152. 5 124. 5 129. 3 | 139. 8 127. 4 150. 9 123. 1 126. 9 | 138.3 126.2 148.1 121.6 126.5 | 137. 0 125. 4 145. 2 120. 5 126. 0 | 135. 4 124. 4 143. 4 117. 9 125. 4 | 134. 0 122. 9 141. 1 116. 7 125. 0 | 133. 4 122. 5 139. 9 116. 2 124. 9 | 132. 2 121. 0 138. 6 114. 9 124. 2 | 131. 5 120. 8 137. 2 114. 4 123. 5 | 130. 6 119. 7 134. 5 113. 6 124. 4 | 130. 119. 134. 114. 124. |
| Dairy products Milk, fresh, grocery Milk, fresh, delivered Milk, fresh, skim Milk, evaporated | Dec. 63 | 130.6 126.6 134.5 129.4 133.1 | 130. 2 126. 3 134. 2 129. 4 131. 5 | 129. 9 126. 6 134. 0 129. 2 129. 7 | 129. 5 126. 5 133. 9 128. 3 127. 9 | 129. 4 126. 8 133. 5 128. 4 127. 7 | 128. 8 126. 2 133. 1 127. 3 127. 4 | 128. 4 126. 1 132. 7 127. 4 126. 4 | 127. 6 125. 0 132. 3 126. 0 125. 0 | 126. 3 123. 4 130. 4 125. 0 124. 3 | 125. 8 122. 8 130. 1 124. 3 123. 8 | 125. 5 122. 8 129. 4 124. 8 124. 1 | 125, 0 122, 3 128, 7 124, 3 124, 1 | 124. 4 121. 7 128. 0 122. 9 123. 9 | 124. 121. 128. 123. 123. |
| Ice creamCheese, American process Butter | | 104.5 157.9 121.4 | 103. 8 157. 4 121. 1 | 103. 4 157. 2 121. 0 | 102.7 157.3 120.2 | 102. 7 156. 4 119. 5 | 102.1 154.8 119.5 | 102. 1 153. 1 119. 9 | 102. 0 152. 4 119. 6 | 100.7 151.0 119.4 | 99. 9 149. 9 119. 9 | 100. 1 148. 9 118. 3 | 99. 5 148. 5 118. 0 | 99. 0 147. 7 118. 0 | 99. 146. 118. |
| Fruits and vegetables Fresh fruits and vegetables Apples Bananas Oranges Orange juice, fresh | | 137. 5 152. 2 178. 0 92. 4 135. 6 90. 1 | 139. 4 155. 9 166. 0 102. 4 129. 1 89. 5 | 136. 8 151. 5 149. 7 101. 6 123. 7 90. 1 | 134. 7 148. 0 141. 3 101. 4 122. 4 89. 9 | 133. 1 145. 7 139. 6 101. 9 125. 4 90. 6 | 132. 4 144. 5 135. 8 96. 5 124. 5 90. 7 | 130. 9 141. 9 134. 0 94. 5 121. 5 90. 5 | 132. 1 144. 1 129. 3 93. 3 125. 0 91. 5 | 127. 0 135. 4 125. 7 93. 9 132. 4 91. 8 | 124. 0 130. 1 131. 7 100. 7 131. 9 92. 0 | 126. 8 134. 9 174. 6 99. 6 132. 1 92. 1 | 130. 2 141. 0 190. 5 97. 4 132. 7 92. 0 | 132. 3 145. 0 192. 9 97. 7 127. 9 91. 4 | 128. 138. 162. 95. 128. 90. |
| Grapefruit Grapes Strawberries Watermelon | | 215. 4 197. 3 (1) 141. 0 | 189. 7 (¹) 133. 2 180. 7 | 160. 1 (1) 128. 1 (1) | 152. 4 162. 7 134. 9 | 150. 6 (¹) (¹) | 151.7 (1) (1) (1) | 143.7 (¹) (¹) | 142. 0 (¹) (¹) (¹) | 144. 1 154. 3 (¹) (¹) | 184. 0 144. 0 (¹) (¹) | 205. 9 137. 8 (¹) (¹) | 194. 6 147. 4 (1) 116. 1 | 156. 6 188. 3 (1) 119. 6 | 155. 154. 131. 131. |
| PotatoesOnions | Dec. 63 | 194. 2 172. 9 133. 5 182. 4 123. 4 | 177. 2 173. 0 132. 1 219. 6 121. 0 | 166. 9 180. 0 138. 9 194. 3 117. 3 | 159. 9 180. 8 119. 3 202. 1 115. 3 | 153. 3 171. 0 176. 6 204. 5 122. 1 | 151. 1 166. 9 (1) 211. 3 145. 3 | 144. 3 140. 5 141. 6 188. 7 139. 2 | 142. 0 136. 4 (¹) 173. 4 146. 6 | 140. 1 133. 2 (1) 150. 6 127. 1 | 137.6 134.2 (1) 145.9 129.6 | 144. 5 139. 0 (¹) 135. 6 128. 3 | 159. 0 152. 2 (¹) 138. 3 139. 6 | 165. 2 141. 5 129. 6 145. 7 129. 5 | 144. 134. 138. 152. 123. |
| Celery Cucumbers Lettuce Peppers, green Spinach Tomatoes | Dec. 63 Dec. 63 Dec. 63 | 133.1 125.9 127.1 174.5 117.2 140.1 | 175. 6 139. 4 126. 1 244. 1 117. 3 154. 5 | 160. 5 154. 6 138. 9 344. 4 117. 5 145. 2 | 128. 7 214. 0 125. 2 299. 7 119. 9 159. 0 | 136. 2 209. 1 123. 0 265. 5 118. 3 136. 1 | 143.6 208.5 122.7 283.9 122.0 134.8 | 140. 5 203. 4 137. 6 231. 2 120. 3 168. 1 | 132. 2 176. 5 189. 5 217. 2 121. 8 177. 5 | 131. 2 122. 5 177. 9 160. 9 116. 5 146. 7 | 115. 5 118. 5 133. 3 145. 7 120. 1 119. 0 | 120. 1 111. 7 130. 8 147. 8 118. 0 103. 2 | 130. 2 122. 5 124. 2 146. 4 117. 2 116. 3 | 151. 8 123. 0 126. 8 165. 6 118. 8 131. 0 | 125. 148. 144. 172. 114. 138. |
| Processed fruits and vegetables. Fruit cocktail, canned Pears, canned Grapefruit-pineapple juice, canned Orange juice concentrate, frozen | Dec. 63 Dec. 63 | 119. 1 107. 9 107. 4 105. 6 91. 6 | 118.6 106.3 105.9 105.4 92.4 | 118. 3 106. 3 105. 6 105. 5 92. 4 | 118. 0 106. 2 104. 9 105. 2 92. 6 | 117. 3 105. 3 104. 9 104. 1 93. 5 | 117. 3 104. 9 105. 4 103. 7 96. 5 | 117. 1 105. 3 106. 0 103. 0 96. 4 | 117. 1 106. 2 106. 4 102. 4 97. 4 | 116. 8 105. 4 106. 9 102. 6 97. 2 | 116.6 105.6 107.6 102.2 98.2 | 116. 9 106. 6 108. 2 101. 8 99. 4 | 116. 7 106. 3 108. 8 101. 0 100. 0 | 116. 4 107. 1 108. 6 100. 4 100. 4 | 116. 106. 108. 100. 98. |
| Lemonade concentrate, frozen | Dec. 63 | 94.6 117.7 123.0 136.7 121.1 113.5 | 95. 4 117. 2 123. 0 135. 1 120. 9 113. 4 | 97. 0 115. 9 122. 0 133. 3 121. 3 112. 9 | 96. 5 116. 2 123. 1 130. 7 121. 5 113. 0 | 95. 9 115. 0 121. 8 128. 0 122. 0 112. 7 | 94. 8 114. 1 122. 2 127. 2 123. 4 111. 8 | 95. 1 113. 9 122. 4 126. 7 123. 1 110. 8 | 94.7 113.6 122.4 126.6 123.3 109.6 | 94. 1 113. 3 123. 1 125. 5 123. 6 108. 0 | 93. 8 112. 8 122. 9 124. 8 124. 3 106. 7 | 93. 3 113. 1 122. 9 124. 1 125. 0 107. 5 | 92. 5 112. 8 122. 7 124. 6 125. 0 106. 7 | 90. 6 113. 3 121. 7 124. 5 124. 7 105. 4 | 92. 113. 121. 124. 124. 104. |
| Other food at home | | 116. 0 105. 3 | 113.3 | 113. 7 97. 7 | 113. 8 103. 6 | 116. 0 122. 6 | 118.1 141.0 | 117.7 143.0 | 116.6 140.6 | 112.9 122.3 | 111.0 114.5 | 110.5 113.8 | 110.5 114.4 | 107. 2 95. 6 | 109. 112. |
| Fats and oils: Margarine Salad dressing, Italian Salad or cooking oil | Dec. 63 | 111.9 104.3 137.5 | 112. 0 103. 6 135. 4 | 111. 4 103. 2 134. 7 | 108. 8 102. 3 131. 2 | 106. 1 102. 2 129. 1 | 105.6 101.9 127.2 | 105. 6 102. 5 126. 2 | 105. 0 102. 6 124. 8 | 103.7 102.5 123.9 | 102.7 102.8 123.0 | 102. 2 102. 3 123. 6 | 102. 4 102. 3 123. 6 | 103. 1 102. 4 123. 5 | 103. 102. 123. |
| Sugar and sweets Sugar Grape jelly Chocolate bar Syrup, chocolate flavored See footnotes at end of table. | | 132.7 121.6 132.7 134.2 | 132. 2 120. 3 132. 5 133. 7 | 131. 8 119. 6 132. 3 133. 2 | 130. 5 118. 9 131. 3 130. 1 | 129.7 118.2 131.5 127.9 | 128.6 117.2 130.6 126.6 | 128. 1 116. 7 129. 7 127. 1 | 127. 5 116. 2 128. 7 127. 4 | 126. 6 116. 2 126. 5 126. 6 | 126. 4 116. 3 125. 6 126. 7 | 126. 0 116. 4 124. 7 126. 5 | 125. 4 116. 5 123. 9 | 125.3 116.2 123.9 | 125. 115. 124. 125. |

24. Consumer Price Index—general summary and U.S. average for groups, subgroups, and selected items—Continued

| Item or group | Other | | | | 1970 | | | | | | 19 | 69 | | | Annua |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Brank | bases | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 |
| OOD—Continued Other food at home—Continued Nonalcoholic beverages. Coffee, can and bag Coffee, instant. Tea Cola drink Carbonated fruit drink. | July 61 Dec. 63 | 117. 7 107. 3 115. 7 106. 4 164. 8 131. 4 | 116. 5 105. 4 115. 7 105. 9 164. 2 130. 5 | 115. 2 103. 6 114. 7 104. 8 163. 0 130. 0 | 114. 0 102. 2 114. 1 103. 6 162. 0 128. 5 | 112. 4 99. 7 113. 1 103. 1 161. 9 127. 4 | 110. 7 97. 4 111. 0 103. 6 160. 3 126. 0 | 109. 1 94. 9 109. 6 103. 1 159. 3 125. 5 | 107. 4 92. 3 108. 0 102. 9 158. 4 124. 8 | 106. 1 90. 0 106. 0 102. 2 158. 7 124. 7 | 104. 3 87. 0 104. 2 102. 1 158. 0 124. 5 | 103. 7 86. 6 103. 8 102. 0 156. 8 123. 4 | 103. 8 86. 7 103. 9 102. 2 156. 6 123. 1 | 103. 3 86. 3 103. 6 102. 0 155. 3 122. 7 | 103. 87. 103. 101. 155. 121. |
| Prepared and partially prepared foods Bean soup, canned Chicken soup, canned Spaghetti, canned | Dec. 63 Dec. 63 Dec. 63 Dec. 63 | 110. 1 111. 5 10'. 1 124. 0 | 110. 1 111. 3 102. 3 123. 4 | 110. 1 111. 1 102. 3 123. 2 | 109. 8 110. 5 102. 0 122. 7 | 109. 5 110. 4 101. 8 121. 8 | 109. 0 110. 9 101. 1 121. 1 | 108. 5 109. 7 100. 8 120. 8 | 108. 2 108. 8 100. 3 120. 4 | 107.6 107.2 99.5 119.8 | 107. 4 106. 3 98. 3 118. 9 | 106. 9 105. 6 98. 1 117. 2 | 106.7 105.4 98.3 117.3 | 106. 2 105. 1 98. 0 117. 0 | 106. 105. 98. 117. |
| Mashed potatoes, instant | Dec. 63 Apr. 60 Dec. 63 Dec. 63 | 111. 0 93. 3 112. 7 116. 4 110. 4 136. 2 | 110. 8 93. 4 112. 6 117. 0 110. 3 135. 6 | 110. 7 93. 5 112. 5 117. 6 110. 1 135. 1 | 110.6 93.2 112.9 118.0 110.0 134.4 | 110. 5 93. 2 112. 0 117. 2 109. 1 133. 6 | 110.3 92.8 112.0 116.0 108.3 132.2 | 109. 7 92. 7 112. 1 115. 6 107. 1 131. 1 | 109. 6 92. 5 111. 9 115. 0 107. 5 130. 5 | 110. 0 92. 1 111. 4 114. 3 107. 0 129. 8 | 109. 6 92. 8 111. 7 114. 2 107. 6 129. 2 | 108. 9 92. 7 112. 7 112. 6 107. 6 128. 6 | 108. 5 92. 5 112. 1 112. 0 107. 6 127. 8 | 108. 1 91. 8 111. 7 111. 0 107. 4 127. 0 | 107. 91. 111. 112. 107. |
| Shelter | | 146. 2 123. 8 155. 0 | 145.6 123.4 154.4 | 144.7 123.0 153.3 | 143. 7 122. 6 152. 1 | 142. 8 122. 3 150. 9 | 140. 9 121. 8 148. 5 | 139.6 121.3 146.8 | 138. 5 121. 0 145. 4 | 137. 7 120. 5 144. 5 | 137. 0 120. 1 143. 6 | 136. 1 119. 7 142. 6 | 135. 1 119. 3 141. 3 | 134. 0 118. 8 140. 0 | 133. 118. 139. |
| Mortgage interest rates Property taxes Property insurance rates Maintenance and repairs | Dec. 63 | 149. 1 140. 5 154. 6 152. 4 | 149. 1 139. 8 153. 5 151. 4 | 149. 2 139. 4 153. 2 149. 9 | 149. 1 138. 2 153. 6 148. 8 | 148. 9 134. 7 153. 2 148. 3 | 143. 5 133. 6 152. 8 146. 9 | 139. 9 133. 0 152. 5 146. 4 | 139. 6 132. 0 153. 3 145. 8 | 139. 3 131. 5 152. 3 144. 9 | 138. 8 130. 5 150. 7 144. 5 | 138. 2 130. 4 149. 5 143. 8 | 137. 1 129. 9 150. 3 142. 4 | 135. 8 128. 7 149. 6 141. 5 | 134. 129. 148. 140. |
| Commodities Exterior house paint Interior house paint | Dec. 63 | 120. 3 122. 3 115. 7 | 119.6 120.7 115.6 | 118. 4 119. 9 115. 0 | 117. 8 119. 9 114. 6 | 117. 2 121. 0 114. 7 | 116.5 119.8 114.8 | 116. 1 119. 3 114. 1 | 115. 9 119. 1 114. 3 | 116. 0 118. 7 113. 6 | 116. 2 118. 0 113. 8 | 116. 7 117. 6 113. 1 | 117. 2 116. 5 113. 1 | 117.5 115.7 112.3 | 116. 116. 112. |
| Services. Repainting living and dining rooms. Reshingling roofs. Residing houses. Replacing sinks. Repairing furnaces. | | 150. 4 198. 0 169. 8 1 9. 2 152. 7 155. 2 | 149. 3 196. 3 168. 0 138. 3 151. 6 154. 3 | 147. 9 191. 7 167. 1 137. 4 150. 4 153. 7 | 146. 7 187. 9 165. 6 137. 1 149. 1 152. 9 | 146. 2 186. 8 166. 1 136. 7 148. 2 152. 4 | 144. 7 185. 4 165. 4 135. 0 145. 6 151. 3 | 144. 1 184. 6 164. 9 134. 6 145. 2 150. 0 | 143. 5 183. 6 164. 1 134. 0 144. 5 149. 7 | 142. 2 182. 6 163. 0 134. 2 142. 6 145. 2 | 141. 6 181. 8 162. 3 133. 7 142. 0 144. 1 | 140. 4 179. 7 161. 4 133. 0 140. 4 142. 8 | 138. 2 178. 3 157. 6 130. 0 139. 0 141. 2 | 136. 9 176. 1 155. 4 129. 3 137. 8 139. 7 | 136. 174. 155. 129. 137. 139. |
| Fuel and utilities Fuel oil and coal Fuel oil, #2 Gas and electricity GasElectricity Other utilities: Residential telephone services | | 117. 2 122. 3 119. 1 115. 7 122. 3 108. 7 | 116. 2 121. 2 118. 3 115. 3 122. 0 108. 3 | 116. 4 121. 0 118. 0 115. 8 123. 2 108. 2 | 116. 3 120. 9 117. 8 115. 7 123. 1 108. 0 | 115. 6 120. 8 117. 8 114. 8 121. 9 107. 5 | 114. 9 120. 6 117. 5 114. 6 121. 5 107. 4 | 114.6 119.7 116.6 114.1 120.5 107.4 | 114. 6 119. 2 116. 2 113. 7 119. 8 107. 2 | 114. 2 118. 9 116. 0 113. 2 118. 8 107. 2 | 113. 5 118. 4 115. 5 112. 2 116. 9 106. 9 | 113. 3 118. 1 115. 4 112. 0 116. 7 106. 8 | 113. 0 117. 7 115. 2 111. 5 116. 1 106. 4 | 112.6 117.4 115.0 110.9 115.7 105.6 | 112 117 115 111 116 105 |
| Residential water and sewerage | | 158. 7 | 151.0 | 151.0 | 151.0 | 151.0 | 147.5 | 147. 5 120. 1 | 147.5 | 147. 5 119. 6 | 145. 3 119. 3 | 145. 3 119. 0 | 145. 3 118. 5 | 145.3 | 144 |
| Household furnishings and operation | | 123. 0 112. 5 | 122.8 112.4 | 122. 5 112. 2 | 122. 0 112. 0 | 121. 6 111. 7 | 120. 8 111. 1 | 110.5 | 110.6 | 110.4 | 110.2 | 109.9 | 109. 4 | 109.3 | 109 |
| TextilesSheets, percale or muslin | | 116. 7 120. 8 | 116.7 122.0 | 116. 2 121. 8 | 116.7 123.6 | 116. 4 122. 7 | 115.7 120.8 | 114. 2 117. 3 | 116. 1 122. 2 | 115.7 121.7 | 115. 0 120. 1 | 115. 2 119. 8 | 113. 8 116. 2 | 114.8 | 114 |
| Curtains, tailored, polyester mar- quisette Bedspreads, chiefly cotton, tufted | | 113.9 117.9 | 113.1 117.5 | 113. 2 116. 8 | 113.3 117.8 | 113.7 117.1 | 112.7 116.6 | 111.6 115.0 | 112.3 117.6 | 112.1 117.7 | 112. 0 117. 1 | 112. 0 116. 9 | 112. 0 115. 7 | 111.6 116.5 | 110 116 |
| Drapery fabric, cotton or rayon/ acetate | | 127. 4 | 126.6 | 127.3 | 127. 0 | 126.5 | 125. 8 | 125. 0 | 126.6 | 126. 0 | 124.1 | 124. 5 | 125. 0 | 124.8 | 123 |
| Slipcovers, ready made, chiefly cotton | Dec. 63 | 115. 2 | 114.3 | 112.7 | 111.8 | 112.1 | 112.3 | 111.0 | 110.4 | 110.0 | 111.1 | 110.0 | 110.3 | 110.1 | 109 |
| Furniture and bedding Bedroom furniture chest and | | 126.7 | | | 126. 0 | 125. 4 | 124.6 | 124.1 | 123. 9 | 123.7 | 123.6 | 122.9 | 122. 4 | 122, 1 | 121 |
| dresser 3 Living room suites, good and inex- pensive quality | Mar. 70 | 100.9 | 100.6 | 100, 5 | 100.4 | 127.3 | 126.1 | 126.0 | 126. 3 | 125. 8 | 125.9 | 124.9 | 124.8 | 123.9 | 123 |
| Lounge chairs, upholstered Dining room chairs 4 Sofas, upholstered | Dec. 63 Mar. 70 Dec. 63 | 122. 2 100. 6 121. 1 | 122.1 100.6 120.0 | 122. 5 100. 2 119. 1 | 121. 9 100. 2 118. 7 | 121. 0 | 120.0 | 120. 0 | 118.8 | 118.6 | 118.9 | 119.0 | 117.9 | 116.5 | 114 |
| Sofas, dual purpose Mattresses and box springs ⁶ Cribs | June 70 Dec. 63 | 122. 2 99. 5 122. 1 | 123.9 100.0 121.4 | 123. 3 | 122. 6 120. 0 | 120. 6 120. 6 | 120.0 | 120. 5 119. 6 | 120.0 | 120. 2 | 118.9 | 118.8 | 118.6 | 117.9 | 117 |
| Floor coverings Rugs, soft surface_ Rugs, hard surface_ Tile, vinyl | Dec. 63 | 107. 2 103. 7 114. 6 113. 5 | 107. 2 103. 9 114. 0 113. 1 | 107. 4 104. 2 113. 7 113. 1 | 106.9 103.8 113.7 111.8 | 106. 9 103. 9 113. 7 111. 7 | 106. 9 104. 0 113. 6 111. 3 | 106. 8 104. 0 113. 2 110. 3 | 107. 1 104. 7 112. 5 110. 3 | 107. 1 104. 8 112. 5 110. 1 | 107. 1 104. 9 112. 1 109. 6 | 107. 0 104. 9 111. 8 109. 3 | 106. 3 104. 1 111. 6 108. 5 | 106. 4 104. 4 111. 5 108. 2 | 111 |
| Appliances | 500. 00 | 87.3 | 87.2 | 87. 1 | 87.1 | 86.8 | 86.6 | 86. 5 | 86.4 | 86. 3 | 86. 2 | 86.0 | 86. 0 | 85. 9 | 85 |
| Washing machines, electric, auto- matic | | 93. 1 81. 4 | 93. 0 81. 2 | 92.9 81.5 | 92.9 81.6 | 92. 4 81. 3 | 92.3 81.5 | 91.8 81.8 | 91.5 81.4 | 91. 2 81. 4 | 90. 9 81. 5 | 91. 0 81. 3 | 90. 8 82. 1 | 90. 5 82. 0 | |

