Monthly Labor Review

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The Labor Month in Review

Leaders of organized labor agreed to join the National Advisory Board on Mobilization Policy after a conference with President Truman, April 5. High point of union activity during the 5-week absence of labor representatives from all defense mobilization agencies was the March 21 meeting of 1,000 union leaders in Washington, called by the United Labor Policy Committee.

A series of collective-bargaining settlements, reached during March, appearing to break through the 10-percent allowable wage "catch-up" formula awaited reconstitution of the Wage Stabilization Board before being acted upon. Administration officials worked throughout the month on plans for reorganizing defense agencies and policies. For the first time since Chinese intervention in Korea, the rapid rise of prices showed signs of abating.

Labor Accepts Defense Advisory Posts

Union leaders, acting through the United Labor Policy Committee, accepted membership on the new National Advisory Board on Mobilization Policy at a meeting with President Truman, April 5, marking the end of a 5-week union absence from the defense mobilization agencies.

The 17-man Advisory Board will be composed of 4 members each from labor, management, agriculture, and the public, with Defense Mobilization Director Wilson acting as chairman. The Board, responsible directly to the President, met first on April 9; it will meet at least monthly in the future.

William Green and George Meany of the AFL and Philip Murray and Walter P. Reuther of the CIO were appointed as the four labor members of the Board by the President.

ULPC leaders expressed the hope that the decision to join the Mobilization Advisory Board would pave the way for return of labor to participation on other defense agencies from which they withdrew entirely February 28.

United Labor Policy Committee Meeting

Organized labor's dissatisfaction with political and economic aspects of the administration of defense mobilization dominated labor developments throughout March; this dissatisfaction was dramatized in Washington on March 20 and 21. On the call of the United Labor Policy Committee, composed of AFL, CIO, Machinist, and Railroad union leaders, 1,000 trade-unionists met together in demonstration of labor unity. Not since the AFL-sponsored rally in support of the Wagner bill in the spring of 1935 has such unison of purpose been shown by American labor unions.

A seven-point "Declaration of Principles" was adopted pledging wholehearted support to the defense effort of the Nation. Calling for "equality of sacrifice," the Declaration insisted on "equality of representation" for "the major groups in our economy." Crystalizing arguments which had been advanced by ULPC leaders during the fortnight preceding the meeting, the declaration itemized labor's position on defense mobilization:

- 1. Revision of the Defense Production Act "in the national interest and not for special interests" to replace the present law which expires June 30, 1951.
- 2. Stronger and simpler price controls. "No one should be allowed to profiteer out of the national emergency," it stated. Fair returns to the farmers through the parity system were endorsed.
- 3. A flexible wage stabilization policy. Any decision to join a reconstituted Wage Stabilization Board was limited to June 30 or until the provisions of the new Defense Production Act are known.
 - 4. More housing and "tight rent controls."
- 5. Revision of the tax structure to insure "equality of sacrifice."
- 6. Solution of civilian manpower problems by voluntary methods.
- 7. Equal participation in the defense mobilization program by all segments of the Nation in order to "inspire renewed public confidence and public support."

Organized labor sought the support of other sections of the population for its demand for a substantial revision of the defense economy. In the days following the March 21 meeting, ULPC leaders voiced sharpened criticisms of the defense program until the agreement to participate on the President's Advisory Board.

Wage Agreements Pending

During March several significant labor-management negotiations produced wage agreements

appearing to exceed the 10 percent "catch-up" formula of the Wage Stabilization Board. Economic Stabilizer Eric Johnston declared his inability to approve the new settlements until the WSB was reconstituted. The three union members resigned from WSB on February 15. Strike threats were made by packinghouse and by ship-yard workers to enforce their new wage agreements. Wage settlements for both cotton and woolen textile workers and by TV musicians added still other cases to the accumulating docket of unapproved increases.

The first cost-of-living review for a million non-operating railroad workers under their March 1 agreement gave them a 6-cent-an-hour adjustment when the February 15 Adujusted Consumer's Price Index of the Bureau of Labor Statistics was announced at a record high of 183.8. When added to the 12.5-cents-an-hour gain in their March 1 contract, wage increases for this group of workers was above the WSB's 10-percent "catch-up" formula. Mr. Johnston was unable to approve this exception to the WSB formula. An emergency panel was named by him to determine what action could be taken.

Settlement of the wage-increase problem of the "nonops" and reconstitution of the Wage Stabilization Board became the first order of business when the National Advisory Board on Mobilization Policy held its first meeting April 9.

Revision of Defense Agencies

Efforts were made throughout the month to work out policies and organizational forms which would induce labor representatives to return to places in the defense agencies.

ESA Director Johnston advanced plans for an 18-man Wage Stabilization Board. At issue was the question of powers which the new board would have over labor-dispute settlements. The ULPC favored inclusion of nonwage matters in the new board's jurisdiction. Management insisted that the board's scope be limited strictly to "economic" issues.

ODM Director Wilson announced that a Labor-Management Advisory Committee would be established in the Office of Defense Mobilization. Mr. Wilson said this Advisory Committee will serve under the joint chairmanship of ODM Manpower Advisor Arthur S. Flemming and Frank P. Graham, Defense Manpower Administrator in the Department of Labor.

By Executive order on March 15, President Truman created the 17-man National Advisory Board on Mobilization Policy on which AFL and CIO union leaders accepted membership on April 5.

The Month's Economy

For the first time since Chinese intervention in Korea, the rapid upsweep in prices showed some evidences of slowing. Beginning February 13, declines in some wholesale food prices and in grains almost offset continuing slow increases in industrial prices. Also lower were some commodities where prices were rolled back by specific ceiling regulations or, as in the case of tin and rubber where unified Government purchase control broke the speculative markets. The weekly Wholesale Price Index declined in the week ended February 27, the first such turn since October 1950. The Agriculture Department's Farm Price Index for the month ending March 15 showed a decline of a little less than 1 percent.

Factors credited with slowing the price advance included a halt in the boom buying which had featured January, Federal Reserve Board credit restrictions, and increased effectiveness of OPS controls. Price rollbacks were ordered for cattle hides and skins; the rollback for tallow, solid oils, and soap lowered retail soap prices as much as 2 cents a bar.

Price Stabilization Director DiSalle announced 3 orders bringing 60 percent of groceries under percentage margin controls on March 28. By April 6, over 1,600 products were covered by more than 110 controls issued either by OPS or NPA.

Employment continued high. The labor market tightened gradually. Unemployment in March dropped to 2.1 million, lowest figure for this month since the end of World War II. Nonfarm employment continued at an all-time high, with the greatest gains being in manufacturing. Defense contract allocations of 4.4 billions in January and 3.3 billions in February pointed toward still more marked increases in metalworking employment. Continuing this winter's abnormal activity, construction employment in February of 2.2 million marked a new high; construction expenditures of 2.1 billions for March, 21 percent above March 1950, brought new construction volume for the first quarter of 1951 to the highest figure ever recorded. Automobile production continued ahead of 1950.

Elements of Soviet Labor Law

Part II.

VLADIMIR GSOVSKI*

Editor's Note.—This is the second of two articles by Dr. Gsovski on Soviet labor law as it affects the Soviet equivalent of "free" labor. The first dealt with the generally punitive character of Soviet labor law, managerial and working pressures which created conditions for industrial conflict, the deterioration of the trade-unions, and the collapse of collective bargaining.

Labor's Loss of Freedom on the Job

The constant increase of managerial power over workers since the suppression of private enterprise in the Soviet Union is revealed by successive amendments to some individual provisions of the Labor Code. Provisions defining the right of the employer to dismiss the employee summarily because of failure to appear for work may serve as an illustration. The Labor Code of 1922 incorporated the provision of Czarist law 1 permitting management to dismiss a worker for failure to appear without justifiable reason for 3 consecutive days or for 6 days during a month.2 In 1927, this was changed.3 Failure to appear for a total of any 3 days during a month constituted grounds for dismissal. In 1932,4 only 1 day's unjustified absence was sufficient and mandatory ground for dismissal of a worker in a government enterprise. to be followed by an automatic eviction, without a court action, from the living quarters which he occupied because of his employment.

An act of December 28, 1938, was directed against tardiness, leaving work before the scheduled time, undue prolonging of lunch time, and loitering on the job.⁵ Those who committed such infractions were subject to warning or to transfer to lower grade jobs. Three violations in 1 month or four in 2 months, led to dismissal (sec. 1). An official interpretation of the act, issued on January 9, 1939,⁶ states that penalties milder than dismissal should be applied only in cases of tardiness not exceeding 20 minutes. A single tar-

diness exceeding 20 minutes should result in immediate dismissal.

Later, by an edict of June 26, 1940,7 job freezing was enacted, and unauthorized quitting was made an offense punishable in court by imprisonment. Then, according to the Soviet jurists, the possibility arose that a worker might purposely fail to appear on time in order to be dismissed and thereby obtain a chance to find a better job. Therefore, the June 1940 edict rescinded mandatory dismissals for tardiness and absenteeism and declared them to be offenses punishable by disciplinary penalty in case of tardiness or court sentence for absenteeism.

The act of December 28, 1938, made managers subject to dismissal and penal prosecution in court for failure to inflict the prescribed penalties (sec. 2).

The Standard Rules of Internal Labor Organization, enacted on January 18, 1941,8 stress that "every violation of labor discipline shall entail either a disciplinary penalty or prosecution in court" (sec. 19). Disciplinary penalty is imposed by management as soon as it becomes aware of the violation. The imposition of the penalty does not relieve the employee from the duty to compensate for damage caused by any defective work.

Among the violations, the rules specify tardiness, loitering on the job, absenteeism, and unauthorized quitting of the job (secs. 21, 25, 26). Coming to work late, going out for lunch ahead of time, being late in returning from lunch, or

leaving work ahead of time, if done without a justifiable reason, subjects the worker to managerial discipline in instances where the loss of time does not exceed 20 minutes and does not occur thrice a month or four times within two consecutive months. In the latter instances violators are considered absentees and are punished in court.

If an employee appears at work in a state of intoxication, he is guilty of absenteeism (sec. 26). Unauthorized quitting a job is an offense punishable in court. Loitering on the job is subject to disciplinary penalties.

The application of so many penal clauses raised fine legal problems for Soviet jurists, who have perhaps shown an attachment more for legal niceties than common sense. Following is a discussion of the legal definition of sleeping on the job in a treatise on Soviet labor law printed in 1946: 9

The question whether loitering on the job or sleeping during working hours should be considered absenteeism came up in judicial practice several times. Legal writers answered this question in various ways. Some thought that "there is no reason to exclude . . . loitering on the job from the concept of absenteeism" ¹⁰ [reference on an article in a law review is made], while others were of the opposite opinion [another reference]. ¹¹

From the comparison of sections 21 and 26 of the Standard Rules of Internal Order, it becomes evident that loitering on the job, regardless of how long it lasts and how often it occurs, entails a disciplinary penalty and not punishment in court. Sleeping during working hours is a form of loitering on the job and therefore should not be considered absenteeism. This conclusion is supported by the following ruling of the Trial Criminal Division of the U.S.S.R. Supreme Court: "Insofar as sleeping on the job is a violation of labor discipline, not connected with the absence of the worker from his post but, on the contrary, necessarily presumes his presence there, such an offense may not be qualified as absenteeism. Being a kind of loitering, sleeping during working hours, if it did not and could not cause serious harm, must be visited by disciplinary penalty." 12

Leaving the place of employment without the express permission of management has been punishable in court by imprisonment for from 2 to 4 months since June 26, 1940. Previously a month's notice by the employee was adequate for quitting. In defense industry the penalty would be imprisonment up to 8 years. 14

The provisions relating to this penalty are broadly interpreted. Thus, an employee who, twice convicted for absenteeism and serving a compulsory labor sentence at the place of his employment in lieu of jail, commits absenteeism (tardiness of more than 20 minutes) again, must be prosecuted for unauthorized quitting. An employee who violates the shop rules for the purpose of being dismissed must be prosecuted in a like manner. The U. S. S. R. Supreme Court has also held:

A lengthy failure to appear for work may be considered absenteeism only in instances where the court has established that the employee had no intention to quit the given job. If the court establishes that the person concerned intentionally stayed away from work with the design to quit it without authorization, such act must be qualified as quitting of the job without authorization even if the perpetrator appears again on the job before the trial.¹⁷

Finally, by the Edict of October 19, 1940, Government department heads were authorized to allow to transfer certain categories of technical personnel and skilled labor, regardless of their wishes, from one establishment to another. A series of decrees lists the jobs coming under the decree. Failure to obey the transfer is punished as unauthorized leaving of the job. It is characteristic that the imposition of penalties for infraction of labor discipline are heard in court by a single professional judge with the exclusion of two lay "assessors" required for all other trials. In

In several branches of industry especially severe rules of discipline are established granting the "bosses" power to impose penal confinement up to 20 days at their own discretion without a court action.

Railroad employees were placed under strict military discipline in 1943 by virtue of a special disciplinary code.²⁰ Arrests not to exceed 20 days could be imposed at the discretion of a superior. Appeals could be made to the next higher superior whose decision is final, but appeal had to be filed within 3 days with the superior who imposed the penalty. No court appeal is permitted.

Similar provisions are contained in the new disciplinary codes for the following employees: maritime and inland waterways transportation lines; the main bureau of the Civil Air Fleet; postal, telegraph, and radio systems; and municipal electric power plants. Militarized watchmen of ware-

houses and workmen in air defense and fire protection of defense industries are also covered.

Wages and Hours

The Labor Code of 1922, enacted when limited private enterprise was tolerated, provided for payment by time or by piece, leaving the determination of individual pay to the individual employment contract or to collective agreements. The remuneration was not, however, to be less than the minimum wage fixed by competent authority (secs. 58-60). These provisions may be considered totally out of date. In the first place, the principle of piecework since 1931 has been given official preference and, by 1934, 70 percent of the work done in large industrial plants was paid for by piece rate. Secondly, the practice of making collective agreements was abandoned for 14 years in1933 when "the transition from regulation of wages by a contract to their regulation by the Government was completed."21 When collective agreements were resumed in 1947, only such rates of wages could be included as were previously established by the Government. The all-embracing governmental plan, Soviet writers declare, does not exclude collective agreements altogether, as some of them thought in 1946, but certainly excludes wages from bargaining.22 The definition of schedules and rates of wages and salaries is reserved to the higher agencies of the principal employer—the Government. As the official compilation of labor laws of 1947 puts it:

The amount of wages and salaries is at the present time fixed by the decisions of the Government (or on the basis of its directives) .

The agreement of parties plays a subordinate role in the determination of the amount of wages or salaries. It should not be contrary to law and is allowed only within limits strictly provided for by the statute, for example, where the precise amount is fixed in instances in which the approved table of organization defines the rate as "from"—"to"; or fixing the remuneration for part-time employment of a person holding another position, and the like.²³

The schedules established by the Government are subject to constant changes and are too complex to be analyzed in the present article. It should suffice to state three basic features common to all schedules: highly progressive piecework rates, bonuses, and, absence of a guaranteed minimum wage. Bonuses are of two kinds; those

based upon output and periodically paid as part of the wages; and individual bonuses given at the discretion of the administration. The overriding principle is that in order to receive the minimum rate the worker "must attain the standard of output prescribed for him." (Labor Code, sec. 57 as amended in 1934).

Originally the Labor Code as enacted in 1922 (when some private enterprise existed) left determination of the standard of output to agreement between the administration of the plant or factory

and the appropriate trade-union.

But since the Acts of June 4, 1938, and January 14, 1939, the revision of standards of output has been in the hands of the Ministers in charge of the individual industry branches who must, however, consult the Central Council of the Trade Unions, i. e., the labor department (supra, Part I), but not the individual unions. As an example, the official textbook on labor law of 1944 refers to the Order of the Minister of the Aviation Industry of April 20, 1942, No. 117. By this order, new standards of output and new rates are to be approved by the directors of individual plants upon the recommendation of the heads of the shops, and immediately put into effect.24 In some instances, standards of output and rates are directly enacted by the Council of Ministers (prior to March 1946, of People's Commissars), e. g., the schedule for the cotton textile industry and for motor transportation.25 Thus, the tradeunions, though controlled by the Government and the Communist Party, have in certain instances no part in establishing the major conditions determining wages.

As mentioned in Part I, the Edict of the Presidium of June 26, 1940, lengthened the working day from 7 to 8 hours for plants and offices, except for especially dangerous jobs, for which the 6-hour day was retained. Moreover, the edict restored the 6-day workweek with Sunday as the day of rest. Since 1931 there had been a 5-day work schedule with each sixth day a day of rest. This meant an addition of 33 hours per month for laborers and of 58 hours for office workers. Salaries paid on a time basis remained unchanged, and the piecework rates were correspondingly lowered to keep wages at the same level. 27

It should also be mentioned that on June 26, 1941,²⁸ the management of individual enterprises could impose mandatory daily overtime up to 3

hours. Minors under 16 years of age were limited to 2 hours overtime a day. Pregnant women from the sixth month on, and those nursing babies during the first month of nursing, were exempted. This overtime may, however, be considered only as a wartime emergency.

Financial Responsibility of Employees

A particular feature of the Soviet labor law is the financial responsibility of the worker for any damages to the employer caused by the worker. There are three types of such responsibility: liability for the full amount of actual damage, liability limited to a certain portion of the employee's pay, and liability exceeding actual damage several fold.

Liability for the full amount is charged when a criminal offense is established in court, when liability is stipulated in writing in the employment contract or is provided for by special laws, or when damage is caused outside the performance of the employee's regular course of employment. (Labor Code, sec. 831).

Liability is limited to one-third of the scheduled rate if the damage is caused by negligence in work, by a violation of law not constituting a criminal offense, or by a violation of shop rules or the employer's special instructions and orders. This type of liability applies in cases of injury, destruction, or loss of equipment or livestock, in cases of failure to collect full payments, of loss or depreciation of documents entrusted, and also where the employer has been forced to make unnecessary payments, including penalties. The same responsibility arises in case of improper expenditure of money assigned for business needs (Labor Code, sec. 83).

The liability of an employee is greater if he spoils, through negligence, raw material or semi-finished or finished products. He then is liable for up to two-thirds of his average earnings rather than of his scheduled rate.²⁹

The greatest liability rests on managers of fuel stocks at machine-tractor stations and governmental farms for shortages of fuel—10 times the value of the shortage, provided their acts do not incur penal prosecution.³⁰ In case of theft, wanton destruction, or intentional spoilage of raw materials, semifinished or finished products, as well as of instruments, work clothes, and other

property issued for the use of an employee, he is liable to pay up to fivefold the amount of damage.³¹ The same rate applies to theft, unaccountable shortage, or mishandling of industrial products in governmental stores, but based on the commercial or black market price.

Arbitration and Conciliation

With the elimination of collective bargaining in 1933, the arbitration procedure originally devised for settling labor disputes has also undergone a change. After collective bargaining was resumed in 1947, the Soviet jurists drew a distinction between disputes involving establishment or change of labor conditions and those arising from the application of conditions already established. For all practical purposes, they say, only the second group comes under the special arbitral procedure originally devised for both. Establishment of labor conditions and their change are at present within the province of the administration.³²

Conciliation boards and arbitral boards, established to resolve disputes over labor conditions, under the Labor Code and Act of August 29, 1928 (which remain on the statute book),³³ went out of existence after the People's Commissariat for Labor was replaced by the Central Council of Trade-unions in 1933.³⁴

The piece-rate and dispute boards established at that time in each establishment are still in existence, but since January 2, 1933, "the principal part of their function regarding piece rating, viz., establishment of standards of output and piece rates, fell off," according to the official textbook on labor law of 1946.35 They are, in fact, boards for settling disputes between individual employees and management concerning the application of the existing labor regulations, that is to say, like grievances committees. In some instances the aggrieved party must bring his grievance before the board before going to court or elsewhere. Representatives of the management and of the workers' committee have equal votes, and if no accord is reached the aggrieved may go to court. The awards are final but may be revised ex officio by higher authorities; if they set the award aside the aggrieved party may then go to court.

In some other instances there is a choice between going to court or to the board. Consequently, the Soviet regulation of labor disputes offers the employee, at best, redress against individual abuses committed by the management.

But there are also instances in which the party may not appeal to a court or board but only to higher administrative authorities.³⁶ This is true of the branches of employment in which the management, through the so-called Disciplinary Codes enjoys especially broad disciplinary powers. An employee in these branches, if penalized by the administration, may not appeal to the court or conciliation board but only to higher superiors in the establishment. (See supra, p. 386.)

Conscript Labor

As mentioned above, every employee since 1940 has been frozen on the job. Numerous categories of employees may be transferred, regardless of personal preference (supra, p. 386).

However, the Soviet jurists point out, that in many instances under the Soviet law employment is also created by administrative act.³⁷ An example of this is the draft of youths for industrial labor.

The Edict of October 2, 1940,³⁸ authorized the Council of People's Commissars (since 1946, Council of Ministers) to draft annually from 800,000 to 1,000,000 youths of from 14 to 17 years of age for training in trade schools and railroad schools to become skilled laborers, or for special on-the-job training (shkoly fabrichno-zavodskogo obucheniia) to become "mass workers," as the law termed it, in the mining, metal, and building industries. The training period is from 6 months to 2 years only, thus making it clear that these schools are not educational institutions but merely training projects.

The curriculum is designed not only for industrial training but also for political indoctrination and militarization of labor. No particular number of hours is reserved for the study of general subjects, but 2 hours a week are assigned to political indoctrination. The trainees wear a special uniform and live under a regime similar to that of a military school. They must observe the rules of military courtesy. For example, the rules of March 15, 1947, prescribed the following standard of conduct:

Section 7. When the instructor approaches, the trainee must get up and he may not sit down until the instructor passes by or gives him permission to 936023—51——2

trainee must stand at attention. If the trainee has to pass by the instructor, he must ask permission to do so, e. g., "Allow me to pass by."

By the Edict of the Presidium of June 19

sit down. When the instructor addresses him the

By the Edict of the Presidium of June 19, 1947, 39 the draft age was changed, and it was made clear that youths of both sexes are subject to the draft. For training in the vocational and railroad service schools, boys from 14 to 17 years of age and girls from 15 to 16 years of age may be drafted. For schools of industrial training, boys and girls from 16 to 18 years of age, and for underground work in coal and mining industries, as well as for smelters, foundries, welding, and drilling in metallurgy and oil industries, boys up to 19 years of age may be drafted.

After training, the labor draftees are obliged to work for 4 years in Government factories, plants, mines, etc., as assigned by the Ministry of Labor Reserves. The draftees are paid regular wages, equal to those of other workers. Until the expiration of their term of obligation, labor draftees are deferred from military service.

Leaving school without authorization, and other violations of school discipline subject the young people to penalties of up to 1 year in a reformatory. The number of young men to be drafted from the cities is determined by quotas established for each year. From the collective farms (the rural population), 2 young people for each 100 persons between the ages of 14 and 55 are drafted. Drafts of 600,000 were ordered in November 1940 and in June 1941. In the year 1946–47, 1,700,000 boys and girls were trained and according to the report of the Minister of Labor Reserves in 1950 more than half of the workers in the largest U. S. S. R. enterprises are young persons trained under this program.

Aside from the draft, orphans 12 to 15 years may be assigned to special schools of industrial training for 3 or 4 years. They are subject to all duties of the draftees and their number is included in the above figures. Available regulations do not indicate that consent of the orphans or of their guardians is required.

Moreover, graduates from higher educational institutions (universities) and vocational schools on the level of technical high schools (tekhnikum) must work for 3 or 5 years ⁴⁴ at jobs assigned by the ministry in charge of the particular school. Failure to take the appointment is treated as an

offense punishable in court as absenteeism or unauthorized quitting of the job. 45

Finally, several wartime laws were enacted drafting labor for work in various branches of industry regardless of location.⁴⁶

These elements of conscript and forced "free" labor exist in the Soviet Union in addition to the outright convict labor in labor camps operated by the Ministry of Interior (M. V. D.). Discussion of them is outside the scope of this article, which is devoted exclusively to the Soviet group which is the nearest counterpart of our free labor.

In discussing the general situation of postwar free employment, Soviet writers themselves plainly indicate that "voluntary" employment under Soviet conditions is not much different from conscript labor. A treatise by Dogadov on the development of the Soviet labor law, which appeared in 1949, states:

In the socialist society there is no difference in principle and quality between drafted labor and labor performed by voluntary entering into labor relations by taking of employment. When we are saying that in the socialist society the principle of voluntary labor is recognized we are not speaking of recognition of some kind of abstract principle of free labor and trade in a liberal and bourgeois sense, a principle which would be treated as a value per se.

Under the conditions of socialist society...it is impossible to secure the principle "from each according to his ability" without a pressure by the state and law regarding the universal duty to work.47

It is clear that the "voluntary employment" still to be found in some branches of Soviet industry is far from our concept of free labor.

Jobs are frozen. Worker and manager are under equally heavy penalties, both criminal and civil. Millions of future Soviet citizens, while still only 12 to 14 years old, are assigned for training at jobs selected for them by the authorities, without necessary regard for personal preferences or those of their parents or guardians. Professionals, for considerable time after graduation, are denied the right to go into a job of their own choosing. This is the general picture of "free" labor in the Soviet State.