24. Consumer Price Index—general summary and U.S. average for groups, subgroups, and selected items—Continued

| Index or group | Other | | | | 1970 | | | | | | 19 | 969 | | | Annua |
|--|---------------------|----------------------------|----------------------------|----------------------------|--------------------------------------|----------------------------|----------------------------|----------------------------|-------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| | bases | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 |
| HOUSING—Continued Household furnishings and operation—Con. | | | | | | | | | | | | | | | |
| Appliances—Continued Refrigerator— fragran electric | | | | | | | | | | | | | | | |
| freezers, electricRanges, free standing, gas or | | 87.6 | 87.5 | 87.3 | 87.5 | 87. 2 | 86. 8 | 86.1 | 86. 0 | 85. 8 | 85. 8 | 85. 8 | 85.7 | 85. 4 | 85. 3 |
| electric | | 101.0 | 100.7 | 100. 2 | 100.7 | 100.1 | 99.3 | 99.0 | 99.0 | 98.8 | 98. 5 | 98.1 | 98. 2 | 97.6 | 97.7 |
| Clothes dryers, electric, automatic_ Air conditioners, demountable | Dec. 63 June 64 | 102.7 101.6 | 102.6 101.5 | 101.9 | 102.1 | 101.8 | 101.3 | 100.8 | 100.6 | 100.5 | 99.8 | 99.6 | 99.7 99.8 | 99.5 99.7 | 99. 4 99. 5 |
| Room heaters, electric, portable Garbage disposal units | Dec. 63 | 108.5 | 108. 2 | 107. 4 | 107.2 | (2) 100. 5 106. 6 | 100. 6 105. 9 | 100.6 105.5 | 100. 4 105. 0 | 99. 8 105. 0 | 99. 6 104. 7 | 104.3 | 103.9 | 103.9 | 98. 8 |
| Other house furnishings: Dinnerware, earthenware | | 139.6 | 139.3 | 138. 3 | 138.1 | 138. 1 | 137.1 | 136. 2 | 135. 6 | 135. 2 | 134.8 | 134.3 | 133.5 | 133.6 | 122 2 |
| Flatware, stainless steel Table lamps, with shade | Dec. 63 Dec. 63 | 121.6 120.9 | 121. 0 121. 6 | 138. 3 120. 8 121. 4 | 120. 7 121. 2 | 120. 4 119. 9 | 120. 1 118. 6 | 119.2 | 119.0 | 119.6 | 119.6 | 119. 8 116. 0 | 119.6 115.4 | 119.5 115.3 | 133.3 118.7 114.6 |
| Housekeeping supplies: | | 110.3 | 110.0 | 110.0 | 109.8 | 110.0 | 108.8 | 100 1 | 107.1 | 106.2 | 100.0 | 107.4 | 107.4 | 100 4 | |
| Laundry soaps and detergents Paper napkins Toilet tissue | | 140.5 129.9 | 139.5 129.7 | 138. 5 129. 4 | 136. 4 127. 8 | 134. 7 126. 8 | 131.3 | 108. 1 129. 8 121. 9 | 107.1 131.0 120.3 | 106. 2 130. 0 121. 2 | 106. 8 129. 0 121. 2 | 107. 4 128. 6 120. 7 | 107. 4 128. 0 119. 1 | 106. 4 127. 2 119. 5 | 106. 3 128. 2 118. 9 |
| Housekeeping services: | | | | | | | | | | | | | | | 110.0 |
| Domestic service, general house- work Baby sitter service | D 62 | 186.8 | 186.6 141.8 | 185. 5 141. 5 | 184. 8 140. 9 | 182.5 | 182. 0 138. 6 | 180.5 | 179.9 | 178.7 | 177.6 | 175.1 | 173.9 | 172.9 | 173. 5 133. 7 |
| Postal charges Laundry, flatwork, finished service_ | Dec. 63 | 142.4 165.5 150.6 | 165. 5 150. 2 | 165. 5 150. 0 | 165.5 149.8 | 140. 0 165. 5 149. 1 | 165. 5 147. 9 | 137. 6 165. 5 147. 5 | 137.4 | 136.6 | 135. 7 165. 5 | 135.6 | 134. 9 165. 5 | 134. 5 165. 5 | 165.5 |
| Licensed day care service, pre- | | 133.1 | 132.7 | 132. 5 | 132. 1 | 132. 0 | 132. 0 | 132. 0 | 146. 8 | 144.3 | 143. 2 | 142.7 | 141. 4 | 140. 6 128. 4 | 140.6 |
| school child Washing machine repairs | | 140.8 | 140. 2 | 140. 4 | 139. 8 | 139. 6 | 138. 3 | 136.6 | 135. 4 | 135. 1 | 135. 2 | 134. 4 | 133. 5 | 133. 0 | 127. 9 131. 7 |
| APPAREL AND UPKEEP | | 131.4 | 132. 2 | 131. 9 | 131.1 | 130.6 | 130.0 | 129.3 | 130.8 | 130. 7 | 129.8 | 128.7 | 126.6 | 126. 8 | 127.1 |
| Men's and boys' | | 132.0 | 134. 2 | 133, 9 | 155, 4 | 132. 3 | 131.0 | 130.8 | 132.0 | 132. 1 | 131.0 | 130. 0 | 128.7 | 128.1 | 128.5 |
| men s: Topcoats, wool- Suits, year round weight. Suits, tropical weight Jackets, lightweight Slacks, wool or wool blend Slacks, cotton or manmade blend Trousers, work, cotton | | (¹) 158.6 | (¹) 160. 5 | (1) 160, 2 | (1) | 144. 1 157. 3 | 141. 0 153. 9 | 143.7 154.2 | 147. 4 158. 2 | 148. 5 158. 2 | 145. 9 156. 4 | 144. 0 154. 5 | (1) 150. 7 | (1) 149.6 | 142. 9 150. 9 |
| Suits, tropical weight | June 64 Dec. 63 | 131.8 124.8 | 140. 5 125. 2 | 138. 4 125. 1 | 159.8 137.4 125.3 | 136. 6 125. 3 | 125.6 | 125.5 | (1) 125.7 | (¹) 125. 6 | (1) 125. 4 | (¹) 125. 2 | (1) 125. 0 127. 1 | 127.7 | 128.6 |
| Slacks, wool or wool blend Slacks, cotton or manmade blend | | 130. 8 123. 4 | 132. 8 123. 7 | 132. 7 123. 4 | 125. 3 131. 8 123. 0 117. 2 | 131. 0 120. 9 | 129.6 119.4 | 130.0 | 131. 2 117. 6 | 131.7 117.1 | 130. 4 115. 6 | 128. 9 115. 2 | 127. 1 114. 5 | 126. 1 112. 1 | 124. 6 127. 4 113. 9 |
| Trousers, work, cotton | | 118.4 | 117.8 | 117.1 | | 116.6 | 116.4 | 116.0 | 117. 2 | 117. 0 | 116.9 | 116.9 | 116.8 | 116.9 | 116. 4 |
| Shirts, work, cotton Shirts, business, cotton | | 127. 0 125. 1 | 126. 8 124. 6 | 126. 5 124. 2 | 126. 4 124. 1 | 126. 0 123. 7 | 124. 9 123. 2 133. 3 | 124. 4 122. 5 | 124. 2 122. 3 | 124. 7 122. 2 | 124. 2 122. 2 | 123. 2 121. 8 | 123. 3 121. 6 | 123. 1 121. 5 | 122.9 121.3 |
| Shirts, work, cotton | Dec. 63 | 135. 0 123. 3 115. 5 | 134. 7 123. 1 115. 3 | 134. 6 122. 6 115. 1 | 134. 1 122. 6 114. 4 | 132. 9 121. 5 114. 2 | 133.3 121.3 113.9 | 132. 4 120. 9 113. 8 | 131.9 120.9 113.8 | 131.8 120.4 113.3 | 131.5 | 130. 6 121. 6 | 130. 6 121. 6 | 130.1 | 130. 0 119. 8 |
| Rove'. | | 113.3 | 115.5 | 115.1 | 114.4 | 114. 2 | 115.9 | 113. 0 | 113.0 | 113.3 | 112.9 | 112.7 | 112. 4 | 112.3 | 112.1 |
| Coats, all purpose, cotton or cotton | Dec. 63 | (1) | (1) (1) | (1) (1) | (1) | 114.6 | 114.3 | 114.2 | 116.1 | 115.9 | 115.2 | 113.5 | (1) | (1) | 112.4 |
| Coats, all purpose, cotton or cotton blend Sport coats, wool or wool blend Dungarees, cotton or cotton blend Undershorts, cotton | Dec. 63 | (1) (1) 128. 0 | 130. 1 | 130.1 | (1) (1) 129. 5 130. 9 | 129.5 | (1) 129. 4 129. 9 | 127.8 128.9 130.1 | 130.3 | 131.0 127.9 | 126. 4 126. 9 | 122. 5 127. 4 | (1) (1) 127, 4 | (1) (1) 127, 2 | 125. 6 126. 3 |
| | | 131.3 | 131.5 | 131.6 | 120000 | 130. 5 | | | 130. 3 | 130. 3 | 129. 0 | 128. 9 | 128.4 | 127.9 | 127.1 |
| Women's and girls' | | 125.8 | 126. 8 | 126. 6 | 125. 2 | 125. 3 | 125. 4 | 124. 2 | 127. 2 | 127.4 | 126. 2 | 124.6 | 120.8 | 122.5 | 122. 8 |
| women s: Coats, heavyweight, wool or wool blend | | (1) | (1) | (1) | (1) | (1) | (1) | 124.9 | 136. 2 | 139.9 | 139.9 | 136.0 | (1) | (1) | 134.4 |
| Skirts, wool or wool blend | Sept. 61 Mar. 62 | (1) | (1) (1) 136. 3 | (1) (1) 136. 3 | (1) (1) 135. 2 | (1) (1) (2) | (1) 121. 0 (1) | 135.6 | 144.6 | 145.3 | 133.9 | 129.4 | (1) (1) 121 8 | (1) (1) 130, 7 | 129.3 |
| Blouses, cotton Dresses, street, chiefly manmade | mari ou | 126.2 | 130.6 | 129.7 | 127.1 | 125. 3 | 124.9 | (1) 126. 9 | 127.6 | 127. 2 | 125. 4 | 122.7 | 121. 8 122. 2 | 122. 4 | 123. 6 |
| fiber Dresses, street, wool or wool blend | | 156.1 | 155.8 | 156. 5 | 158.9 | 158.5 | 158.7 | 155.9 144.2 | 158.3 145.7 | 158.8 144.8 | 155. 9 145. 7 | 152.5 140.8 | 147. 3 (1) | 147.6 | 150. 2 141. 0 |
| Dresses, street, cotton Housedresses, cotton | | (1) (5) (5) | (1) (5) (5) | (1) (5) (5) | (1) (5) (5) | (1) (5) (5) | (1) (1) 153, 5 | (1) 152, 3 | (¹) 153. 0 | (¹) 152, 1 | (1) 150.7 | (1) 149. 0 | 136. 6 150. 0 | (1) 149. 9 148. 8 | 147.2 147.9 |
| Slips, nylon Panties, acetate | | 115.2 114.5 | 115. 8 113. 5 | 115.6 113.3 | 114.7 112.7 | 114. 2 113. 2 | 114.6 112.7 | 113. 4 112. 0 | 112.3 111.2 | 112.2 111.4 | 111.9 | 111.9 | 111.6 | 109.7 | 110.8 109.2 |
| Girdles, manmade blend Brassieres, cotton | Dec. 63 | 120. 4 128. 2 | 121. 4 128. 9 | 121. 4 | 121.3 | 121. 4 127. 4 | 120. 9 125. 6 | 120. 5 124. 4 | 120. 8 124. 9 | 120. 5 123. 8 | 110. 5 120. 2 123. 1 | 109. 9 119. 5 122. 9 | 109.1 119.4 122.5 | 108.6 119.0 122.2 | 119. 1 121. 7 |
| Hose, nylon, seamless | | 99.4 | 98.8 | 99.1 | 98.9 | 99. 0 | 98.3 | 98. 5 | 99.8 | 99.8 | 99.4 | 99. 2 | 98.8 | 99.6 | 99.1 |
| Anklets, cotton Gloves, fabric, nylon or cotton | Dec. 63 | 119.7 111.6 | 118.9 | 120.1 | 120.1 | 120. 5 110. 9 | 122. 5 111. 0 | 121. 0 110. 7 | 121.5 110.5 | 118.5 109.8 | 118.5 109.2 | 118.4 109.0 | 118. 2 109. 3 | 118.1 108.9 | 117. 2 108. 6 |
| Handbags, rayon faille or plastic Girls': | Dec. 63 | 118.7 | 120.3 | 119.3 | 118.8 | 118. 2 | 118.5 | 116.4 | 117.3 | 117. 2 | 115. 5 | 114. 8 | 114.1 | 113.8 | 113.6 |
| Raincoats, vinyl plastic or chiefly | Dec. 63 | (1) | (1) | (1) | (1) | 114.8 | 118.9 | 118 1 | 125 6 | 124 4 | 121 7 | 120 9 | (1) | (1) | 120.9 |
| Skirts, wool or wool blend | 500. 00 | (1) | (1) (1) | (1) | (1) | (1) | (1) | 118. 1 117. 4 | 123. 2 | 124. 4 123. 4 | 121.7 124.0 | 120.8 | (1) (1) | (1) | 121.4 |

24. Consumer Price Index—general summary and U.S. average for groups, subgroups, and selected items—Continued

| Index or group | Other | | | | 1970 | | | | | | 19 | 69 | | | Annual |
|---|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| index of group | bases | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 |
| APPAREL AND UPKEEP—Continued Women's and girls'—Continued Girls' Continued Dresses, cotton—————————————————————————————————— | Dec. 63 Dec. 63 Dec. 63 | 131. 5 (1) 107. 9 117. 1 | 133. 2 (¹) 108. 0 118. 3 | 129. 4 (1) 107. 3 117. 4 | 135. 1 (1) 107. 5 115. 7 | 134. 0 125. 5 108. 1 115. 1 | 132. 3 125. 4 107. 8 114. 9 | 129. 8 128. 4 108. 0 113. 7 | 133.6 131.8 108.0 114.2 | 136. 3 131. 7 108. 6 114. 7 | 137. 4 127. 9 108. 5 111. 1 | 136. 9 (2) 107. 7 108. 9 | 135. 4 (1) 108. 0 108. 3 | 134. 2 (¹) 108. 1 108. 2 | 134. 4 125. 8 107. 5 109. 3 |
| Footwear Men's: Shoes, street, oxford Shoes, work, high | | 147. 5 145. 2 143. 4 | 147. 7 145. 6 143. 4 | 147. 6 145. 3 142. 9 | 147. 2 144. 7 142. 6 | 146. 3 143. 8 142. 1 | 145. 0 142. 3 141. 4 | 141. 3 140. 9 | 144. 4 142. 6 139. 8 | 143. 9 142. 1 139. 5 | 143. 3 141. 5 139. 0 | 142. 3 140. 1 138. 4 | 141.5 138.7 138.1 | 139. 9 137. 5 137. 3 | 140. 3 138. 4 136. 7 |
| Women's: Shoes, street, pump Shoes, evening, pump Shoes, casual, pump Houseslippers, scuff | Dec. 63 Dec. 63 Dec. 63 | 155. 5 127. 5 137. 2 128. 2 | 156. 8 126. 6 138. 3 128. 1 | 157. 3 126. 7 138. 7 127. 7 | 157. 3 125. 8 138. 3 127. 7 | 155. 5 125. 0 136. 3 128. 2 | 151.6 124.8 135.7 127.8 | 151. 8 124. 2 134. 2 128. 0 | 152.7 123.2 134.0 127.5 | 152. 5 122. 9 133. 4 127. 1 | 152. 0 122. 9 132. 0 126. 6 | 150. 8 122. 3 129. 6 126. 4 | 149.9 121.8 128.9 125.4 | 147.3 121.0 126.8 123.9 | |
| Children's: Shoes, oxford Sneakers, boys', oxford type Dress shoes, girls', strap | Dec. 63 Dec. 63 | 147. 1 122. 9 138. 6 | 147. 2 123. 2 138. 3 | 146. 6 122. 6 138. 3 | 146. 3 122. 0 137. 5 | 146. 6 120. 7 138. 0 | 145. 9 120. 0 136. 6 | 144. 3 119. 6 136. 6 | 144. 3 119. 5 136. 4 | 143. 3 119. 3 135. 7 | 142.3 119.1 134.6 | 141. 4 118. 9 134. 1 | 140.7 118.1 133.1 | 140. 2 116. 9 130. 6 | 117.2 |
| Miscellaneous apparel: Diapers, cotton gauzeYard goods, cotton | | 105. 4 125. 4 | 105. 0 127. 1 | 104. 9 127. 6 | 104. 8 126. 8 | 104. 9 125. 9 | 104.3 124.6 | 104. 0 123. 3 | 104. 0 123. 5 | 104. 1 123. 1 | 103. 8 123. 5 | 103. 9 123. 2 | 104. 0 123. 2 | 103. 5 122. 1 | 103. 0 120. 9 |
| Apparel services: Drycleaning, men's suits and women's dresses Automatic laundry service Laundry, men's shirts Tailoring charges, hem adjustment Shoe repairs, women's heel lift | Dec. 63 Dec. 63 Dec. 63 | 136. 4 114. 3 130. 3 133. 7 126. 9 | 136. 3 114. 0 130. 0 133. 3 126. 8 | 136. 0 113. 2 129. 0 128. 8 126. 5 | 135. 7 113. 1 128. 8 128. 4 126. 3 | 135. 2 113. 2 128. 5 127. 7 125. 5 | 134. 6 112. 3 128. 0 127. 4 125. 0 | 133. 8 112. 0 126. 8 127. 0 124. 6 | 133. 3 112. 0 126. 7 127. 4 123. 7 | 132. 9 111. 8 124. 3 127. 6 123. 6 | 132. 2 111. 4 123. 8 127. 5 122. 7 | 132. 0 111. 3 123. 4 126. 5 123. 1 | 131.7 111.0 123.2 125.4 121.3 | 130. 5 111. 0 123. 0 125. 2 121. 1 | 110.1 122.9 |
| TRANSPORTATION | | 131.4 | 130.6 | 129. 9 | 128.9 | 127.1 | 127.3 | 127.3 | 126. 4 | 125.6 | 125.7 | 123.6 | 124. 2 | 124.3 | 124. 2 |
| Private Automobiles, new Automobiles, used Gasoline, regular and premium Motor oil, premium | | 127. 2 103. 7 131. 8 118. 7 143. 7 | 126. 7 103. 8 132. 0 117. 6 143. 0 | 125, 9 104, 1 127, 5 118, 6 142, 8 | 124. 9 104. 3 121. 1 119. 2 142. 6 | 123. 0 104. 4 117. 6 115. 3 142. 3 | 123.3 104.6 117.8 116.7 141.4 | 123. 3 104. 7 120. 7 116. 6 140. 7 | 123. 4 104. 9 123. 9 116. 9 140. 2 | 122. 7 105. 1 124. 9 116. 3 140. 1 | 122, 8 104, 2 125, 8 118, 0 139, 6 | 120. 5 99. 5 121. 4 117. 7 139. 1 | 121.3 101.0 125.4 118.0 138.7 | 121. 4 101. 6 127. 0 117. 7 138. 1 | 102. 4 125. 3 117. 0 |
| Tires, new, tubeless | | 119. 0 144. 3 183. 7 140. 9 | 118. 0 143. 5 181. 9 140. 9 | 118. 6 142. 9 179. 5 140. 9 | 118.6 142.1 175.6 140.9 | 119. 4 141. 5 176. 4 140. 3 | 118. 5 140. 2 176. 0 140. 3 | 118, 2 139, 2 173, 4 140, 3 | 118. 2 137. 3 171. 5 134. 2 | 118. 0 136. 6 164. 6 134. 2 | 117. 4 136. 1 163. 7 134. 2 | 117. 0 135. 2 163. 2 134. 2 | 116. 0 134. 5 160. 3 134. 2 | 116. 3 133. 8 159. 0 134. 2 | 133. 8 160. 2 |
| Public Local transit fares Taxicab fares. Railroad fares, coach. Airplane fares, chiefly coach Bus fares, intercity | Dec. 63 | 170. 8 190. 9 135. 9 121. 5 117. 9 130. 1 | 167. 8 185. 8 135. 9 121. 5 117. 9 130. 1 | 166. 6 185. 2 131. 5 121. 1 117. 8 128. 6 | 165. 8 183. 9 131. 5 121. 1 117. 8 128. 6 | 165. 8 183. 8 131. 5 121. 1 117. 8 128. 6 | 165. 4 183. 8 131. 5 117. 2 117. 4 127. 9 | 165. 1 183. 3 131. 5 117. 2 117. 4 127. 9 | 153. 0 163. 2 131. 5 117. 2 117. 4 127. 9 | 151.1 163.0 127.5 115.5 111.6 127.0 | 150. 3 161. 7 127. 5 115. 1 111. 6 127. 0 | 150. 3 161. 7 127. 5 115. 1 111. 6 127. 0 | 149.7 160.8 127.5 114.9 112.1 122.9 | 149. 5 160. 5 127. 5 114. 9 112. 1 122. 9 | 160. 4 126. 7 114. 0 110. 6 |
| HEALTH AND RECREATION | | 144.3 | 143.7 | 142.9 | 142.3 | 141.4 | 140.7 | 140.1 | 139.6 | 139.1 | 138.6 | 138. 4 | 137.7 | 137. 0 | 136.6 |
| Medical care Drugs and prescriptions Over-the-counter items. Multiple vitamin concentrates Aspirin compounds. | Dec. 63 Dec. 63 Dec. 63 | 165. 8 102. 0 110. 5 92. 7 112. 0 | 164.7 101.6 109.7 92.6 109.8 | 163.6 101.4 109.2 92.7 109.2 | 162. 8 100. 9 108. 6 92. 0 108. 1 | 161.6 100.3 107.8 91.7 107.3 | 160.1 100.0 107.2 90.8 107.4 | 159. 0 99. 7 107. 2 92. 3 106. 2 | 158. 1 99. 6 107. 1 92. 8 106. 6 | 157. 4 99. 6 107. 1 92. 4 106. 2 | 156. 9 99. 4 106. 9 92. 5 106. 1 | 157. 6 99. 3 106. 9 92. 4 105. 5 | 156. 8 99. 3 107. 0 92. 4 106. 8 | 155. 9 99. 2 106. 9 92. 1 106. 4 | 99. 2 106. 9 92. 4 |
| Liquid tonics Adhesive bandages, package Cold tablets or capsules Cough syrup | Dec. 63 Dec. 63 Dec. 63 | 125. 0 112. 7 | 101. 8 122. 7 112. 7 117. 2 | 101.9 121.4 112.7 116.4 | 101.9 119.8 112.6 116.0 | 101. 5 119. 7 112. 2 113. 5 | 101.2 118.2 111.5 113.0 | 101. 3 117. 8 111. 0 113. 4 | 101. 3 117. 7 110. 5 112. 9 | 101. 3 117. 1 110. 0 114. 7 | 100.8 117.4 109.6 113.7 | 100. 9 117. 0 109. 1 115. 1 | 100.9 116.5 109.2 114.8 | 100. 8 116. 7 109. 1 114. 8 | 116. 9 109. 2 |
| Prescriptions Anti-infectives_ Sedatives and hypnotics Ataractics Anti-spasmodics | Mar. 60 Mar. 60 | 114.5 | 90.8 | 90. 5 63. 1 114. 2 90. 7 102. 4 | 90. 3 63. 0 113. 7 90. 7 102. 2 | 89. 7 62. 8 112. 1 90. 0 101. 7 | 89. 7 63. 0 112. 0 90. 0 101. 6 | 89. 3 62. 8 110. 6 90. 0 101. 5 | 89. 1 62. 8 110. 4 89. 8 101. 3 | 89. 0 62. 8 109. 6 89. 8 101. 3 | 89. 0 63. 0 108. 9 89. 8 101. 3 | 89.8 | 88.7 62.9 107.6 89.7 101.0 | 88. 6 62. 8 107. 1 89. 9 101. 0 | 62.8 107.2 89.8 |
| Cough preparationsCardiovasculars and antihyper- | Mar. 60 | 118.2 | 118.1 | 118, 0 | 118.1 | 117.1 | 115.2 | 112.7 | 112.0 | 111.7 | 111.4 | 111.1 | 110.8 | 110.2 | 2 109. |
| tensives | Mar. 60 Mar. 67 Mar. 67 | 105.4 108.1 | 105. 4 107. 2 | 107.2 | 100. 0 105. 3 106. 0 93. 6 | 105.8 | 105.5 | 104.8 | 104.3 | 104.3 | 97.9 103.1 104.2 94.3 | 103.6 | 97.6 103.1 103.3 93.9 | 97. 1 102. 9 102. 9 93. 8 | 102. |
| Professional services: Physicians' fees. Family doctor, office visits. Family doctor, house visits. Obstetrical cases. Pediatric care, office visits. Psychiatrist, office visits. See footnotes at end of table. | Dec. 63 | 167. 8 171. 3 176. 0 162. 2 151. 3 135. 3 | 170.8 175.6 161.8 151.4 | 168.3 173.6 161.1 | 167. 3 172. 5 159. 2 148. 7 | 166. 6 171. 7 159. 0 | 164. 0 169. 0 157. 6 147. 7 | 163. 1 167. 9 155. 9 146. 5 | 162. 4 167. 6 155. 0 145. 9 | 161. 0 166. 2 154. 9 145. 5 | 160. 6 165. 9 153. 9 144. 2 | 160. 3 165. 6 153. 2 144. 1 | 158.7 163.9 152.8 142.8 | 158. 3 163. 8 150. 1 140. 9 | 3 157.2 8 163.2 1 150.2 9 141.4 |

24. Consumer Price Index-general summary and U.S. average for groups, subgroups, and selected items-Continued

| Index or group | Other | | | | 1970 | | | | | | 19 | 69 | | | Annu |
|--|--|--|--|--|--|--|--|--|--|--|--------------------------------------|--|--------------------------------------|--------------------------------------|------------------------------|
| man a. Brank | bases | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 |
| ALTH AND RECREATION—Continued Medical care—Continued Professional services—Continued | | | | | | | | | | | | | | | |
| Physicians' fees—Continued Herniorrhaphy, adult Tonsillectomy and adenoidectomy | Dec. 63 | 130. 7 157. 5 | 130.6 156.7 | 129. 6 156. 1 | 128. 7 154. 2 150. 7 | 127. 5 153. 8 | 126. 7 152. 6 148. 4 | 126. 3 152. 3 | 125. 4 151. 6 147. 6 | 125. 2 151. 3 | 124.6 149.3 | 124. 6 149. 1 | 124.3 149.0 | 124. 3 148. 1 | 123. 148. |
| Dentists' fees Fillings, adult, amalgam, one surface Extractions, adult | | 152. 8 154. 9 150. 1 | 151.9 154.1 149.7 | 151. 2 153. 3 148. 9 | 152. 5 148. 9 | 148. 7 150. 6 146. 1 | 150. 3 145. 9 | 148. 0 149. 8 146. 0 | 148. 7 147. 0 | 147. 2 148. 3 146. 7 | 146.9 148.3 145.9 | 146. 0 147. 1 145. 3 | 145. 5 146. 4 144. 7 | 144. 9 145. 7 144. 5 | 143. 144. 143. |
| Other professional services: | Dec. 63 | 134. 8 | 133.6 | 133. 2 | 132.7 | 131.7 | 131.3 | 130.6 | 130. 2 | 129.7 | 129.5 | 128. 9 | 128.8 | 128. 3 | 127. |
| Examination, prescription, and dis- pensing of eyeglasses Routine laboratory tests Hospital service charges: | Dec. 63 | 138. 2 121. 9 | 137. 8 121. 7 | 136. 9 121. 3 | 136. 7 121. 2 | 136. 3 120. 8 | 135.7 119.8 | 134. 6 119. 6 | 133.9 119.5 | 133.8 119.4 | 132. 8 118. 5 | 132. 4 118. 5 | 132. 2 118. 6 | 131.7 118.0 | 131. 117. |
| Daily service charges Semiprivate rooms Private rooms Operating room charges | Dec. 63 | 289. 1 285. 9 277. 9 183. 6 131. 4 | 284. 4 281. 1 273. 5 181. 7 131. 4 | 283. 1 279. 8 272. 3 180. 9 129. 4 | 282. 3 279. 1 271. 4 180. 3 128. 1 | 279. 0 275. 6 268. 7 177. 7 127. 7 | 275. 6 271. 9 265. 9 175. 4 125. 4 | 271. 6 268. 0 261. 8 172. 8 124. 7 | 267. 9 264. 1 258. 7 170. 9 124. 7 | 265. 4 261. 7 256. 1 170. 6 124. 5 | 263. 8 260. 1 254. 7 170. 9 | 261. 9 258. 4 252. 6 168. 7 124. 6 | 259.9 25.3 250.8 167.6 | 256.7 253.0 247.9 166.4 | 256. 252. 247. 165. |
| X-ray, diagnostic series, upper G.I Personal care Toilet goods Toothpaste, standard dentifrice | | 130. 6 113. 5 113. 9 | 130. 2 113. 3 114. 4 | 130. 3 113. 3 114. 4 | 129. 8 113. 0 114. 7 | 129. 6 112. 9 113. 9 | 129. 0 112. 4 114. 3 | 128. 5 112. 0 114. 1 | 128. 1 111. 6 114. 6 | 127.8 111.8 114.7 | 124.8 127.3 111.6 114.4 | 127. 3 111. 7 113. 8 | 123. 2 126. 8 111. 4 113. 4 | 122.7 126.6 111.2 112.9 | 122. 126. 110. 113. |
| Toilet soap, hard milled Hand lotions, liquid Shaving cream, aerosol | Dec. 63 | 128. 3 109. 5 102. 0 | 127. 0 111. 2 101. 3 | 126. 2 111. 5 102. 1 | 124. 3 117. 3 102. 3 | 125. 6 110. 5 102. 2 | 124.3 110.0 102.1 | 123. 0 109. 2 102. 1 | 123. 4 109. 1 101. 9 | 124.8 109.7 101.6 | 125. 1 110. 7 102. 0 | 126. 3 111. 1 102. 1 | 123.3 111.2 102.1 | 125. 1 110. 4 101. 4 | 124. 108. |
| Face powder, pressed Deodorants, cream or roll-on Cleansing tissues. Home permanent refills | Dec. 63 | 131. 9 96. 4 117. 0 98. 8 | 131.4 95.9 116.4 98.3 | 131. 6 95. 8 116. 4 98. 4 | 131. 0 95. 9 116. 0 98. 3 | 130. 8 96. 1 115. 5 98. 6 | 129. 1 96. 1 114. 4 98. 6 | 128. 1 96. 0 113. 8 98. 6 | 127. 6 94. 5 112. 5 98. 7 | 127.5 95.0 111.8 98.6 | 127. 2 95. 1 109. 2 98. 5 | 126. 8 95. 3 108. 4 99. 2 | 126. 6 95. 5 109. 3 99. 1 | 126. 1 95. 0 109. 3 98. 8 | 125. 94. 108. 98. |
| Personal care services Men's haircuts Beauty shop services Women's haircuts | Dec. 63 | 151. 9 162. 5 141. 2 125. 8 | 151.2 161.0 141.0 125.4 | 151. 3 161. 0 141. 2 126. 4 | 150. 5 159. 7 140. 9 126. 3 | 150. 1 159. 1 140. 6 126. 1 | 149. 5 158. 7 140. 0 125. 4 | 148. 9 158. 0 139. 2 125. 3 | 148. 5 157. 8 138. 8 125. 2 | 147. 5 156. 4 138. 0 124. 0 | 146. 7 155. 2 137. 7 123. 4 | 146. 5 154. 8 137. 5 123. 2 | 145. 8 154. 5 136. 6 121. 9 | 145. 5 154. 7 136. 0 121. 2 | 145. 153. 136. 122. |
| Shampoo and wave sets, plain Permanent waves, cold | | 159. 2 109. 8 | 159. 0 110. 0 | 159. 0 109. 6 | 158. 6 109. 4 | 158.3 109.0 | 157. 5 108. 9 | 156. 8 107. 5 | 156. 3 107. 2 | 155.3 107.2 | 154. 9 107. 1 | 154. 6 107. 0 | 153.6 106.9 | 152. 8 106. 7 | 152 106 |
| Reading and recreation Recreational goods. TV sets, portable and console TV replacement tubes Radios, portable and table | Dec. 63 Dec. 63 | 136. 6 100. 1 79. 9 120. 6 | 136. 1 100. 0 80. 1 119. 3 | 135. 2 99. 9 80. 1 118. 3 | 134. 4 99. 6 80. 0 117. 5 | 133. 6 99. 4 79. 9 117. 3 | 133. 2 99. 2 79. 9 117. 3 | 133. 1 99. 1 80. 0 116. 6 | 132. 7 99. 1 80. 2 116. 3 | 132.3 99.2 80.3 116.3 | 132. 0 99. 1 80. 2 115. 9 | 131. 6 99. 0 80. 0 115. 7 | 131. 2 98. 8 79. 7 115. 4 | 130.7 98.7 79.8 115.6 | 130 98 80 115 |
| model Tape recorders, portable | Dec. 63 | 76. 6 89. 8 | 76.6 89.9 | 76. 6 90. 4 | 76. 5 90. 3 | 76. 0 90. 2 | 76. 1 90. 2 | 76. 4 90. 0 | 76. 5 90. 1 | 76.5 91.2 | 76. 6 91. 4 | 76. 9 91. 5 | 76.5 91.4 | 76.5 91.5 | 76 91 |
| Phonograph records, stereo- phonic Movie cameras, Super 8, zoom | Dec. 63 | 98. 1 | 98. 2 | 98.3 | 97.8 | 98. 1 | 97.9 | 98. 0 | 98. 0 | 98.0 | 98.1 | 97.6 | 97.7 | 97.9 | 97 |
| lens. Film, 35mm, color Bicycle, boys' Tricycles | Dec. 63 Dec. 63 Dec. 63 Dec. 63 | 82. 2 100. 1 110. 7 113. 6 | 82.3 100.1 110.4 113.7 | 82. 0 100. 0 110. 5 113. 1 | 81. 4 99. 7 110. 8 111. 6 | 81. 3 99. 7 111. 4 111. 2 | 81.6 99.7 111.2 112.0 | 82. 1 99. 1 110. 7 112. 0 | 82. 3 99. 1 110. 4 111. 6 | 83. 4 99. 1 110. 0 111. 4 | 83.1 99.4 109.7 111.9 | 83. 5 99. 6 109. 9 111. 6 | 83. 4 99. 2 109. 5 111. 2 | 83. 5 99. 1 109. 7 109. 4 | 99 109 109 |
| Recreational services_ Indoor movie admissions Adult Children's | Dec. 63 | 137. 1 221. 4 216. 8 237. 0 | 136. 9 220. 0 215. 6 235. 0 | 135. 9 217. 9 212. 8 234. 8 | 135. 0 215. 4 210. 9 230. 6 | 134. 1 212. 0 207. 7 226. 7 | 133. 7 210. 5 206. 1 225. 4 | 133. 9 211. 7 207. 3 226. 9 | 133. 2 210. 3 205. 4 227. 1 | 132. 6 208. 3 203. 2 225. 4 | 132.1 207.0 201.9 224.5 | 131. 7 206. 5 201. 6 223. 2 | 131.1 204.2 198.8 222.1 | 130. 1 200. 2 194. 4 219. 6 | 129 200 195 217 |
| Drive-in movie admissions, adult_ Bowlng fees, evening Golf greens fees TV repairs, picture tube re- | Dec. 63 Dec. 63 Dec. 63 | 172. 3 114. 6 145. 5 | 171.6 115.7 145.1 | 168. 9 115. 2 141. 5 | 168. 1 115. 2 139. 3 | 167. 5 114. 8 (2) | 167. 0 115. 0 (2) | 165. 6 115. 3 (²) | 165. 5 113. 7 (²) | 165. 0 113. 6 (²) | 164. 5 112. 1 135. 5 | 164. 1 110. 9 135. 9 | 163. 5 110. 3 135. 8 | 161.9 110.4 134.7 | 159 111 131 |
| placement Film developing, black and white. Reading and education: | Dec. 63 | 97. 7 116. 7 | 97. 6 116. 4 | 98. 6 117. 7 | 98.7 117.6 | 98. 9 117. 3 | 99. 5 117. 7 | 100. 2 117. 4 | 100. 2 117. 7 | 100. 0 117. 9 | 101. 4 117. 9 | 101.0 | 101.0 118.4 | 101. 0 118. 9 | 101 |
| Newspapers, street sale and delivery ? Piano lessons, beginner | Dec. 63 | 166. 8 129. 0 | 163.9 128.4 | 161.5 128.2 | 160. 4 128. 2 | 160. 4 127. 8 | 159. 8 127. 7 | 160. 2 127. 6 | 158. 2 127. 3 | 156. 7 126. 7 | 156. 4 126. 5 | 155. 9 126. 1 | 155. 8 123. 8 | 155. 2 122. 8 | 154 123 |
| Other goods and services Tobacco products Cigarettes, nonfilter tip, regular size | | 137. 3 159. 7 167. 9 | 136. 7 158. 1 166. 0 | 136. 1 156. 7 164. 4 | 135. 6 156. 4 164. 1 | 134. 8 155. 0 162. 8 | 134.3 154.9 | 133. 9 154. 1 161. 8 | 133. 5 153. 8 161. 4 | 133. 1 153. 1 | 132. 2 151. 5 158. 9 | 131. 3 150. 6 158. 0 | 130.1 148.7 | 129. 1 146. 7 | 129 |
| Cigarettes, filter tip, king size Cigars, domestic, regular size Alcoholic beverages. | Mar. 59 | 160. 2 108. 6 123. 2 | 158. 5 108. 6 123. 2 | 157. 2 108. 6 123. 1 | 156. 8 108. 6 122. 5 | 154. 9 108. 7 122. 0 | 162.7 154.8 108.7 | 154. 0 109. 0 121. 0 | 153. 5 110. 0 120. 6 | 160. 7 152. 6 109. 9 | 151. 0 109. 4 120. 0 | 150. 0 109. 6 | 155. 8 148. 1 108. 7 | 153.7 146.2 107.1 | 153 145 107 |
| Beer Whiskey, spirit blended and straight bourbon | | 118. 2 113. 1 | 118.3 | 118. 5 112. 5 | 118. 2 | 117.7 | 121. 4 116. 9 111. 3 | 116. 5 111. 2 | 116. 5 111. 5 | 120. 4 116. 6 111. 4 | 116.3 | 119. 1 116. 4 110. 4 | 118. 2 115. 3 110. 1 | 117.7 114.8 109.8 | 117 114 109 |
| Wine, dessert and table Beer, away from home Financial and miscellaneous personal | Dec. 63 Dec. 63 | 119. 8 129. 5 | 119.6 129.6 | 119. 4 129. 3 | 118. 9 128. 4 | 117. 4 128. 0 | 116. 8 127. 6 | 116. 5 127. 1 | 115. 2 125. 9 | 114. 5 125. 6 | 113.6 125.0 | 112. 0 123. 0 | 110.6 122.3 | 110.2 121.8 | 110 |
| expenses: Funeral services, adult Bank service charges, checking accounts | Dec. 63 | 119.9 110.2 | 119.6 110.3 | 119.3 110.0 | 119. 0 110. 0 | 118. 6 110. 1 | 118.1 | 117.7 | 117.4 | 117.3 | 116.9 | 116.5 | 115.9 | 115.5 | 115 |
| Legal services, short form will | Dec. 63 | 149. 2 | 149. 0 | 146.1 | 145. 6 | 145. 1 | 110.0 142.7 | 110. 2 142. 3 | 110.3 | 109. 9 139. 5 | 109.1 139.5 | 108. 3 138. 8 | 103.4 137.8 | 108. 2 135. 0 | 108 |