For other reasons of premature dismissal, see Gsovski, Soviet Civil Law, Vol. I, p. 801.

- ⁴ Act of November 20, 1932, R. S. F. S. R. Laws, 1932, text 371.
- ⁵ Act of December 28, 1938, U. S. S. R. Laws, 1939, text 1.
- 6 Interpretation of January 9, 1939, Izvestiia, January 9, 1939.
- ⁷ Edict of Presidium of the Supreme Soviet, Vedomosti, Nos. 20 and 28, 1940. This edict is treated as being still in force in 1949, by Z. Vyshinskaia, Crimes in the Field of Labor Relations (in Russian 1949), pp. 83, etc., 89.
 - 8 U. S. S. R. Laws, 1941, text 63.
- ⁹ Aleksandrov, joint author, Soviet Labor Law (in Russian, 1946), p. 279.
- ¹⁰ The author refers to Dubovsky "Concept of Absenteeism" in Soviet Justice (in Russian), No. 1, 1940.
- ¹¹ The author refers to Moskalenko, "The New Rules of Internal Order" idem, No. 11.
- U. S. S. R. Supreme Court, Criminal Trial Division, Decision of January 25, 1943, quoted from Judicial Practice of the U. S. S. R. Supreme Court (in Russian), 1943, No. 4, p. 14.
 Lex cit. supra, note 5.
 - 14 Edict of December 26, 1941, sec. 2, Vedomosti, 1942, No. 2.
- ¹⁵ U. S. S. R. Supreme Court, Ruling of July 7, 1941, Collection of Rulings of the U. S. S. R. Supreme Court from June 23, 1941, to March 1, 1942, p. 9. Aleksandrov, op. ct. supra, note 9, p. 283.
- 16 Idem. Ruling of December 15, 1941, op. cit., p. 21.
- ¹⁷ Idem. Ruling of October 22, 1942 in Judicial Practice of the U. S. S. R. Supreme Court (in Russian), 1942, No. 2, p. 4.; Aleksandrov, loc. cit.
- ¹⁸ Edict of Presidium of the U. S. S. R. Supreme Soviet of October 19, 1940, *Vedomosti*, 1940, No. 42. For citations of decrees specifying jobs coming under the edict, see Gsovski, Soviet Civil Law, vol. I, p. 830, note 132. The edict is treated in Z. Vyshinskaia, *op. cit. supra*, note 7, as being still in force in 1949.
- ¹⁹ Edict of Presidium of the U. S. S. R. Supreme Soviet of August 10, 1940, Vedomosti, 1940, No. 28.
- ²⁰ Collection of legislation for Workers of Railroads (in Russian, 1944), pp. 186-188.
- 21 Aleksandrov, op. cit. supra, note 9, p. 51.
- ²² Moskalenko, "Legal Problems Involved in Collective Agreements" in Trade-Unions (in Russian), 1947, No. 8, p. 16; also Aleksandrov, op. cit., p. 203, 211, etc.
- ²³ Aleksandrov and other compilers, Goliakov, editor, Legislation concerning Labor (in Russian, 1947), p. 65, also Gsovski, op. cit., Vol. I, p. 808.
- 24 Aleksandrov and Moskalenko, Soviet Labor Law (in Russian, 1944), p. 94.
- Act of August 15, 1938, U. S. S. R. Laws, 1938, text 214, also idem, 1939, text 119.
 Vedomosti, 1940, No. 20 and No. 28.
- 27 Decrees of the Council of People's Commissars, U. S. S. R. Laws, 1940, texts 385, 386, 387. $^{28}\ Vedomosti,$ 1941, No. 30.
- ²⁹ Instruction of the People's Commissar for Labor of June 1, 1932, sec. 3, Aleksandrov, op. cit. supra, note 23, p. 135.
- 20 Act of June 20, 1942, sec. 12; Order of Attorney General of June 23, 1942, Aleksandrov, op. cit. supra, note 23, p. 136.
- ³¹ Id., p. 135; Instruction cit. supra, note 29, secs. 1, 2.
- 32 Aleksandrov, op. cit. supra, note 9, p. 311, etc., and note 23, p. 242.
- ³³ U. S. S. R. Laws, 1928, text 495.
- 34 Aleksandrov, op. cit. supra, note 9, p. 313 and note 23, p. 243.
- 35 Id., p. 314
- ³⁶ For enumeration of cases belonging to one or another category, see Gsovski, Soviet Civil Law, 1948, Vol. I, p. 804–805, notes 46–49.
- 37 Aleksandrov, op. cit. supra, note 9, p. 137.
- ³⁸ Vedomosti, October 9, 1940, No. 37. For these and other acts on this subject, see Labor Reserves of the U. S. S. R. (in Russian), 1950.
- ³⁹ Id., 1947, No. 21.
- 40 Edict of December 28, 1940, Vedomosti, 1941, No. 1.
- U. S. S. R. Laws, 1940, texts 602, 603, 604, and 673; Izvestiia, June 5, 1941.
 U. S. S. R. in Large Soviet encyclopedia (Bolshaia Sovetskaia Entsik-
- lopediia), 1947, pp. 163-164.
 Bureau of Labor Statistics, Notes on Labor Abroad January 1951, No. 17, p. 15.
- 44 Aleksandrov, op. cit. supra, note 9, p. 139; Higher Education (in Russian,
- 45 Orders of the U. S. S. R. Commissar for Justice of September 25, No. 125/171 and of December 4, 1939, No. 173/207, Aleksandrov, op. cit. supra, note 23, p. 12.
- 46 For citation and translation, see Gsovski, Soviet Civil Law, Vol. I, p. 832, etc., Vol. II, p. 548, etc.
- ⁴⁷ Dogadov, "History of Development of the Soviet Labor Law" in *Uchenye Zapiski* of Leningrad University, Series of Legal Sciences, No. 2 (in Russian 1949), p. 163, 166.

^{*}Chief, Foreign Law Section, Law Library, Library of Congress.

¹ Code of Industrial Labor, Sec. 62, subsec. (1) (1913 ed.) Svod Zakonov, Vol. XI, Part 2.

² Soviet Labor Code, sec. 47, subsec. (f) as enacted in 1922.

² Idem, as amended on August 22, 1927, R. S. F. S. R. Laws, 1927, text 577.

Economic Status of Social Workers in 1950

RAPIDLY EXPANDING national interest in social services has centered attention upon the economic status of social workers. They are the key workers in a wide variety of public and private welfare programs including public assistance for which the Nation spends annually about \$2½ billion.1 In 1950, an estimated 75,000 social workers were employed at an average annual salary of \$2,960.2

In order to find out more about the earnings of these workers, the Bureau of Labor Statistics, in cooperation with the Federal Security Agency, the National Social Welfare Assembly, and the National Council on Social Work Education, conducted a Nation-wide survey.3 Valuable assistance was provided by the Metropolitan Life Insurance Co., the American Red Cross, the American Association of Social Workers, the Volunteer Division of the United Community

Services of Washington, D. C., and many other social work organizations.

Annual Salaries

Women, who comprised nearly 70 percent of all social workers in the country, earned an average annual salary of \$2,800 in 1950—slightly less than the \$2.960 average for all social workers (table 1). The men received \$3,430. Part of this differential is explained by the greater proportion of men in the higher paying positions.

Case or group workers, who account for 60 percent of all social work positions in the country, earned an average of \$2,730; their supervisors averaged \$3,610. In each position, men received more than women (\$200 for case workers, \$240 for supervisors), despite the fact that women reported more undergraduate education and more graduate level social-work education than men in comparable work.

Social workers with executive responsibility averaged \$3,700. Other workers in the field, engaged in teaching, research, and consultation, averaged \$3,710.

The Federal Government paid the highest salaries for all social-work positions, with annual averages ranging from \$4,000 for case or group workers to \$5,880 for those social workers engaged in teaching, research, consulting, etc. Private

Table 1.—Average 1 annual salaries 2 of social workers by position, sex, and region, 3 1950

Position	United States	New England	Middle Atlantic	Border States	South- east	Great Lakes	Middle West	South- west	Moun- tain	Pacific
All workers All positions Case or group workers Supervisors of case or group workers Executives Other 4	\$2, 960	\$3, 040	\$3, 050	\$2,860	\$2, 490	\$3,010	\$2, 690	\$2,770	\$2,850	\$3, 320
	2, 730	2, 740	2, 780	2,460	2, 400	2,720	2, 400	2,510	2,580	3, 060
	3, 610	3, 500	3, 620	3,810	3, 180	3,600	3, 620	3,400	3,460	3, 860
	3, 700	3, 800	4, 270	3,960	3, 020	3,690	3, 060	3,610	3,350	4, 280
	3, 710	3, 360	3, 900	3,790	3, 310	3,680	3, 410	3,390	3,700	4, 090
All positions Case or group workers Supervisors of case or group workers Executives Other 4	3, 430	3, 390	3, 270	3, 680	3, 600	3, 500	3, 290	2, 980	3, 390	3, 880
	2, 860	3, 030	2, 780	2, 740	3, 130	3, 010	2, 840	2, 820	2, 900	3, 220
	3, 790	3, 470	3, 640	4, 500	4, 300	3, 730	3, 990	3, 610	3, 390	4, 400
	4, 430	4, 470	4, 650	4, 970	3, 740	4, 250	3, 670	4, 230	3, 800	4, 940
	3, 700	3, 680	3, 640	3, 760	3, 360	3, 700	3, 380	3, 540	3, 930	4, 210
Women All positions Case or group workers. Supervisors of case or group workers. Executives. Other 4.	3, 550	2, 810 2, 660 3, 520 3, 350 3, 110	2, 990 2, 790 3, 620 3, 740 4, 020	2, 670 2, 430 3, 700 3, 210 3, 840	2, 440 2, 280 3, 120 2, 760 3, 300	2, 800 2, 670 3, 460 3, 160 3, 660	2, 490 2, 300 3, 310 2, 760 3, 440	2, 630 2, 470 3, 100 3, 050 3, 380	2, 670 2, 530 3, 460 3, 070 3, 640	3, 170 3, 040 3, 730 3, 690 4, 060

¹ Median.

¹ Median.
² Annual salaries reported in the summer of 1950. These salaries do not include cash equivalent of any maintenance provided by the employer
³ The regions used in this study include: New England—Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont; Middle Allantic—New Jersey, New York, and Pennsylvania; Border States—Delaware, District of Columbia, Kentucky, Maryland, Virginia, and West Virginia; Southeast—Alabama, Florida, Georgia, Mississippi, North Caro-

lina, South Carolina, and Tennessee; Great Lakes—Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin; Middle West—Iowa, Kansas, Missouri, Nebraska, North Dakota, and South Dakota; Southwest—Arkansas, Louisiana, Oklahoma, and Texas; Mountain—Arizona, Colorado, Idaho, Montana, New Mexico, Utah, and Wyoming; Pacific—California, Nevada, Oregon, and Washington.

Includes teaching, research, consultation, other supervision, etc.

agencies paid their social workers on the average about \$1,000 less than the Federal Government. Executives in private agencies received slightly less than supervisors of case or group workers, perhaps because higher salaries are prevalent in the large private agencies which employ a greater proportion of supervisors. Lowest salaries were found in State, county, and other local government agencies, where the averages ranged from \$2,690 for case or group workers to \$3,690 for researchers and consultants.

Average salaries varied widely among different social-work programs (chart 1). Public assistance programs (including old-age assistance, aid to dependent children, to the blind, and to the permanently disabled, and general assistance)

account for 2 out of every 5 social workers in the country. But they paid next to the lowest salarywise.

Lowest paid was work with the aged in institutions, where cash salaries for social-work positions averaged \$2,490. Annual salaries averaging between \$3,000 and \$3,370 were received by those providing aid to families (other than public assistance), those in child-welfare activities (except school social work) and aid to the mentally ill in hospitals, and those engaged in medical social work and in group work. Workers in mental hygiene clinics, with the physically handicapped, and adult offenders, and school social workers earned annual salaries ranging between \$3,700 and about \$3,900. Highest average annual salar

Chart 1. Average Annual Salaries of Social Workers

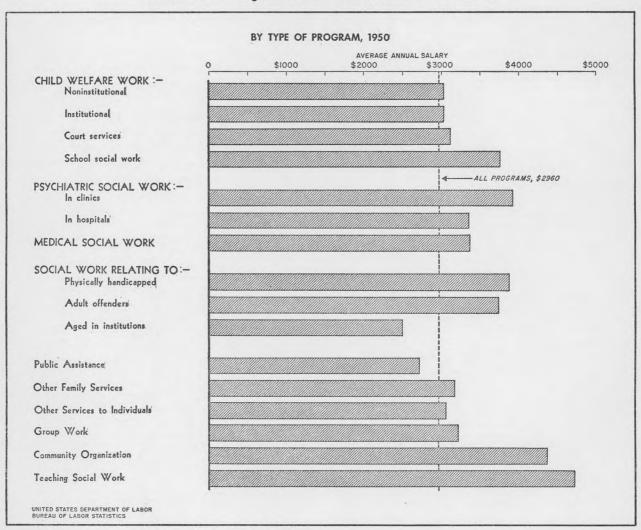
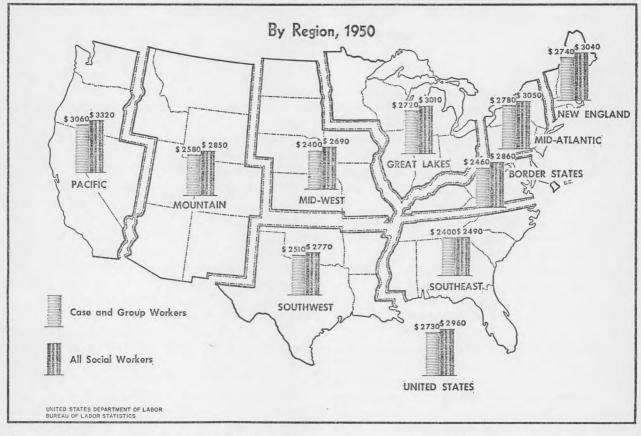


Chart 2. Average Annual Salaries of Social Workers



ries reported were \$4,360 and \$4,710 for community service and teaching social work, respectively.

Since salary differences among programs may be based in part upon differences in the proportion of each position in the work force, some comparisons of average annual salaries of case or group workers among the various programs may be of value. Annual salaries of case workers ranged from about \$2,500 for those engaged in public assistance and in institutions for the aged to \$3,700 for those in school social work and work with the mentally ill in clinics. Approximate average salaries of case workers in all programs are summarized below:

 $\begin{array}{l} \$2,400-\$2,600_- \begin{cases} \text{Public assistance.} \\ \text{Work with aged in institutions.} \end{cases} \\ \begin{array}{l} \text{Noninstitutional child welfare (except court).} \\ \$2,700-\$2,800_- \\ \text{Institutional child welfare.} \\ \text{Other services to individuals.} \\ \text{Group work.} \end{array}$

\$2,900-\$3,200_-\text{Family services.} \text{Court services for children.} \text{Work with mentally ill in hospitals.} \text{Medical social work.} \text{School social work.} \text{Work with physically handicapped.} \text{Work in mental hygiene.} \text{Work with adult offenders.}

Regionally, salaries were highest in the Pacific States, where they averaged \$3,320, and lowest in the Southeastern States, \$2,490 (chart 2). This regional pattern prevailed generally both for State, county, and local governments and for private agencies. In the former group of agencies, salaries were almost as low in the Middle West as in the Southeast. Private agencies in the Middle Atlantic States were the highest paying for supervisors of case or group workers and for executives. This level of salaries probably reflects the predominance of the large private agencies in this area.

Salaries tended to increase with amount of

experience. However, there was less variation with experience among case or group workers and their supervisors than among the higher paid positions, and in salaries of women than of men.

Supplemental Benefits

Paid vacations of from 2 to 4 weeks were reported by over 85 percent of the social workers having at least 1 year's service in their present agency. Only 4 percent reported vacations of less than 2 weeks and only 7 percent reported more than 4 weeks. Regionally, the most liberal vacation plans were found in the Middle Atlantic States.

In all regions, approximately 70 to 80 percent of the social workers reported 2 weeks or more of sick leave after 1 year's service in the agency. Again, the Middle Atlantic States offered slightly more generous plans.

Plans for retirement, paid for at least in part by the employer, were available to over 70 percent of the social workers in the country. Covered were all the Federal workers (except temporary employees, now covered by retirement provisions of the Social Security Act) about 80 percent of the State, county, and local government employees, and about 60 percent of the social workers in private agencies. Many social workers in commenting on working conditions said they felt they should be covered by the Social Security Act.

Education

Two-thirds of the social workers are college graduates, and about half reported some graduate work (table 2). Those employed by the Federal Government, the highest paid, also are the most highly educated; almost 90 percent hold bachelor's degrees, and almost all of these reported some graduate work education. Bachelor's degrees were held by about 70 percent of the social workers in private agencies, and 60 percent had had some graduate work. In the State, county, or other local governments, where average salaries were lowest, about 3 out of 5 social workers held bachelor's degrees and less than half had had some graduate work.

The survey indicates that only 2 out of 5 social workers have had specialized graduate education in schools of social work. As in the case of general education, employees with the greatest amounts of specialized graduate education received the highest salaries.

Those working in mental hygiene clinics had more social-work education than those in any other program; almost 95 percent had 1 year or more of graduate social-work study and over 80 percent had at least 2 years; teachers of social work were next, with over 80 percent having had 1 year or more. Over 3 out of 5 medical social workers and workers with the mentally ill in hospitals reported 1 year or more of such educa-

Table 2.—Percentage distribution of social workers by amount of education, type of position, and sex, 1950

						Pe	ercenta	ge of e	mploye	ees					
Amount of education	All	l positi	ons		e or gr worker			visors oup wo	of case orkers	E	xecutiv	7es	Othe	r posit	ions 1
	Both	Men	Wom- en	Both	Men	Wom- en	Both	Men	Wom- en	Both	Men	Wom- en	Both	Men	Wom- en
All education: ² High school or less Less than 2 years of college More than 2 years of college Specialized undergraduate training. Bachelor's degree only. No bachelor's degree but some graduate work. Bachelor's degree and some graduate work.	9 7 11 2 19 5 47	12 7 10 1 17 4 49	8 7 12 2 20 6 45	9 7 12 2 23 5 42	11 7 10 1 22 3 46	8 7 13 2 24 6 40	6 4 9 1 9 6 65	12 5 10 1 9 4 59	4 4 8 1 8 7 68	12 8 12 2 11 7 48	13 7 10 1 11 5 53	11 9 13 2 12 8 45	8 5 8 2 13 5 59	12 7 10 3 13 2 53	6 4 7 2 12 6 63
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Social work graduate education: No work in graduate school of social work. Less than 1 year. 1 year. More than 1, but less than 2 years. 2 or more years.	60 13 5 6 16	66 11 4 5 14	57 14 6 6 17	66 12 5 4 13	73 10 4 3 10	62 13 6 5 14	38 16 6 10 30	56 13 5 6 20	32 16 7 11 34	59 14 5 6 16	59 13 5 6 17	57 15 6 7 15	47 12 7 8 26	59 12 5 4 20	41 12 8 10 29
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

¹ Includes teaching, research, consultation, other supervision, etc. ² Includes all types of graduate work.

tion; 2 out of 5 workers in family service other than public assistance and in welfare work with children, except institutional and court work, reported 1 year or more of graduate social-work education. Over half of the social workers in all other programs reported no graduate social-work education.

About two-thirds of the supervisors but only 2 out of 5 case workers reported graduate work. Roughly half the executives and three-fifths of the teachers and researchers had some graduate training.

Experience in Social Work

More than 5 years of social-work experience was reported by 3 out of 5 social workers, and 4 out of 5 had more than 2 years' experience. Among social-work programs, the most professional experience was reported for teaching, also the highest-paid program. Three-quarters of the teachers had 10 or more years' experience. Community organization is the next to the highest-paid program and also accounted for next to the greatest amount of professional social-work experience. Between 55 and 70 percent of the workers in all other social-work programs reported 5 or more years' experience.

Workers' Attitude Toward Jobs

The suggestion that social workers are partially compensated by the opportunity to perform a humanitarian function, and the apparent conclusion that they should, therefore, not be too concerned with salary may be discounted by the comments submitted with the questionnaires. One reply, typical of many, stated: "Social work . . . is the most overrated and underpaid 'profession' in the job category. If social work is to take on the same aura as medicine and law, etc., commensurate pay scales should be considered."

Another queried: "Social work is often poorly paid, and takes long hours. It is very interesting and has the humanitarian aspect, but with no raises and poor administration; is it worth it?"

Still another indicated the need to find his financial security outside the field of social work. He stated: "Social work and its ramifications has been a lifetime hobby. Since social workers are underpaid by a poorly reasoning society my insurance has been the study of law and business." Several respondents indicated that they actually planned to leave the field of social work for financial reasons.

Replies consistently indicated the belief that educational and experience standards for social work positions were out of line with the salary scale. One parole officer pointed out that a specific qualification for his job was a degree from a graduate school of social work but that an applicant without even a high-school diploma could start as a correctional officer with a salary \$25 in excess of the probation officer's starting pay.

A respondent with a Ph. D. in social work reported that he made "almost the same amount teaching in college part time evenings and summers as I do per year in social work—i. e., social work pays about \$1.81 per hour. Teaching \$4-\$6 per hour..."

Many case or group workers expressed concern about the lack of advancement possibilities in social work.

—MAXINE G. STEWART Division of Wage Statistics

¹ Including social insurance and related programs, this figure would total \$12 billion. Estimates are from a forthcoming study by E. V. Hollis and Alice L. Taylor titled Social Work Education Looks Ahead scheduled to be published by the Columbia University Press in September 1951.

² Average salaries used throughout this report are medians; in other words, half the workers received more and half received less than the amounts specified.

² A social worker was defined for survey purposes as any full-time worker in a social-work position, whether professionally trained or not, and whether publicly or privately employed. The Bureau estimates that over 60 percent of the social workers are employed by State, county, or other local governments, about 35 percent by private agencies, and less than 3 percent by the Federal Government. Data were collected in the course of the survey for case or group workers who provide direct service to individuals, families, or groups; supervisors of case or group workers; social workers with executive responsibility, such as administrators, assistant administrators, executives, and directors; and other workers who are engaged in teaching, research, consultation, and supervision not related to case or group work.

About 51,000 responded to the survey questionnaire mailed out the spring of 1950. All the approximately 34,000 social workers in State public assistance and child welfare agencies participated in the study. Of the estimated 40,000 in other agencies, roughly 50 percent received the questionnaire and over 17,000 responded.

In tabulating the information, each group was given only its proportionate weight.

Summaries of Studies and Reports

Hosiery Manufacture: Earnings in October 1950 1

Full-Fashioned Hosiery

KNITTERS, single-unit or backrack, were the highest paid among the selected occupations studied in October 1950 in full-fashioned hosiery mills. Workers in this occupation averaged more than \$2 an hour in each area—\$2.45 in Reading (Pa.); \$2.25 in Charlotte (N. C.); \$2.23 in Philadelphia; \$2.18 in Hickory-Statesville (N. C.); and \$2.11 in Winston-Salem-High Point (N. C.). Among the classes of knitters shown separately, however, knitters of 42- and 45-gauge hosiery averaged less than \$2 an hour in each area. (See table 1.) Knitters of 60-gauge hosiery in the three areas for which data could be presented, had earnings averaging from 10 to 22 cents above the corresponding averages for all knitters combined.

Adjusters and fixers of knitting machines with 4 or more years' experience, were also among the higher paid occupations. Their earnings averaged \$1.96 in full-fashioned hosiery mills in Hickory-Statesville and more than \$2 an hour in each of the other areas.

Seamers, an occupation in which large numbers of women are employed, had average earnings ranging from \$1.22 in Hickory-Statesville to \$1.42 in Reading. Folding and boxing operations were generally among the lowest paid of the fullfashioned hosiery occupations studied, with area averages for women ranging from \$1.01 to \$1.18 an hour.

Reading usually had the highest average hourly earnings in the nine occupations for which comparisons could be made in all five areas; Hickory-Statesville had the lowest in a majority of in-The differences between the highest and lowest area averages ranged from 18 to 44 cents an hour. Most occupational averages in Reading were from 5 to 25 cents an hour higher than those in Philadelphia.

The gauge of hosiery produced in the mills studied ranged from 42 to 60. The majority of the knitters in each area, however, were knitting 51- to 60-gauge hosiery during the period studied. The number of sections per machine also differed, generally ranging from 24 to 32. In four of the five areas a majority of the knitters operated machines with 30 or 32 sections; in Philadelphia about a third were in that category at the time of the study.