Priced only in season.
 Not available.
 This item is a replacement for bedroom suites, good or inexpensive quality, which was discontinued after March 1970.
 This item is a replacement for dining room suites, which was discontinued after March 1970.
 Gitized for FRASER

[§] Item discontinued, § This item is a replacement for box springs which was discontinued after April 1970. § June 1970 index revised.

NOTE: Monthly data for individual nonfood items not available for 1968.

25. Consumer Price Index 1-U.S. city average, and selected areas

[1957-59=100 unless otherwise specified]

| Area ² | | | | 1970 | | | | | | 190 | 69 | | | Annua avg. |
|---|--|--|---|--|--|---|--|--|---|--|--|---|--|--|
| Al 00 - | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 |
| | | | | | | | All it | ems | | | | | | |
| J.S. city average 3 | 135. 7 | 135. 2 | 134.6 | 134.0 | 133. 2 | 132, 5 | 131.8 | 131.3 | 130.5 | 129.8 | 129.3 | 128.7 | 128, 2 | 127. |
| Atlanta, Ga | (4) 139. 5 (4) 132. 3 (4) | 133.6 135.2 137.9 (4) 131.5 131.2 | (4) (4) (4) 127. 0 131. 1 (4) | (4) (4) 137. 9 (4) 130. 2 (4) | 131. 9 133. 5 (4) (4) 129. 9 129. 2 | (4) (4) (4) 125. 3 129. 3 (4) | (4) (4) 136. 1 (4) 129. 1 (4) | 129. 9 131. 9 (4) (4) 128. 3 127. 7 | (4) (4) (4) 123. 2 127. 7 (4) | (4) (4) 134. 7 (4) 126. 9 (4) | 128. 6 130. 4 (4) (4) 127. 2 125. 5 | (4) (4) (4) 121. 2 126. 1 (4) | (4) (4) 132.1 (4) 125.3 (4) | 126. 128. 131. 120. 124. 124. |
| Cleveland, Ohio | (4) 135, 5 (4) 133, 7 (4) | 134.3 (4) 135.2 (4) 132.9 137.9 | 134. 3 127. 1 134. 9 (4) (4) (4) | (4) (4) 133. 8 (4) 132. 9 (4) | (4) (4) 133. 1 122. 0 (4) 134. 6 | 132. 3 125. 6 132. 2 (4) (4) (4) | (4) (4) 131. 1 (4) 130. 9 (4) | (4) (4) 130. 8 119. 7 (4) 133. 2 | 129. 5 123. 7 129. 8 (4) (4) (4) | (4) (4) 129. 2 (4) 129. 8 (4) | (4) (4) 128.6 118.1 (4) 131.4 | 127. 3 121. 2 128. 5 (4) (4) (4) | (4) (4) 127. 6 (4) 127. 0 (4) | 126. 120. 127. 117. 127. 130. |
| os Angeles-Long Beach, Calif. Milwaukee, Wis | 135. 1 (4) 136. 7 142. 1 137. 4 134. 6 (4) | 133. 9 130. 0 135. 1 141. 6 137. 0 132. 4 | 133. 8 130. 0 (4) 140. 7 136. 5 (4) (4) | 133. 5 (4) 135. 1 140. 1 135. 7 132. 4 133. 4 | 132. 2 (4) (4) 139. 1 135. 4 (4) (4) | 131. 6 128. 5 (4) 138. 1 134. 1 (4) (4) | 131. 2 (4) 132. 8 137. 0 132. 9 129. 4 130. 7 | 131. 1 (4) (4) 136. 0 132. 2 (4) (4) | 130. 0 127. 0 (4) 134. 6 131. 7 (4) (4) | 130. 1 (4) 130. 3 134. 1 131. 2 128. 5 130. 1 | 129. 6 (4) (4) 133. 5 131. 0 (4) (4) | 128. 9 123. 9 (4) 132. 5 130. 2 (4) (4) | 128. 6 (4) 128. 0 132. 1 129. 2 127. 7 128. 4 | 128. 123. 127. 131. 128. 127. 128. |
| St. Louis, Mo.—III | | 134. 1 (4) 137. 5 (4) 133. 9 136. 7 | (4) 120. 9 (4) 136. 9 133. 9 136. 7 | (4) (4) (4) (4) (4) (4) | 132. 4 (4) 136. 1 (4) (4) (4) | (4) 118.6 (4) 134.4 132.2 134.6 | | 130. 7 (4) 134. 5 (4) (4) (4) | (4) 117. 0 (4) 127. 3 130. 0 132. 0 | 99999 | 129. 2 (4) 132. 8 (4) (4) (4) | (4) 116. 0 (4) 130. 5 129. 5 130. 8 | 9999 | 127. 115. 131. 129. 128. 129. |
| | | | | | | | Fo | od | | | | | | |
| U.S. city average ³ | 133. 4 | 132.7 | 132.4 | 132.0 | 131.6 | 131.5 | 130.7 | 129.9 | 128.1 | 127.2 | 127.5 | 127.4 | 126.7 | 125. |
| Atlanta, Ga Baltimore, Md Boston, Mass Buffalo, N.Y. (Nov. 1963=100) Chicago, IIINorthwestern Ind. Cincinnati, Ohio-Kentucky | 131. 4 137. 6 138. 1 129. 5 133. 8 130. 5 | 131. 1 136. 7 137. 0 128. 6 133. 6 129. 7 | 130, 0 136, 5 136, 6 128, 1 133, 1 129, 1 | 130. 6 135. 9 135. 9 128. 4 132. 6 128. 6 | 130. 5 136. 2 135. 4 127. 3 133. 0 127. 9 | 130. 7 135. 4 135. 0 127. 0 133. 2 127. 8 | 129. 0 134. 9 134. 3 125. 4 132. 8 127. 2 | 128. 4 134. 1 133. 1 125. 1 131. 3 126. 6 | 126. 9 132. 3 131. 6 122. 8 129. 4 125. 1 | 126. 5 131. 5 131. 2 121. 9 128. 3 124. 1 | 126. 7 131. 8 131. 4 121. 8 130. 2 123. 6 | 126. 3 130. 8 131. 8 122. 5 130. 5 123. 2 | 124. 4 130. 1 130. 2 122. 4 129. 0 123. 3 | 123. 128. 129. 120. 127. 122. |
| Cleveland, Ohio | | 131. 2 125. 8 132. 2 123. 8 133. 3 136. 9 | 130. 8 126. 0 132. 1 123. 2 133. 4 136. 8 | 129. 7 125. 5 131. 2 123. 4 133. 8 136. 4 | 129. 3 125. 5 130. 9 123. 4 132. 7 135. 9 | 128. 4 125. 9 130. 2 122. 9 133. 3 135. 8 | 129. 0 125. 0 129. 8 123. 0 132. 3 135. 1 | 128. 5 124. 2 129. 3 120. 8 131. 2 134. 4 | 125. 7 122. 8 126. 8 119. 5 129. 2 132. 9 | 125. 0 121. 7 126. 1 119. 7 128. 7 131. 2 | 125. 1 122. 0 126. 5 119. 1 129. 2 131. 9 | 125. 2 121. 9 127. 3 118. 0 129. 0 131. 3 | 123. 3 120. 6 126. 5 116. 9 127. 7 130. 7 | 123. 119. 124. 117. 126. 129. |
| Los Angeles-Long Beach, Calif | 128.9 | 127. 8 129. 4 131. 4 136. 8 132. 4 128. 7 | 128. 1 129. 4 131. 3 136. 0 132. 3 128. 8 | 127. 4 129. 3 131. 2 135. 7 131. 5 128. 3 128. 5 | 126. 7 130. 2 131. 2 135. 1 132. 0 128. 2 | 127. 2 130. 1 130. 6 134. 7 132. 0 128. 0 | 126. 2 129. 5 129. 5 133. 8 130. 7 127. 5 126. 7 | 125, 8 128, 4 128, 2 132, 9 129, 7 127, 1 | 124.7 127.8 127.2 130.6 128.0 125.7 | 124. 0 127. 6 126. 5 129. 6 127. 0 123. 3 124. 4 | 124. 0 127. 9 125. 9 129. 1 127. 2 123. 2 | 123. 9 127. 6 126. 4 128. 7 127. 2 123. 9 | 124. 0 126. 5 125. 4 128. 1 126. 0 124. 2 125. 2 | 125. 123. 127. 125. 122. |
| St. Louis, Mo.—III San Diego, Calif. (Feb. 1965—100) San Francisco-Oakland, Calif Scranton, Pa. Seattle, Wash | 137. 7 123. 0 130. 5 | 136. 7 122. 0 129. 1 | 136. 3 122. 3 129. 0 131. 3 130. 6 | 136. 5 121. 3 128. 8 | 136. 6 120. 8 128. 2 | 137. 4 121. 3 128. 7 131. 3 129. 2 | 136. 6 120. 6 128. 2 | 135. 5 120. 0 127. 2 | 133. 5 119. 1 126. 2 131. 9 126. 2 | 132. 4 117. 8 125. 6 | 132. 6 118. 3 124. 9 | 131. 2 118. 6 124. 9 127. 5 126. 2 | 129. 8 118. 7 125. 9 | 117. 123. 125. |
| Washington, D.CMdVa | 137.6 | 137.1 | 136. 2 | 136. 6 | 135.7 | 136. 2 | 134.8 | 133.5 | 131. 2 | 130. 5 | 131.6 | 132.5 | 131.3 | |

³ Average of 56 "cities" (metropolitan areas and nonmetropolitan urban places beginning January 1966).

⁴ All items indexes are computed monthly for 5 areas and once every 3 months on a rotating cycle for other areas.

⁵ Old series.

¹ See table 23. Indexes measure time-to-time changes in prices. They do not indicate whether it costs more to live in one area than in another.
² The areas listed include not only the central city but the entire urban portion of the Standard Metropolitan Statistical Area, as defined for the 1960 Census of Population; except that the Standard Consolidated Area is used for New York and Chicago.

26. Wholesale price indexes, 1 by group and subgroup of commodities [1957-59=100 unless otherwise specified] 2

| Code | Commodity Group | | | | 1970 | | | | | | 1 | 969 | | | Annua |
|--|---|---|--|--|--|--|--|--|--|--|--|--|--|---|--|
| 10007 | | July | June | May | Apr. | Mar. | Feb | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 |
| | ALL COMMODITIES | 117.7 | 117.0 | 116.8 | 116.6 | 116.6 | 116.4 | 116.0 | 115, 1 | 114.7 | 114.0 | 113.6 | 113.4 | 113.3 | 113. 0 |
| | FARM PRODUCTS AND PROCESSED FOODS AND FEEDS | 119.3 | 117.5 | 117. 0 | 117.6 | 118.8 | 118.7 | 118. 2 | 116. 4 | 115.7 | 114.3 | 114.3 | 114.6 | 115.5 | 110 5 |
| | INDUSTRIAL COMMODITIES | 116.9 | 116.7 | 116.6 | 116.2 | 115.8 | 115. 5 | 115.1 | 114.6 | 114.2 | 113.8 | 113. 2 | 112.8 | 112.4 | 113. 5 |
| | FARM PRODUCTS, AND PROCESSED FOODS AND FEEDS | | | | | | | | | | | | | | |
| 01 01-1 01-2 01-3 01-4 01-5 01-6 01-7 01-8 01-9 | Farmproducts. Fresh and dried fruits and vegetables. Grains. Livestock Live poultry. Plant and animal fibers Fluid milk. Eggs. Hay, hayseeds, and oilseeds. Other farm products. | 89. 2 126. 2 81. 9 66. 1 | 111. 3 122. 2 89. 2 123. 0 77. 9 65. 7 139. 6 85. 3 112. 6 114. 9 | 111. 0 123. 5 88. 4 122. 2 83. 7 65. 6 139. 5 79. 7 111. 1 115. 0 | 111. 3 112. 7 87. 8 124. 8 82. 8 65. 4 141. 1 94. 9 109. 8 114. 7 | 114. 3 118. 2 85. 5 129. 6 90. 8 64. 9 139. 7 120. 1 106. 3 114. 8 | 113. 7 117. 2 85. 9 124. 9 87. 1 65. 4 140. 8 136. 9 106. 3 115. 2 | 112. 5 116. 6 85. 9 117. 3 94. 8 65. 3 140. 5 152. 2 107. 7 116. 3 | 111. 7 112. 4 82. 9 120. 2 86. 9 65. 7 138. 3 155. 8 105. 1 113. 1 | 111. 1 125. 3 81. 7 116. 6 86. 3 66. 0 137. 6 139. 8 103. 4 115. 9 | 107. 9 101. 3 84. 8 118. 7 85. 3 66. 1 136. 8 113. 8 101. 2 116. 7 | 108. 4 103. 4 83. 4 119. 2 89. 0 66. 4 135. 6 122. 5 105. 7 110. 6 | 108. 9 106. 7 81. 9 123. 6 92. 3 66. 9 135. 1 100. 5 107. 3 109. 5 | 110. 5 103. 1 83. 7 126. 8 90. 2 67. 7 134. 9 117. 0 111. 3 106. 9 | 108. 5 111. 0 83. 3 118. 3 89. 8 67. 1 134. 8 112. 9 109. 2 109. 1 |
| 02 02-1 02-2 02-3 02-4 02-5 02-6 02-71 02-72 02-73 02-74 02-8 02-9 | Processed foods and feeds Cereal and bakery products Meats, poultry, and fish Dairy products. Processed fruits and vegetables Sugar and confectionery Beverages and beverage materials. Animal fats and oils. Crude vegetable oils Refined vegetable oils Vegetable oil end products. Miscellaneous processed foods. Manufactured animal feeds. | 135.7 118.9 132.3 120.4 | 124. 8 124. 6 123. 7 135. 4 118. 5 130. 4 120. 3 111. 5 102. 8 113. 2 126. 7 120. 8 | 124. 1 124. 6 122. 5 135. 4 118. 1 129. 4 120. 3 116. 8 106. 4 113. 1 124. 1 119. 4 | 124. 9 124. 6 124. 9 135. 1 117. 5 128. 7 118. 8 118. 8 114. 7 107. 7 113. 6 125. 8 121. 4 | 124. 9 123. 7 127. 1 133. 1 116. 5 127. 4 118. 4 133. 7 110. 7 111. 9 112. 4 127. 1 119. 0 | 125. 2 123. 3 124. 9 134. 1 117. 3 127. 7 118. 3 115. 7 99. 5 99. 8 107. 5 127. 4 131. 3 | 125. 1 122. 3 125. 8 133. 9 116. 9 129. 1 117. 4 111. 0 86. 4 97. 8 107. 5 126. 5 | 122. 6 122. 0 121. 9 133. 9 116. 4 127. 1 116. 1 115. 6 86. 1 97. 9 108. 0 126. 4 121. 8 | 121. 8 121. 9 120. 5 131. 2 116. 3 127. 9 116. 0 123. 0 97. 0 91. 1 106. 5 127. 2 119. 5 | 121. 6 121. 2 120. 2 130. 7 116. 0 127. 7 115. 0 118. 3 88. 4 88. 9 104. 7 131. 6 119. 9 | 121. 3 120. 4 122. 9 133. 4 116. 6 127. 2 113. 1 104. 0 79. 8 85. 0 102. 1 121. 2 119. 3 | 121. 5 120. 1 124. 5 133. 0 116. 8 127. 2 112. 6 105. 0 80. 0 84. 7 102. 1 119. 8 118. 2 | 122. 0 119. 9 127. 5 133. 0 116. 6 122. 3 112. 6 96. 4 80. 0 89. 4 102. 1 119. 5 118. 7 | 119. 8 120. 2 119. 5 131. 9 115. 7 123. 6 112. 9 100. 3 83. 5 90. 3 103. 5 121. 5 118. 2 |
| | INDUSTRIAL COMMODITIES | | | | | | | | | | | | | | 140.2 |
| 03 03-1 03-2 03-3 03-41 03-5 03-6 03-7 | Textile products and apparel. Cotton products. Wool products. Manmade fiber textile products. Silk yarns. Apparel. Textile housefurnishings Miscellaneous textile products. | 102.6 88.4 201.0 | 109. 3 105. 9 102. 8 89. 0 199. 5 118. 4 109. 7 124. 3 | 109. 3 105. 8 103. 8 89. 5 204. 8 118. 0 108. 7 125. 6 | 109. 3 105. 8 104. 0 89. 9 201. 3 117. 9 108. 6 121. 4 | 109. 5 105. 8 104. 4 90. 4 194. 2 117. 9 108. 6 126. 5 | 109. 4 106. 1 104. 3 91. 0 196. 3 117. 5 109. 0 124. 3 | 109. 5 106. 1 104. 3 91. 5 193. 5 117. 2 109. 1 129. 0 | 109. 2 106. 1 104. 3 91. 1 191. 1 116. 9 108. 1 127. 8 | 109. 2 106. 0 104. 6 91. 5 184. 6 116. 7 108. 0 129. 6 | 109. 1 105. 8 104. 5 91. 6 183. 9 116. 5 108. 0 127. 2 | 109. 0 105. 9 105. 0 92. 1 181. 2 116. 2 107. 3 121. 4 | 108. 7 105. 7 104. 8 92. 7 177. 1 115. 8 104. 7 119. 6 | 107. 7 105. 3 105. 0 92. 6 168. 2 113. 9 104. 2 120. 3 | 108. 0 105. 2 104. 6 92. 2 169. 7 114. 5 106. 7 122. 8 |
| 04 04-1 04-2 04-3 04-4 | Hides, skins, leather, and related products | 90.8 | 127. 3 93. 8 119. 8 137. 9 120. 9 | 127. 9 101. 8 120. 4 137. 8 120. 4 | 128. 5 106. 6 120. 4 138. 4 120. 0 | 126. 8 99. 4 118. 2 136. 9 119. 9 | 126. 7 101. 1 117. 3 136. 9 119. 8 | 126. 6 102. 8 119. 6 135. 9 119. 2 | 126. 5 108. 9 119. 7 135. 0 118. 5 | 126. 8 110. 4 119. 6 135. 5 118. 6 | 127. 4 118. 0 120. 3 135. 2 118. 4 | 128. 2 128. 7 121. 7 134. 9 117. 9 | 126. 4 123. 1 121. 0 132. 7 117. 6 | 126. 4 123. 0 121. 2 132. 7 117. 5 | 125. 8 116. 9 119. 9 133. 2 116. 9 |
| 05 05-1 05-2 05-3 05-4 05-61 05-7 | Fuels and related products and power | 108.9 155.5 141.0 137.0 104.8 103.3 102.4 | 108.6 152.8 139.6 136.3 104.3 104.5 102.2 | 109. 1 146. 9 139. 6 136. 1 104. 2 104. 5 104. 2 | 107. 5 145. 9 139. 6 136. 2 103. 7 104. 5 101. 3 | 106. 3 133. 4 126. 9 135. 0 103. 6 104. 5 100. 8 | 106. 4 131. 7 126. 9 135. 2 103. 6 104. 5 101. 2 | 105. 6 125. 4 126. 9 132. 4 103. 4 104. 5 101. 0 | 106. 1 124. 6 126. 9 131. 8 103. 4 104. 5 102. 2 | 105. 5 123. 5 126. 9 128. 8 103. 4 104. 5 101. 6 | 105. 4 120. 6 126. 9 128. 7 103. 7 104. 5 101. 6 | 104.7 115.9 120.3 123.0 103.5 104.5 101.8 | 104. 7 115. 5 120. 3 121. 8 102. 4 104. 5 102. 5 | 105. 0 115. 4 120. 3 121. 6 102. 5 104. 5 103. 2 | 104. 6 116. 2 122. 0 124. 5 102. 7 103. 7 101. 8 |
| 06 06-1 06-21 06-22 06-3 06-4 06-5 06-6 06-7 | Chemicals and allied products. Industrial chemicals Prepared paint. Paint materials. Drugs and pharmaceuticals. Fats and oils, inedible. Agricultural chemicals and chem. products. Plastic resins and materials. Other chemicals and allied products. | 100.9 98.8 122.8 | 100. 5 98. 0 122. 8 91. 8 94. 8 108. 1 91. 8 80. 2 117. 8 | 100.6 98.2 122.8 93.2 94.7 106.8 91.7 80.6 117.7 | 100. 4 97. 9 122. 8 92. 6 94. 7 107. 6 92. 4 81. 1 116. 8 | 100. 0 97. 3 122. 8 92. 6 95. 0 102. 2 92. 0 81. 2 116. 5 | 99. 5 97. 7 122. 0 92. 8 94. 6 94. 3 91. 4 80. 3 115. 7 | 99. 1 97. 9 121. 7 93. 4 94. 5 95. 0 87. 6 80. 0 115. 5 | 98. 8 97. 8 120. 3 93. 4 94. 6 92. 8 86. 7 80. 1 115. 1 | 98. 9 97. 8 120. 3 93. 1 94. 2 100. 5 86. 7 79. 6 114. 9 | 98. 6 97. 6 120. 3 93. 9 94. 0 98. 9 86. 3 80. 2 114. 3 | 98. 9 98. 2 119. 2 93. 3 94. 0 102. 1 87. 4 81. 0 113. 9 | 98. 7 98. 2 119. 2 93. 3 93. 8 99. 3 88. 4 80. 7 112. 9 | 98. 2 97. 7 119. 2 93. 2 93. 8 90. 5 88. 6 80. 2 112. 8 | 98. 3 97. 7 119. 2 92. 8 93. 8 88. 7 89. 8 80. 7 112. 9 |
| 07 07–11 07–12 07–13 07–21 | Rubber and plastic products | 105.6 86.0 107.5 116.5 96.8 | 104. 1 86. 8 101. 7 115. 7 97. 4 | 104. 2 87. 1 101. 7 115. 7 97. 6 | 104. 2 87. 5 101. 7 114. 3 98. 7 | 104. 4 87. 6 101. 7 114. 3 99. 1 | 104. 6 89. 4 101. 7 114. 3 99. 1 | 104.7 89.3 101.7 114.0 99.8 | 104. 5 88. 1 101. 7 113. 4 100. 0 | 104. 4 88. 7 101. 7 113. 0 | 103. 5 89. 7 100. 6 111. 7 | 102.7 90.6 99.2 110.7 | 103. 0 92. 5 99. 2 110. 8 | 102. 5 90. 7 98. 4 111. 0 | 102. 1 89. 4 98. 2 110. 8 |
| 08 08-1 08-2 08-3 08-4 | Lumber | 121.8 | 120. 2 123. 0 131. 1 98. 5 119. 3 | 121. 0 124. 3 131. 1 99. 5 119. 3 | 120. 1 123. 5 130. 8 97. 2 119. 3 | 119. 5 123. 3 130. 7 94. 5 119. 5 | 120. 2 124. 1 130. 7 96. 3 119. 5 | 121. 6 126. 9 131. 5 95. 5 119. 5 | 122. 5 128. 2 131. 7 96. 9 118. 4 | 123. 9 129. 3 133. 2 99. 6 116. 7 | 122.6 128.0 133.9 95.8 116.7 | 123. 2 129. 5 134. 4 94. 4 116. 5 | 124. 0 131. 1 135. 1 93. 6 116. 8 | 125, 3 133, 4 135, 6 93, 9 115, 6 | 132. 0 142. 6 132. 2 109. 3 114. 8 |

26. Wholesale price indexes,1 by group and subgroup of commodities—Continued

[1957=100 unless otherwise specified] 2

| | | | | | 1970 | | | | | | 19 | 969 | | | Annual |
|---|---|---|--|--|--|--|--|--|--|---|---|---|---|--|---|
| Code | Commodity Group | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 |
| | INDUSTRIAL COMMODITIES—Continued | | | | | | | | | | | | | | |
| 09 09-1 | Pulp, paper, and allied products Pulp, paper, and products, excluding build- | 112.5 | 112.2 | 112.3 | 112.5 | 112.1 | 111.8 | 111.1 | 109. 5 | 109.3 | 109.0 | 108.8 | 108.7 | 108.4 | 108. 2 |
| 09-11 09-12 09-13 09-14 09-15 09-2 | ing paper and board | 113.3 109.6 95.3 121.9 95.5 113.7 93.2 | 113. 0 105. 0 99. 0 121. 7 95. 5 113. 6 93. 3 | 113. 0 105. 0 104. 2 121. 6 96. 7 113. 4 93. 3 | 113. 2 105. 0 108. 5 121. 6 97. 0 113. 5 93. 4 | 112. 9 104. 7 108. 5 121. 6 97. 0 112. 9 92. 9 | 112. 5 104. 7 108. 2 121. 5 97. 1 112. 2 93. 0 | 111.8 103.7 107.5 120.3 96.0 111.9 93.4 | 110. 1 98. 0 106. 7 117. 4 96. 0 110. 7 93. 9 | 109. 9 98. 0 107. 0 117. 0 96. 0 110. 6 94. 4 | 109.6 98.0 107.2 116.5 95.9 110.3 94.6 | 109. 3 98. 0 108. 4 116. 5 95. 9 109. 8 95. 1 | 109. 2 98. 0 110. 3 117. 2 95. 8 109. 2 95. 2 | 108. 9 98. 0 111. 2 117. 1 93. 7 109. 0 95. 9 | 108. 6 98. 0 108. 3 116. 6 94. 4 108. 8 97. 1 |
| 10 10-1 10-13 10-2 10-3 10-4 10-5 10-6 10-7 10-8 | Metals and metal products Iron and steel Steel mill products Nonferrous metals Metal containers Hardware Plumbing fixtures and brass fittings Heating equipment Fabricated structural metal products Miscellaneous metal products | 120. 4 122. 8 152. 6 126. 1 126. 3 125. 1 103. 3 119. 1 | 129. 1 120. 2 122. 0 155. 0 125. 0 125. 9 124. 7 102. 4 118. 1 130. 4 | 128. 7 118. 9 120. 5 157. 2 125. 0 125. 4 124. 0 101. 7 117. 3 128. 3 | 127. 8 117. 3 118. 7 157. 1 125. 0 125. 2 123. 2 101. 3 116. 4 127. 5 | 127. 0 117. 7 118. 4 153. 4 125. 0 124. 9 122. 8 100. 5 116. 0 127. 1 | 126. 1 117. 0 117. 7 152. 8 125. 0 124. 7 122. 8 99. 9 114. 6 125. 2 | 124. 9 114. 6 115. 5 152. 8 120. 6 124. 2 122. 8 99. 7 114. 0 124. 9 | 123. 8 113. 9 116. 4 150. 1 120. 6 123. 0 122. 8 99. 7 113. 7 124. 5 | 122. 9 113. 7 116. 4 146. 4 120. 6 122. 7 122. 2 99. 3 113. 6 124. 4 | 122. 4 113. 7 116. 4 144. 8 120. 6 122. 2 120. 8 98. 7 113. 4 124. 4 | 121. 7 113. 2 115. 5 143. 5 120. 3 121. 0 120. 2 98. 0 112. 8 124. 2 | 120. 4 112. 7 115. 4 139. 5 119. 7 120. 6 119. 4 97. 7 112. 6 123. 2 | 118. 7 111. 1 113. 6 136. 1 119. 7 120. 5 119. 4 97. 7 112. 0 121. 3 | 118. 9 111. 0 113. 7 137. 4 119. 7 120. 5 118. 7 97. 6 111. 5 122. 0 |
| 11 11-1 11-2 11-3 11-4 11-6 | Machinery and equipment Agricultural machinery and equipment. Construction machinery and equipment. Metalworking machinery and equipment. General purpose machinery and equipment. Special industry machinery and equipment | 124.7 137.4 141.2 142.2 129.8 | 124. 1 137. 1 141. 0 141. 7 128. 2 | 123. 7 137. 4 140. 9 141. 3 127. 9 | 123. 4 137. 3 140. 8 140. 3 127. 6 | 123. 1 137. 1 140. 6 139. 8 127. 1 | 122. 8 137. 2 140. 3 139. 3 126. 5 | 122. 5 136. 7 140. 2 138. 6 126. 1 | 121. 9 136. 4 139. 8 138. 0 124. 8 | 121. 0 135. 8 138. 6 136. 5 123. 7 | 120. 5 133. 2 137. 7 135. 4 123. 4 | 119. 9 133. 0 136. 1 134. 4 122. 6 | 119.1 132.3 134.9 133.5 121.8 | 119. 0 132. 3 134. 8 133. 3 121. 5 | 119. 0 132. 8 135. 5 133. 4 121. 4 |
| 11-7 11-9 | (Jan. 1961 = 100) Electrical machinery and equipment Miscellaneous machinery | 135. 1 108. 6 123. 0 | 134.3 108.2 123.1 | 134. 0 107. 5 122. 9 | 133.6 107.3 122.8 | 133. 6 107. 2 122. 3 | 133. 4 106. 9 121. 7 | 133.3 106.8 121.5 | 132.8 106.2 121.0 | 130.6 106.0 120.4 | 130. 2 105. 6 120. 0 | 129.6 105.4 119.2 | 129. 2 104. 7 118. 5 | 129. 2 104. 8 118. 1 | 128.7 104.8 118.1 |
| 12 12-1 12-2 12-3 12-4 12-5 12-6 | Furniture and household durables Household furniture Commercial furniture Floor coverings Household appliances Home electronic equipment Other household durable goods | 126.3 127.6 92.7 | 108.6 126.0 127.6 92.6 94.9 77.0 135.5 | 108. 3 125. 9 125. 1 92. 8 94. 9 77. 0 135. 3 | 108. 3 125. 6 125. 1 93. 1 94. 8 77. 0 135. 6 | 108. 1 125. 3 124. 9 93. 4 94. 7 77. 2 134. 6 | 107. 9 125. 1 124. 5 93. 5 94. 4 77. 2 134. 8 | 107. 5 124. 3 124. 4 93. 5 94. 4 77. 2 133. 0 | 107. 2 123. 6 124. 1 93. 1 93. 6 77. 8 133. 3 | 106.9 123.6 124.0 93.1 93.6 77.7 131.1 | 106. 5 123. 3 122. 4 93. 1 93. 1 77. 9 131. 2 | 106. 4 123. 0 121. 7 93. 2 93. 0 77. 9 131. 4 | 106. 2 123. 0 119. 5 93. 2 93. 0 77. 9 131. 4 | 106. 1 122. 8 119. 5 93. 2 93. 0 77. 9 131. 2 | 106. 1 122. 3 120. 0 94. 1 93. 0 78. 2 130. 6 |
| 13 13-11 13-2 13-3 13-4 13-5 13-6 13-7 13-8 13-9 | Nonmetallic mineral products | 118.1 122.1 122.4 118.3 121.3 125.7 92.0 100.7 120.9 113.9 | 117. 9 121. 6 122. 3 118. 1 121. 2 125. 8 92. 7 100. 7 120. 9 113. 7 | 117. 9 121. 1 122. 1 117. 4 121. 2 126. 1 95. 1 104. 0 120. 9 113. 7 | 117. 8 121. 5 121. 9 117. 2 120. 9 125. 9 95. 1 105. 6 120. 9 113. 5 | 117. 3 119. 9 120. 8 117. 0 119. 8 125. 4 97. 8 107. 0 120. 9 112. 4 | 116. 9 119. 0 120. 6 116. 4 119. 4 125. 1 100. 8 108. 3 120. 9 111. 0 | 116. 5 118. 4 120. 1 115. 9 119. 4 123. 5 101. 8 107. 3 120. 9 111. 0 | 114. 5 117. 8 116. 7 114. 2 118. 5 120. 9 101. 2 104. 3 116. 1 110. 6 | 113. 9 116. 2 116. 7 113. 6 118. 5 117. 2 94. 0 109. 8 116. 1 110. 6 | 113. 8 116. 2 116. 6 113. 5 117. 8 117. 2 96. 7 105. 9 116. 1 110. 6 | 113. 5 116. 2 116. 5 113. 2 117. 5 117. 2 96. 7 106. 1 116. 1 109. 6 | 113. 0 116. 2 116. 1 112. 4 117. 0 117. 0 96. 7 103. 2 116. 1 109. 2 | 113. 0 116. 2 116. 1 112. 3 116. 9 113. 6 100. 9 104. 9 116. 1 109. 0 | 112. 8 114. 6 115. 6 112. 2 117. 0 115. 1 98. 3 106. 4 116. 1 109. 1 |
| 14 14-1 14-4 | Transportation equipment (Dec. 1968=100) Motor vehicles and equipment | 103. 2 109. 4 119. 3 | 103.3 109.5 119.3 | 103. 2 109. 4 119. 0 | 103.1 109.3 118.8 | 103. 2 109. 4 118. 7 | 102.9 109.1 117.7 | 102.9 109.1 117.4 | 102. 7 109. 0 115. 7 | 102.7 109.0 115.1 | 102.3 108.7 115.1 | 100. 0 106. 1 114. 4 | 99.9 106.0 114.3 | 100. 4 106. 6 114. 3 | 100.7 107.0 112.4 |
| 15 15–1 | Miscellaneous products | 121.4 | 121.0 | 118.2 | 117.8 | 117.8 | 117.5 | 117.4 | 117.0 | 117.0 | 116.7 | 116.4 | 115, 9 | 115, 5 | 114.7 |
| 15-2 15-3 15-4 15-9 | tion | 115.9 131.7 109.8 117.0 118.2 | 115.8 132.3 109.4 116.1 116.8 | 115. 1 124. 1 109. 0 116. 2 116. 6 | 115. 0 124. 1 109. 0 116. 2 115. 0 | 115. 3 124. 1 109. 0 115. 9 114. 8 | 114. 2 124. 0 109. 0 115. 8 114. 8 | 114. 1 124. 0 107. 2 115. 7 115. 1 | 112. 7 124. 0 107. 2 115. 3 114. 9 | 112.8 124.0 107.2 115.0 114.9 | 112.3 123.8 106.7 114.9 114.8 | 112.1 123.8 106.7 113.9 114.3 | 111.8 123.5 106.7 111.4 114.2 | 111. 2 123. 4 102. 0 111. 4 114. 1 | 111.3 120.8 103.6 113.0 113.1 |

¹ As of January 1967, the indexes incorporated a revised weighting structure reflecting 1963 values of shipments. Changes also were made in the classification structure, and titles and composition of some indexes were changed. Titles and indexes in this table conform with the revised classification structure, and may differ from data previously published. See Wholesale Prices and Price Indexes. January 1967 (final) and February 1967 (final) for a description of the changes.

 $^{^2}$ As of January 1962, the indexes were converted from the former base of 1947–49 $=\,100$ to the new base of 1957–59 $=\,100$. Technical details and earlier data on the 1957–59 base furnished upon request to the Bureau.

NOTE: For a description of the general method of computing the monthly Wholesale Price Index, see BLS Handbook of Methods for Surveys and Studies (BLS Bulletin 1458, October 1966), Chapter 11.