Table 1.—Straight-time average hourly earnings for selected occupations in the full-fashioned hosiery industry, selected areas, October 1950

Occupation and sex	Charlotte, N. C.	Hick- ory- States- ville, N. C.	Philadel- phia, Pa.	Read- ing, Pa.	Winston- Salem- High Point, N. C.
Plant occupations					
Adjusters and fixers, knitting machines (4 or more years' experience) (men) Boarders (men and women)	1. 37 1. 41 (2) (2) 1. 14 1. 14 2. 25 (2) (2) 1. 87 (2) 2. 23 2. 24	\$1. 96 1. 21 1. 23 1. 21 (2) 1. 05 1. 14 2. 18 (2) 1. 60 (2) 2. 17 (2) 2. 33 (2) (2)	\$2. 11 1. 47 1. 45 1. 48 1. 01 1. 11 (2) 1. 07 2. 23 1. 86 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	\$2. 12 1. 65 (2) (2) (2) 1. 02 (2) 1. 34 2. 45 1. 98 1. 97 (2) 2. 06 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	\$2. 08 1. 46 1. 51 1. 44 (2) (2) 1. 18 1. 24 2. 11 (2) 1. 92 (2) 1. 90 (2) 2. 31 2. 16 2. 26 2. 26
experience) (women) Menders, hand (women) Finish Grey Palrers (women) Preboarders (men and women) Men Women Seamers (women) Office occupations—Women	1. 32 1. 33 1. 56	1. 16 1. 29 1. 29 1. 30 1. 10 1. 34 (2) (2) 1. 22	1. 29 1. 28 1. 34 1. 23 1. 21 1. 42 1. 50 1. 36 1. 30	1. 40 1. 46 1. 44 1. 47 1. 27 1. 66 (2) (2) 1. 42	1. 40 1. 31 1. 31 1. 30 1. 14 1. 32 1. 48 1. 21 1. 24
Clerks, payroll		(2) (2) (2)	1. 03 1. 00 1. 17	1. 10 . 97 1. 16	1. 09 (2) 1. 09

¹ Excludes premium pay for overtime and night work. ² Insufficient data to permit presentation of an average. ³ Workers performing a combination job of folding and boxing. ⁴ Includes data for workers not shown separately.

Seamless Hosiery

Adjusters and fixers of knitting machines in the Winston-Salem-High Point (N. C.) area in October 1950 averaged \$1.55 an hour in men's seamless hosiery mills and \$1.49 in mills producing children's hosiery (table 2). In the other areas studied, the average hourly earnings of this group were \$1.41 and \$1.38, respectively, in men's hosiery mills in Hickory-Statesville (N. C.) and Reading (Pa), and \$1.28 in children's hosiery mills in Chattanooga (Tenn.). Area averages for men boarders (other than automatic) ranged from 88 cents to \$1.23 an hour.

⁶ Among the selected women's occupations, average earnings ranged from 80 cents for hand menders in Hickory-Statesville to \$1.14 an hour for string knitters in men's seamless hosiery mills in Winston-Salem-High Point. About four-fifths of the area averages for women's occupations were between 80 cents and \$1 an hour. Toe loopers, numerically the most important seamless

Table 2.—Straight-time average hourly earnings 1 for selected occupations in the seamless hosiery industry, selected areas, October 1950

	M	en's ho	siery	Childre	n's hosiery
Occupation and sex	Hick- ory- States- ville, N. C.	Read- ing, Pa.	Winston- Salem- High Point, N. C.	Chatta- nooga, Tenn.	Winston- Salem- High Point, N. C.
Plant occupations—Men					
Adjusters and fixers, knitting machines (4 or more years' experience) Boarders, other than automatic. Knitters, automatic. Knitters, rib. Knitters, string.	\$1.41 .97 1.00 (²) (²)	\$1. 38 1. 23 (2) (2) (2) (2)	\$1. 55 1. 21 1. 15 (2) 1. 19	\$1. 28 . 88 (2) . 99 (2)	\$1.49 1.00 1.10 (2) 1.09
Plant occupations—Women					
Boarders, other than automatic	. 88 . 86 . 83	(2) (2) . 87	1. 09 (2) 1. 03	.90 (2) .92	. 93 (²)
Examiners, grey (inspectors, hosiery) Knitters, automatic Knitters, rib Knitters, string Knitters, transfer	. 85 . 92 (2) (2) (2) . 90	. 83 . 99 (2) (2) (2)	. 98 1. 10 (²) 1. 14 (²)	.84 (2) .92 (2) .96	1. 01 (2) (2) (2)
Loopers, toe (1 or more years' experience) Menders, hand Finish Grey Pairers	. 93 . 80 . 82 . 80 . 86	1. 02 . 85 . 85 . 85 . 86	1. 07 . 94 . 95 . 94 1. 03	. 95 . 89 . 94 . 86 . 96	1. 05 . 83 (2) (2) (2)
Office occupations—Women					
Clerks, payroll Clerk-typists Stenographers, general	1. 04 . 96 1. 04	. 84 . 85 (2)	1. 03 1. 01 1. 06	. 96 (2) (2)	(2) (2)

¹ Excludes premium pay for overtime and night work.

hosiery occupation studied, earned on the average, 93 cents, \$1.02, and \$1.07, respectively, in the three areas studied in the men's hosiery branch and 95 cents and \$1.05 in the two areas producing children's hosiery.

Virtually all area averages for men were from 5 to 12 cents an hour higher than for women in 4 occupations in which both were employed. In nearly all seamless hosiery occupations, for which comparisons of average earnings could be made among the areas studied, men's hosiery mills in Winston-Salem-High Point ranked highest.

A special study of men's seamless hosiery mills in the three areas showed that the immediate effects of the new 75-cent minimum wage established January 25, 1950, by amendment of the Fair Labor Standards Act were quite pronounced. The proportion of workers receiving less than 75 cents an hour in Hickory-Statesville dropped from 40 percent in October 1949 to 2 percent in March 1950; in Reading, from 31 to 3 percent; and in Winston-Salem-High Point, from 13 to 2 percent of all workers. The effects were even more evident when consideration is limited to women workers. In Hickory-Statesville, 51 percent of the women averaged less than 75 cents an hour in October 1949 as contrasted to 2 percent in March 1950; in Reading the respective percentages for the two periods were 38 and 2 and in Winston-Salem-High Point, 18 and 3.

The average hourly earnings of all workers in men's seamless hosiery mills in Hickory-Statesville increased from 83 cents in October 1949 to 90 cents in March 1950. In Reading, the corresponding averages were 88 cents and 94 cents and in Winston-Salem-High Point, \$1 and \$1.03. In October 1950, workers in these three areas averaged 93 cents, 99 cents, and \$1.09, respectively.

Related Wage Practices

A scheduled workweek of 40 hours was reported for virtually all establishments studied, except full-fashioned hosiery mills in Winston-Salem-High Point and seamless hosiery mills in Reading. In each of these areas about a fourth of the workers were employed in plants having work schedules longer than 40 hours, but not over 48 a week.

Second and third shifts were in operation in all areas; from 14 to 24 percent of the full-fashioned hosiery workers and 10 to 15 percent of those

Insufficient data to permit presentation of an average.
 Workers performing a combination job of folding and boxing.

employed in seamless hosiery mills in the various areas were working on second shifts. From 5 to 11 percent of the full-fashioned and 3 to 6 percent of the seamless hosiery workers were employed on third shift operations. Extra pay was provided for a majority of the second shift workers in only one full-fashioned and two seamless hosiery areas. Premium pay for third shift work was more prevalent.

Paid holidays, typically 5 days annually, were provided by full-fashioned hosiery mills employing most of the workers in Philadelphia and Reading, and about one of every nine workers in Winston-Salem-High Point. In the seamless hosiery branch, only one area reported any paid holidays for plant workers—about a fifth of the workers in Reading were in mills which granted 5 days.

Paid vacations of 1 week after a year's service were the usual practice in all five full-fashioned hosiery areas studied; in men's seamless hosiery mills in Reading and Winston-Salem-High Point; and in children's seamless hosiery plants in Chattanooga. A majority of the workers in seamless hosiery mills in the other areas studied were in plants which reported no provisions for paid vacations. Vacations were typically increased to 2 weeks after 5 years' service in full-fashioned hosiery mills in Charlotte, Philadelphia, and Reading and in men's seamless hosiery mills in Winston-Salem-High Point.

Insurance plans for which employers paid at least part of the cost were in effect in mills employing most full-fashioned hosiery workers in the areas studied. These plans included life insurance, hospitalization, and other health insurance. Such benefits were also available but to a much lesser extent in each seamless hosiery area. Retirement pensions were also provided in full-fashioned hosiery mills which employed a majority of the workers in Philadelphia and Reading. In the men's seamless hosiery branch, about a fifth of the workers in Reading and a fourth in Winston-Salem-High Point were in plants which had retirement pension plans.

—Fred W. Mohr Division of Wage Statistics

Wood–Furniture Manufacturing: Earnings in October 1950 ¹

Average earnings of wood-furniture workers rose from 3 to 12 cents an hour between September 1949 and October 1950 in 8 of 10 important manufacturing centers. Nearly three-fourths of the area averages for workers in selected plant occupations showed increases of 5 percent or more.

Increased earnings are largely attributed to general wage adjustments. The amendment to the Fair Labor Standards Act which provided for a 75-cent minimum rate as of January 25, 1950, was a minor factor in the upward movement of earnings. In September 1949, from 6 to 13 percent of wood-furniture workers in the 3 southern areas studied earned less than 75 cents an hour; in the other areas, the proportion was less than 3 percent. Los Angeles was the only area in which all wood-furniture workers had bourly earnings in excess of 75 cents in the 1949 period.

A supplemental study in the southern areas revealed that average earnings of all workers in Morganton-Lenoir (N. C.) did not change between September 1949 and March 1950; in both Martinsville (Va.) and Winston-Salem-High Point (N. C.), the difference amounted to 1 cent an hour. Less than 15 percent of the area averages for the selected plant occupations increased more than 2 cents during this period. The March 1950 data, of course, point up the fact that the immediate effect of the 75-cent minimum on the earnings of wood-furniture workers in the specified areas was slight.

Hourly Earnings

Average earnings of men in October 1950 ranged from 95 cents an hour in Martinsville (Va.) to \$1.42 in Los Angeles. (By area, from 82 to 97 percent of the plant workers in wood-furniture manufacturing were men.) Men had earnings levels exceeding \$1.00 an hour in all areas except the 3 in the South. In Winston-Salem-High Point (N. C.), they averaged 97 cents, and in Morganton-Lenoir (N. C.), \$1.00. Earnings of men did not differ by more than 5 cents an hour from the area averages of all workers combined.

Of men's selected occupations, sprayers ranked highest, earnings averaging at least \$1.40 an hour

¹ Data collected by field representatives under direction of the Bureau's regional wage analysts. More detailed information on wages and related practices in each of the selected areas is available on request.

The study included establishments employing 21 or more workers. In plants of this size in the areas studied, approximately 30,500 workers were employed in full-fashioned hosiery mills, 13,000 in men's seamless hosiery and 3,500 in children's seamless hosiery mills.

in 7 of the 10 areas. General-utility maintenance men and shaper operators (who set up their machines) were also among the top-paid groups. Average earnings of these workers ranged from \$1.14 to \$1.73 and from \$1.10 to \$1.70, respectively. Machine off-bearers were the lowest-paid men in all 10 areas studied and earned, on the average, from 83 cents to \$1.19 an hour.

Women in Jasper-Tell City (Ind.), had average earnings of \$1.43 an hour, the highest area level in October 1950 for either men or women. These workers were predominantly employed under incentive systems, and were engaged primarily on jobs requiring more than the average skill and experience of women furniture workers. The fact that very few were employed as machine off-bearers, one of the lowest-paid jobs, is illustrative of this particular situation. In the other areas studied, women averaged from 79 cents in Martins-ville to \$1.38 in Los Angeles.

Comparisons of earnings of men and women can be made in 2 of the selected occupations studied in October 1950. Average earnings of women machine off-bearers varied from 83 cents to \$1.24 an hour. These earnings were 2 cents and 11 cents higher than those of men in 2 areas and from 3 to 13 cents lower in 4 areas. Women hand sanders, who averaged from 84 cents to \$1.48 an hour, earned from 1 to 12 cents more than men in 4 of 9 areas. In the other 5 areas the earnings advantage of men ranged from 6 to over 20 cents.

In Los Angeles, the leading area in 6 of the selected occupations, earnings levels were more than \$1.40 an hour in 10 of the 13 plant occupations. Most jobs in Chicago, the second ranking area, were from 7 to over 15 cents an hour lower, on the average, than those in Los Angeles. Of the 3 southern areas, occupational averages were generally highest in Morganton-Lenoir, most frequently by amounts within a 4 to 10 cent range. Earnings of plant workers in most occupations were roughly on the same level in Martinsville and Winston-Salem-High Point.

Related Wage Practices

A scheduled workweek of 40 hours prevailed in Chicago, Jasper-Tell City (Ind.), Los Angeles, and Martinsville (Va.). The most common work schedules in the other 6 areas were equally divided between 45 and 50 hours a week. From 12 to 15

Straight-time average hourly earnings 1 for selected occupations in wood-furniture establishments in selected areas, October 1950

Occupation and sex	Chicago,	Fitch- burg- Gardner, Mass.	Grand Rapids, Mich.	James- town, N. Y.	Jasper- Tell City, Ind.	Los Angeles, Calif.	Martins- ville, Va.	Morgan- ton- Lenoir, N. C.	Rock- ford, Ill.	Winston- Salem- High Point, N. C.
All Plant Occupations All workers Men. Women	\$1.31 1.33 1.11	\$1. 14 1. 17 1. 02	\$1.30 1.34 1.08	\$1. 29 1. 32 1. 05	\$1. 27 1. 26 1. 43	\$1.42 1.42 1.38	\$0. 95 . 95 . 79	\$0. 99 1. 00 . 85	\$1. 26 1. 31 1. 06	\$0. 96 . 97 . 90
Selected Plant Occupations Assemblers, case goods Assemblers, chairs Cut-off saw operators Gluers, rough stock Maintenance men, general utility Off-bearers, machine Packers, furniture Rubbers, hand Sanders, belt Sanders, hand Shaper operators, hand, set-up and operate Sprayers	1. 40 1. 27 1. 52 1. 12 1. 29 1. 38 1. 49 1. 22	1. 21 1. 22 1. 08 1. 30 1. 30 . 96 1. 02 1. 27 1. 29 1. 30 1. 24	1. 46 1. 50 1. 39 1. 23 1. 45 1. 01 1. 26 1. 44 1. 46 1. 21 1. 48 1. 49	1. 52 (2) 1. 31 1. 21 1. 29 1. 05 1. 12 1. 57 1. 42 1. 39 1. 34 1. 65	1. 46 1. 30 1. 16 1. 25 1. 17 1. 14 1. 22 1. 53 1. 37 1. 36 1. 37 1. 41	1. 44 1. 44 1. 55 1. 43 1. 73 1. 19 1. 47 1. 42 1. 47 1. 26 1. 70 1. 64	1. 00 (2) (2) (2) . 93 1. 16 . 83 . 88 . 85 1. 109 . 85 1. 10	1. 04 1. 04 1. 19 1. 02 1. 19 . 85 . 92 2. 92 1. 10 . 94 1. 15 1. 07	1. 43 (2) 1. 29 1. 25 1. 29 1. 13 1. 20 1. 36 1. 48 1. 22 1. 56 1. 48	. 99 . 98 1. 03 . 92 1. 14 . 85 . 90 . 90 1. 00 . 88 8. 1. 11
Women: Off-bearers, machine Sanders, hand	. 99 1. 25	. 83 1. 02	1. 03 1. 02	. 97 1. 09	(2) 1. 48	(2) 1. 28	(2) (2)	(2) . 84	1. 24 1. 16	. 84
Selected Office Occupations Women: Bookkeepers, hand Clerk-typists Stenographers, general	1. 54 1. 11 1. 32	1. 16 . 84 1. 02	(2) 1. 06 1. 21	(2) . 89 1. 02	1. 25 . 88 . 99	1. 45 1. 12 1. 24	(2) . 98 1. 16	(2) (2) 1. 13	(2) (2) 1.18	1. 09 . 90 1. 02

¹ Excludes premium pay for overtime and night work.
² Insufficient data to permit presentation of an average.

percent of the men in Chicago, Jamestown (N. Y.), and Winston-Salem-High Point (N. C.) woodfurniture plants had workweeks longer than 50 hours. The hours of women plant workers were generally less than those of men in Fitchburg-Gardner (Mass.); Jamestown; Rockford (Ill.); and Winston-Salem-High Point.

Paid holidays were provided plant workers by establishments having about half or more of the total wood-furniture employment in 7 of the 10 areas studied. None of the plant workers in Martinsville and less than 10 percent in the 2 North Carolina areas received specified holidays with pay. Six paid holidays a year were most typical for plant workers in Chicago and Grand Rapids and from 3 to 5 days in most of the other areas. More liberal benefits were received by office workers in all areas; a large majority were granted either 5 or 6 days annually.

Paid vacations of 1 week after a year's service were common in all the areas studied. Most of the wood-furniture workers in Jamestown, however, were eligible for the 1-week vacation after 6 months of service. Two-week vacations after 5 years' service prevailed in most areas. The length of vacation for plant workers in Jamestown and Martinsville remained at 1 week, irrespective of

service. In the 2 North Carolina areas, plants employing nearly one-third and one-fourth of the wood-furniture workers, respectively, did not provide for vacation benefits.

Life insurance, group hospitalization, and other health insurance plans, for which employers paid part or all of the costs, were in effect in all areas studied. The coverage varied by area, generally ranging from about two-thirds to all of the industry employment, and by type of insurance. Retirement pension plans had not been widely adopted by the wood-furniture industry. In October 1950, such plans were reported by establishments in only 2 areas, Jasper-Tell City and Los Angeles; these establishments employed about 5 percent and 15 percent of the wood-furniture workers in their respective areas.

—CHARLES RUBENSTEIN
Division of Wage Statistics

Wage Chronology No. 14: Ford Motor Co., 1941-50

The first agreement between the Ford Motor Co. and the International Union, United Automobile, Aircraft & Agricultural Implement Workers of America (UAW-CIO) dealing with wage rates and related wage practices in the automotive plants of the company was negotiated in June 1941. The present chronology describes the major changes since that date. The provisions of the first agreement, as reported in this chronology, do not necessarily represent changes in prior conditions of employment.

The initial and subsequent agreements applied to all production and maintenance workers in the

company's numerous production and assembly plants and parts depots. The following were excluded: Superintendents, foremen, employees in the central staff and administrative offices, employees working exclusively for specified managerial offices, employees engaged in time studies and other industrial engineering work, plant protection and fire department employees, students in technical schools, professional employees and their assistants, farm employees, employees in marine operations, and cafeteria and dining-room employees.

The September 28, 1949, agreement, which was to continue in effect until April 1, 1952, was set aside on September 4, 1950, when a new agreement was signed. The present agreement, to continue without a reopening until June 1, 1955, covers approximately 112,000 workers.

¹ Data were collected by field representatives under the direction of the Bureau's regional wage analysts. More detailed information on wages and related practices in each of the selected areas is available on request.

The study included establishments employing 21 or more workers and manufacturing wood household furniture (except upholstered); wood cabinets for radios, television receivers, and sewing machines; and wood office furniture. Approximately 41,000 workers were employed in establishments of this size in the 10 areas studied.

A-General Wage Changes 1

Effective date	Provisions	Applications, exceptions, and other related matters
June 20, 1941 (by agreement of June 20, 1941).	Classification increases averaging approximately 19 cents an hour.	Contract provided that company pay rates "in the several classifications at least as high as those paid by the major competitor in its respective industry." ²
June 25, 1942 (by directive order of NWLB, Oct. 16,		10 cents an hour increase to skilled tool and die makers and pattern makers.
1942). June 25, 1942 (by directive order of NWLB, Oct. 24, 1942).		6 cents an hour increase to skilled machine repair men, machinists, millwrights, and electricians; maximum of rate spreads increased 5 cents for skilled and semi-skilled maintenance, powerhouse, and construction workers.
Jan. 5, 1946 (by agreement of	18 cents an hour increase	
Feb. 26, 1946). May 31, 1947 (by agreement of Aug. 21, 1947).	11½ cents an hour increase	Additional increase of 5 cents an hour to skilled maintenance workers, construction workers, jobbing molders in jobbing foundry, and coremakers.
July 16, 1948 (by agreement of	13 cents an hour increase	, ,
July 29, 1948). Sept. 1, 1950 (by agreement of Sept. 4, 1950).	8 cents an hour increase	Increase designated as cost-of-living allowance to be adjusted up or down every 3 months in accordance with changes in BLS Consumers' Price Index. Agreement also provided for increases of 4 cents an hour effective each June 1 from 1951 through 1954 as an "annual improvement factor."
*		Additional increases of 5 to 28 cents an hour to production foundry workers and specified skilled classifications.
		5-cent-an-hour bonus for hours worked at straight-time rate to employees on 40-hour rotating schedules on necessary continuous 7-day operations; not included
		in computing overtime, Sunday, holiday, afternoon, night, incentive, or vacation pay.
Dec. 4, 1950 ⁴ March 5, 1951 ⁵	3 cents an hour increase 5 cents an hour increase	Quarterly adjustment of cost-of-living allowance. Quarterly adjustment of cost-of-living allowance.

¹ General wage changes are construed as upward or downward adjustments affecting a substantial number of workers at one time. Not included within the term are adjustments in individual rates (promotions, merit increases, etc.) and minor adjustments in wage structure that do not have an immediate and noticeable effect on the average wage level.

The general changes listed in this chronology were the major changes affecting wage rates during the period covered. Because of omission of nongeneral changes in rates and other factors, the total of the general wage changes will not necessarily coincide with the movement of straight-time average hourly earnings.

² Industries specified were: auto, cement, glass, steel, and tires.
³ For details of cost-of-living provision, see Wage Chronology No. 9—
General Motors Corp., 1939-49, MONTHLY LABOR REVIEW, September 1949.
⁴ The parties agreed to add 1.3 points to the BLS Consumers' Price Index in computing the cost-of-living allowance to compensate for the understatement of the index's rent component. The increase from the 0.8 point adjustment previously used was made on the basis of a new and more precise estimate issued by BLS.
⁵ On Mar. 3, 1951, the parties agreed to reinstate the 0.8 adjustment in computing the cost-of-living allowance.

B—Hiring and Minimum Job Rates (Detroit Plants) 1

Effective date	Hiring rate	Minimum job rate	Effective date	Hiring rate	Minimum job rate
June 20, 1941 Jan. 5, 1946 May 31, 1947 July 16, 1948	\$0. 85 1. 03 1. 145 1. 275	\$0. 85 1. 03 1. 145 1. 275	Sept. 1, 1950 Dec. 4, 1950 Mar. 5, 1951	² 1. 355 ² 1. 385 ² 1. 435	² 1. 355 ² 1. 385 ² 1. 435

Applicable to lowest-paid classification.
 Includes cost-of-living allowance.

C—Related Wage Practices ¹

Effective date	Provisions	Applications, exceptions, and other related matters		
	Shift Premium Pay			
June 20, 1941 July 16, 1948	5 cents an hour premium pay for work on midnight and afternoon shifts. Increased to: 10 cents an hour for midnight shift and 7 cents an hour for afternoon shift.			
Sept. 28, 1949 Jan. 1, 1951	Increased to: 7½ percent of earnings, including overtime premium pay, for work on midnight shift and 5 percent for afternoon shift.	Shifts defined as follows: Midnight, startion or after 7 p.m. but before 5 a.m.; aftenoon, starting on or after 10:30 a.m. before 7 p.m.		
	Overtime Pay			
June 20, 1941	Time and one-half for work in excess of 8 hours a day or 40 a week.			
	Premium Pay for Saturday and Sund	ay Work		
June 20, 1941	Time and one-half for Saturday work in excess of 40 hours. Double time for work on Sunday.	Employees on 7-day continuous operations working on Saturdays and Sundays received time and one-half only for time worked in excess of 8 hours a day and 40		
Oct. 1, 1942 ² (by Executive Order 9240, Sept. 9, 1942)	Changed to: Time and one-half for work over 40 hours and double time for 7th day in any 7-day week.	a week. Applicable to all employees including those on 7-day continuous operations. Time lost due to voluntary absence for a ful day not counted for purpose of computing 7th day of work. Time lost due to involuntary absence for a full day counted for purpose of computing 7th day of works.		
Sept. 23, 1945 (by letter of agreement dated Sept. 11, 1945)	Changed back to: Time and one-half for Saturday work in excess of 40 hours. Double time for work on Sunday.	provided employee reported for work. Employees on 7-day continuous operation working on Saturdays and Sundays received time and one-half only for tin worked in excess of 8 hours a day and a week.		
	Holiday Pay			
June 20, 1941	Double time for work on 6 specified holidays. No payment for holidays not worked.	Holidays were: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas. Not applicable to employees on 7-day contin-		
Oct. 1, 1942 (by Executive Order 9240, Sept. 9,	Changed to: Time and one-half for work on holidays.	uous operations. Applicable to employees on 7-day continuous operations.		
1942) Sept. 23, 1945 (by letter of agreement dated Sept. 11, 1945). Jan. 5, 1946	Changed back to double time	Not applicable to employees on 7-day continuous operations who received no premium holiday pay. Employees on 7-day continuous operation		
		paid time and one-half for work on holidays.		
May 31, 1947	6 paid holidays established for which employees with seniority ³ receive 8 hours' straight-time pay. Double time (total) for holidays worked.	Applicable to employees on 7-day continuous operations.		