27. Wholesale price indexes for special commodity groupings 1

[1957-59=100, unless otherwise specified]²

| Commodity group | | | | 1970 | | | | | | 19 | 69 | | | Annua |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 |
| All commodities—less farm products | 118. 1 | 117. 6 | 117. 4 | 117. 2 | 116.8 | 116.6 | 116. 3 | 115. 4 | 115. 0 | 114.7 | 114. 1 | 113.8 | 113. 6 | 113. 4 |
| | 124. 9 | 123. 5 | 122. 8 | 123. 2 | 124.9 | 124.5 | 125. 0 | 123. 3 | 123. 1 | 119.8 | 120. 1 | 119.9 | 120. 7 | 119. 0 |
| | 126. 7 | 125. 2 | 124. 6 | 125. 4 | 125.7 | 124.6 | 124. 5 | 122. 8 | 122. 1 | 121.8 | 121. 6 | 121.9 | 122. 5 | 119. 9 |
| Textile products, excluding hard and bast fiber products | 99. 6 | 99. 9 | 100. 2 | 100. 4 | 100. 6 | 101. 0 | 101. 3 | 101. 0 | 101. 1 | 101. 1 | 101. 3 | 101. 3 | 101. 0 | 101. 0 |
| | 92. 2 | 92. 2 | 92. 3 | 92. 3 | 92. 4 | 92. 8 | 92. 8 | 92. 7 | 92. 7 | 92. 7 | 92. 7 | 92. 7 | 92. 7 | 92. 7 |
| | 117. 0 | 116. 9 | 116. 7 | 116. 7 | 116. 4 | 116. 4 | 116. 2 | 115. 9 | 115. 7 | 115. 7 | 115. 6 | 115. 6 | 115. 6 | 115. 0 |
| | 102. 4 | 102. 2 | 104. 2 | 101. 3 | 100. 8 | 101. 2 | 101. 0 | 102. 2 | 101. 6 | 101. 6 | 101. 8 | 102. 5 | 103. 2 | 101. 8 |
| | 115. 0 | 113. 2 | 110. 2 | 103. 6 | 103. 4 | 103. 4 | 103. 4 | 103. 4 | 103. 4 | 103. 4 | 103. 4 | 103. 4 | 103. 4 | 103. 4 |
| | 104. 7 | 101. 4 | 111. 7 | 98. 5 | 99. 2 | 102. 2 | 101. 2 | 103. 9 | 102. 5 | 98. 7 | 98. 0 | 103. 9 | 98. 8 | 102. 0 |
| | 97. 8 | 97. 5 | 99. 6 | 98. 6 | 99. 3 | 99. 3 | 98. 4 | 100. 7 | 99. 8 | 101. 4 | 101. 4 | 101. 4 | 104. 8 | 100. 7 |
| | 92. 3 | 94. 8 | 94. 8 | 94. 0 | 92. 2 | 91. 2 | 92. 5 | 92. 5 | 92. 5 | 92. 3 | 94. 9 | 94. 9 | 94. 9 | 93. 0 |
| | 101. 3 | 100. 9 | 101. 8 | 99. 3 | 96. 8 | 98. 0 | 98. 0 | 99. 1 | 98. 4 | 97. 4 | 97. 0 | 97. 0 | 97. 0 | 97. 5 |
| Pharmaceutical preparations Lumber and wood products excluding millwork and other wood products ³ Special metals and metal products ⁴ Machinery and motive products Machinery and equipment, except electrical Agricultural machinery, including tractors Metalworking machinery | 97. 1 | 96. 9 | 96. 9 | 96. 8 | 97. 4 | 97. 0 | 97. 0 | 97. 1 | 96. 7 | 96. 5 | 96. 5 | 96. 2 | 96. 3 | 96. 3 |
| | 116. 5 | 117. 4 | 118. 6 | 117. 3 | 116. 4 | 117. 5 | 119. 3 | 120. 6 | 122. 2 | 120. 1 | 120. 8 | 121. 7 | 123. 5 | 134. 6 |
| | 123. 3 | 123. 4 | 123. 1 | 122. 5 | 122. 0 | 121. 4 | 120. 6 | 119. 9 | 119. 2 | 118. 8 | 117. 5 | 116. 6 | 115. 7 | 116. 0 |
| | 119. 8 | 119. 5 | 119. 3 | 119. 0 | 118. 9 | 118. 6 | 118. 4 | 117. 9 | 117. 4 | 116. 9 | 115. 5 | 115. 1 | 115. 2 | 115. 3 |
| | 134. 9 | 134. 3 | 134. 1 | 133. 7 | 133. 3 | 132. 9 | 132. 6 | 131. 9 | 130. 6 | 129. 9 | 129. 0 | 128. 3 | 128. 1 | 128. 1 |
| | 139. 6 | 139. 4 | 139. 8 | 139. 7 | 139. 6 | 139. 7 | 139. 3 | 139. 1 | 138. 5 | 135. 5 | 135. 3 | 134. 6 | 134. 7 | 135. 2 |
| | 149. 7 | 149. 0 | 148. 3 | 147. 1 | 146. 6 | 146. 0 | 145. 2 | 144. 6 | 143. 6 | 143. 4 | 141. 7 | 140. 9 | 140. 9 | 140. 5 |
| Total tractors Industrial valves Industrial fittings Abrasive grinding wheels Construction materials | 142. 6 | 142.6 | 142. 8 | 142. 8 | 142. 9 | 143. 0 | 142. 8 | 142. 5 | 141. 3 | 139. 4 | 138. 4 | 137. 1 | 137. 0 | 138, 1 |
| | 133. 7 | 131.8 | 131. 2 | 130. 1 | 130. 0 | 129. 4 | 128. 5 | 127. 3 | 125. 8 | 125. 8 | 124. 8 | 124. 8 | 125. 8 | 124, 2 |
| | 127. 7 | 124.2 | 124. 2 | 124. 2 | 124. 2 | 124. 2 | 123. 2 | 119. 4 | 118. 6 | 118. 0 | 118. 0 | 115. 3 | 115. 3 | 115, 9 |
| | 107. 1 | 107.1 | 107. 1 | 107. 1 | 107. 1 | 107. 1 | 107. 1 | 107. 1 | 107. 0 | 102. 6 | 102. 6 | 102. 6 | 102. 6 | 103, 3 |
| | 118. 8 | 118.6 | 118. 5 | 118. 0 | 117. 5 | 117. 4 | 117. 4 | 116. 9 | 116. 9 | 116. 3 | 115. 9 | 115. 7 | 115. 9 | 117, 7 |

4 Metals and metal products, agricultural machinery and equipment, and motor vehicles and equipment.

¹ See footnote 1, table 26. 2 See footnote 2, table 26. 3 Formerly titled "Lumber and wood products, excluding millwork."

28. Wholesale price indexes,1 by stage of processing

[1957-59=100]2

| Commodity group | | | | 1970 | | | | | | 1 | 969 | | | Annual |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| outliness of State | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | average 1969 |
| ALL COMMODITIES | 117.7 | 117.0 | 116.8 | 116.6 | 116.6 | 116. 4 | 116. 0 | 115. 1 | 114.7 | 114.0 | 113.6 | 113.4 | 113.3 | 113. 0 |
| CRUDE MATERIALS FOR FURTHER PROC- | 113.8 | 113.0 | 112.8 | 113.4 | 114. 2 | 113. 0 | 110.7 | 109.9 | 109.0 | 108.7 | 108.7 | 109.5 | 110. 2 | 107.9 |
| Foodstuffs and feedstuffs | 116.6 | 114.8 | 114.4 | 115.3 | 117.3 | 115.5 | 112.9 | 112. 2 | 111.0 | 110.5 | 110.4 | 112.1 | 113.8 | 110, 4 |
| Nonfood materials except fuel | 104. 4 102. 9 121. 0 | 105.9 104.6 120.7 | 106. 9 105. 6 120. 3 | 107. 0 105. 8 120. 2 | 106. 6 105. 6 118. 0 | 106. 9 105. 9 117. 5 | 105. 3 104. 3 116. 4 | 104. 2 103. 2 115. 3 | 104. 0 103. 0 115. 3 | 104. 0 103. 0 115. 1 | 104. 8 103. 9 114. 9 | 104. 1 103. 2 114. 1 | 102.6 101.6 114.1 | 102. 0 101. 0 114. 0 |
| Crude fuel | 135. 9 129. 3 144. 8 | 134. 4 128. 1 143. 0 | 131. 8 126. 2 139. 2 | 131. 5 126. 0 138. 8 | 125. 2 121. 5 130. 3 | 124.7 121.2 129.4 | 122. 2 119. 6 125. 8 | 121. 5 118. 8 125. 0 | 121. 1 118. 6 124. 5 | 119. 9 117. 8 122. 8 | 118. 1 116. 7 120. 1 | 117. 2 115. 6 119. 4 | 117. 1 115. 5 119. 3 | 117. 6 116. 0 119. 8 |
| INTERMEDIATE MATERIALS, SUPPLIES AND COMPONENTS | 116. 4 | 115.9 | 115.7 | 115. 3 | 114.8 | 114.7 | 114.4 | 113. 5 | 113.1 | 112.8 | 112.4 | 111.9 | 111.4 | 111,8 |
| Materials and Components for Manu- facturing | 115. 7 124. 3 | 115. 4 123. 0 | 115. 3 122. 5 | 115. 0 123. 4 | 114. 4 122. 9 | 113.9 121.5 | 113.6 121.1 | 112. 9 119. 9 | 112.6 120.0 | 112. 2 119. 2 | 111.8 118.3 | 111. 4 118. 4 | 110.6 117.8 | 110.8 116.8 |
| turing Materials for durable manufactur- | 102.6 | 102.4 | 102.8 | 102.7 | 102.4 | 102.3 | 102.3 | 101.6 | 101.7 | 101.5 | 101.7 | 101.7 | 101.2 | 101.2 |
| ingComponents for manufacturing | 125. 5 120. 3 | 125.6 119.7 | 125. 4 119. 0 | 124. 5 118. 7 | 123. 4 118. 3 | 122.7 118.0 | 122. 1 117. 7 | 121.4 117.0 | 120. 4 116. 7 | 120. 0 116. 1 | 119.6 115.1 | 118.7 114.3 | 117. 4 113. 9 | 118.1 114.0 |
| Materials and Components for Construction | 119.1 | 118.9 | 118.6 | 118.2 | 117.7 | 117.3 | 117.3 | 116.8 | 116.7 | 116.2 | 115.8 | 115.5 | 115.4 | 116.9 |
| Processed fuels and lubricants | 105. 5 108. 2 101. 3 | 104. 8 107. 6 100. 4 | 105. 1 107. 3 101. 6 | 103. 6 106. 7 98. 8 | 103. 0 106. 1 98. 3 | 103. 0 106. 0 98. 3 | 102. 4 105. 3 97. 8 | 102.7 105.1 99.0 | 102. 1 104. 5 98. 4 | 102. 3 104. 8 98. 4 | 101. 0 103. 2 97. 6 | 100.6 102.3 97.8 | 100.8 102.4 98.4 | 100, 9 103, 1 97, 4 |
| Containers | 119.1 | 118.7 | 118.5 | 118.5 | 118.1 | 117.6 | 116.2 | 114.8 | 114.6 | 114.5 | 114.2 | 113.7 | 113.3 | 113.3 |
| Supplies Manufacturing industries Nonmanufacturing industries Manufactured animal feeds Other supplies | 120. 7 122. 3 119. 2 119. 4 115. 2 | 118.9 122.1 116.8 112.9 114.8 | 118.3 121.9 116.0 111.4 114.5 | 118. 5 121. 7 116. 4 113. 2 114. 2 | 117. 6 121. 1 115. 4 110. 7 113. 9 | 120. 1 120. 9 119. 1 122. 8 113. 4 | 119. 7 120. 5 118. 6 123. 7 112. 3 | 116. 9 119. 4 115. 1 114. 1 111. 8 | 115. 9 118. 7 113. 9 111. 6 111. 4 | 115.6 118.0 113.9 112.3 111.0 | 115. 1 117. 8 113. 3 111. 7 110. 4 | 114. 4 117. 4 112. 4 110. 5 109. 7 | 114.3 116.8 112.5 110.8 109.7 | 114. 4 117. 0 112. 5 110. 6 109. 8 |
| FINISHED GOODS (Including Raw Foods and Fuels) | 119.7 | 119.0 | 118.7 | 118.6 | 119. 0 | 118.8 | 118.8 | 118.0 | 117.6 | 116. 5 | 116.0 | 115.7 | 115.9 | 115.3 |
| Consumer Goods | 118. 0 125. 9 118. 3 127. 3 116. 0 108. 3 | 117. 3 124. 2 115. 4 125. 8 115. 9 108. 1 | 117. 0 123. 6 115. 0 125. 2 115. 6 108. 0 | 116. 8 124. 1 114. 3 125. 9 114. 9 107. 8 | 117. 4 126. 0 123. 3 126. 4 114. 7 107. 8 | 117. 3 125. 9 128. 0 125. 4 114. 6 107. 6 | 117. 3 126. 4 131. 6 125. 3 114. 2 107. 4 | 116. 5 124. 5 129. 5 123. 5 114. 1 107. 2 | 116. 2 123. 9 131. 0 122. 5 113. 8 107. 1 | 115. 1 121. 2 114. 2 122. 4 113. 6 106. 9 | 114. 7 121. 6 116. 9 122. 4 113. 3 105. 3 | 114. 4 121. 2 112. 4 122. 8 113. 0 105. 2 | 114. 8 122. 3 114. 9 123. 7 112. 6 105. 6 | 114. 0 120. 3 117. 5 120. 7 112. 3 105. 8 |
| Producer Finished Goods Manufacturing industries Nonmanufacturing industries | 124. 6 130. 6 119. 2 | 124. 2 129. 9 119. 0 | 124. 0 129. 5 118. 8 | 123. 7 129. 1 118. 7 | 123. 5 128. 9 118. 5 | 123. 1 128. 4 118. 2 | 122. 9 128. 0 118. 0 | 122. 3 127. 5 117. 4 | 121. 5 126. 2 117. 0 | 120. 8 125. 8 116. 1 | 119.9 125.0 115.0 | 119. 3 124. 4 114. 4 | 119.3 124.4 114.5 | 119.3 124.1 114.7 |
| SPECIAL GROUPINGS | | | | | | | | | | | | | | |
| Crude materials for further processing, excluding crude foodstuffs and feedstuffs, plant and animal fibers, oilseeds and leaf tobacco | 118. 0 | 119.5 | 120. 0 | 120. 3 | 118. 5 | 118. 5 | 116. 0 | 114.5 | 114.1 | 113.7 | 113.9 | 112.5 | 110.7 | 110, 5 |
| Intermediate materials supplies and compo- nents, excluding intermediate materials for food mfg., and mfr.'d animal feeds | 115.6 | 115.4 | 115. 2 | 114.7 | 114. 2 | 113.9 | 113. 5 | 112.9 | 112.6 | 112. 2 | 111.8 | 111.3 | 110.9 | 111.3 |
| Consumer finished goods, excluding consumer foods. | 113.1 | 112.9 | 112.7 | 112. 2 | 112. 1 | 111.9 | 111.7 | 111.5 | 111.3 | 111.1 | 110.3 | 110.1 | 110.0 | 109.9 |

¹ See footnote 1, table 26. ² See footnote 2, table 26.

NOTE: For description of the series by stage of processing, see Wholesale Prices and Price Indexes, January 1967 (final) and February 1967 (final).

29. Wholesale price indexes,1 by durability of product

[1957-59=100]2

| Commodity group | | | | 1970 | | | | | | 19 | 169 | | | Annual |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|-------|--------|
| | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | Nov. | Oct. | Sept. | Aug. | July | 1969 |
| All commodities. Total durable goods. Total nondurable goods. | 117.7 | 117. 0 | 116. 8 | 116. 6 | 116. 6 | 116, 4 | 116. 0 | 115. 1 | 114.7 | 114.0 | 113.6 | 113. 4 | 113.3 | 113. 0 |
| | 121.6 | 121. 5 | 121. 3 | 120. 9 | 120. 5 | 120, 0 | 119. 6 | 119. 0 | 118.4 | 117.9 | 117.1 | 116. 5 | 116.1 | 116. 6 |
| | 114.8 | 113. 8 | 113. 6 | 113. 6 | 113. 9 | 113, 9 | 113. 4 | 112. 4 | 111.9 | 111.2 | 111.1 | 111. 1 | 111.3 | 110. 3 |
| Total manufactures | 118. 0 | 117. 4 | 117. 1 | 116. 9 | 116.6 | 116. 4 | 116. 1 | 115.3 | 114.9 | 114.6 | 113.9 | 113.6 | 113.5 | 113. 3 |
| Durable | 121. 5 | 121. 3 | 121. 0 | 120. 5 | 120.1 | 119. 7 | 119. 4 | 118.8 | 118.3 | 117.9 | 117.0 | 116.4 | 116.1 | 116. 6 |
| Nondurable | 114. 5 | 113. 6 | 113. 4 | 113. 4 | 113.2 | 113. 2 | 113. 0 | 111.9 | 111.6 | 111.4 | 111.0 | 111.0 | 111.0 | 110. 1 |
| Total raw or slightly processed goods | 115. 7 | 114.7 | 114.5 | 114. 7 | 116. 3 | 116. 0 | 114.8 | 113. 9 | 113. 1 | 111.0 | 111.6 | 111.5 | 112.2 | 110, 9 |
| Durable | 124. 4 | 128.9 | 131.9 | 131. 9 | 134. 0 | 133. 8 | 128.9 | 125. 3 | 124. 0 | 122.8 | 123.7 | 119.7 | 114.8 | 115, 8 |
| Nondurable | 115. 2 | 113.9 | 113.6 | 113. 8 | 115. 3 | 115. 1 | 114.1 | 113. 3 | 112. 5 | 110.3 | 110.9 | 111.1 | 112.1 | 110, 7 |

¹ See footnote 1, table 26. ² See footnote 2, table 26.

NOTE: For description of the series by durability of product and data beginning with 1947, see "Wholesale Price and Price Indexes, 1957" (BLS Bulletin 1235, 1958).