C—Related Wage Practices ¹—Continued

Effective date	Provisions	Applications, exceptions, and other related matters
	Paid Vacations	
June 20, 1941July 1, 1942 (by directive orders of NWLB, Oct. 16 and Nov. 20, 1942).	No provision for paid vacations. 1-week vacation with 40 hours' pay at basic rates for employees with 1 but less than 5 years on the payroll and at least 1 year's seniority status; 2 weeks', or 80 hours' pay, with 5 or more years on the payroll and seniority status.	Employees not having received their vacation by last day of vacation period received pay in lieu of vacation.
Dec. 1, 1946		Employees required to be on payroll for at least 32 weeks in preceding year eligible for full vacation benefits. Half benefits paid to employees with 16 to 32 weeks' employment.
Dec. 1, 1947	Changed to: 1 week, or 40 hours' pay, for employees with 1 but less than 3 years' enrollment; 1½ weeks', or 60 hours' pay, for employees with 3 but less than 5 years; 2 weeks, or 80 hours' pay, for employees with 5 or more years. Employees must have 1, 3, and 5 years of seniority status, respectively.	omproj meno.
Dec. 1, 1949		New vacation eligibility date of June 1 added. Former eligibility date was December 1.
Dec. 1, 1950	Added: 3 weeks', or 120 hours' pay, for employees with 15 or more years on the payroll and seniority status.	
	Reporting Time	
June 20, 1941	Minimum of 2 hours' pay guaranteed to employees called to work or not properly notified of lack of work.	Reporting time not paid for in case of labor dispute or other conditions beyond management's control. Guarantee to include night or overtime premium when appli-
Oct. 16, 1942 (by directive order of NWLB, Oct. 16, 1942).	Reporting time increased to 4 hours	cable.
	Insurance Benefits	
June 20, 1941	Participation in purchase of life, sickness, accident, hospitalization, and surgical insurance. Major part of cost borne by employee.	Not covered by union agreement.
Dec. 1, 1948 (by agreement of July 29, 1948). Jan. 1, 1950 (by agreement of Sept. 28, 1949).	Revised and expanded plan made available. Part of cost borne by company. Added: In-hospital medical benefits—maximum of \$4 a day up to 70 days. Cost borne by company.	Covered for first time by union agreement.
Jan. 1, 1951 (by agreement of Sept. 4, 1950).	Revised program made available at no additional cost to employees. Plan increased maximum life insurance and accidental death and dismemberment benefits. Weekly accident and sickness benefits increases ranged from \$5 to \$9 a week and new maximum benefits established.	
	Added: Company to pay one-half of Blue Cross and Blue Shield benefits for subscriber and eligible dependents. Company's contribution not to exceed one-half cost of similar coverage under Michigan plans.	

C—Related Wage Practices ¹—Continued

Effective date	Provisions	Applications, exceptions, and other related matters
	Insurance Benefits—Continued	
	Added: Retired group-insurance participants provided with company-paid life insurance of \$1,000 for 30 or more years' service, \$750 for 20 and under 30 years', and \$500 for 10 and under 20 years'.	

Retirement Benefits

June 20, 1941_____ Mar. 1, 1950 (by memorandum of agreement dated Sept. 28, 1949, implemented and superseded by agreement of Mar. 16, 1950).

No provision for retirement benefits_ Noncontributory retirement plan established to provide normal retirement benefits of \$100 a month, including primary old-age benefits under Federal Social Security Act, to employees retiring at age 65 or older with 30 years' credited service. Employees aged 65 or older with less than 30 years' credited service to receive pensions equal to same proportion of \$100 as years of credited service bear to 30. Early retirement at reduced benefits for employees aged 60 to 65 with 30 years' credited service.

Disability retirement benefits of \$50 a month, less any statutory disability benefits, to totally and permanently disabled employees aged 55 to 65 with 30 years' service.

Oct. 1, 1950 (by agreement

Entire cost borne by company.

Revised to: Normal retirement benefits after 30 years' service increased to \$125, including primary old-age benefits under Federal Social Security Act. Propor-tionately reduced benefits for employees with less than 30 years' service.

Total and permanent disability benefits changed to \$3 a month for each year of credited service up to 30 years, with a minimum of \$50 less any statutory disability benefits, for totally and permanently disabled employees aged 50 to 65 with at least 15 years' credited service. Joint Board of Administration composed of 3 company and 3 union representatives and an impartial chairman to administer benefit structure of plan. Effective April 1, 1952 retirement to be automatic at age 68 with no future service credited after age 65. Retirement at 60 requires consent of company. Company may retire employees at age 65 on own initiative by reason of employee's inability to work efficiently.

Future service creditable to age 68.

of Sept. 4, 1950).

¹ Last entry under each item represents most recent change.

Period covered by Executive Order 9240 was Oct. 1, 1942, to Aug. 21, 1945.

³ Under Aug. 21, 1947, agreement, employees established seniority after probationary period of 6 months' continuous employment. Probationary period was reduced to 3 months' continuous employment by Sept. 28, 1949, agreement, but holiday plan was amended to require employees to have seniority status and 6 months' service as of date of holiday to be eligible for holiday pay. Under Sept. 4, 1950, agreement, 6 months' service requirement was eliminated.

⁴ Plan provided: \$1,500 life insurance, \$15 weekly accident and sickness benefits, \$5 daily hospital expenses, \$30 maximum benefits for special hospital services, and \$150 maximum surgical expenses. Monthly cost to employee was \$2 and was increased to \$2.90 on Mar. 1, 1942, without change in

⁸ Plan provided: \$2,000-\$4,000 life insurance, \$1,000-\$2,000 accidental death and dismembership benefits, and \$18-\$30 weekly accident and sickness disability benefits for 26 weeks. Monthly cost ranged from \$1.72 for employees earning under \$1.10 an hour to \$3.44 for employees earning under \$1.10 an hour to \$3.44 for employees earning statement of the sta able at employee's expense.

Note: For purpose and scope of wage chronology series, see Monthly Labor Review, December 1948. Reprints of this chronology are available upon request.

6 Plan provided:

		Ben	nefits		
Basic hourly rate	Life insurance	Accidental death and dismemberment	Weekly acciden- tal and sickness disability (up to 26 weeks)	In-hos- pital medical expenses (maxi- mum)	Monthly cost to employee*
Up to but less than \$1.30 \$1.30 but less	\$2,400	\$1,200	\$30.60	\$280	\$2.07
than \$1.50 \$1.50 but less	2,800	1, 400	33. 20	280	2. 41
than \$1.70 but less	3, 200	1,600	35, 80	280	2. 76
than \$1.90 \$1.90 but less	3,600	1,800	38. 40	280	3. 10
than \$2.10 \$2.10 and over	4,000 4,400	2,000 2,200	41.00 43.60	280 280	3. 44 3. 79

*Company pays balance.

-Albert A. Belman Division of Wage Statistics.

Wage Chronology No. 9: General Motors Corp.¹

Supplement No. 1

Wage-adjustment arrangements contained in the May 1948 agreement between the General Motors Corp. and the UAW-CIO were extended for another 5 years by the May 1950 contract, negotiated a few days prior to the expiration of the 1948 agreement. The annual increase in wage rates, identified as a standard-of-living improvement factor, was raised by 1 cent an hour to 4 cents, effective on May 29, 1950, and on May 29

of each year thereafter. Provisions relating to quarterly adjustments of the cost-of-living allowance were carried forward without change (see basic chronology). A new pension plan financed by the company was established and the benefits under the contributory insurance plan already in effect were increased. The 5-year agreement contains no provision for reopening on wages or other matters.

The basic chronology covering the period from 1939 to September 1949 is brought up to date by the following additions. Each quarterly review of the cost-of-living allowance is listed.

A—General Wage Changes

Effective date	Provision	Application, exceptions, and other related matters
Dec. 1949 Mar. 6, 1950	No change2 cents an hour decrease	Quarterly cost-of-living review. Quarterly adjustment of cost-of-living allowance, reducing allow-
Wai. 0, 1990	2 cents an nour decrease.	ance to 3 cents an hour.
May 29, 1950	4 cents an hour increase	Annual improvement factor applied to base rate of each wage classification.
		Additional 5 cents an hour to skilled employees in maintenance tool and die, pattern, and engineering departments.
June 1950	No change	Quarterly cost-of-living review.
Sept. 5, 1950	5 cents an hour increase	Quarterly adjustment of cost-of-living allowance, increasing allowance to 8 cents an hour.
Dec. 4, 1950 1 March 5, 1951 2	3 cents an hour increase 5 cents an hour increase	Quarterly adjustment of cost-of-living allowance. Quarterly adjustment of cost-of-living allowance.

¹ Parties agreed to add 1.3 points to the BLS Consumers' Price Index in computing the cost-of-living allowance to compensate for the understatement of the index's rent component. The increase in the previous 0.8 point ad-

B-Hiring and Minimum Job Rates (Automobile Plants in Michigan) 1

Effective date	Hiring rate 2	Minimum job	Effective date	Hiring rate 2	Minimum job rate ²
Mar. 6, 1950 May 29, 1950 Sept. 5, 1950	\$1. 21 1. 25 1. 30	\$1. 31 1. 35 1. 40	Dec. 4, 1950 Mar. 5, 1951	\$1. 33 1. 38	\$1. 43 1. 48

¹ Applicable to the lowest-paid classification in all General Motors plants in Detroit and in the company's automobile manufacturing plants elsewhere in Michigan.

C-Related Wage Practices

Effective date	Provisions	Applications, exceptions, and other related matters
	Shift Premium Pay	
May 29, 1950		Third-shift premium pay applicable to regular shift scheduled to start between 10:00 p. m. and 4:45 a. m. and to special shifts for which half or more of scheduled hours are between 12 midnight and 8:45 a. m.

¹ See Wage Chronology No. 9—General Motors Corp., 1939–49, Monthly Labor Review, September 1949.

justment was made on the basis of a new estimate made by BLS.

² On Mar. 3, 1951, the parties agreed to reinstate the 0.8 adjustment in computing the cost-of-living allowance.

² Includes cost-of-living allowance.

C—Related Wage Practices—Continued

Effective date	Provisions	Applications, exceptions, and other related matters
	Pay in Lieu of Vacation	
May 29, 1950	Added: 120 hours' straight-time pay for employees with 15 or more years' seniority.	Two eligibility dates, June 30 and December 31, established on which employees may qualify for vacation pay. Previously, there was one eligibility date.
	Group Insurance Plan	
Sept. 1, 1950	Contributory insurance plan amended to provide, at no extra cost to employees, additional \$500 in life insurance, \$250 in accidental death insurance, \$14 a week in sickness and accident benefits, \$10 a month in total disability benefits, and establishment of in-hospital doctor attendance benefits up to \$5 a day for maximum of 70 days.¹ Added: Hospitalization and surgical benefits—company to contribute half the cost of Blue Cross and Blue Shield hospitalization and surgical insurance, up to level of Michigan plans, for employees and dependents.	
	Pension Plan	
Oct. 1, 1950	Noncontributory retirement plan established to provide pensions to employees retiring at 65 or older with at least 10 years' service. Company pension—\$1.50 a month for each year of service up to 30 years, to be supplemented by Federal Social Security benefits. Minimum pension including Social Security benefits: \$4 a month for each year of service up to 25 years. Reduced annuities for retirement between 60 and 65. Disability retirement: For employees totally disabled at age 50 or older with 15 or more years' service—\$3 a month for each year of service up to 30, with \$50 minimum, including statutory disability benefits. Regular pension upon reaching 65. Entire cost borne by company.	Joint board of administration composed of three company and three union representatives and an impartial chairman to administer the benefit structure of plan. Effective Jan. 1, 1952, retirement automatic at age 68 except at company's option.

¹ Revised schedule of benefits:

	Benefits							
	Before age 65		Before age 60	Before retirement		Continuing life insurance after 65		Employee's
Base hourly rate	Life insurance	Accidental death insurance	Monthly disability (up to 50 weeks)	Weekly sickness and accident (up to 26 weeks)†	In hospital attendance	From minimum with 10 years in plan	To maximum with 20 years in plan	contribution (weekly)*
Under \$1.13 \$1.13 and under \$1.38. \$1.38 and under \$1.63. \$1.63 and under \$1.82. \$1.82 and under \$2.13. \$2.13 and over.	\$2,500 3,000 3,500 4,000 4,500 5,000	\$1, 250 1, 500 1, 750 2, 000 2, 250 2, 500	\$50 60 70 80 90 100	\$28.00 31.50 35.00 38.50 42.00 45.50	Up to \$5 a day for maximum of 70 days	\$500 500 500 525 600 675	\$600 750 900 1,050 1,200 1,350	\$0.40 .50 .60 .70 .80

^{*}Company pays balance of costs. †Sickness and accident benefits begin on 1st day of accident and 8th day of sickness except in hospital cases. 6 weeks' maternity benefits allowed.

Wage Chronology No. 5: Chrysler Corp.¹

Supplement No. 1

The May 1948 agreement between the Chrysler Corp. and the United Automobile, Aircraft and Agricultural Implement Workers of America (UAW-CIO), which was to run to August 1, 1950, was reopened for wage discussions in June 1949. Negotiations conducted intermittently over a long period were broadened to include pension and insurance plans. Following a 100-day strike a settlement was reached on May 4, 1950.

The 1950 contract replacing the May 1948 agreement had a 3-year term. On August 25, 1950, without a formal wage reopening and without modifying the terms of the contract, agreement on a general wage increase was reached by the parties. On December 11, 1950, the parties set aside the 3-year agreement and negotiated a 5-year contract without reopening provisions.

The changes provided by the May 1950 agreement, by the company's action less than 4 months later, and by the December 11, 1950, contract are described in the following tabulation that brings the 1939–48 wage chronology up to date.

A—General Wage Changes

Effective date	Provisions	Applications, exceptions, and other related matters
May 8, 1950 (by agreement of May 4, 1950).		Wage increases or provisions for automatic progression affecting employees in 45 job classifications. 3 cents an hour increase to all employees in plants at Kokomo, New Castle, and Evansville, Ind.
Aug. 28, 1950 (by company	10 cents an hour increase	Additional increase of 5 cents an hour to skilled workers.
action of Aug. 25, 1950). Dec. 18, 1950 (by agreement of Dec. 11, 1950).	1 cent an hour increase	Plus previous 10-cent increase designated as cost-of-living allowance, which may be adjusted up or down every 3 months in accordance with changes in BLS Consumers' Price Index.¹ Agreement also provided for increases of 4 cents an hour effective each June 1 from 1951 through 1954 as an "annual improvement factor." Additional adjustments in classification to employees on 7-day operations, pattern makers on foundry work, and die dummy builders.
March 5, 1951 2	5 cents an hour increase	Quarterly adjustment of cost-of- living allowance.

¹ For details of cost-of-living provision, see Wage Chronology No. 9, General Motors Corp., 1939-49, Monthly Labor Review, September 1949. In addition the parties agreed to add a 1.3 point adjustment to the BLS Consumers' Price Index in computing the cost-of-living allowance to compensate for the

B—Hiring and Minimum Job Rates (Detroit Plants) 1

Effective date	Hiring rate	Minimum job rate
Aug. 28, 1950	\$1. 35	\$1. 45.
Dec. 18, 1950	\$1. 36 ²	\$1. 46. ²
Mar. 5, 1951	\$1. 41 ²	\$1. 51. ²

¹ Applicable to lowest paid classification.

¹ See Wage Chronology No. 5—Chrysler Corp., 1939-48, Monthly Labor Review, April 1949.

understatement of the index's rent component. 2 On Mar. 3, 1951, the parties agreed to reinstate the 0.8 adjustment in computing the cost-of-living allowance.

² Including cost-of-living allowance.

	C—Related Wage Practices	
Effective date	Provisions	Applications, exceptions, and other related matters
	Pay in Lieu of Vacation	
May 4, 1950	Vacation pay to workers with 3 but less than 5 years' seniority status on May 1, 1950, increased to \$93.30. Changed to: 40 hours' pay to employees with 1 but less than 3 years' seniority status, 60 hours' pay for 3 but less than 5 years', 80 hours' pay for 5 but less than 15 years', and 120 hours' pay for 15 or more years.	Vacation pay not to be less than pay received in 1950 unless employee lost his seniority since receiving 1950 payment.
	Accident, Sickness, and Death Benefits	
Aug. 1, 1950 (by agreement of May 4, 1950). Mar. 1, 1951 (by agreement of Dec. 11, 1950).	Jointly-financed plan established providing following benefits: Life insurance: \$3,600 insurance before retirement. Paid-up insurance after retirement—\$1,000 for workers with 25 years' service, \$750 for workers with 20 but less than 25 years' service, \$500 for workers with 15 but less than 20 years' service. Employee contributes 45 cents a month for each \$1,000 coverage; company pays balance of costs. Sickness and accident benefits: \$28 a week for 26 weeks beginning on 1st day of accident and 4th day of illness. Six weeks' maternity benefits. Employee contributes \$1.26 a month (45 cents per \$10 of weekly benefits); company pays balance of costs. Hospitalization and medical-surgical benefits: Standard schedule of Blue Cross and Blue Shield plans. Company contributes \$1.05 a month for hospitalization and 45 cents for surgical and in-hospital medical benefits; employee contributes balance of costs. Changed to: Life insurance after retirement—length of service requirement for \$500 policy reduced to 10 years. Sickness and accident benefits—\$32 a week for 26 weeks. Employee contribution changed to \$1.28 a month (40 cents per \$10 of weekly benefits). Hospitalization and medical-surgical benefits: Company to contribute half the cost under Blue Cross and Blue Shield plans, up to level of Michigan plans, for employees and dependents.	Permanently disabled insured workers not eligible for disability retirement receive face value of insurance policy in installments of not less than \$50 a month.
	Retirement Benefits	
Aug. 1, 1950 (by agreement of May 4, 1950).	Noncontributory pensions: \$100 a month, including old-age benefits under Federal Social Security Act, to employees retiring at age 65 or older with 25 years' service. Employees aged 65 with 10 but less than 25 years' service to receive pensions equal to same proportion of \$100 as years of service bear to 25. Employees aged 60 but under 65 with 25 years' service to receive reduced pensions. Disability retirement: \$50 a month, including public disability retirements, to employees suffering total and permanent disability at age 55 or over after 25 years' service. Entire cost borne by company.	Joint board of administration composed of 3 company and 3 union representatives and an impartial chairman to administer benefit structure of the plan. Effective Jan. 1, 1922, retirement to be automatic at age 68 except at company's option. Employees retiring before reaching 65 must obtain consent of company.

C-Related Wage Practices-Continued

Effective date	Provisions	Applications, exceptions, and other related matters
	Retirement Benefits—Continued	
Mar. 1, 1951 (by agreement of Dec. 11, 1950).	Changed to: Pension of employees retiring at or after 65 with 10 or more years' service to be greater of: (1) \$1.50 a month for each year of credited service up to 30 years, not including Federal Social Security benefits, or (2) \$4 a month for each year of credited service up to 25 years, including primary benefits under Federal Social Security Act. Employees aged 60 but under 65 with 15 years' service to receive reduced benefits. Disability retirement: \$3 a month for each year of credited service up to 30 years, or \$50 a month, including in either case statutory disability benefits, to employees totally disabled after age 55 and before 65 with 15 years' service.	

General Wage Regulations 6–10 and Ceiling Price Regulations 2–7¹

The Wage Stabilization Board formulated a new wage policy, and the Office of Price Stabilization issued several regulations liberalizing the general price freeze, during February and early March 1951. In line with these, certain policies for permitting exceptions from general wage-price stabilization under the Federal program were adopted.

Wage Regulations

The Economic Stabilization Administrator on February 27, 1951, approved General Regulation 6 (General Wage Formula), exactly as adopted by the public and industry members of the WSB. It permits increases in wage and salary levels up to 10 percent over January 15, 1950, levels. Labor members of the Board withdrew from active participation on February 16, in protest against the new wage formula, but prior to their withdrawal, the WSB unanimously approved General

Regulation 7, on February 15, permitting religious, charitable, and educational institutions, which are exempt from Federal income taxes, to make wage adjustments without prior approval of the Board.

The new regulation (GR 6) replaces the general over-all wage freeze as outlined in General Wage Stabilization Regulation 1, of January 26, 1951,² and provides opportunity for adjustments of wages and salaries by permitting increases in the general level of wages and salaries up to 10 percent above the base period of January 15, 1950, without further Board approval. Wage and salary levels since the base period "include time and incentive earnings, commission rates, and actual or prorated sums of any regularly paid bonuses and night shift differentials, but exclude overtime premium payments, employer contributions to or payments of insurance or welfare benefits, employers contributions to pension funds or annuities, and other like allowances." In figuring increases between January 15, 1950, and the effective date of GR 6, overtime premium payments and other "fringe" benefits are excluded if secured between those dates, but any such allowances granted in the

future must come within the 10 percent total. The 10 percent formula is effective until July 1, 1951 and prior to that time "shall be reviewed in the light of" the April 1951 Consumers' Price Index of the Bureau of Labor Statistics.

Coincident with his approval, the Economic Stabilization Administrator requested the WSB to prepare the following modifications to General Regulation 6: (1) Continuation of all existing escalator clauses to June 30, 1951, even though general increases then under way amount to more than 10 percent; (2) provision for productivity increases, now in effect, to operate until June 30, 1951; (3) exclusion of certain employer contributions for health, welfare, and pension plans from the 10 percent formula; (4) provision for special adjustments for "hardship" and "inequity" cases; (5) provision to cover wage schedules in new plants; (6) exemption of some industries from wage control; and (7) authorization of "tandem" adjustments for unorganized workers.

Orders on three of the suggested modifications were issued by the Economic Stabilization Administrator. Cost-of-living increases, provided by escalator clauses and wage and salary plans, executed or formally determined and communicated to employees on or before January 25, 1951, were permitted to be operative, without Board approval, even though general increases then under way amount to more than 10%, by General Regulation 8 of March 1 and Amendment 1 to the regulation dated March 8, 1951. However, any increases in wages agreed upon or formally determined and communicated to employees after January 25, 1951, together with cost-of-living increases, shall not exceed the 10% formula as outlined in General Regulation 6. It further permits approval of escalator clauses that are based on recognized indices other than the Bureau of Labor Statistics. The regulation was issued after consultation with industry and labor representatives, the Administrator stated, and after consideration had been given to their recommendations. The regulation as amended, is retroactive to March 1, 1951, and shall terminate June 30, 1951.

Wage schedules for new plants were outlined in General Regulation 9 issued March 8, 1951. The term "new plant" is defined as a "plant, enterprise, or other employment unit, which on January 25, 1951, had not commenced the production of the materials or services for which it is established or converted." In general, wages shall be based on rates in existing plants of the same employer or on comparable jobs in a comparable industry in the same local market area, or most nearly comparable labor market area. Wage rates for new plants that are scheduled for operation on or prior to April 15, 1951, do not require initial Board approval, but are subject to later review. However, in plants scheduled for operation after April 15, all wage schedules must be reported and approved before becoming effective. In formulating this regulation the Administrator stated that "it has been impracticable to consult formally with industry and labor representatives."

Tandem wage adjustments that were in process preceding the general over-all wage freeze of January 26, 1951, were authorized by General Regulation 10, issued on March 8, 1951, if employers concerned can demonstrate they contemplated such a move by February 9, 1951. A "tandem" relationship is defined as a well-established and consistently maintained practice, where the timing, amount and nature of wage increases of a certain unit have so followed those of another unit of employees of the same employer or other employers in the same industry and the same market area, that an increase would have been in effect and applicable to work performed on or before February 9, 1951, but for the over-all general wage freeze. The regulation is effective until June 30, 1951. In formulation of this regulation, the Administrator stated that "formal consultation with industry and labor representatives has been impracticable and unnecessary."

Price Regulations

Recent series of ceiling price regulations issued by the Office of Price Stabilization, amended the over-all price stabilization as outlined in General Ceiling Price Regulation of January 26, 1951.² In general, these regulations have covered price control of individual items, such as cattle hides, kips, calfskins, coal, anthracite, iron and steel scrap, and fats and oils, at different market levels. (Ceiling Price Regulations 2 through 6).

A different type of price control (mark-up method) for "a large segment of retail trade, covering a substantial share of the sales of department, apparel, furniture, mail order, and general

merchandise stores," was provided in Ceiling Price Regulation 7, effective February 27, 1951. The regulation fixes ceiling prices for sales by retailers of a wide range of consumer goods, such as clothing, shoes, household textile commodities, yard goods, and furniture, rugs and lamps. The OPS estimates that "as many as 200,000 firms are engaged in the sale at retail of commodities covered by this regulation."

The retailer's ceiling price for each article will be, in general, the price he charged on February 24, 1951. However, the regulation provides methods for adjustments, based on the retailer's average mark-up, if the cost of goods he buys for resale has gone up or down since February 24, 1951. Other retail commodities will be covered by subsequent orders.

Ceiling prices for new passenger automobiles, established by Ceiling Price Regulation 1,² of the OPS, were increased 3½ percent, by Amendment 1 (effective March 2, 1951) to that regulation.

² For discussion, see Monthly Labor Review for March 1951 (p. 282).

Employers' Military-Leave Policies: Effect on Benefit Plans, Fall 1950

Time spent in military service is to be credited toward service for pensions in at least three-fourths of the companies having such plans, according to recent surveys of the Bureau of National Affairs and the National Industrial Conference Board, respectively. Most group-insurance policies, especially life insurance, are likely to be canceled within 6 months after the employee's departure for service. However, employers will support, in varying degree, the servicemen's Government life insurance in a limited number of cases. On the other hand, payment for unused but earned vacations is currently the general rule.²

Although the impact of mobilization has been directly felt by many employers since June 1950, it was not until August and September, according to the NICB preliminary study, that definite policies on military leave began to evolve for a number of companies. The BNA study indicates that it was still early for summating current policies, as these may be liberalized in the face of intensive mobilization and other causes. The studies were intended to cover policies and practices beyond selective-service requirements.

In general, the draft law guarantees reemployment (under certain conditions) to an employee who leaves a position "other than temporary" to enter the Armed Forces.³ Upon reinstatement, he is to be considered as having been on furlough or leave of absence during his period of military training and service. Among other guarantees, is his right to participate in insurance or other benefits offered by the employer according to "established rules and practices relating to employees on furlough or leave of absence" which were in effect at the time of leaving.⁴

Pension Plans

Over 90 percent of the companies studied by NICB and about 75 percent of the companies surveyed by BNA having pension plans credit time spent in military service toward pension requirements.

	companies having pension plans	Number crediting leave time
BNA survey	358	267
Noncontributory plans		129
Contributory plans	156	114
Both types or combination	34	24
NICB survey	153	140
Noncontributory plans	82	70
Contributory plans	71	70

Sources: Federal Register, Vol. 16, No. 38, February 24, 1951 (p. 1791).
 No. 40, February 28, 1951 (p. 1872), No. 41, March 1, 1951 (p. 1951), No. 43, March 3, 1951 (pp. 2030, 2032), No. 48, March 10, 1951 (pp. 2222-2223), Economic Stabilization Agency, Ceiling Price Regulations No. 1 (Dec. 18, 1950), No. 2 (Jan. 25, 1951), Nos. 3 and 4 (Feb. 2, 1951), No. 5 (Feb. 5, 1951); No. 6 (Feb. 14, 1951), No. 7 (Feb. 27, 1951), press release February 27, 1951; Washington Post, February 16, 1951.

Of the companies surveyed by NICB which credit military-leave time to noncontributory pensions, three out of four will continue their contributions during leave or on the employee's return. The other companies will suspend contributions during this period.⁵

Conversely, of the companies studied by NICB which apply service time to contributory pensions three out of four are suspending all payments during the leave period. No further funding is made until the employee returns. Some of these will permit the employee to buy back his leave time on return, in which case the company will also pay its share. If this option is not exercised, the pension will be diminished on retirement. The only exception made is for plans which guarantee a minimum pension on retirement, in which case the company will contribute whatever is necessary to meet that minimum. In 15 percent of the contributory plans, the company will pay both shares during military leave.

In the BNA study, 35 of the 114 companies having contributory plans which credit time in military service to pensions will make up all contributions for the employee during leave (depending in some cases on his return). In 27 companies, the serviceman who wishes to have his time in company service count in the computation of his pension must continue contributions at the usual rate, with deferral in some instances upon return to the company, when a gradual repayment plan goes into effect. Contributions cease altogether during the period of military service in 31 companies (with interim financing not defined).

Group Insurance Plans

Some form of group-insurance plan was reported by 474 of the 500 companies surveyed by BNA. However, less than a tenth having such plans will definitely continue to cover employees who are in military service. More than two-thirds of the companies definitely discontinuing protection will do so within a month or less after the employee's departure. Hospitalization and surgical coverage, according to the report, are invariably dropped because these services are made available to the serviceman through the Federal Government. Group life insurance will occasionally be continued. About 7 percent of all companies studied will contribute to the cost of the employee's National

Service Life Insurance premiums during military service, most of them for the entire period.

A total of 370 companies in the BNA study have some group insurance benefit plan for dependents, most of these being for hospitalization and surgical expenses.⁸ When the employee enters military service, 207 employers will discontinue insurance for dependents; 109 will continue the protection.⁹ In the latter group of employers, a number require the serviceman to pay all costs.

Of the 169 companies reported by NICB as having group life-insurance plans, only 12 percent will continue coverage after the employee enters military service. The remainder will cancel policies; moreover, 70 percent will do so within 31 days. Slightly less than 20 percent of the companies canceling group life insurance are planning to contribute to the serviceman's National Service Life Insurance premiums, nearly all for the leave period.

Under contributory plans, which predominate (127), coverage will be continued by 10 percent of the companies, provided the serviceman makes his contributions and the insurance carriers continue to permit coverage at existing rates. ¹⁰ Eight employers, however, will assume entire cost during military leave.

Of 106 companies reporting to NICB as providing group hospitalization insurance for dependents, 32 will continue this during military leave. In only 13 of the 98 [additional] plans which provide Blue Cross hospitalization to dependents and 11 of the 68 Blue Shield [surgical] plans covering a similar category, protection will be continued. Most of the Blue Cross and Blue Shield plans are either completely employee or jointly financed.

Vacation and Bonus Plans

About 85 percent of companies studied by BNA grant vacation pay when employees leave for military service. Many pay only for vacation time which the employee has earned or for which he has qualified, and which has not been used before departure. Under a few plans, departing employees are paid for all the current year's unused vacation, plus a prorated part of the following year's vacation. More than a fourth of the companies indicated that they relax normal vacation eligibility standards in some way for returning servicemen.

Virtually all employers studied by NICB pay for vacations fully earned but unused before entering service. Two-fifths, in addition, grant prorated vacation pay for time earned toward the next vacation.

Some type of "induction" bonus (above any accrued vacation pay) is given to employees leaving for military service by almost two in three companies reporting in the NICB preliminary survey. Three-fifths of such employers graduate the amount according to length of service with the company.

Less than one in three companies of the BNA survey give bonuses to employees departing for military service, over and above any unused vacation pay that may be granted. About a third of these are graduated to the employee's time with the company. Virtually no differences were reported as to policy between salaried and hourly employees. In one out of twelve companies granting bonuses, such payments at the time of the study were restricted to draftees.

NICB data (in Management Record, Oct. and Nov. 1950) consists of two studies: one based on replies from 180 companies as to military leave and employee-benefit plans, and an earlier preliminary report covering information from 150 companies primarily on military leave and separation bonus. Neither survey furnishes material on the influence of union agreements in these fields. [Since the current article went to press, the National Industrial Conference Board has issued a later report—Company Military Leave Policies, Studies in Personnel Policy, No, 114, March 1951.]

For recent statistics on the number of workers in the United States covered by negotiated pension, health, and welfare plans, see Employee-Benefit Plans under Collective Bargaining, Mid-1950, in Monthly Labor Review, February 1951 (p. 156).

² The term "benefit plans" is here used to include other programs beyond those of pensions, health, and welfare, and includes vacation and "induction" bonus plans (discussed in this article), as well as profit-sharing and annual bonus payments.

² Covers inductees, enlistees, and reservists who enter on active duty in the U. S. Armed Forces, Coast Guard, or U. S. Public Health Service.— Veterans' Reemployment Rights; Question and Answer Handbook, U. S. Department of Labor, Bureau of Veterans' Reemployment Rights, Washington, 1950 (p. 2; see also pp. 8, 46-51).

Selective Service Act of 1948 as amended, Sec. 9 (c) (1).—Ibid. (pp. 76, 79).
 The BNA study does not furnish data on interim financing of noncon-

tributory pension plans which grant credit for military-service time.

6 Of the remaining 21 companies, 18 were undecided and 3 did not reply.

7 32 companies reached no decision.

⁸ This study does not specify the number of companies having hospitalization and surgical plans.

9 In addition, 52 companies reached no decision; 2 did not reply.

¹⁰ As to the general situation, the NICB states: "A great number of the companies canceling the coverage report that their insurance carriers either refuse to extend group coverage to employees in service, or have instituted prohibitively high war risk premiums."—Management Record, Nov. 1950 (p. 410).

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Status of Labor Banks, 1950

Assets of the four labor banks increased by 2.3 percent in 1950 over 1949, deposits by 2.5 percent, and capital, surplus, and undivided profits by 3.9 percent. As indicated in table 1, three of the four banks showed gains in all three items, but in the fourth both deposits and assets fell.

Table 1.—Condition of labor banks as of Dec. 31, 1949, and 1950 1

Bank and date	Capital, surplus, and un- divided earnings	Deposits	Total assets
All banks: Dec. 31, 1949 Dec. 31, 1950	\$4, 916, 424 5, 108, 595	\$88, 571, 474 90, 830, 708	\$95, 396, 635 97, 558, 529
Amalgamated Trust & Savings Bank, Chicago, Ill.: Dec. 31, 1949 Dec. 31, 1950 Brotherhood State Bank, Kansas City. Kans.:	1, 765, 000 1, 769, 000	34, 444, 050 35, 088, 123	36, 770, 765 37, 557, 093
Dec. 31, 1949	558, 148	9, 883, 592	10, 494, 989
	567, 846	10, 719, 896	11, 319, 742
Dec. 31, 1949 Dec. 31, 1950 Amalgamated Bank of New York, N. Y.:	391, 841	7, 971, 597	8, 772, 186
	546, 928	9, 255, 599	10, 072, 270
Dec. 31, 1949	2, 201, 435	36, 272, 235	39, 358, 694
Dec. 31, 1950	2, 224, 820	35, 767, 090	38, 609, 423

¹ Information supplied by Industrial Relations Section, Princeton University.

These four banks, the only labor banks that reopened after the "bank holiday" in 1933, have increased their assets in the past 15 years by more than 300 percent (table 2). In the same period, the deposits have increased more than fourfold, while capital, surplus, and undivided profits have more than doubled.

Table 2.—Development of labor banks in the United States, 1920-50

Date	Num- ber of banks	Capital, surplus, and un- divided profits	Deposits	Total assets
Dec. 31—				
1920	2	\$1, 154, 446	\$2, 258, 561	\$3, 628, 867
1925	36	12, 536, 901	98, 392, 592	115, 015, 273
June 30—				
1930	14	7, 217, 836	59, 817, 392	68, 953, 855
1935		2, 051, 943	17, 262, 281	19, 692, 388
1940	4	2, 684, 911	23, 847, 294	26, 931, 65
1045	4 4 4 4	3, 428, 078	72, 776, 529	76, 509, 12
1945	1	5, 052, 138	89, 549, 666	95, 245, 93
	4	5, 119, 499	89, 181, 399	95, 156, 59
1948	4	0, 119, 499	09, 101, 399	90, 100, 09
Dec. 31—		4 010 404	00 571 474	05 200 02
1949	4	4, 916, 424	88, 571, 474	95, 396, 638
1950	4	5, 108, 595	90, 830, 708	97, 558, 52

¹ The BNA study (Military Leave Policies of 500 Corporations, Washington 1950) presents data for policies in effect in September and October 1950. Its statistics take account of an appreciable number of companies which reported as holding decisions in abeyance at the time on specific practices in question. Nearly three-fifths of all companies stated that they dealt with unions on one or more phases of military leave; this impact, however, was not measured for specific policies.

Legal Restrictions on Night Work by Women ¹

In 18 States and the Territory of Puerto Rico, night work by women in specified industries is either prohibited or regulated. In 13 States—California, Connecticut, Delaware, Indiana, Kansas, Massachusetts, Nebraska, New Jersey, New York, North Dakota, South Carolina, Washington, Wisconsin—and in Puerto Rico, such work is prohibited by law for one or more industries. Six of these States—California, Conrecticut, Delaware, Kansas, South Carolina, Wisconsin—

and Puerto Rico, have also established regulations to cover women's night work in certain other industries or under certain conditions.

Maryland, New Hampshire, New Mexico, Pennsylvania, and Utah do not prohibit night work by women, but have provided regulations to restrict it in specified industries.

The industries or occupations in which women's night work is prohibited or regulated, and the nature of the restrictions in effect on November 1, 1950, are tabulated below, by State.

¹ U. S. Department of Labor, Women's Bureau: Digest of State Laws Relating to Night Work for Women, Nov. 1, 1950.

State	Industry or occupation covered	Nature of restriction
California	Driving taxicabs or automobiles for hire	Work by women prohibited from \$\ 8 \text{ p.m. to 6 a.m.}\$ Unless suitable transportation is available, women may not be required to report for work or be dismissed from work between 10 p.m. and 6 a.m. If women work during those hours and a meal period occurs within that time, facilities must be available for securing hot food or drink, or for heating food and drink, and a suitable sheltered place for eating must be provided.
	Motion picture (exempts women who act, sing, dance, or otherwise perform). Exceptions (from all classifications above): Women employed in administrative, executive, or professional capacities, as defined in orders; women engaged in the professions.	When women are dismissed at night too late for public transportation, employer must provide transportation.
Connecticut	Bowling alley, shoe-shining establishment, poolroom	Work by women prohibited after 10 p.m. Labor Commissioner is directed to: (1) Make regulations to protect health and welfare of women and (2) prescribe adequate transportation facilities for those employed between 1 a.m. and 6 a.m. Upon application by employer, the Commissioner may permit employment of females between 1 a.m. and 6 a.m., provided employer will comply with established regulations.
Delaware	Manufacturing, baking, printing, dressmaking. (Exempts canning and preserving of perishable fruits and vegetables.) Mechanical establishment (by interpretation, includes beauty shop), laundry, office.	Work by women prohibited from 11 p.m. to 6 a.m. Work by women prohibited from 11 p.m. to 6 a.m.
	Mercantile establishment, telephone and telegraph office or exchange, restaurant, hotel, place of amusement. Exceptions (all classifications above): Establishments where continuous expertions are recognized.	If any part of a woman's daily work is performed between 11 p.m. and 7 a.m., her hours may not exceed 8, in any 24. (Day-work maximum, 10 hours.)
Indiana	tinuous operations are necessary. Manufacturing establishment. Exception (by interpretation): Switchboard operators in office of the establishment.	Work by women prohibited 10 p. m. to 6 a. m. (12 midnight to 6 a. m. if 2 shifts, and employment does not exceed 8 hours a day, 5 days a week). This law's provisions suspended since 1941; the current suspension law to expire Mar, 15, 1951.
Kansas	Manufacturing; laundry; dyeing, dry cleaning, or pressing establishment. Mercantile establishment. Exception: Registered pharmacists Telephone operators	Work by women prohibited from 9 p. m. to 6 a. m. Work by women after 9 p. m. prohibited. ¹ Operators regularly employed after 11 p. m. must be consid-
Maryland		ered night workers. Rest and sleep time shall not be considered worktime. Total worktime, plus rest and sleep time, must be within 12 consecutive hours.
	Manufacturing, mechanical, or mercantile establishment; printing; baking; laundering. <i>Exception</i> : Office work.	If any part of a woman's daily work is performed between 10 p. m. and 6 a. m., her hours may not exceed 8 a night. (Day-work maximum, 10 hours.)
Massachusetts	Manufacturing or mechanical establishment	Work by women prohibited from 11 p. m. to 6 a. m. ²

State	Industry or occupation covered	Nature of restriction
Nebraska	Offices, in cities of over 5,000 population. <i>Exceptions:</i> Public service corporation; (by interpretation) charwomen or janitresses.	Work by women prohibited from 1 a. m. to 6 a. m.
	Mechanical or mercantile establishment; laundry, hotel, or restaurant in cities of over 5,000 population (<i>Exempts</i> public service corporation); manufacturing, in cities of over 5,000 population.	Work by women prohibited from 1 a. m. to 6 a. m. except on permit.
New Hampshire	Manual or mechanical labor in any employment. Exceptions: Household, boarding-house, or farm labor; domestic, hotel, or cabin labor, including dining and restaurant service in connection therewith and incidental thereto; nursing; operators in telegraph or telephone offices; canning perishable fruits and vegetables.	Work by women between 8 p. m. and 6 a. m. on more than 2 nights a week is night work and may not exceed 8 hours in any 24 nor 48 in any week. (Day-work maximum, 10 hours a day, 48 a week, in manufacturing; 1014 a day, 54 a week, in any other employment.)
New Jersey	Manufacturing establishment, bakery; laundry. Exceptions: Cannery engaged in packing perishable products such as fruits or vegetables; glass manufacturing.	Work by women prohibited from 12 midnight to 7 a. m.3
New Mexico	Telephone or telegraph office, if more than 5 females are employed. Exceptions: Emergencies resulting from fires, flood, storm, epidemic of sickness, or any other extreme emergency that could not have been reasonably contemplated.	Employment of women between 10 p. m. and 7 a. m. may not exceed 8 hours in any 1 day nor 54 in 7-day week. (Daywork maximum, 8 hours a day, 48 a week.)
New York	Factory (includes cannery). Exceptions: Specified occupations in a newspaper publishing or commercial printing establishment; book or pamphlet bindery; (by interpretation) stenographers and other office workers in factory. Cleaning or laundering any article or thing covered by definition of "factory."	Work by women prohibited from 10 p. m. to 6 a. m. (12 midnight to 6 a. m. if multiple shifts).
	Mercantile establishment; beauty parlor; telegraph or other messengers. Exceptions: Licensed pharmacists; (by interpretation) stenographers and other office workers. Restaurant. Exceptions: Women employed solely as singers or performers; elevator operators; attendants in ladies' cloak rooms and parlors; employees in or in connection with hotel dining rooms and kitchens; hat-check, cigarette, or flower girls; resort or seasonal hotels and restaurants in rural communities or cities of less than	Work by women prohibited from 10 p. m. to 7 a. m. (12 midnight to 7 a. m. for women over 21 in mercantile establishments. Effective from July 1, 1950, to Apr. 1, 1951). Work by women prohibited from 12 midnight to 6 a. m.
	15,000 population. Streetcar conductors or guards; elevator operators in hotels and restaurants.	Work by women prohibited from 10 p. m. to 6 a. m.
	Elevator operators, unless in establishment where women may be employed as early as 6 a. m. <i>Exceptions</i> : Hotels and restaurants.	Work by women prohibited from 10 p. m. to 7 a. m.
North DakotaPennsylvania	Elevator operators	Work by women prohibited from 11 p. m. to 7 a. m. Night work permitted if provisions of State hours law and regulations of the Industrial Board are met by the plant. Applications for employment on a 2- or 3-shift basis must be made to the State labor department.
	Restaurant	Unless public transportation is available, employer must supply transportation for women and minors dismissed from duty between 11 p. m. and 6 a. m. All time spent by employee in waiting for employer to furnish such transportation shall be considered waiting time and paid for at applicable minimum hourly rate.
Puerto Rico	"Any lucrative occupation." Exceptions: Packing, canning, or fruit and vegetable refrigeration industries, and textile industry (see below), telephone operators, telegraphers, artists, nurses, houseworkers.	Work by women prohibited from 10 p. m. to 6 a. m.
	Shops, factories, or any other industrial or commercial establishment.	Upon employer's application to employ workers on days or during hours when establishment must remain closed to public or during night hours when work by women is prohibited by law, the Labor Commissioner is authorized to grant a permit if he deems such work essential to complete necessary work that must be finished within a determined time. Exceptions: Work between 10 p. m. and 6 a. m. prohibited in any case for women who are under 18 or pregnant, or whose hours worked during the next preceding 16-hour period, added to hours worked between 10 p. m. and 6 a. m., would exceed 8 in the 24.
	Packing, canning, or fruit and vegetable refrigeration industries, and textile industry.	Work between 10 p. m. and 6 a. m. permitted for women over 18 who are not pregnant, if hours worked in any calendar day do not exceed 8, and work shifts are rotated so that no woman works consecutively on the night shift for more than 3 weeks.
South Carolina	Mercantile establishment "Operatives and employees" in any cotton and woolen mill manufacturing yarns, cloth, hosiery, and other products. Exceptions: Mechanics, engineers, firemen, watchmen, teamsters, yard em-	Work by women after 10 p. m. prohibited. Employment at night not to exceed weekly maximum set for day work—55 hours.4

State	Industry or occupation covered	Nature of restriction
Utah	Retail trade	Women employed between 10 p.m. and 6 a.m. may not be required to report for work or be dismissed from work during these hours, unless suitable transportation is available at no extra cost to worker. Work by women after 12 midnight prohibited.
Washington	Elevator operators	
Wisconsin	Manufactory; eanning factory before and after season of actual can- ning of product. <i>Exceptions:</i> Office workers and charwomen in a manufactory; workers in canteens and eating houses operated by a canning factory for its own employees.	Work by women prohibited from 6 p.m. to 6 a.m.
	Laundry. Exceptions: Office workers and charwomen	Work by women prohibited from 6 p. m. to 6 a. m. Work by women prohibited from 5 p.m. to 8 a.m., in cities of 150,000 population and over and their suburbs; from 5 p.m. to 6 a.m., elsewhere,
	Hotel	If any part of a woman's daily work falls between 9 p.m. and 6 a.m., hours of employment may not exceed 9 a night, 54 a week. (Day-work maximum 10 hours a day, 55 a week.)
	Restaurant	Work between 8 p.m. and 6 a.m. is considered night work
	Telephone operators in exchanges having 2,000 telephones and over. $^{\delta}$	except that work 1 night a week after 8 p.m. is not so classified. Maximum for night work, 8 hours a night, 48 a week. (Day-work maximum, 9 hours a day, 50 a week.) If any part of a woman's work is between 6:30 p.m. and 6 a.m. on more than 1 day in week, her hours may not exceed 8 in any 1 day nor 48 during the entire week. (Day-work maximum, 9 hours a day, 50 a week.)

Railway Labor Act: Administrative Highlights, 1949–50¹

THE NUMBER OF THREATENED STRIKES in the transportation industry during the year ending June 30, 1950, exceeded the total of any previous year in the life of the Railway Labor Act, according to the latest annual report of the National Mediation Board.² The more serious strikes or strike threats were attributed either to disputes involving grievances arising out of existing contracts which had not been referred to the National Railroad Adjustment Board for settlement, as prescribed by the act before threat of a strike was made, or to disputes which involved more than one craft or carrier.3

Many of the threatened strikes were disposed of through efforts of the National Mediation Board: others, however, were not disposed of until after Presidential fact-finding boards had been invoked under the emergency provisions of the act. During the fiscal year 1950, 11 such boards were created to avert threatened strikes (12 in 1949).

Although some of the disputes before the emergency boards involved matters of national concern, the procedures of the Railway Labor Act should have been adequate in other cases, according to the Board, "without the necessity of the President of the United States declaring an emergency."

Provision for Settling Disputes

The amended Railway Labor Act "distinguishes different kinds of disputes, recognizes the differences in the principles which underlie them, and provides different methods and establishes separate agencies for handling the various kinds." The act embodies detailed procedural steps for the peaceful handling of disputes from their origin to their final disposition. Direct negotiation, mediation, arbitration, and Presidential emergency boards are all utilized or are available.

If the National Mediation Board finds it impossible to bring about a settlement of a case by mediation, it endeavors, under the act, to induce the parties to submit to voluntary arbitration. But there is no compulsion on either disputant to

Between June 1 and Sept. 15, mercantile establishments in agricultural communities may remain open until 10 p. m. on 1 day in week if permit is obtained from State labor department.
 Commissioner of Labor and Industries authorized, after public hearing, to suspend until July 1, 1951, the application or operation of this prohibition.
 Governor is authorized to suspend this law, on his own order or upon application, in time of war or other serious national emergency.

⁴ Law applies to both male and female employees 16 years of age and over. ⁵ For smaller exchanges, orders of Industrial Commission establish number of hours of employment to be counted as the night shift and also maximum number of work hours permitted. The count varies from 1 hour to 7 hours according to the number of telephones in the exchange, and maximum hours from 10 a day, 60 a week, in the very small exchanges, to 9 a day, 56 a week, in those having between 1,000 and 2,000 telephones.

agree to arbitrate. Should arbitration be refused by either party or by both parties, and the dispute remains unsettled and, in the judgment of the Board, threatens substantially to interrupt interstate commerce, the Board must notify the President of the United States. The President may, at his discretion, appoint an emergency board.

The offices of the Board in so-called mediation disputes ⁵ and those of Presidential fact-finding boards are purely voluntary in nature, under the act. They provide steps for deferring a strike or lockout for a temporary period, however. The principles of negotiation and mediation constitute the heart of the law. Even emergency boards function in a mediatory capacity in some controversies. There is no prohibition in the act against work stoppages by employees after all the procedures under the Railway Labor Act have been exhausted.