30. Industry-sector price indexes for the output of selected industries 1

[1957-59=100 unless otherwise indicated]

| 1963 SIC | Industry | Other | 1969 | | | | | | | | | | | 1968 | Annua aver- | |
|--|---|----------------------------------|---|--|--|--|--|---|---|---|---|---|---|---|---|--|
| Code | | bases | Dec.2 | Nov. | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | age 1969 |
| | MINING | | | | | | | | | | | | | | | |
| 1111 1211 1311 1421 | Anthracite Bituminous coal Crude petroleum and natural gas Crushed and broken stone | | 118. 4 124. 9 110. 9 114. 5 | 114.9 124.2 110.9 114.5 | 111. 4 121. 3 110. 8 114. 2 | 111. 4 116. 2 110. 9 114. 2 | 108. 0 116. 1 110. 6 113. 6 | 108. 0 116. 0 110. 5 113. 6 | 104. 2 115. 0 110. 6 113. 6 | 104. 2 114. 1 110. 7 112. 6 | 106. 2 113. 4 110. 9 112. 5 | 107. 4 113. 1 109. 9 112. 5 | 107. 4 113. 1 106. 6 112. 5 | 107. 0 113. 1 106. 5 112. 5 | 107. 0 113. 1 106. 4 111. 3 | 109. 116. 110. 113. |
| 442 475 476 477 | Construction sand and gravel Phosphate rock Rock salt Sulfur | | 123. 0 147. 4 107. 0 115. 8 | 123. 0 147. 4 107. 0 115. 8 | 123. 0 147. 4 107. 0 124. 1 | 122. 5 147. 4 107. 0 165. 4 | 121. 5 147. 4 107. 0 165. 4 | 121. 5 147. 4 107. 0 165. 4 | 120. 7 147. 4 107. 0 165. 4 | 120. 6 147. 4 107. 0 165. 4 | 120. 8 147. 4 107. 0 165. 4 | 120. 6 147. 4 100. 8 165. 4 | 119.8 147.4 100.8 165.4 | 119. 8 147. 4 100. 8 173. 7 | 118.6 147.4 100.8 173.7 | 121. 147. 105. 154. |
| | MANUFACTURING | | | | | | | | | | | | | | | |
| 2011 2013 2015 2021 2033 | Meat slaughtering plants | 12/66 12/66 12/66 12/66 | 114. 0 121. 3 105. 7 106. 3 109. 8 | 113. 5 118. 5 103. 3 105. 1 109. 7 | 113. 8 119. 1 101. 7 105. 1 109. 5 | 116. 2 120. 3 104. 0 105. 1 109. 0 | 117. 4 122. 0 107. 8 104. 9 108. 7 | 121.7 118.7 103.3 104.9 108.7 | 121. 2 117. 0 101. 7 104. 8 107. 7 | 114. 8 109. 7 102. 3 104. 8 107. 7 | 108. 0 104. 8 96. 1 104. 9 107. 8 | 104. 6 103. 4 99. 6 103. 4 107. 7 | 103. 9 101. 7 98. 5 103. 3 107. 6 | 104. 2 100. 3 95. 9 103. 4 107. 4 | 100.1 100.7 90.4 105.0 107.3 | 112. 113. 101. 104. 108. |
| 2036 2044 2052 2061 2062 2063 | Fresh or frozen packaged fish Rice milling Biscuits, crackers and cookies Raw cane sugar Cane sugar refining Beet sugar | 12/66 12/66 12/66 12/66 | 150. 8 94. 0 109. 7 107. 0 108. 9 106. 1 | 154. 1 94. 0 109. 7 110. 1 109. 3 106. 6 | 146. 5 94. 0 108. 0 110. 5 109. 2 106. 7 | 145. 9 93. 1 107. 1 109. 6 108. 4 106. 4 | 143. 8 92. 6 104. 5 108. 9 108. 1 106. 3 | 146. 4 92. 6 104. 4 104. 5 107. 6 105. 7 | 139. 9 93. 8 104. 4 109. 5 107. 6 106. 7 | 140. 4 93. 8 104. 4 109. 5 107. 2 104. 9 | 136. 8 93. 8 104. 3 109. 0 105. 8 105. 0 | 141. 7 93. 8 104. 3 108. 5 103. 9 102. 3 | 141. 4 93. 8 104. 3 107. 7 103. 6 102. 2 | 140. 1 93. 8 104. 3 107. 5 103. 6 102. 6 | 139. 0 93. 8 104. 3 106. 8 103. 2 102. 5 | 144. 93. 105. 108. 106. 105. |
| 073 082 083 084 091 | Chewing gum | 12/66 12/66 | 106. 2 107. 3 96. 8 118. 3 99. 4 88. 6 | 106. 1 107. 3 96. 8 118. 3 95. 8 88. 0 | 106. 1 107. 7 96. 8 118. 3 91. 5 91. 0 | 106. 1 107. 1 96. 8 115. 5 97. 0 85. 7 | 106. 1 107. 2 96. 8 115. 5 97. 2 87. 4 | 106. 1 107. 2 96. 8 115. 7 98. 3 87. 1 | 106. 1 106. 7 96. 8 115. 7 92. 9 87. 0 | 106. 1 106. 0 96. 8 115. 7 92. 7 86. 3 | 106. 1 104. 9 96. 8 115. 7 93. 9 85. 6 | 106. 1 104. 9 96. 8 115. 7 93. 6 84. 8 | 106. 1 104. 9 96. 8 115. 5 93. 7 83. 1 | 106. 1 104. 9 96. 8 115. 5 95. 0 83. 3 | 106. 1 104. 9 96. 8 115. 5 94. 5 82. 2 | 106. 106. 96. 116. 95. 86. |
| 094 096 098 111 121 131 | Animal and marine fats and oils | 12/66 12/66 | 96. 4 108. 8 101. 9 125. 1 107. 3 141. 4 | 104. 9 107. 2 101. 9 125. 0 107. 3 140. 6 | 102. 1 105. 5 101. 9 125. 0 106. 8 138. 5 | 105. 8 102. 6 101. 9 125. 0 106. 8 138. 3 | 104. 6 102. 5 101. 8 125. 0 105. 2 138. 1 | 99. 6 102. 3 101. 9 125. 0 103. 8 138. 1 | 93. 8 103. 3 101. 8 124. 9 102. 7 137. 1 | 89. 0 103. 1 101. 8 117. 5 102. 7 137. 0 | 88. 9 103. 2 101. 5 117. 5 102. 7 136. 0 | 85. 1 103. 1 100. 4 117. 4 102. 1 134. 7 | 82. 9 102. 9 100. 3 117. 4 102. 0 134. 7 | 81. 3 101. 0 100. 3 117. 4 102. 0 132. 4 | 79. 7 100. 3 100. 3 117. 4 101. 7 132. 4 | 94. 103. 101. 121. 104. 137. |
| 2254 2311 2321 2322 2322 2327 | Knit underwear mills Men's and boys' suits and coats Men's dress shirts and nightwear Men's and boys' underwear Men's and boys' separate trousers | 12/66 12/66 12/65 | 107. 8 142. 7 122. 1 109. 1 106. 9 | 107. 7 142. 2 121. 0 109. 0 106. 8 | 107. 7 140. 4 121. 0 109. 0 106. 8 | 107. 7 139. 4 120. 6 107. 9 106. 4 | 107.7 138.5 120.6 107.9 106.3 | 107. 7 137. 1 118. 3 107. 7 106. 1 | 106. 3 135. 8 118. 2 106. 9 106. 1 | 106. 4 134. 4 118. 2 107. 0 104. 8 | 106. 3 134. 7 118. 8 107. 1 104. 8 | 106.3 134.3 118.8 107.1 104.7 | 106.3 134.3 118.9 107.0 104.7 | 106.3 134.2 118.7 106.9 104.7 | 105.7 133.4 115.5 106.4 103.9 | 107. 0 137. 3 119. 0 107. 3 105. 8 |
| 2328 2381 2426 2442 2515 | Work clothing | 12/66 12/67 12/66 | 119. 1 137. 1 116. 5 110. 7 108. 2 | 119. 0 135. 4 116. 6 110. 0 108. 7 | 119. 0 135. 4 116. 7 110. 0 108. 5 | 118.3 134.8 117.2 110.0 108.5 | 117. 7 132. 1 117. 3 108. 6 108. 5 | 117. 4 131. 9 117. 8 108. 3 108. 3 | 117. 4 131. 9 119. 0 107. 4 108. 2 | 116.6 131.9 120.7 107.4 108.2 | 116.6 131.7 121.1 106.5 108.3 | 116.6 130.8 120.6 106.4 108.2 | 116.6 130.6 118.8 106.4 108.2 | 116. 5 130. 1 116. 5 106. 3 106. 7 | 115.1 128.4 114.7 105.6 104.3 | 117. 132. 118. 108. 108. |
| 2521 2647 2654 | Wood office furniture Sanitary paper products Sanitary food containers | 12/66 12/66 | 139. 2 115. 3 101. 3 | 138.9 115.3 101.2 | 137. 6 113. 9 100. 6 | 135. 9 113. 5 100. 4 | 134. 3 113. 1 100. 4 | 134. 3 112. 3 100. 1 | 134. 3 111. 5 100. 7 | 133. 4 111. 1 100. 6 | 132. 8 111. 1 100. 6 | 132. 2 111. 1 100. 4 | 131.7 110.2 100.7 | 131, 1 108, 0 | 131.1 108.0 100.5 | 134. 6 112. 2 100. 7 |

30. Industry-sector price indexes for the output of selected industries 1—Continued

| 1963 SIC | Industry | Other | | | | | | 19 | 169 | | | | | | 1968 | Annual Average |
|--|--|---|--|--|--|--|--|--|--|--|---|---|---|---|---|--|
| Code | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | bases | Dec. 2 | Nov. | Oct. | Sept. | Aug. | July | June | May | Apr. | Mar. | Feb. | Jan. | Dec. | 1969 |
| | MANUFACTURING—Continued | | | | | | | | | | | | | | | |
| 2822 2823 2824 | Synthetic rubber | 12/66 | 96. 0 95. 6 96. 0 | 96. 0 95. 6 96. 0 | 96. 0 95. 6 96. 0 | 96. 0 95. 6 96. 0 | 95. 9 95. 6 96. 0 | 95. 8 95. 6 96. 0 | 95. 3 95. 8 96. 0 | 95. 3 95. 8 96. 0 | 94. 5 95. 8 96. 0 | 94. 7 95. 7 96. 0 | 95. 7 95. 7 96. 0 |
| 2871 2872 2892 2911 3111 3121 | Fertilizers Fertilizers, mixing only Explosives Petroleum refining Leather tanning and finishing Industrial leather belting | 12/66 12/66 12/66 | 85. 0 90. 6 117. 1 97. 8 120. 4 118. 3 | 85. 0 90. 6 117. 3 97. 3 120. 5 117. 2 | 85. 4 91. 2 117. 3 97. 3 121. 2 117. 4 | 88. 3 92. 7 117. 4 97. 5 122. 3 117. 6 | 88. 5 92. 6 117. 5 98. 1 121. 5 118. 2 | 88. 7 93. 1 117. 4 98. 8 121. 7 117. 5 | 99. 2 93. 3 117. 5 98. 8 122. 1 113. 5 | 99. 2 93. 3 116. 9 98. 0 122. 2 115. 4 | 99. 2 93. 3 115. 0 98. 0 122. 8 112. 0 | 99. 4 93. 9 114. 8 97. 1 116. 7 111. 5 | 99. 4 93. 7 114. 1 95. 1 116. 7 110. 5 | 99. 6 94. 1 114. 1 94. 7 117. 0 109. 7 | 100.3 94.8 114.6 95.1 116.1 111.0 | 93. 92. 116. 97. 120. 114. |
| 3221 3241 3251 3255 3255 3259 | Glass containers Cement, hydraulic Brick and structural clay tile Clay refractories Structural clay products, n.e.c. | | 116. 1 114. 9 125. 1 126. 2 116. 4 | 116. 1 114. 9 125. 1 122. 2 116. 4 | 116. 1 114. 9 124. 4 122. 2 115. 9 | 116. 1 114. 9 124. 4 122. 2 115. 1 | 116. 1 114. 8 123. 5 122. 0 115. 0 | 116. 1 114. 8 123. 5 117. 8 114. 4 | 116. 1 114. 8 123. 4 117. 8 114. 8 | 116. 1 114. 8 123. 2 117. 8 115. 3 | 116. 1 114. 8 123. 0 117. 8 115. 3 | 116. 1 114. 7 121. 5 116. 7 115. 3 | 116. 1 111. 7 121. 5 116. 7 115. 1 | 116. 1 108. 5 121. 4 116. 7 115. 0 | 110.3 105.9 121.2 116.7 114.1 | 116. 114. 123. 119. 115. |
| 3261 3262 3263 3271 3273 3275 3312 3315 | Vitreous plumbing fixtures | 1958 12/66 | 104.6 143.7 131.2 115.4 115.7 104.7 115.3 108.6 | 104. 2 143. 7 131. 2 115. 0 114. 9 110. 1 115. 3 108. 5 | 103. 4 139. 8 130. 9 114. 9 114. 7 106. 2 115. 2 108. 4 | 102. 4 139. 8 130. 9 114. 6 114. 4 106. 4 114. 4 107. 5 | 102. 4 139. 8 130. 9 114. 5 113. 7 103. 6 114. 3 107. 0 | 102. 4 139. 8 130. 9 114. 5 113. 5 105. 2 112. 5 106. 4 | 100. 9 137. 2 127. 0 113. 7 112. 7 108. 9 111. 8 106. 3 | 100. 8 137. 2 127. 0 114. 2 112. 6 108. 9 111. 7 105. 9 | 99. 8 137. 2 127. 0 114. 2 112. 3 106. 5 110. 8 105. 1 | 99. 8 134. 3 123. 3 114. 5 112. 0 106. 5 110. 6 105. 1 | 99. 7 134. 3 123. 3 113. 4 111. 8 106. 5 109. 5 105. 1 | 99. 5 134. 3 123. 3 112. 9 111. 7 106. 5 109. 3 104. 5 | 99. 1 134. 3 123. 3 111. 7 110. 3 106. 5 107. 7 103. 7 | 101.7 138.4 128.1 114.3 106.7 112.6 106.5 |
| 3316 3317 3333 3334 3339 3351 3411 | Cold finishing of steel shapes Steel pipe and tube Primary zinc Primary aluminum Primary nonferrous metals, n.e.c. Copper rolling and drawing Metal cans | 12/66 12/66 12/66 | 113.6 110.5 107.7 114.0 134.8 171.4 109.0 | 113.7 110.4 107.7 114.0 138.9 166.4 109.0 | 113. 7 110. 4 107. 4 114. 0 133. 9 166. 4 109. 0 | 112. 1 108. 4 105. 6 110. 0 131. 8 165. 9 109. 0 | 112. 1 107. 8 100. 9 110. 0 123. 8 160. 6 109. 0 | 109. 0 107. 7 100. 6 110. 0 120. 5 154. 5 108. 9 | 109. 0 107. 3 100. 5 109. 0 120. 1 152. 3 108. 9 | 108. 7 107. 3 100. 4 109. 0 120. 1 151. 7 108. 9 | 107. 5 107. 2 97. 1 109. 0 120. 3 147. 8 108. 9 | 107. 4 105. 7 96. 9 109. 0 119. 5 144. 6 108. 9 | 107. 4 105. 6 96. 9 109. 0 119. 8 142. 8 108. 8 | 107. 2 104. 8 97. 2 106. 1 122. 3 142. 8 106. 3 | 107. 0 104. 7 93. 9 105. 4 119. 4 134. 3 106. 2 | 110. 1 107. 8 101. 6 110. 3 125. 5 155. 6 108. 7 |
| 3423 3431 3493 3496 3498 3519 | Hand and edge tools Metal plumbing fixtures Steel springs Collapsible tubes Fabricated pipe and fittings Internal combustion engines | 12/67 12/66 1958 12/66 | 110. 8 100. 4 107. 2 103. 8 130. 9 110. 9 | 110.6 100.3 107.2 103.7 130.8 110.8 | 109. 6 99. 8 107. 2 103. 7 130. 4 110. 1 | 108. 4 99. 4 106. 8 103. 7 130. 4 109. 7 | 108. 4 98. 8 106. 8 103. 6 130. 3 109. 1 | 107. 8 98. 7 106. 8 103. 6 130. 3 108. 0 | 107. 1 97. 3 106. 3 103. 5 129. 7 108. 3 | 106. 9 96. 6 106. 0 103. 2 129. 7 108. 3 | 107. 2 95. 8 105. 9 103. 2 129. 7 107. 9 | 106. 3 95. 8 105. 8 103. 1 123. 4 107. 5 | 105. 9 95. 7 105. 8 103. 0 123. 4 106. 9 | 105. 0 95. 3 105. 8 102. 9 123. 4 106. 7 | 104. 8 95. 0 105. 2 101. 5 122. 7 106. 6 | 107.8 97.8 106.5 103.4 128.5 |
| 3533 3534 3537 3562 3572 | Oil field machinery_ Elevators and moving stairways Industrial trucks and tractors_ Ball and roller bearings_ Typewriters | 12/66 12/66 12/66 | 125. 1 110. 5 134. 0 105. 7 103. 9 | 122. 7 107. 7 133. 9 103. 7 103. 8 | 122. 5 107. 7 133. 6 103. 7 103. 2 | 122. 4 107. 6 132. 6 102. 6 103. 1 | 121. 8 107. 6 131. 2 102. 6 103. 1 | 121. 5 107. 6 131. 2 102. 2 101. 5 | 121. 0 104. 5 130. 5 102. 2 101. 4 | 120. 8 104. 5 129. 1 102. 1 101. 3 | 120. 4 104. 5 128. 6 102. 1 100. 5 | 120. 0 104. 5 128. 6 102. 1 100. 6 | 119. 1 103. 9 128. 2 102. 1 100. 6 | 119. 0 103. 9 128. 1 101. 6 100. 6 | 118. 0 103. 9 127. 2 101. 6 100. 6 | 121. 4 106. 2 130. 8 102. 7 |
| 3576 3612 3613 3624 3635 3641 | Scales and balances Transformers Switchgear and switchboards. Carbon and graphite products. Household vacuum cleaners | 12/66 12/66 12/67 12/66 12/66 | 133. 4 100. 3 107. 1 104. 8 99. 9 98. 4 | 133. 2 99. 3 106. 7 104. 4 99. 9 98. 5 | 133. 0 100. 2 105. 7 104. 4 99. 9 99. 2 | 133. 0 101. 6 105. 9 104. 3 99. 8 101. 1 | 129. 9 101. 6 103. 6 104. 3 99. 8 100. 3 | 129. 9 101. 3 104. 4 104. 3 99. 8 99. 6 | 128. 6 101. 1 104. 9 103. 0 99. 8 104. 1 | 127. 0 100. 2 104. 0 101. 1 99. 8 103. 1 | 127. 0 100. 8 103. 6 101. 0 99. 8 103. 6 | 126. 9 102. 2 104. 3 101. 0 99. 8 102. 7 | 126. 9 102. 3 104. 9 101. 0 99. 7 103. 0 | 126.3 104.6 104.8 101.0 99.7 103.0 | 126. 4 104. 6 104. 4 101. 0 99. 5 103. 0 | 129. 6 101. 3 105. 6 102. 9 99. 8 101. 4 |
| 3652 3671 3672 3673 | Phonograph records | 12/66 12/66 12/66 | 123. 5 121. 2 87. 5 103. 2 | 123. 5 121. 3 89. 7 103. 2 | 123. 5 121. 3 90. 0 103. 1 | 123. 5 121. 2 90. 0 103. 0 | 122.6 117.8 90.0 102.9 | 122.6 117.8 90.0 102.9 | 122. 6 117. 8 89. 9 102. 1 | 122. 3 117. 8 89. 9 102. 1 | 122. 3 117. 8 89. 9 102. 0 | 122.3 117.7 89.9 102.0 | 122.3 109.6 89.8 102.0 | 121.3 105.9 89.9 102.1 | 119. 8 105. 9 92. 4 102. 0 | 122. 7 117. 3 89. 7 102. 6 |
| 3674 3692 3693 3941 | Semiconductors | 12/66 12/67 12/66 | 92. 7 115. 4 117. 4 112. 1 | 92. 8 115. 4 115. 6 112. 2 | 92.7 115.3 115.4 111.4 | 92. 6 115. 2 113. 1 111. 4 | 92. 7 115. 2 112. 8 111. 4 | 92. 6 115. 2 112. 8 111. 1 | 92. 6 115. 2 112. 5 111. 1 | 92.7 115.2 112.6 111.1 | 92. 7 115. 2 111. 0 111. 2 | 92.6 114.9 111.3 111.1 | 92. 4 113. 8 111. 4 111. 2 | 92. 4 112. 5 111. 1 110. 3 | 92.5 111.3 107.7 110.1 | 92. 6 114. 9 113. 1 111. 3 |

¹ For a description of the series, see BLS Handbook of Methods for Surveys and Studies (BLS Bulletin 1458), Chapter 12. See also. "Industry and Sector Price indexes." in Monthly Labor Review, August 1965, pp. 374-382.
² Current monthly industry-sector price indexes are not available for this issue. At the beginning of each calendar year, changes in the sample for some indexes must be

made and necessary internal reweighting accomplished; this has caused the delay-Indexes beginning with January 1970 will be published in a later report. NOTE. Beginning in January 1967, index weights and classifications are based on the 1963 Censuses of Manufactures and Minerals. They were formerly based on the 1958 Industrial Censuses.