On the railroads, disputes involving employee grievances and controversies over the interpretation and application of existing contracts, which cannot be settled by direct conference, are referrable either to local or to system adjustment boards set up by agreement, or to the National Railroad Adjustment Board provided by the act if no local or system boards have been agreed to for that purpose. The decisions of the National Board are binding by law upon both parties. The Board consists of 36 members, 18 selected by the carriers and 18 by the national organizations of railway employees. Each of its four divisions has jurisdiction over disputes involving different crafts or classes of railroad employees. Salaries of members are paid by the parties that select them, but salaries of administrative staff and all other administrative expenses are borne by the Government. If any division cannot agree on an award because of a deadlock, a neutral referee must be selected by the division or appointed by the National Mediation Board, upon request, to sit with the Adjustment Board until a decision is rendered.

Grievance Accumulation, First Division⁶

The National Railroad Adjustment Board was not able, during the fiscal year 1950, to reduce its backlog of unsettled disputes in the important First Division, despite the recent creation of two supplemental joint boards (Engineers-Firemen and Conductors-Trainmen) and the adoption of revised procedural rules. The First Division has jurisdiction, under the act, of grievances which involve "operating" employees, i. e., road- and yard-service employees. It is called upon to handle more than four times the number of disputes handled by the other three divisions combined, and has been regularly behind in handling its docket of cases.

During the fiscal year 1950, the First Division docketed 1,766 new disputes and disposed of 1,438 cases, thereby increasing its backlog of unsettled disputes from 2,842 as of July 1, 1949, to 3,170 on June 30, 1950. On the basis of cases disposed, the National Mediation Board estimated that the First Division was more than 2 years behind in its work on June 30, 1950; the estimate was nearly 4 years at the end of the previous fiscal year.

The number of new grievance cases received and docketed annually by the First Division increased by 85 percent in 2 years—from 954 in the fiscal year 1948 to 1,766 in 1950. Total numbers docketed involving trainmen, firemen, engineers, and switchmen had appreciably increased; the largest number of new cases involved trainmen—587 in the fiscal year 1950 alone (see table).

National Railroad Adjustment Board, First Division: Number of cases received and docketed annually, by labor organization, fiscal years ending June 30, 1948, to June 30, 1950¹

Labor organization	Fiscal yea	Fiscal year ending June 30—					
Dayor organization	1950	1949	1948				
Total number of cases	1,766	1, 226	954				
Engineers Engineers in combination with others Firemen Firemen in combination with others	353 138 374 13	203 59 216	100 53 191 5				
Conductors Conductors-Trainmen Trainmen	156 40 587	194 21 489	236 6 343				
Switchmen's Union of North America	101	40 3	18				

¹ Compiled from reports of National Railroad Adjustment Board in fourteenth, fifteenth, and sixteenth annual reports of National Mediation Board (pp. 72, 71, and 93, respectively). ³ Includes 2 "individual" cases.

The National Mediation Board again expressed concern over long delays by the First Division in handling cases and issuing awards, some of which often run into years, with the result that some labor organizations resorted to other techniques to secure settlements. When efforts to settle

grievance disputes by mediation failed, Presidential emergency boards were created, after strike dates were set. In the fiscal year 1950, 6 out of a total of 11 emergency boards created during that period involved grievance disputes, which, according to the National Mediation Board, should have been disposed of by the First Division, under the act.

For instance, prior to a strike against a principal carrier system which lasted some 45 days, the Presidential fact-finding board "sought vainly to secure acceptance of procedures for settling the dispute and averting the threatened strike." It pointed out that "the grievance cases should have been submitted to the National Railroad Adjustment Board, and criticized the practice" of bypassing that agency by calling strikes to secure the appointment of emergency boards. The unions, however, rejected this finding. The emergency board warned:

It seems inconceivable to us that a coercive strike should occur on one of the Nation's major transportation systems . . . in view of the fact that the Railway Labor Act provides an orderly, efficient, and complete remedy for the fair and just settlement of the matters in dispute. Grievances of the character here under discussion are so numerous and of such frequent occurrence on all railroads that the general adoption of the policy pursued by the organizations in this case would soon result in the complete nullification of the Railway Labor Act.

In another serious controversy involving more than 1,400 grievance cases which remained unsettled on the property of a carrier system, the emergency board announced that in its mediatory capacity it had induced the parties to make a settlement. By the terms, creation of a regional board of adjustment under the Railway Labor Act was provided for, to which the unsettled claims were to be referred.

The National Mediation Board recommended in its 1950 report that a conference of major executives of the railroads and the operating brother-hoods be held without further delay in order to devise some workable method for eliminating the "log jam" of cases in the First Division. It also recommended that a more determined effort be made to dispose of a larger proportion of cases without the intervention of a referee. In addition, it pointed to a definite need for some understanding between the carriers and the brotherhoods as

to the extent to which awards of the First Division should serve as precedents.

Peaceful Mediation

According to the National Mediation Board, the Railway Labor Act again proved its value in the fiscal year 1950 in providing mediation procedures for the amicable settlement of 234 labor disputes. Since the amendment of the act in 1934, 3,368 cases have been similarly disposed of. "Against this total," the National Mediation Board pointed out, "the few instances in which work stoppages occurred should stand out as sound evaluation of the benefits of successful use of the act's procedures."

As of June 30, 1950, 102 mediation cases remained on the Board's docket.

Among matters of concern to the Board during the fiscal year 1950 were the following:

- (1) Failure of disputants to utilize, or comply with, "the very complete procedural provisions of the act."
- (2) Apparent reluctance of both carriers and labor organizations to conduct thorough collective bargaining in national cases. The "short-circuiting" of negotiations to secure governmental assistance was deplored.
- (3) Similarly, too great reliance on appointment of Presidential fact-finding boards; also the tendency, at times, to reject the findings and recommendations of such boards.
- (4) The large number of cases deadlocked by the National Railroad Adjustment Board, requiring the services of referees appointed by the Government.
- (5) Need for investing representatives in negotiations with sufficient authority to effect a settlement.
- (6) Jurisdictional disputes between two or more abor organizations.

For settling controversies and avoiding strikes, as well as obviating the necessity for emergency boards, in the railroad and air-transportation industries, the National Mediation Board outlined three steps: First, settling as many disputes as possible in direct negotiation and real collective bargaining; second, invoking the assistance of mediation for effecting a "meeting of the minds"; and third, voluntary acceptance by both parties of arbitration in issues that remain unresolved.

Growth in Use of Emergency Boards 8

Only a few Presidential emergency boards were created under the amended Railway Labor Act of 1934 during the 8 years prior to World War II.9 In May 1942, a National Railway Labor Panel was created by Executive order during the wartime emergency, which functioned until August 1947. Under this Panel, emergency fact-finding boards supplemented procedures under section 10 of the These boards were appointed from panel members in unsettled dispute cases in which no strike vote had been taken, after mediation by the National Mediation Board had failed and arbitration had been rejected. A strike vote and a definite strike date are prerequisites under section 10 before the National Mediation Board may report the threat of an emergency to the President.

In the early days of World War II, the standard railway labor organizations and the carriers agreed that there should be no strikes or lockouts and that all disputes would be settled by peaceful means. During the existence of the National Railway Labor Panel, 58 panel emergency boards were provided. With the exception of a few cases, reported the National Mediation Board, the

recommendations of these boards were accepted by the parties in settlement of the disputes.¹⁰ The panel emergency boards certified that recommended wage changes were to conform with the general wage stabilization program of the day.¹¹

¹ Information is from Sixteenth Annual Report of the National Mediation Board, Including the Report of the National Railroad Adjustment Board, for the Fiscal Year Ended June 30, 1950. Washington, 1950.

For background material, earlier annual reports were utilized; and also Fifteen Years Under the Railway Labor Act, Amended, and the National Mediation Board, 1934–49 (U. S. National Mediation Board, Washington, 1950).

² The National Mediation Board is the chief administrative agency under the Railway Labor Act. Its principal work consists in mediating disputes in railroad and airline industries which involve changes in rates of pay, rules, or working conditions; and determining collective bargaining agents in disputes concerning representation of employees. The National Railroad Adjustment Board has jurisdiction of employee grievance disputes and controversies over the application and interpretation of existing agreements in the railroad industries.

² The more prominent disputes in the railroad industry were those in connection with the manning of Diesel locomotives and the establishment of the 40-hour week for "operating" employees.

4 Fifteen Years Under the Railway Labor Act (p. 54).

4 Involving change in rates of pay, rules, or working conditions.

⁶ For a summary of the situation during the previous year, see Monthly Labor Review, April 1950 (p. 403).

7 I. e., engineers, firemen, hostlers and outside hostler helpers, conductors, trainmen, and yard-service employees.

§ Information compiled from earlier annual reports of the National Mediation Board and from Fifteen Years Under the Railway Labor Act (pp. 32-33, 84-89).

 $^{\rm o}$ Fiscal years 1935 to 1942 inclusive. (See first to eighth annual reports.)

10 Fourteenth annual report, 1947-48 (p. 52).

¹¹ Tenth annual report, 1943-44 (p. 36); see also Fifteen Years Under the Railway Labor Act (p. 33).

"That we have made progress in the field of industrial safety is evidenced by the fact that in the past 2 years workmen's compensation rates [in Indiana] have been substantially reduced, the first decrease of 7 percent coming in 1949 and a further reduction of 13 percent in 1950. These reductions were made in the face of increased workmen's compensation benefits and an increase in employment. They represent an approximate saving of \$5,000,000 annually to the employers of Indiana. I am convinced that the [Governor's] Safety Conference [held in September 1950 and attended by more than 3,500 persons] will point the way to other methods of saving lives and dollars in Indiana."

—From message of Governor of Indiana to State Legislature 1951, quoted in United States Department of Labor, Bureau of Labor Standards, Legislative Report No. 1, February 5, 1951 (pp. 35–36).

Longevity of Railroad Annuitants¹

Four of every five railroad workers who retired at the age of 65, under the Federal Railroad Retirement Act, during the years 1936 to 1948, were still alive 5 years after their retirement, and nearly three out of five were still on the rolls 10 years after their annuity began, according to a recent mortality study made by the Railroad Retirement Board. Even those who did not retire until 70 were living, in almost three out of four instances, at the end of 5 years of retirement. Nearly half of this older group were still alive at the end of 10 years.

Percentage of surviving railroad annuitants who retired at specified ages during 1936-48, by years of survival

Full years of survival after retirement	Percentage surviving amon annuitants who retired a age—					
	65	70	All ages			
1 year	96	95	95			
2 years3 years	92 88	90 85	90 85			
4 years	84	79	80			
5 years6 vears	80 76	74	75			
6 years 7 years 7	71	70 62	70 64			
8 years	67	57	59			
9 years	62	51	53			
10 years	57	46	48			
11 years	51	40	42			
12 years	44 34	35 30	35 27			

Life Expectation After Retirement ²

Railroad workers retiring at age 65 may expect, as a group, to survive for an average period of 13.0 years; those retiring at age 70, for an average

of 10.4 years; and those retiring at age 75, for an average of 8.2 years. Even annuitants retiring at age 80 can expect, on the average, to live 6.3 years.

The life expectancy of railroad annuitants retiring at ages 60 to 85 is appreciably higher than for white males in the general population of the United States, as is shown in the following tabulation.

	Years of life ex	pectation
	Railroad annuitants, 1946–49	White males, 1948 i
60 years	16. 5	15. 4
65 years	13. 0	12. 4
70 years	10. 4	9.8
75 years	8. 2	7. 5
80 years	6. 3	5. 4
85 years	4. 6	3. 6

¹ Data for white males are from computations made by the U. S. Public Health Service on the basis of mortality in the calendar year 1948.

The superior longevity of railroad annuitants over the general population is due in part, according to the Railroad Retirement Board's study, to the fact that the railroad annuitants are a hardy group, having generally been able to remain at work until an advanced age. Moreover, the statistics for railroad annuitants exclude those retired for serious disability, who consequently have a heavier mortality than other railroad annuitants. In contrast, the figures for white males in the general population are based on mortality of all men, irrespective of whether they were able to work late in life or had become seriously disabled earlier.

¹ Information is from Monthly Review, U. S. Railroad Retirement Board, Chicago, February 1951 (pp. 22-25).

 $[\]ensuremath{^2}$ Life expectancy figures are group averages only and have no application to individuals as such.

Technical Notes

Interim Adjustment of Consumers' Price Index

ECONOMIC, MILITARY, AND LEGISLATIVE developments during the summer of 1950 made necessary certain interim improvements in the Consumers' Price Index in advance of the comprehensive revision scheduled for completion in June 1952. No major changes in procedures or weights had been made since the full scale revision of 1940.

When this program was begun, it was expected that no important changes would be made in the index until the general revision was completed. This assumed that the period of 1950–52 would be one of relatively stable economic conditions with moderate and comparatively uniform price movements. This expectation was dispelled by the sharp and diverse price movements following June 1950. These changes magnified the effects of the mis-weighting of the components of the index.

One phase of the adjustment, namely, correction of the new unit bias in the rent index, had been planned and announced in 1949. Other improvements, such as introduction of new or substitute items, were comparatively minor and routine; but some represent departures from customary practices. Because these changes, in the aggregate, seemed likely to affect the trend of the index from January 1950 and into the future, the Bureau of Labor Statistics took pains to announce them in advance and document them in detail.

Plans for Interim Adjustment

Three major considerations underlie the general planning of the interim adjustment, which should be considered an *improvement* of the 34-city index as presently constructed and defined: (1) not to make adjustments of basic concepts or methodology prior to the comprehensive revision, (2) to make

the adjustments quickly, and (3) to make only such changes as would result in demonstrable improvements.

The scope of the adjustment embraced four major parts:

- 1. Revision of city population weights.
- 2. Correction of new unit bias in rent index:
- 3. Addition of new items.
- 4. Revision of commodity weights.

Revision of Population Weights

Publication of the 1950 decennial census population data by city and county made possible the calculation of revised population weights for combining 34-city data into a national index for all items, and 56-city data into a national food index. Previous city weights in the index were based on Bureau of the Census estimated population counts for 1942 derived from May 1942 registrations for sugar rationing.² In the index weights, each city bears a weight based on its own population and that of other metropolitan areas in the same region.

In calculating revised 1950 weights, the population of standard "metropolitan areas" as defined by the Census was used. The metropolitan area, or entire county in which the central city is located as well as adjacent counties which are closely related to it economically, has replaced "metropolitan districts" as used in 1940.³ Essentially the same combination of nearby cities with index cities was maintained in calculating the city weights. A tabulation of the 1942 and 1950 population weights will be presented in the reprint of this article.

Correction of the Rent Index

As part of the interim adjustment of the Consumers' Price Index, the corrections to the rent index and the "all items" index for the "new unit bias" have been incorporated into the index num-

bers from January 1950 to date. The nature of this correction is described in detail in another technical note in this issue.

The amount of the rent corrections, as applicable to the October 1950 indexes, was carried as a footnote to all index releases from October through December 1950. The ultimate incorporation of this rent correction into the index had the effect of raising the national rent index for January 1950 by 6.8 index points, and the national "all items" index for January 1950 by 1.3 index points.

Addition of New Items

No general review of the sample of items priced for the index was feasible for the interim adjustment. However, a few items which had greatly increased in importance in family spending since the mid-thirties were added. A few additional items were included to improve the measurement of average price movements for groups or subgroups of similar items. Frozen peas, strawberries, and orange juice concentrate, canned baby food, group hospitalization payments, home permanent wave refills, television sets, and beer were added because of their increased importance; layer cake, frankfurters, ice cream, cola drinks, grape jelly, men's rayon suits, men's work gloves, women's rayon blouses, boys' jeans, cotton rugs, chrome dinette sets, electric toasters, aluminum pans, velocipedes, and gas for space heating were added to improve the measurement of price change.

These items were introduced into the index calculations at the first period for which reliable prices were available. For the January 1951 index, prices were available in most cities for all new items except beer. It is expected that reliable prices for this item will be available within a few months.

Revision of Commodity Weights

The unrepresentativeness of current index value weights as related to current spending patterns was the most compelling reason for making the interim adjustment. Table 1 indicates the extent of the weight dislocation in the January 1950 index.

To understand why the weight structure of the index became unrepresentative, the reader should review the mechanics of the index calculation.⁴ Since food prices have increased more than other groups, the value weight of food in the national index has increased as a percent of the total value of the market basket—from 35 percent in 1934–36 to more than 40 percent before the adjustment.

Only if people had continued to buy the same quantities of all goods and services, would foods actually represent 40 percent of family expenditures. The Bureau's postwar studies indicate, on the contrary, that foods continue to take about one-third of the consumer's dollar. This shows that consumers have adjusted their spending patterns to increased income and higher prices by purchasing different things in different quantities. The index procedure necessarily holds quantity weights constant from month to month. It cannot take continuous account of changes in spending patterns. That is why, periodically, the Bureau must conduct new family expenditure surveys and adjust weights accordingly.

Table 1.—Comparison of percentage distribution of groups of expenditures by all families of wage earners and clerical workers and unadjusted index weights as of January 1950

Commodity group	Denver		Detroit		Houston		Manchester		Memphis		Richmond		Washington	
	Unad- justed		Unad- justed		Unad- justed	Ad- justed 1	Unad- justed		Unad- justed		Unad- justed		Unad- justed	Ad- justed
Food	13. 2 4. 6 3. 7 4. 7 7. 1 1. 3 3. 2 4. 3	29. 3 12. 2 12. 1 3. 6 4. 2 6. 9 12. 5 2. 3 2. 5 5. 9 4. 7 3. 8	37. 8 12. 2 15. 3 6. 0 2. 4 5. 1 8. 1 2. 0 3. 0 3. 3 2. 8 2. 0	31, 2 12, 2 11, 1 4, 2 3, 6 6, 8 11, 5 2, 3 2, 1 5, 4 5, 9 3, 7	36. 7 12. 7 13. 3 3. 1 4. 7 7. 4 10. 1 1. 3 2. 7 3. 8 2. 5 1. 7	30. 1 13. 6 11. 1 2. 0 5. 3 7. 8 9. 9 2. 0 2. 6 6. 3 6. 1 3. 2	44. 2 13. 3 9. 1 9. 1 3. 0 6. 0 4. 8 2. 0 3. 0 2. 4 2. 3	30. 4 15. 8 10. 2 6. 5 4. 4 7. 2 7. 0 2. 3 2. 3 4. 5 5. 2 4. 2	38. 7 13. 5 12. 6 6. 8 4. 3 6. 8 6. 1 1. 6 2. 1 3. 5 2. 4 1. 6	30. 2 13. 8 10. 9 2. 8 4. 5 9. 0 10. 0 1. 9 2. 3 5. 6 5. 4 3. 6	37. 9 13. 7 11. 6 7. 7 4. 7 5. 8 5. 6 2. 0 2. 1 4. 4 2. 5 2. 0	32. 8 14. 0 10. 9 5. 4 6. 0 5. 6 6. 5 2. 5 2. 3 6. 3 5. 0 2. 7	35. 7 15. 7 15. 4 4. 6 4. 9 5. 6 5. 7 2. 4 2. 7 3. 6 2. 4 1. 3	30. 0 13. 3 13. 5 3. 3 4. 9 4. 8 9. 2 3. 8 2. 4 5. 9 3. 8
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.

¹ Weighted by Negro-white population weights from dwelling unit survey.

Since actual data had to be estimated for some cities, the interim adjustment of weights served only to bring the index weight diagrams closer to current patterns of family spending. Data necessary to adjust the "all items value aggregate" in the index to actual total expenditures in each city were not available. Therefore, the total current index value aggregate for each city was redistributed percentage-wise according to the estimated current spending patterns.

Throughout the rest of this article the term "weights" will refer to the percentage distribution of value weights in a current period and not to physical quantity weights. The term "current index weight" will refer to the weights in the January 1950 index before adjustment.

The adjustment of weights for the 7 cities for which recent actual expenditure data are available will be discussed separately from those where they are not.

Adjustments of Weights in Seven Cities

Basic data for adjustment of weights were obtained from special tabulations of the survey results for each of seven cities recently surveyed. Average dollar and percentage expenditures for major groups of commodities were calculated for white and Negro families of wage earners and clerical workers.⁵ Since it was desired that index weights be adjusted to the most recent period possible, the survey data which referred to different time periods-1947, 1948, or 1949-were adjusted by estimated changes both in quantity consumption and in price to a common date, approximately January 1950. The 12 commodity groups for which expenditure data were summarized and adjusted, corresponded to the present index groups (and subgroups of miscellaneous goods and services): Food; Clothing; Housing; Fuel, light, and refrigeration; Furnishings and equipment; Household operation; Auto purchase and operation; Other transportation; Personal care; Medical care; Reading and recreation; Alcoholic beverages and tobacco.

Quantity adjustments to survey results were made to 1949 by item—the latest year for which information was available—on the basis of data from independent sources. Department of Commerce national estimates of personal consumption expenditures, retail sales data of the Department

of Commerce and Federal Reserve Banks, Internal Revenue tax collection data, annual food consumption data of the Department of Agriculture, automobile registrations, and similar data from other sources were used. In some cases, city data were available; in others, national figures were used. If for any given item or group of items, reliable information on consumption was not available, no quantity adjustment to the survey data was made. Adjustments for price change to 1950, were based on the Bureau's regularly collected retail price data.

The general validity of the adjustment is corroborated by comparison with Department of Commerce annual national estimates of personal consumption expenditures adjusted for comparability with the Bureau's definition of family expenditures. The adjustments did not materially change the percentage distribution of expenditures from the survey data.

The percentage distribution of groups of expenditures shown below are for Detroit as of the survey date, 1948, and as adjusted to 1950. The data are for white wage-earner and clerical-worker families of two or more persons.

	1948	1950
Food.	32. 3	32. 5
Apparel	12.8	11. 5
Housing	10.7	10.6
Fuel, light, and refrigeration	4.0	4. 1
Household operation	3. 4	3. 5
Housefurnishings	6. 7	6. 6
Automobile transportation	11. 2	11. 9
Other transportation	2.0	2. 4
Personal care	2.1	2. 1
Medical care	5. 2	5. 5
Reading and recreation	5.8	5. 7
Tobacco and alcoholic beverages	3. 8	3. 6
Total	100. 0	100. 0

Using the adjusted data, a complete revision of group and item index weights was made for each of the 7 cities. Expenditures for individual foods, available from the survey for a single week, were adjusted to annual totals, using seasonal adjustment factors. Expenditures for individual items were allocated in the usual manner to the sample of items priced for the index. Two exceptions were radios, transferred from the "housefurnishings" group to the "reading and recreation" subgroup, and alcoholic beverages, shifted from food to the miscellaneous group.

Estimation of Weights for Other Cities

Reasonable assumptions about the economic factors affecting the behavior of consumer expenditures were tested against 1934-36 expenditure data available for 32 of the 34 cities, and against the later adjusted survey data for 7 cities.

Coefficients of rank correlation of 1934-36 group percentage expenditures with city population size, population density, community income, relative temperature, and percent of homes owned were calculated, where appropriate, for all cities, or for different city size groups. Since scatter diagrams of the relationships did not indicate a significant degree of correlation this approach was abandoned.

A second approach was through analysis of the adjustment of index weights for the 7 cities, based on the adjusted survey data. The general city-to-city consistency in the direction of and, for some groups, the size of adjustment supported the validity and applicability of the data for weight estimations. (See table 1.)

In the main, the weight revision in these cities resulted in a decreased weight for food, shelter, and fuel, little change in the apparel weights, and increased weight for the less urgent categories of consumption.

Comparison of the adjusted survey data with the current index weights in 6 of these cities ont only pointed up the exact nature of the weight dislocations, but through the technique of mean square deviations provided a statistical standard with which to measure the validity of estimates resulting from various methods. The mean square, or variance around the mean, is the sum of the squares of the deviations of each value from the mean, divided by the number of observations corrected for degrees of freedom. An adaptation of this technique was used to compare estimated index weights with observed weights in the 6 cities. Table 2 gives a summary of some of the mean square tests.

It is clear at once that the mean square deviations of the adjusted percentage expenditures from current index weights are in total very much larger than the deviations from 1934–36 weights or the variance around the 6-city average. For food, the mean square of deviations of adjusted percentage expenditures from current index weights was 92.9, compared to 7.5 from the

1934-36 weights and 6.1 for the variance around their average corrected for the difference between the mean of the 6 cities and the mean of the 32 cities in 1934-36. It was evident, therefore, that a method of estimation could be found which would improve the current index weights for all cities. A guiding principle of estimation was that, to be acceptable, estimated weights must give a lower mean square than the current index weights when tested against adjusted survey data for the 6 cities.

The general procedure of estimating weights for cities not surveyed in recent years was (1) to develop estimating methods based on reasonable assumptions about the economic behavior of consumer expenditure distributions, (2) to calculate estimates based on several different estimating methods, (3) to test these estimates against the observed data for the 6 cities, and (4) to select the method which gave the smallest mean square of the deviations estimated from actual data in the 6 cities. If one of several methods appeared clearly superior on logical grounds to the others, it might be used in preference to one showing a lower mean square, provided its mean square was not more than twice the smallest.

General Estimating Methods

Two estimating methods proved to give the best results for most group estimates.