31. Work stoppages resulting from labor-management disputes 1

| | Number o | f stoppages | Workers involv | ed in stoppages | Man-days idle during month or year | | |
|-------------------------|--------------------------------------|---|--|------------------------------------|---|---|--|
| Month and year | Beginning in month or year | In effect during month | Beginning in month or year (thousands) | In effect during month (thousands) | Number (thousands) | Percent of esti- mated working time | |
| 945 | 4,750 | | 3, 470 | | 38, 000 | 0.31 | |
| 946 947 | 4, 985 3, 693 | | 4, 600 2, 170 | | 116, 000 34, 600 | 1.04 | |
| 948 | 3, 419 | | 1,960 | | 34, 600 34, 100 | .28 | |
|)49 | 3,606 | | 3, 030 | | 50, 500 | . 44 | |
| 050 | 4, 843 | | 2,410 2,220 | | 38, 800 | .33 | |
| 951 | 4,737 | | 2, 220 | | 22, 900 | .18 | |
| 952 953 | 5, 117 5, 091 | | 3, 540 2, 400 | | 28, 100 | .48 | |
| 054 | 3, 468 | | 1,530 | | 38, 800 22, 900 59, 100 28, 300 22, 600 | .18 | |
| 055 | 4, 320 | | 2,650 | | | .22 | |
| 056 | 3, 825 | | 2,650 1,900 | | 28, 200 33, 100 | . 24 | |
| 957 | 3,673 | | 1,390 | | 16, 500 | .12 | |
|)58)59 | 3, 825 3, 673 3, 694 3, 708 | | 2,060 1,880 | | 23, 900 69, 000 | .18 | |
| | | | | | | | |
| 960 961 | 3, 367 | | 1,320 1,450 | | 19, 100 16, 300 | .14 | |
| 062 | 3, 614 | | 1, 230 | | 18,600 | . 13 | |
|)63)64 | 3, 362 3, 655 | | 941 1,640 | | 16, 100 22, 900 | .11 | |
| | | | | | | | |
|)65)66 | 3, 963 4, 405 4, 595 | | 1,550 1,960 2,870 2,649 2,481 | | 23, 300 25, 400 | .15 | |
| 067 | 4, 595 | | 2, 870 | | 42, 100 | . 25 | |
| 968 969 | 5,045 | | 2,649 | | 49, 018 42, 869 | . 28 | |
| | | | | | | | |
| 67: January | 286 292 | 443 485 | 94. 4 104. 1 | 163. 5 159. 2 | 1, 247. 9 1, 275. 8 | .09 | |
| February March | 368 | 545 | 129. 9 | 195. 4 | 1,507.8 | .10 | |
| April | | 638 | 397.6 | 438.8 | 2, 544. 8 | . 19 | |
| May | 528 472 | 769 759 | 277.8 211.8 | 584. 9 | 4, 406. 4 | . 30 | |
| June | | | | 405. 0 | 4, 927. 4 | . 33 | |
| July | 389 392 | 682 689 | 664. 6 91. 3 | 865. 5 233. 1 | 4, 328. 7 2, 859. 5 6, 159. 8 | .32 | |
| August September | 415 | 681 | 372.8 | 473. 6 | 6, 159. 8 | .45 | |
| October | 449 | 727 | 178.8 | 458.7 | 7, 105. 6 | . 47 | |
| November December | 360 182 | 653 445 | 277. 1 74. 4 | 559. 5 209. 5 | 3, 213. 2 2, 546. 5 | . 22 | |
| | | 3333 | | | | | |
| 68: January | 314 357 | 483 569 | 187. 8 275. 0 | 275. 7 451. 3 | 2, 668. 5 4, 104. 1 | .18 | |
| March | 381 | 618 | 174.5 | 368.7 | 3, 682. 0 | .26 | |
| April | 505 | 748 | 537. 2 | 656.7 | 5, 677, 4 | .38 | |
| May | 610 | 930 | 307.3 | 736. 2 | 5, 677. 4 7, 452. 2 | . 49 | |
| June | | 810 | 168. 5 | 399. 9 | 5, 576. 8 | . 40 | |
| JulyAugust | 520 466 | 880 821 | 202. 0 153. 8 | 465. 1 359. 6 | 4, 611. 9 4, 048. 9 | .30 | |
| August September | 448 | 738 | 169.8 | 349. 0 | 3, 081. 1 | . 22 | |
| October | 434 | 741 | 279. 0 | 414.5 | 3, 991. 7 | . 25 | |
| November December | | 617 408 | 129. 9 64. 1 | 306. 1 189. 2 | 2, 430. 5 1, 692. 5 | . 17 | |
| | | | | | | | |
| 69: January February | 342 385 | 511 578 | 184. 9 177. 1 | 264. 3 339. 9 | 3, 173. 3 2, 565. 8 | . 21 | |
| March | 436 | 651 | 158. 1 | 386.3 | 2, 412. 5 | . 16 | |
| April | 578 | 831 | 309.7 | 462. 3 | 3, 755, 0 | | |
| May | 723 | 1, 054 | 286. 3 | 507.7 | 4, 744, 7 | . 24 . 32 . 31 | |
| June | 565 | 911 | 214.6 | 500. 0 | 4, 722. 7 | | |
| JulyAugust | 528 538 | 883 915 | 255. 0 191. 2 | 461. 5 394. 8 | 4, 311. 0 3, 634. 3 | . 27 | |
| September | | 904 | 185. 6 | 274. 5 | 2, 193. 4 | . 24 | |
| October | 531 | 850 | 337. 0 | 420.9 | | . 19 | |
| November December | 324 196 | 611 446 | 131. 0 50. 8 | 367. 6 276. 0 | 3, 167. 5 4, 307. 6 3, 881. 8 | .31 | |
| | | | | | | | |
| 70; January P | 260 290 | 420 460 | 55 106 | 233 296 | 3, 730 1, 820 2, 230 | . 25 | |
| March P | 390 | 570 | 294 | 364 | 2, 230 | .13 | |
| April P | 600 | 810 | 319 | 385 | | | |
| May P June P | | 960 840 | 309 212 | 470 428 | 4, 181 7, 516 | . 26 | |
| | | 1 | | 7.57 | 5, 040 | . 31 | |
| July P | 490 | 750 | 192 | 354 | 4, 378 | . 28 | |

¹ The data include all known strikes or lockouts involving 6 workers or more and lasting a full day or shift or longer. Figures on workers involved and man-days idle cover all workers made idle for as long as 1 shift in establishments directly involved in

a stoppage. They do not measure the indirect or secondary effect on other establishments or industries whose employees are made idle as a result of material or service shortages. p=Preliminary.

32. Output per man-hour, hourly compensation, unit costs, and prices, private economy, seasonally adjusted [Indexes 1957-59=100]

| Yea | r and quarter | Out | tput | Man- | hours | | ut per -hour | | nsation n-hour ¹ | tion | mpensa- per hour ² | | labor sts | | onlabor ents ³ | Implic defl | it price ator 4 |
|--------|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---|--------------------------------------|--------------------------------------|--------------------------------------|
| | | Private | Private non- farm | Private | Private non- farm | Private | Private non- farm |
| 1967: | 1st qtr 2d qtr 3d qtr 4th qtr | 146. 4 147. 5 149. 1 150. 1 | 148. 2 149. 1 150. 9 152. 0 | 110.6 109.5 110.3 111.0 | 115. 5 114. 9 115. 3 116. 1 | 132. 4 134. 7 135. 2 135. 3 | 128. 4 129. 8 130. 9 130. 9 | 147.6 150.4 152.4 154.3 | 143. 3 145. 6 147. 8 149. 7 | 128. 7 130. 3 130. 6 131. 1 | 125. 0 126. 0 126. 6 127. 2 | 111.5 111.7 112.8 114.1 | 111.7 112.1 113.0 114.4 | 117.7 118.8 119.9 120.6 | 117. 9 118. 8 120. 3 120. 8 | 113.8 114.3 115.5 116.5 | 114.0 114.0 115.0 116.7 |
| Ann. A | Avg | 148.3 | 150.1 | 110.3 | 115.4 | 134. 4 | 130.0 | 151.2 | 146.6 | 130.1 | 126. 2 | 112.5 | 112.8 | 119.2 | 119.4 | 115.1 | 115.2 |
| 1968: | 1st qtr 2d qtr 3d qtr 4th qtr | 152. 4 155. 1 156. 7 157. 9 | 154. 3 157. 4 159. 0 160. 1 | 111.3 112.3 112.9 113.2 | 116. 5 117. 7 118. 5 118. 9 | 136. 9 138. 1 138. 8 139. 5 | 132. 4 133. 7 134. 2 134. 6 | 158. 5 160. 8 164. 1 167. 5 | 153. 6 155. 7 158. 4 161. 7 | 133.3 133.7 134.7 135.9 | 129. 2 129. 5 130. 1 131. 3 | 115.8 116.5 118.2 120.1 | 116. 0 116. 5 118. 1 120. 2 | 120. 4 122. 3 122. 0 122. 3 | 120.8 122.7 122.6 122.7 | 117. 5 118. 7 119. 6 120. 9 | 117. 8 118. 8 119. 7 121. 1 |
| Ann. A | Avg | 155. 5 | 157.7 | 112.4 | 117.9 | 138.3 | 133.7 | 162.8 | 157.4 | 134. 4 | 130.0 | 117.7 | 117.7 | 121.7 | 122.1 | 119.2 | 119.3 |
| 1969: | 1st qtr 2d qtr 3d qtr 4th qtr | 159. 0 159. 8 160. 9 160. 4 | 161. 1 162. 4 163. 4 163. 1 | 114. 2 115. 1 115. 3 114. 8 | 120. 1 121. 2 121. 7 121. 4 | 139. 3 138. 9 139. 5 139. 7 | 134. 1 134. 0 134. 2 134. 3 | 170. 0 172. 4 175. 9 179. 6 | 163. 9 166. 2 169. 2 172. 4 | 136.3 136.0 136.8 137.8 | 131.5 131.1 131.6 132.2 | 122. 1 124. 2 126. 1 128. 6 | 122. 2 124. 1 126. 1 128. 4 | 122.8 123.2 123.6 123.3 | 123. 0 123. 0 123. 5 123. 2 | 122. 4 123. 8 125. 2 126. 6 | 122. 5 123. 7 125. 1 126. 4 |
| Ann. A | Avg | 160.0 | 162.5 | 114.9 | 121.1 | 139.3 | 134. 2 | 174.5 | 167.9 | 136.8 | 131.6 | 125.3 | 125. 2 | 123. 2 | 123. 2 | 124.5 | 124.5 |
| 1970: | 1st qtr 2d qtr p | 159. 2 159. 3 | 161.9 161.9 | 114.7 113.8 | 121. 4 120. 4 | 138. 9 139. 9 | 133.3 134.4 | 182.6 184.9 | 175.1 177.5 | 138. 0 137. 5 | 132.3 132.0 | 131. 5 132. 2 | 131. 4 132. 1 | 122. 7 125. 2 | 122. 0 124. 7 | 128.3 129.5 | 127.9 129.4 |
| | | | | | | | Percen | t change o | over previ | ous quarte | r at annua | al rate 5 | | | | | |
| 1967: | 1st qtr 2d qtr 3d qtr 4th qtr | -1.3 3.0 4.3 2.9 | -2.2 2.5 4.8 2.9 | 0.0 -3.8 2.9 2.5 | -0.3 -2.1 1.6 2.7 | -1.3 7.0 1.4 0.3 | -1.8 4.6 3.2 0.3 | 3.1 7.8 5.4 5.1 | 4. 3 6. 3 6. 3 5. 4 | 2. 4 4. 8 1. 2 1. 6 | 3. 6 3. 4 2. 0 1. 9 | 4. 4 0. 7 4. 0 4. 7 | 6. 2 1. 6 3. 1 5. 1 | -1.0 3.8 3.9 2.3 | -1.6 2.9 5.2 1.8 | 2.3 1.9 4.0 3.8 | 3. 2 2. 1 3. 9 3. 9 |
| 1968: | 1st qtr 2d qtr 3d qtr 4th qtr | 6.1 7.2 4.3 3.1 | 6.2 8.2 4.2 2.8 | 1.1 3.7 2.0 1.2 | 1.5 4.2 2.8 1.3 | 4.9 3.4 2.2 1.8 | 4.6 3.9 1.4 1.4 | 11. 2 6. 1 8. 4 8. 5 | 10.6 5.7 7.0 8.7 | 6.7 1.2 3.1 3.6 | 6. 2 0. 9 1. 9 3. 8 | 6. 0 2. 6 6. 0 6. 5 | 5.7 1.8 5.5 7.2 | $ \begin{array}{r} -0.8 \\ 6.6 \\ -1.0 \\ 1.1 \end{array} $ | 0.0 6.4 -0.4 0.4 | 3.3 4.1 3.3 4.4 | 3.5 3.5 3.2 4.6 |
| 1969: | 1st qtr 2d qtr 3d qtr 4th qtr | 2.8 2.1 2.5 -1.0 | 2.6 3.1 2.5 -0.6 | 3.4 3.3 0.9 -1.8 | 4.2 3.6 1.9 -1.0 | -0.5 -1.1 1.6 0.8 | -1.5 -0.4 0.6 0.3 | 6. 2 5. 9 8. 2 8. 8 | 5. 5 5. 8 7. 3 7. 7 | 1.2 -1.0 2.3 3.0 | 0.5 -1.0 1.4 1.9 | 6.7 7.1 6.5 7.9 | 7.1 6.3 6.6 7.3 | 1.4 1.5 1.1 -0.8 | 1.1 0.0 1.5 -1.0 | 4.7 4.9 4.5 4.7 | 4.8 3.9 4.7 4.3 |
| 1970: | 1st qtr 2d qtr p | -3.0 0.1 | -2.9 -0.1 | -0.5 -2.9 | -0.1 -3.3 | -2.5 3.1 | -2.9 3.3 | 6.8 5.1 | 6. 6 5. 6 | 0.5 -1.3 | 0.3 -0.9 | 9. 6 1. 9 | 9. 8 2. 2 | -2.0 8.2 | -3.8 9.3 | 5.3 4.1 | 4. 8 4. 6 |
| | | | | | | | | Percent | change ov | er previou | s year ⁶ | | | | | | |
| 1969: | 1st qtr 2d qtr 3d qtr 4th qtr | 4.3 3.1 2.7 1.6 | 4. 4 3. 2 2. 8 1. 9 | 2.6 2.5 2.2 1.4 | 3. 1 3. 0 2. 7 2. 1 | 1.7 0.6 0.4 0.2 | 1.3 0.2 0.0 -0.2 | 7.3 7.2 7.2 7.3 | 6. 7 6. 7 6. 8 6. 6 | 2.3 1.7 1.5 1.4 | 1.8 1.3 1.2 0.7 | 5. 4 6. 6 6. 7 7. 1 | 5. 4 6. 5 6. 8 6. 8 | 2. 0 0. 8 1. 3 0. 8 | 1.8 0.2 0.7 0.4 | 4.1 4.3 4.6 4.7 | 4. 0 4. 1 4. 5 4. 4 |
| 1970: | 1st qtr 2d qtr p | 0.2 -0.3 | 0.5 -0.3 | 0.5 -1.1 | -0.6 | -0.3 0.8 | -0.6 0.3 | 7. 4 7. 2 | 6. 8 6. 8 | 1.2 1.1 | 0.6 0.7 | 7.8 6.4 | 7.5 6.5 | 0. 0 1. 6 | -0.8 1.4 | 4. 8 4. 6 | 4. 4 4. 6 |

¹ Wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. Also includes an estimate of wages, salaries, and supplementary payments for the self-employed.
² Compensation per man-hour adjusted for changes in the consumer price index.
³ Nonlabor payments include profits, depreciation, interest, rental income and indirect taxes.

Schedule of release dates for major BLS statistical series, October 1970

| Title | Date of release | Period covered | MLR table numbers |
|--|--|-------------------------------------|--|
| Wholesale Price Index, final Consumer Price Index Work stoppages | October 12 October 22 October 26 | September September September | 1-14 26-30 24-25 3 1 26-30 15-16 |

Indirect taxes.

4 Current dollar gross product divided by constant dollar gross product.

5 Percent change computed from original data.

6 Current quarter divided by comparable quarter a year ago.

NOTE: Data for 1967, 1968, 1969, and the first quarter of 1970 have been adjusted to new benchmarks and are not comparable to those published in the Monthly Labor Review prior to September 1970.

SOURCE: Output data from the Office of Business Economics, U.S. Department of Commerce. Man-hours and compensation of all persons from the Bureau of Labor Statistics.

p=Preliminary.

New BLS Publications

Occupational Outlook Handbook, 1970-71 Edition. Bulletin 1650. 859 pp. \$6.25.

U.S. ECONOMY

The U.S. Economy in 1980: A Summary of BLS Projections. Bulletin 1673. 59 pp. 65 cents.

BUDGET

3 Budgets for a Retired Couple in Urban Areas of the United States, 1967-68. Bulletin 1570-6. 74 pp. 70 cents.

INDUSTRIAL RELATIONS

Major Collective Bargaining Agreements: Administration of Negotiated Pension, Health, and Insurance Plans. Bulletin 1425–12. 53 pp. 60 cents.

LABOR HISTORY

A Brief History of the American Labor Movement, 1970 edition. Bulletin 1000. 143 pp. \$1.

MANPOWER

Ph. D. Scientists and Engineers in Private Industry, 1968–80. Bulletin 1648. 20 pp. 30 cents. The Long-Duration Unemployed. Special Labor Force Report 118. 9 pp. (Free).

WAGES

Youth Unemployment and Minimum Wages. Bulletin 1657. 189 pp. \$1.50.

Send check or money order to any of the Bureau's regional offices listed on the inside front cover. Copies may also be purchased from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402.

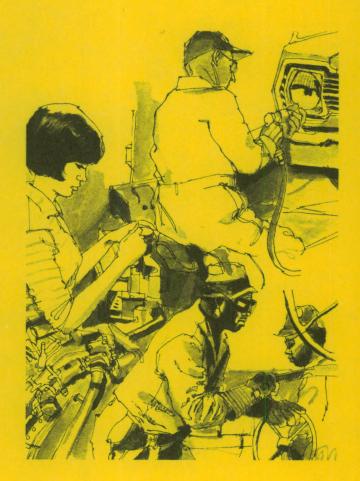
A new decade

A new job market

A new OCCUPATIONAL OUTLOOK HANDBOOK

The decade of the 1970's promises unprecedented changes in job patterns and employment opportunities. Your guide to tomorrow's jobs is the new 1970-71 edition of the Occupational Outlook Handbook. The Bureau of Labor Statistics' revised encyclopedia of employment information reports on training and educational requirements, working conditions, salaries, and employment prospects through the 1970's for more than 700 occupations and 30 major industries.

Each occupational discussion in the latest 850-page Handbook has been reevaluated to reflect changes in automation, technology, and the economic climate expected during the decade ahead. The 1970-71 Handbook is "must" reading for young people choosing a career and all people concerned with occupational trends. Price \$6.25.



Occupational Outlook Handbook

Mail Order Form to: Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402, or to any Regional office of the Bureau of Labor Statistics:

1603-A Federal Bldg. Boston, Mass. 02203

219 S. Dearborn St. Chicago, III. 60604 1317 Filbert St. Philadelphia, Pa. 19107

411 N. Akard St. Dallas, Tex. 75201 341 Ninth Ave. New York, N.Y. 10001

911 Walnut St. Kansas City, Mo. 64106 1371 Peachtree St., NE. Atlanta, Ga. 30309

450 Golden Gate Ave., Box 36017 San Francisco, Calif. 94102

Please send me ____ copies of the Occupational Outlook Handbook
at \$6.25 each.
Payment enclosed: \$____. (Make check payable to Superintendent of Documents.)

Name _____.
Address ____.

City, State, and Zip Code ____.

Postage ____.

Coupon refund ____.

Postage ____.

s://fraser.stlouisfed.org eral Reserve Bank of St. Louis

UNITED STATES GOVERNMENT PRINTING OFFICE Division of Public Documents WASHINGTON, D. C. 20402

OFFICIAL BUSINESS



Postage and fees paid U.S. Government Printing Office

FIRST CLASS MAIL