Method A is based on the assumption that the change in expenditures from 1934–36 to 1950 has been consistent in magnitude and direction in all cities and also that the intercity differences in expenditure distributions existing in the earlier period still persist. This method, therefore, uses the ratio of the 6-city average $(\overline{p_{50}q_{49}}^6)$ adjusted percentage expenditure from the recent surveys to the average percentage expenditure in 1934-36 $(\overline{p_{34}q_{34}}^6)$ as an adjustment factor applied to the 1934-36 data $(p_{34}q_{34})$ for each city. This calculation gives the estimated index weight and for any given city (1) can be expressed as follows:

$$\frac{\overline{p_{50}q_{49}}^{6}}{\overline{p_{34}q_{34}}^{6}} \times (p_{34}q_{34})_{i} = (p_{50}q_{49})_{i}$$

Method A was used to estimate index weights for the food group and for automobile purchase and other transportation in the miscellaneous group.

Method B is based on the assumption that the change in quantity and quality consumption from 1934-36 to 1950 has been consistent in all cities both in magnitude and direction; and that the average relationship between current index weights and current expenditures measures the necessary correction for the dislocation of weights in the index. It preserves the intercity differences that exist in current index weights. This method, therefore, uses the ratio of the average adjusted percentage expenditures from the recent 6-city surveys $(\overline{p_{50}q_{49}}^6)$ to the 6-city average of current index weights $(\overline{p_{50}q_{34}}^6)$ as an adjustment factor applied to the current index weights for each city $(p_{50}q_{34})_t$. This calculation gives the estimated index weight and can be expressed as follows:

$$\frac{\overline{p_{50}q_{49}}^6}{\overline{p_{50}q_{34}}^6} \times (p_{50}q_{34})_i = (p_{50}q_{49})_i$$

Method B was used to estimate index weights for the following groups of items: clothing; fuel, light, and refrigeration; housefurnishings and equipment; household operation; medical care; reading and recreation; and tobacco and alcoholic beverages.

Estimates based on methods A and B were calculated for all other groups of items, and mean square tests of 6-city estimates were made for use in evaluating results of other estimating methods. The total mean square deviation for all group estimates by Method A was 17, and by Method B, 22. Both of these values were very much less than the total mean square deviation of 131 when the current index weights were tested against the survey data for the 6 cities. (See table 2.)

Other Estimating Methods

Still other estimating methods were used for personal care, housing, and automobile operation.

Analysis of family expenditure data reveals that personal care takes a fairly constant proportion of expenditures from time to time and from place to place. For the 7 cities, the percentage expenditures for white families varied from 2.1 to 2.4 percent and for Negro families from 2.6 to 3.6 percent. For other cities, therefore, current index weights were adjusted by weighting together the simple averages for white and Negro families in 7 cities by white-Negro population weights ob-

tained from the dwelling unit survey for the city to be estimated.

Intercity differences in housing and automobile operation are known to be large, and the index weight adjustments for these groups in the 7 cities were not entirely consistent as to direction or magnitude. Average annual dollar expenditures for rent were calculated directly from a 1949–50 BLS dwelling unit survey for each of the 34 cities for white and Negro families separately. These data were adjusted for comparability with expenditure survey data in the 7 cities.

For index weights it was necessary to convert these dollar estimates to a percentage of estimated dollar expenditures on all items. A fairly constant ratio was found between adjusted total expenditures and total index value weights, in the 6 surveyed cities, when analyzed separately by race. Total expenditures, therefore, were estimated by applying these average ratios by race to corresponding index value weights for the city to be estimated (as for Method B). Estimated dollar expenditures for rent divided by these estimated total expenditures gave the percentage weight for rent. This method is referred to as Method H.

Estimated dollar expenditures for owned hous-

TABLE 2.—Summary of mean square tests

	Mean square deviations of adjusted percentage expenditures in 6 cities from—								
Commodity group	Final	Final Current		Average 2		its esti-			
	weights 1	index weights	weights	expend- itures, 6 cities	Method A	Method B			
All groups	15. 62	131.10	64. 38	21. 95	16. 98	21. 94			
FoodApparelHousing	7. 81 1. 15 . 40 . 33	92. 92 1. 11 4. 09	7. 46 2. 88 21. 52	6. 14 2. 20 . 55 . 24 . 36	6.47 1.33 .89	8. 59 1. 22 2. 31			
eration Household operations Housefurnishings Automobile Purchase	.77 .46 .66	5. 10 . 97 3. 64 10. 42	14. 40 . 69 5. 56 5. 69	2. 66 . 95 1. 18 5. 46	1. 14 . 84 1. 24 3. 44 2. 90	.78 .60 .84 6.24			
Operation 3 Other transportation Personal care Medical care Reading and recrea-	.52 .32 .03 .37	. 60 . 33 4. 54	.34 .04 .84	.89 4.02 1.30	.10 .04 .30	.40 .27 .23			
tion Tobacco and alcoholic beverages	. 18	4. 88 2. 50	3. 43 1. 53	.38	.62	.11			

¹ Based on estimated weights adjusted to total 100.

Adjusted for significant differences between mean of 6 cities and mean of 32 cities in 1934-36.

 ² Cities in 1994-36.
 3 Mean square deviations of estimated weights for:
 4 Rent by Method H, .37; Home owner costs by Method J, .29;
 4 Luto operations by Method R, .56.
 4 Based on average of 7 cities.

Italics indicate selected method.

ing were computed by multiplying the 7-city average expenditure per home owner by the percentage of homes owned in each city. This estimated dollar expenditure was converted to a percentage weight as in the rent estimating procedure. This is referred to as Method J.

A simple regression equation of dollar expenditures for automobile operation on percent of families owning cars as shown by the survey data for 6 cities was calculated (Method R). The percent of families owning cars was estimated for each city by dividing total passenger car registrations by the number of dwelling units in the city as reported in the 1950 Census of Housing. R. L. Polk & Co. automobile registration data,7 adjusted to the survey level, were used in estimating car ownership for the regression equation. Estimated dollar expenditures for automobile operation were calculated for each city and converted to a percent of estimated total dollar expenditures in the same way as was done for housing.

Many estimating methods were tried for use in adjusting weights; some were carried through the mean square tests; others were discarded on the basis of scatter diagrams.

Methods of estimation similar to that used for automobile operation were attempted for car purchase but dubious results finally led to selection of Method A.

Because of the importance of food and the size of the index weight adjustment required in the 7 cities, special attention was given to the possibility of developing estimates by regression or other methods from independent data available for the 34 cities. All estimating methods were, after test, finally discarded in favor of Method A.

For clothing and public transportation, regression equations of the 6-city percentage expenditures on population were calculated; and for fuel, the 6-city percentage expenditures on climate, and on climate and percent of homes owned. When tested for 6 cities, none of these yielded as low a mean square as Method A or Method B.

For the remaining groups—furnishings and equipment, household operation, medical care, reading and recreation, and alcoholic beverages and tobacco—mean squares of estimates by Method A or Method B were considerably below those of current index weights and no further tests were considered necessary.

The selection of an estimating method was ultimately made separately for each group. In a final step, it was necessary to adjust these independently estimated weights to total 100. This adjustment did not greatly change the unadjusted estimates. The total mean square deviations, using selective methods for each commodity group, were lower than those obtained by sole use of either Method A or Method B.

The following table compares the combined 34-city index weights of major groups for January 1950, before and after adjustment.

	Unadjusted	Adjusted
Food	41.6	33. 3
Apparel	12. 2	12.8
Rent	13. 8	11.6
Fuel, light, and refrigeration	5. 6	3. 7
House furnishings	4. 7	5. 7
Miscellaneous	22. 1	32. 9
Medical care	3. 3	5. 2
Personal care	2. 5	2.4
Automobile transportation	5. 5	7. 8
Other transportation	2. 5	3. 6
Reading and recreation	2. 9	5. 8
Household operation	3. 3	4. 1
Alcoholic beverages and tobacco	2. 1	4. 0
Total	100. 0	100. 0

In general, item weights and subgroup weights, except for food subgroups, were adjusted only where data for the 7 cities showed a consistent and unusually substantial difference between current index weights and actual expenditures. After such adjustments were made, the estimated percentage weights were adjusted to 100 within each group.

Food Subgroups

The changes made to food subgroup weights were comparatively small. Use of the 1948 food consumption surveys for Birmingham, Buffalo, Minneapolis-St. Paul, and San Francisco by the Bureau of Human Nutrition and Home Economics of the Department of Agriculture (adjusted for comparability with BLS 7-city survey data) provided data for 11 cities altogether which were used for adjustments in weights for all 56 food cities.

For most subgroups, the ratio of the adjusted survey percentage expenditures to the current index weights in 11 cities was fairly consistent and

was used to adjust index weights for other cities as in Method B. For two groups-meats, poultry and fish, and beverages-variation in the adjusted percentage expenditures in the 11 cities was very small, and no acceptable relationships between these expenditures and other factors could be established. For these groups, and for frozen fruits and vegetables, a new subgroup, the average of 11 cities was used as the estimate for all cities. For the remaining group, fresh fruits and vegetables, a good correlation was found between percentage expenditures and population density, apparently reflecting the influence of home gardens in less heavily populated areas. This relationship was used in estimating index weights for this subgroup. As a final step, separate subgroup estimates were adjusted to 100 within the food group.

Weights for food items which showed a consistent difference between current index weights and adjusted percentage expenditures in the 11 cities were adjusted by Method B. These adjustments resulted in the following weight shifts within subgroups besides addition of new items: increased, vanilla cookies and layer cake, hamburger, poultry, fresh milk, shortening, margarine; decreased, corn meal, rolled oats, rib roast, veal cutlet, butter, apples, canned tomatoes, coffee, sugar, lard, salad dressing.

Fuel, Light, and Refrigeration

Sizable shifts since 1934–36 in types of fuel used were observed in the 7 cities surveyed, and were known to have taken place in other cities. Gas for space heating and fuel oil were added for cities in which they had become important. Adjusted index weights for Birmingham, Indianapolis, and Portland, Oreg., surveyed by BLS for 1945, and Milwaukee, Savannah, and Scranton, surveyed by BLS for 1946, were based on the survey data, adjusted for changes in prices and consumption in the same way as were the 1947–49 surveys.

For the remaining 21 cities, varying sources of information were used for each city. Adjusted index weight subtotals were calculated for heating fuels and nonheating fuel items within the group by Method B. The relative expenditures for heating fuel items in wide use in the 7 cities were generally proportional to the percentage of families using each item, and this relationship was used in

distributing the total weight on heating fuels to the individual items.

Apparel, Housefurnishings, and Miscellaneous

Method B was used to adjust subgroup weights within the apparel group for 26 cities. Additional survey data available from a 1948 BHNHE survey were used for Minneapolis. The sub-group weight adjustments resulted in decreased weights for men's, boys' and girls' apparel, and increased weights for women's and infants' apparel and yard goods. No important adjustments of item weights were required in this group.

The housefurnishings group includes textile housefurnishings, furniture, heavy durable goods, and smaller household equipment. Because the items in the group are heterogeneous and because the direction of adjustments of index weights in the 7 cities was generally uniform for all items within the group, each item was adjusted by Method B. Weight adjustment within this group resulted in increased weight on washing machines and curtains and decreased weight on brooms, furniture, wool rugs, and cook stoves.

As already indicated, index weights were adjusted separately for each subgroup of items in the miscellaneous group. The adjustment of items weights within these subgroups was limited for the most part to a redistribution of weights within subgroups after introduction of new items.

In the personal care subgroup home permanent wave kits were added with weights based on average expenditures in the 7 survey cities.

Automobile repairs were added to the index pricing list for 21 of the 34 cities and their weight within the automobile operation subgroup was based on the average index weight in the other 13 cities. Domestic service was added to the index pricing list in 22 cities and its weight within household operation was based on the average index weights in the other 12 cities. Cleanser, matches, and laundry starch were deleted from all city lists.

Two new items, television sets in 27 cities, and velocipedes were added to the index pricing list for reading and recreation. The average percentage expenditure in 7 cities was used for velocipedes. Because the television industry has grown rapidly, the 7-city survey data for this item were unrealistic for index weights even for the survey cities. Aver-

age family expenditures for television, representing 1949 quantities at 1950 prices, were estimated for each of the 27 cities having TV stations, based on number of sets sold multiplied by an estimated average price calculated as a weighted average of prices of 3 leading manufacturers. Estimated family expenditures varied widely—from \$19.45 in one city to \$110.31 in another. Because of this and because it was impossible to anticipate changes in television expenditures in the near future, it was decided to use for each of the 27 cities the average of the 27 city estimates, reduced by 50 percent and converted to a percent of estimated family expenditures for reading and recreation.

Group hospitalization was added to the index pricing list of medical care items. Estimated family expenditures were calculated by multiplying the percentage of population enrolled in Blue Cross plans in each city by family hospitalization rates, both reported by the Blue Cross Commission of the American Hospital Association. Since these estimates were based on total population they were adjusted to represent family expenditures on the basis of observed survey data in 6 cities.

The introduction of new items in the miscellaneous group and the adjustment of weights on items showing consistent differences between index weights and adjusted percentage expenditures in the 7 cities, resulted in the following important shifts in weights within the group: weights were increased on automobile repairs and train fare and decreased on hospital rooms and doctor's fees, men's haircuts, and radios.

Recalculation of Indexes

The final step preparatory to recalculation of adjusted indexes was to distribute current index values (aggregates) for all items according to adjusted percentage weights for groups and items for each city. Since the food index is calculated with physical quantity weights, it was also necessary to calculate revised quantity multipliers reflecting both revised value weights and revised city population weights.

After extensive consideration of three alternative link dates for the new index series—January 1950, June 1950, and January 1951—January 1950 was finally chosen and published indexes back to

January 1950 were recalculated. The new unit bias correction was applicable to January 1950, and the adjusted quantity weights were more appropriate to this date than to June 1950 or January 1951.

Index aggregates were recalculated from January 1950 forward, using the same price relatives as in the old index (for items included in both series) and adjusted weights. The originally published January 1950 all-city indexes for rent and all items and January, February, or March 1950 city indexes (depending on frequency and schedule of price collection) were corrected for the new unit bias in the rent index. Indexes for the first month of the adjusted series, January 1950, are the originally published January 1950 indexes with rent and all items corrected for new unit bias. Price changes from January 1950 forward, calculated with adjusted group and item weights, were linked to these new January 1950 indexes to form the adjusted series.

Comparison of Index Series

The movement of the adjusted 34-city index series for all items since January 1950 has not been very different from the old series; the adjusted series rose 1 percent less over the year. The difference in movement of the two series is due chiefly to the downward adjustment of the weight on foods which increased sharply in price during the year, and to the increased weight on items in the miscellaneous group. The reprint of this article will contain tabular and graphic comparisons for the two series, both for all cities combined and for individual city indexes.

The difference in the level of the two indexes at the start is due solely to the correction of the rent index which was incorporated entirely in the month of January 1950.

The variation in the measurement of average price changes for all items reflects not only the group-weight adjustments but also the internal adjustments which are reflected in different changes for commodity group indexes. About one-half of the difference between the two indexes in their movement from January 1950 to January 1951 is accounted for by changes in the group weight; about three-eighths by changes in internal weights within groups; and the remainder by the interaction of the two kinds of changes.

	Percent increase in indexes: Average of 34 cities							
Item	January Januar		January 1950 to June 1950					
	Adjusted series	Old series	Adjusted series	Old series				
All items	7.9	8.8	1.2	2. 0				
Food	13. 2 7. 3 2. 9	13. 1 7. 9 2. 8	3.6 2 1.2	4. 4				
tion Housefurnishings Miscellaneous	2. 4 12. 3 4. 5	3. 2 13. 1 5. 5	6 .1 3	8 .3				

The combined effect of differences in weights and price movements for each major group on the measurement of average price change for all items from January 1950 to January 1951 is illustrated below mathematically. This table shows how the various groups account for a net difference of 0.9 in the price change on the two series over the year, and indicates the decreased influence of food and the increased influence of the miscellaneous group.

		Old index		Adjusted index					
	(1)	(2)	(3)	(4)	(5)	(6)			
Item	Price relative, Jan. 1950 to Jan. 1951	Weight, Jan. 1950	Prod- uct, (1) × (2)	Jan. 1950	Adjusted weight, Jan. 1950	Prod- uct. (4) × (5)			
All items	108.8	× 100.0 =	= 108.8	107.9	× 100.0 =	= 107.9			
FoodApparelRentFuelHousefurnishings.	107.9 102.8 103.2 113.1	× 41.6 = × 12.2 = × 13.8 = × 5.6 = × 4.7 = × 22.1 =	= 13.2 = 14.2 = 5.8 = 5.3	107.3 3 102.9 3 102.4 3 112.3 3	× 33.3 = × 12.8 = × 11.6 = × 3.7 = × 5.7 = × 32.9 =	= 13.7 = 11.9 = 3.8 = 6.4			

City Indexes

There are greater differences between the two index series for individual cities than for the 34-city average. The amount of the correction for new unit bias and consequently in the adjustment of index level at January 1950 for all items and rent varies widely. Moreover some of the weight adjustments, particularly for the 7 cities recently surveyed, have varied from the average adjustment, thus exerting different effects on group price movements.

Food

The measurement of average change in United States food prices over the whole period from January 1950 to January 1951 was almost the same by the two series. However, adjustment of the food subgroup and item weights dampened the sharp rise from April to July 1950 and the recent sharp advance in the 2 months from November 1950 to January 1951. It also eliminated the decline from July to September 1950, previously reported on the old series.

Other Groups

The result of weight adjustments for the fuel, light, and refrigeration group, has been both a smaller average rise and less sharp fluctuations of the index. This is because more weight has been given to more stable items, particularly gas and electricity, and less weight to coal.

Average price changes over the year for the apparel, housefurnishings, and miscellaneous groups have been lower, according to the adjusted series for these groups, reflecting the net effect of internal weight adjustments and addition of new items already mentioned. For housefurnishings, the difference seems to be due chiefly to the shift in weights from furniture and rugs to durable goods, prices for which had been more stable. For the miscellaneous group the differences seem to arise from the addition of television sets which decreased in price in the middle of the year; the shift in weight from doctors' and hospital fees to group hospitalization which had been more stable; and weight adjustments for men's haircuts, soaps, and other items.

Although the level of the United States rent index has been raised by the new unit bias correction, the movement of the rent indexes over the year is almost identical. The only differences arise from the slight effect of changes in city population weights on the average change for all cities.

—Doris P. Rothwell Division of Prices and Cost of Living

¹ A general discussion of the shortcomings of the index and of the Bureau's revision program will be found in "Revision of the Consumers' Price Index" in the Monthly Labor Review for July 1950.

² See Bureau of Labor Statistics Cost of Living Index in Wartime, Monthly Labor Review, July 1943; reprinted as Serial No. R. 1545.

³ See 1950 Census of Population, Preliminary Counts, Series PC-3, No. 3.
⁴ See Construction of Consumers' Price Index, Monthly Labor Review, September 1949.

b These data will be included in an appendix to a reprint of this article.

⁶ Because the survey from which Washington base index weights were obtained was not strictly comparable with other cities, Washington was not used in most of the estimating processes. Hence, the varying references to "6" and "7-city" surveys.

 $^{^7}$ Published by the Automobile Manufacturers Association in $\it Automobile Facts and Figures.$

Selection of Cities for Consumer Expenditures Survey, 1950

THE Survey of Consumer Expenditures in 1950, conducted by the Bureau of Labor Statistics, during January-May 1951, is one of the major phases of the Consumers' Price Index revision program.1 It will provide detailed information on the kinds and quantities of goods and services purchased by families and single consumers living in urban areas of the United States. In all, 97 cities were selected for study. Data for 1950 are being obtained for 91 of these cities, since 6 of them had already been surveyed in recent years.

The survey results will be used to bring up to date the weighting design and lists of items priced for the Consumers' Price Index. They will also furnish valuable information on the spending patterns of urban consumers at different income levels and of varying family size and composition. These data are widely used in marketing and other social and economic research.

The cities to be surveyed are representative of all urban places in the United States. The city sample is large enough to allow detailed analysis of various major classifications of cities such as size, geographic areas, and types, including industrial, commercial, institutional, etc.

The method of selecting the cities to be surveyed was based on three major considerations: (1) Choice of cities that are a good sample of the total urban population from which to estimate the United States urban spending pattern for various socio-economic groups. (2) Selection of cities that would make possible reliable estimates of the expenditure weights for price index purposes for any city in the United States. (In the past the Bureau, when asked to make such estimates without conducting an actual expenditure study, has had to rely primarily on data for nearby cities. More precise estimates of index weights for cities not surveyed can be made if the sample is designed with this use in mind.) (3) Procurement and publication of expenditure data for certain individual cities which are important marketing, industrial, commercial, or institutional centers. A Nation-wide urban sample of cities, randomly selected and supplemented by a purposive selection of additional cities, most nearly meets these three considerations.

Urban Population To Be Represented

The sample cities were selected to represent all cities and incorporated places in the United States having 2,500 inhabitants or more, and other areas classed as "urban" by the Bureau of the Census.2 Since 1950 population reports were not yet available when the sample was selected, city size was based on estimates of 1947 population. These estimates were obtained by adjusting the 1940 population counts by the estimated change in population for various areas from 1940 to 1947, as determined by the Bureau of the Census sample survey of 1947.3 For cities with 1940 population of 50,000 or more, the whole Census urbanized area around each city 4 was treated as a single sampling unit. All other urban places not included within an urbanized area were treated as separate sampling units. On this basis, there were 2,798 sampling units with a total 1947 estimated population of about 91 million. The distribution of all cities and sample cities by population size class is shown in table 1.

Table 1.—Distribution of all cities and sample cities by population size

Population size group	Num-		fro	ole selected m Latin are design	Purposive selection		
r opulation size group	ber of cities	estimates)			Num- ber of cities	Total popula- tion	
Group A: 1,000,000 and over	13	35, 500, 000	1 13	35, 500, 000	0	(
1,000,000	42	18, 400, 000	3 9	5, 161, 000	3 12	5, 678, 000	
Group C: 30,500 to 240,000 D: 2.500 to	216	18, 400, 000	9	1,057,000	4 21	2, 210, 000	
30,500	2, 527	18, 400, 000	16	167, 500	17	174, 500	
Total	2, 798	90, 700, 000	47	41, 885, 500	50	8, 062, 500	

Sample Design

The first two conditions for sampling, mentioned earlier, were: (1) A national urban sample; and (2) a sample from which estimated index weights could be made for any city in the United States.

¹ Includes two cities surveyed in 1947-48. 2 Includes one city surveyed in 1948. 3 Includes two cities surveyed in 1948-49. 4 Includes one city surveyed in 1947.

All 13 largest urbanized areas, having a total population of 35.5 million, were selected for their extreme importance from almost any point of view. These are hereafter referred to as Group A cities. The remaining cities have a total population of about 55.2 million. They were divided into three groups of equal population—18.4 million each: Group B—42 cities from 240,000 to 1 million; Group C—216 cities from 30,500 to 240,000; and Group D—2,527 cities from 2,500 to 30,500.

To satisfy the condition for a national sample it would have been possible to sample randomly from each of these groups of cities. Such a sample could also have been used to make estimates covering any other city by some detailed correlation analysis of expenditures based on known population characteristics. Estimating the total expenditure pattern requires the estimating of several thousand statistics on the detail of expenditures. Such correlation analysis represents a prohibitive amount of work. However, the distribution of expenditures among the important classes of goods and services may be approximated by easier methods. This is especially true in estimating only that degree of detail required for class or group weights for a price index.

Expenditure patterns for cities for which survey data are not available are often estimated by use of available data for the nearest city of approximately the same size. Since this method is subject to an unknown and large amount of error, it was decided that what was needed was some method of selecting cities so that estimates could be made simply, for any unsurveyed city.

In an attempt to do this cities were selected in the classification diagram which has been referred to as "the Latin Square" here explained: This diagram required classification and arrangement of each city by characteristics which are known to be related to expenditure distributions. Take, for instance, the 42 cities with populations of 240,000 to a million population. Each city was classified by density of population, relative temperature, and community income level. This information was recorded on cards, one for each city.

First, the 42 cities were ranked by population density from the most dense to the least dense.

They were then classified into 3 groups—thick, medium, and thin density—of about 6.1 million population in each group.

Next, the cities were ranked according to total annual degree days (i. e., relative temperature) from highest to the lowest. The cities again were classified into 3 groups—hot, mild, and cold—of about 6.1 million population each.

Finally, the cities were ranked according to community income level from highest to lowest, and classified into 3 groups of approximately 6.1 million population each. Each city in each group was designated as "high," "moderate," or "low" income.

The 42 cities, graded into 3 levels under 3 classifications, were then cross-classified into 27 possible classes of cities representing all combinations of the levels and classifications as in table 2. Nine classes of cities—3 in each level of each classification—were then selected in such a way that no combination of levels within classifications was repeated—no two classes of the same climate were of the same density or income level, etc. These 9 classes of cities formed what is known as a "Latin Square," with the combinations of characteristics shown in the accompanying chart.

Combinations of Characteristics of the "LATIN SQUARE"

CLIMATE		POPULATION DENSITY	INCOME LEVEL	
1	Cold	Thick	Moderate	
2	Cold	Medium	Low	
3	Cold	Thin	High	
4	Mild	Thick	High	
5	Mild	Medium	Moderate	
6	Mild	Thin	Low	
7	Hot	Thick	Low	
8	Hot	Medium	High	
9	Hot	Thin	Moderate	

From each of these nine cells one city was selected, with the chance of selection proportional to the size of city. Estimated index weights for any particular city that is not one of the nine selected can be made by using expenditure data obtained for the nine cities selected. If the city

Table 2.—Diagrams showing classification factors, number of cities in each cell, and the balanced Latin Square chosen for the sample 1

Group B Cities (240,000 to 1,000,000 population) 3 x 3 x 3 diagram

Income	Population density	Climate				
Income	ropulation density	Hot	Mild	Cold		
High	Thick	0 (1) 1	(1) 2 1	4 2 (2)		
Moderate	Thick Medium Thin	1 0 (2)	(3) 0	(1)		
Low	Thick	(2) (2) 2 6	0 2 (2)	0 (1) 0		

Group C Cities (30,500 to 240,000 population) 3 x 3 x 3 diagram

Tuesma	City Sies	Climate			
Income	City Size	Hot	Mild	Cold	
High	Large Medium Small	(4) 2 7	6 (3) 8	3 13 (16)	
Moderate	Large	3 (1) 6	4 9 (24)	(16) (5) 3 17	
Low	Large Medium Small	3 14 (30)	(2) 4 14	0 (6) 9	

Group D (2,500-30,500 population) 4 x 4 x 4 x 4 diagram

Income level			Climate				
	City size	Distance to mar- ket ²	Hot	Mild	Mod- erate cold	Cold	
	Large	A B C	0 (3)	2 4 1	0 13 7 17	5 8 8	
High	Medium large	A B C D.	(3) 1 3 5 1 12	1 6 5 2 3 6 8 5	1 10 12 (18)	5 8 8 6 1 8 2 9	
	Medium small	A B C D	6 4 3 9 4 5	6	2 21 11 17	4 4 10	
	Small	A B C D	4 5 2 10	14 (6) 14 13	4 21 15 26	7 13 11 20	
Moderate high (Large	A B C	1 2 1 1 3 1	4 5 3 2	1 4 4 5	(16)	
	Medium large	A B C D	3 1 1 3 3	(4) 5 7 6 7	5 12 11 11	4 3 9 11 6 9	
	Medium small	A B C	4 3 (9)	10 13 6	1 12 16 19	11 16 15 14	
	Small	A B C D.	3 5 7 9	13 9 13 20	3 25 (41) 36	15 28 17 18	

TABLE 2.—Diagrams showing classification factors, number of cities in each cell, and the balanced Latin Square chosen for the sample—Continued

Group D (2,500-30,500 population) 4 x 4 x 4 x 4 diagram-Continued

	City size	Distance	Climate			
Income level		to mar- ket ²	Hot	Mild	Mod- erate cold	Cold
	Large	A B C	6 6 4 1	5 2 7 2	(1) 4 3	2 2 0 2
Moderate low	Medium large	ABCD	10 (2) 3 3 6 5	10 5 16 5	1 2 7 4 8 7	14 9 4 1
	Medium small	A B C D	23	11 9 (15) 7	19 14 14	25 9 7 5 40 24
	Small	A B C	22 16 23 10	22 7 25 9	10 19 20 17	(12)
-	(Large	B	11 2 5 4	2 0 1 (1)	0 0 0	0
Low	Medium large	A B C D	22 3 3 11 42	(1) 7 2 3 8 21	0 2 1 0 2 2	0 0 0 1 0 (1) 2 10 6 4 4 38 29
	Medium small	B C D	14 27 17 (111)	9 23 7 42	(4) 4 3 17	6 4 4
	Small	B C	47 68 25	18 49 32	17 17 12 7	38 29 17 13

1 Sample cells are indicated by parentheses ().
2 A = Long distance to market.
B = Short distance to small market.
C = Short distance to medium market.

D=Short distance to large market.

happens to fall into one of the nine city classifications selected, then the survey results of the sample city in that class can be used directly for the city in which expenditures are to be estimated. If, on the other hand, the city is in one of the other 18 classes from which a sample city was not selected. an estimate could be made as follows:

Assume that an estimate of expenditures is required for a city which is cold, thinly populated, and with high income level. An average expenditure for the nine sample cities is calculated. and averages based on three cities for each classification characteristics are then calculated for-

Hot cities

Mild cities

Cold cities

Thick cities

Medium cities

Thin cities

High-income cities

Moderate-income cities

Low-income cities

The average of the three cities with low income is not affected by density or temperature characteristics since the three cities contain all three levels of population density and all three levels of temperature. Thus, each of the foregoing averages is affected by only one characteristic at a time. Therefore, the difference between each of these three-city averages and the grand average of the nine cities measures the net effect on the average expenditure of each of the three levels within each classification. Using the net effects of each classification characteristic, the average expenditure can be estimated for a city in a class from which there was no sample city. The estimate is calculated by adding to or subtracting from the average for nine cities, the net effects measured by the three-city averages.

Suppose that in the example the 9-city average expenditure was \$30, and differed from the 3-city averages as follows:

- + \$3 in the 3 Cold cities
- \$1 in the 3 Mild cities
- \$2 in the 3 Hot cities
- + \$2 in the 3 Thick cities
- + \$1 in the 3 Medium cities
- \$3 in the 3 Thin cities
- + \$1 in the 3 High income cities
 - 0 in the 3 Moderate income cities
- \$1 in the 3 Low income cities

Then the estimate for a cold, thinly populated, high-income city would be \$30 (the 9-city average) plus \$3 (the net effect of cold), minus \$3 (the net effect of thinly populated), plus \$1 (the net effect of high income) or \$31.

To estimate the average expenditure for all cities in the population size class 240,000 to 1 million, it is necessary only to estimate an average for each of the 27 city classes and weight the classes together by the total population of the cities contained in each class. To make an estimate for all cities, the 13 large cities (Group A) and the estimates of the three size groups (B, C, and D) of cities are weighted together by their total aggregates of population.

Estimates for individual cities not included in the sample are subject to four types of errors: (1) Sampling error in the average of the sample city (within-city error); (2) error of using the sample city average to represent the average of its class; (3) error of using the average effects of each characteristic, additively, to estimate the average of a class from which no city was selected (error of the estimating formula); and (4) error of using the estimated average of a class not surveyed to estimate a given city in that class.

When the survey is completed it will be possible to estimate expenditure weights for price index purposes for cities not surveyed and to approximate the error of the estimate.

The success of this method depends, of course, largely on classifying the cities by variables which are closely related to expenditure patterns. Since the thousands of items of expenditures are affected by so many different characteristics (e. g., fuel by the climate, housing by density, and medical care by income level), it is difficult to find those few characteristics which are common to the greatest number of expenditures.

Also the modes of classification must be independent one from the other; otherwise the threeway classification of the cities shows many blank cells and a balanced Latin Square cannot be selected. Cells in the classification diagram might be selected which contained no city. For instance, if the Bureau had used temperature as one mode of classification and geographic location for another mode of classification, cells classified as hot-northern and cold-southern would not likely contain any cities.

The problem of finding modes of classification which were closely related to expenditure patterns, but which were mutually unrelated, required study of many characteristics of cities before making the final choice for each particular group of cities. The selection of characteristics was further limited by the necessity of having comparable data for selected characteristics for all urban places. For the group of cities 240,000 to 1 million population, income level, climate, and population density were finally used; for the group of cities 30,500 to 240,-000, city size, income level, and climate were used. For cities under 30,500, 4 modes of classification were used with 4 levels in each classification. modes were-income level, climate, population size, and distance to nearest major market area. The following paragraphs explain the exact sources and treatment of the data used.

Income level was based on the average quarterly pay for employees covered by Old-Age and Survivors Insurance tabulations by counties. These data can be found in Business Establishments, Employments and Taxable Payrolls under Old-

Age and Survivors Insurance Program, First quarter 1947, by Industry Groups and Counties, U.S. Department of Commerce. The income classification of large cities, where the city population accounts for the major part of the county, was based on the published data without adjustment. For the smallest group of cities (under 30,500), the community income level was determined by a cross-classification of these average earnings data for the county in which the city is located and the 1940 Census average rent for the city. That is, cities were classified into five earnings levels—low, moderate low, moderate, moderate high, and high—by the average taxable earnings for the counties in which they were located. The moderate high level was observed to have a wide range in 1940 average city rents. It was therefore subdivided into low and high rent groups; the low rent portion was combined with the moderate income group and assigned to the "moderate high income" group; the high rent portion was assigned to the "high income" group.

Climate was based on Average Monthly and Seasonal Degree Days—Base 65° F. as tabulated in U. S. Weather Bureau, Climatological Data. Degree days are defined as the sum of the deviations below 65° F. in the daily mean temperature.

Population density is the ratio of 1947 estimated population to area in square miles.

City size consists of 1947 population estimates.

Table 3.—Cities in Group A and Groups B-D cities selected from the three Latin Squares

City	Population (1947 estimate)
New York, N. Y. Chicago, Ill. Los Angeles, Calif. Northern New Jersey area. Philadelphia, PaCamden, N. J. Detroit, Mich. ¹ Boston, Mass. San Francisco, Calif. St. Louis, Mo. Pittsburgh, Pa. Cleveland, Ohio. Baltimore, Md. Washington, D. C. ² .	9, 000, 000 4, 200, 000 3, 800, 000 3, 300, 000 2, 800, 000 1, 600, 000 1, 500, 000 1, 300, 000 1, 300, 000 1, 300, 000 1, 200, 000 1, 200, 000

GROUP B CITIES-Urbanized area population, 240,000 to 1,000,000

	D I.	Classification characteristics 3			
City	Popula- tion (1947 estimate)	Climate	Popula- tion density	Income	
Minneapolis-St. Paul, Minn	964, 000	Cold	Thick	Moder-	
Youngstown, Ohio	317,000	do	Thin	High.	
Scranton, Pa Seattle, Wash	240, 000 602, 000	Mild	Medium Thick	Low. High.	
Cincinnati, Ohio	829, 000	do	Medium	Moder-	
Kansas City, Mo	635, 000	do	Thin	Low.	
Atlanta, Ga Portland, Oreg	486, 000 532, 000	Hot	Thick Medium	Low. High.	
Houston, Tex.4	556, 000	do	Thin	Moder- ate.	

¹ Surveyed for 1948. ² Surveyed for 1947.

* Surveyed of 1947.

* Climate classification (in normal number of annual degree days): Hot—185 to under 4,417; Mild—4,417 to under 6,144; Cold—6,144 and over.

*Population density classification (persons per square mile): Thick—1,773.8 to 3,913.3; Medium—1,386.5 to 1,732.0; Thin—514.1 to 1,269.2.

*Income level classification (annual dollar earnings as reported under OASI): High—\$2,468 and over; Moderate—\$2,264 to \$2,460; Low—under \$2,240.

4 Surveyed in 1948.

Surveyed in 1948.
Sclimate classification (normal number of annual degree days): Hot—185 to 4,410; Mild—4,417 to 5,936; Cold—5,941 and over.
City size classification (population): Large—154,455 to 235,275; Medium—85,924 to 154,454; Small—30,273 to 85,923.
Income level classification (annual dollar earnings as reported under OASI): High—\$2,424 and over; Moderate—\$2,136 to \$2,240; Low—under \$2,132.
6 Climate classification (normal number of annual degree days): Hot—under 3,224; Mild—3,224 to under 5,232; Medium cold—5,232 to under 6,282; Cold—over 6,282.

GROUP C CITIES-Population, 30,500 to 240,000

46 44 49 34 4	•				
	Population (1947 esti- mate)	Classification characteristics 5			
City		Climate	City size	Income level	
Canton, Ohio Madison, Wis Middletown, Conn Huntington-Ashland, W. Va Charleston, W. Va Newark, Ohio San Jose, Calif Evansville, Ind Lynchburg, Va	190,000 87,000 31,000 169,000 138,000 219,000 140,000 48,000	Cold	Large Medium Small Large Medium Small Large Medium Small Large Medium Small Small Small Small Small Small Small	Moderate. Low. High. Low. High. Moderate. High. Moderate. Low.	

GROUP D CITIES-Population, less than 30,500

	Popula-		Classifica	tion characteristics 6		
City	tion (1947 estimate)	Climate	City size	Income level	Distance to market	
Grand Forks, N. Dak. Laconia, N. H. Rawlins, Wyo. Sandpoint, Idaho. Grand Island, Nebr. Ravenna, Ohio. Shenandoah, Iowa. Garrett, Ind. Shawnee, Okla. Middlesboro, Ky. Pulaski, Va. Anna, Ill. Lodi, Calif. Camden, Ark. Glendale, Ariz. Madill, Okla.	17,000 15,000 7,000 4,000 19,000 10,000 7,000 21,000 21,000 12,000 17,000 17,000 11,000 6,000 2,500	Cold	Med. large Med. small Small Large Med. large Med. small Small Large Med. small Small Large Med. small	High Mod. low do High Low Mod. high Low Mod. high Mod. low High do Mod. low	D A C B C	

City size classification (population): Large city—16,096-30,273; Medium large—9,512-16,088; Medium small—5,233-9,509; Small—2,500-5,232.

Distance to market classification: A = Long distance to market (over 76 miles to any marketing area). B=Short distance to small market (less than 76 miles to marketing area with retail sales under \$80,386,000). C=Short distance to medium market (less than 76 miles to marketing area with retail sales of \$80,386,000 to \$231,143,000). D=Short distance to large market (less than 76 miles to marketing area with retail sales over \$2,31,143,000).

Income level classification (earnings as reported under OASI): High—Cities in counties with average annual dollar earnings over \$2,360 and average city rent (1940) of \$26 and over per month. Moderate high—Cities with county average earnings between \$2,136 and \$2,360 and average city rent (256 and cities with county average earnings between \$2,136 and \$2,360 and sverage city rent (1940) under \$26 and cities with county average earnings between \$1,660 and \$2,360 and average in the county average earnings between \$1,660 and \$2,360 and \$ Low-Cities with county average earnings less than \$1,660.

Distance to market center (for small cities) is the distance in road miles that the city is to nearest market center. A market center was defined as any city with retail sales over \$40 million in 1947 as reported in Sales Management, March 1948.

Detailed tabulations of the 3 groups of cities under 1 million population, by the modes of classification, are given in table 2.

Sample Selection

For the three population groups of cities less than 1 million (Groups B, C, and D), a sample of cells was selected from each diagram to produce a balanced Latin Square as outlined above. The Latin Square for Groups B and C contained 9 cells and that for Group D, 16 cells.

Only one combination of cells was possible which would fulfill all the requirements of a balanced Latin Square for Group B. The reason is that the diagram contained a number of blank cells, the characteristic combinations of which did not describe any city of this size; for example, Group B contains no high-income, densely populated, hot city. The appearance of these blank cells in the diagram raises some question as to the efficiency of the design in estimating expenditure weights for cities not surveyed. Data obtained from cities added by purposive selection as described below will be used to test the estimates derived from the sample. For Group C there were 8 combinations possible, and for Group D a very large number of combinations.

The one combination of cells of Group B (just mentioned) was used in selecting the actual cities to be surveyed; of the 8 combinations of Group C. one was selected at random; and from the many combinations possible in Group D, the one which had the largest total population was selected. From each of the selected cells, cities were chosen at random.

The cities in Group A and those selected from the three Latin Squares are given in table 3.

Purposive Selection of Additional Cities

The sample of cities selected randomly from the Latin Square formed a Nation-wide urban sample and met the requirements for calculating estimates for any city in the United States. It did not,

Table 4.—Additional cities outside the Latin Square cells. Groups B-D

	Group B add	litional cities				
	Popula-	Classification characteristics ¹				
City	tion (1947 estimates)	Climate	Population density	Income level		
Milwaukee, Wis Providence, R. I. New Orleans, La Indianapolis, Ind Birmingham, Ala Norfolk-Portsmouth, Va Louisville, Ky Hartford, Conn Mlami, Fla Omaha, Nebr Denver, Colo. ² Memphis, Tenn. ³	779, 000 620, 000 591, 000 509, 000 492, 000 462, 000 326, 000 299, 000 453, 000 453, 000	Cold	Thick Medium Thick Medium do Thin do Thick Medium do	High. Moderate. Low. Moderate. Low. Do. Do. High. Moderate. Low. Do. Do. Do. Do.		

	Group C ado	litional cities				
	Popula-	Classification characteristics ¹				
City	tion (1947 estimates)	Climate	City size	Income level		
Salt Lake City, Utah	232, 000	Mild		Moderate.		
Phoenix, Ariz	220,000	Hot		Do.		
Oklahoma City, Okla	218,000	do	do	Low.		
Wilmington, Del	193,000	Mild		High.		
Des Moines, Iowa	182,000	Cold		Moderate.		
Little Rock, Ark	154, 000		Medium	Low.		
Wichita, Kans	137,000	Mild	do	Moderate.		
Charlotte, N. C	133,000	Hot	do	Low.		
Portland, Maine	111,000	Cold		Do.		
Charleston, S. C.	96,000	Hot		Do.		
Manchester, N. H.4	94, 000	Cold		Do.		
Jackson, Miss	84, 000	Hot		Do.		
Sioux Falls, S. Dak	37,000	Cold		Do.		
Albuquerque, N. Mex		Mild		Do.		
Butte, Mont	32,000	Cold		High.		
Ogden, Utah			do	Low.		
Tucson, Ariz	48,000	Hot		Moderate.		
Bakersfield, Calif	44,000	do		High.		
Cumberland, Md			do	Do.		
Bloomington, Ill	36,000	Cold		Low.		
Ranger Maine	31 000	do	oh l	Moderate.		

	Grou	ip D addition	nal cities					
	Popula-	Classification characteristics ¹						
City	tion (1947) esti- mates)	Climate	City size	Income level	Distance to market 5			
Cheyenne, Wyo-Salina, Kans-Santa Cruz, Calif-Fayetteville, N. C. Grand Junction, Colo. Barre, Vt-Columbia, Tenn. Antioch, Calif. Roseburg, Oreg. Nanty Glo, Pa. Grinnell, Iowa Pecos, Tex. Dalhart, Tex. Washington, N. J. Demopolis, Ala. Cooperstown, N. J.	5,000 5,000 5,000 4,000	Cold	do Med.large_ do do Med.small do do	Mod.high. Mod.low High High Mod.high. Low Mod.low Mod.high. High	D C A			

¹ Classification characteristics are the same as those used in the construction

of the Latin Square design.

2 Surveyed for 1948.

3 Surveyed for 1949.

4 Surveyed for 1947.

however, include a number of cities for which for particular reasons individual city data is important. For example, the probability of drawing many of the relatively small cities in some geographical regions, especially the Southwest and Mountain States in a Nation-wide sample is slight.

Experimentation with Latin Square designs, using geographic regions as a classification factor, indicated that the geographic distribution of cities selected from such designs would not be very different from that of the cities selected from the designs based on climate and income level. Therefore, it was decided that the need for individual data for such cities could be met best by purposive selection.

Furthermore, it was apparent that the variability in expenditure patterns among small places was considerably larger than that among the large cities. For this reason it seemed advisable to expand the coverage of the sample in the small city strata in order to provide estimates of expenditure patterns for small cities of various

types. Additional cities outside the Latin Square cells were also needed in order to test estimated expenditure weights derived from the sample cities. To meet these needs, it was decided to survey the largest city in each State, providing the population was 30,500 or more and the State was not already represented by a city of over 30,500 population in the selection from the Latin Square.

In addition, a city was selected randomly, proportionate to size, from each of the 6 cells of the small city classification of Group C (under 86,000) not represented in the original Latin Square. For Group D another Latin Square combination of 16 cells, with no cell of the previous selection included, was selected at random. A city was chosen within each cell of this set giving preference to cities in States not represented or to important regions and areas not covered. These extra cities, shown above, complete the list of the 97 cities in the Survey of Consumer Expenditures.

—MARVIN KOGAN
Division of Prices and Cost of Living

¹ For further discussion, see Revision of the Consumers' Price Index, Monthly Labor Review, July 1950 (p. 129), and Consumer Expenditure Study, 1950, Monthly Labor Review, January 1951, (p. 56).

² See 16th Census of the U. S. 1940 Population, Volume I, Number of Inhabitants, Bureau of the Census and Urbanized Areas, Bureau of the Census, November 15, 1949. Some States do not incorporate places of less than 10,000 population. The Census Bureau designates places in these States as urban if (1) they are made up of towns (townships) containing a village having 2,500 inhabitants or more, or (2) they contain a thickly settled area of 2,500 inhabitants or more which comprises by itself or in combination with other villages within the same towa, more than 50 percent of the total population of the town.

Another type of unincorporated area classified as urban by the Census Bureau is made up of townships and other political subdivisions which have a total population of 10,000 or more and a population density of at least 1,000 persons per square mile,

The Census has designated the closely settled urban fringe in and surrounding cities as urbanized areas for the 157 cities which had 50,000 or more inhabitants in 1940. Places are included in these areas if they are contiguous to the central city, or if they are contiguous to an area already included. These places are: (1) incorporated places with 2,500 inhabitants or more; (2) incorporated places with fewer than 2,500 inhabitants provided the incorporated place includes an area with a concentration of 100 dwelling units or more; (3) unincorporated areas with at least 500 dwelling units per square mile; (4) areas devoted to commercial, industrial, transportational, recreational, and other miscellaneous uses functionally related to the central city. In addition, all outlying areas within 1½ miles of a central contiguous urban area measured along the shortest connecting highway are included as are those outlying areas within ½ mile of another outlying area which is within 1½ miles of a central contiguous urban area.

³ The percentage change was obtained as follows: (1) If located in one of the metropolitan areas of which the population was estimated by the Bureau of Census Sample Survey of 1947 (p. 21, No. 35), the percentage derived by Census was used. This percentage was applied to all places in the metropolitan district. (2) Where a special census was taken (since 1946), that figure obtained by the special census was used. (3) All other places were assumed to have increased in population at the same rate as the whole State

after allowance for places coming under (1) and (2) above. State population increase from Bureau of Census Sample Survey (p. 25, No. 12, Aug. 9, 1948).

A comparison was made between the 1947 estimates and the 1950 preliminary population reports of the Census which have just become available. Most of the estimates were within 10 to 15 percent of the 1950 count with the exception of a number of small cities and certain cities located in the western and southwestern portions of the United States. In general, the differences between the estimated and actual figures do not change the relative position of cities with respect to the population-size classes used in the sample selection.

⁴ The Census urbanized area consists of a central city or cities by which it is designated and surrounding urban area both incorporated and unincorporated. For 17 of the 157 urbanized areas established by the Census, the actual delineation had not been completed when the selection of cities was made. The metropolitan district definition was used to designate the urban boundary for these 17 areas.

Six of the designated urbanized areas were separated into sub-areas which were considered as more appropriate units for expenditure and price studies. The sub-areas (other than the central city areas) which were treated as separate sampling units in the universe follow:

(1) The New Jersey portion of the New York urbanized area; (2) The DuPage County, Ill., portion of the Chicago urbanized area; (3) The Lake County, Illinois portion of the Chicago urbanized area; (4) Will County, Ill., and Lake and Porter Counties, Ind., portion of the Chicago urbanized area; (5) The New Jersey portion (other than Camden, N. J.) of the Philadelphia urbanized area; (6) The New Kensington (and environs in Allegheny and Westmoreland counties) portion of the Pittsburgh urbanized area; (7) The Beaver County portion of the Pittsburgh urbanized area; (8) The extreme northern part of the San Francisco urbanized area consisting of parts of Contra Costa, Solano and Marin Counties of California; (9) The extreme southern part of the San Francisco urbanized area consisting of parts of San Mateo, Santa Clara, and Alameda Counties in California; (10) The Middlesex and Essex Counties, Massachusetts portion of the Boston urbanized area consisting of parts of Norfolk and Plymouth Counties, Massachusetts.

⁶ For further information on the Latin Square see R. A. Fisher, The Design of Experiments, 3d Edition (Olfver & Boyd Ltd., London 1942), Chapter V; particularly p. 86.

Correction of New Unit Bias in Rent Component of CPI

The understatement of the rise in rents during the past decade reflected by the rent component of the Consumers' Price Index, and by the CPI itself, has been corrected and is here described. It arose during the war and postwar years from the failure to reflect the difference between rents charged for new dwellings when they first enter the rental market and those of comparable dwellings already in the market.¹ This difference is equivalent to a price change which properly should be reflected in an index of rents and prices.

The 3-year revision program of the CPI, authorized in the fall of 1949, included comprehensive housing studies in each of the 34 city areas covered in the CPI and made the correction possible. From surveys conducted early in 1950, the Bureau of Labor Statistics is now able to announce that the correction to the rent index for the accumulated downward bias for 10 yearsfrom 1940 to 1950—is 5.5 percent of the January 1950 rent index and 0.8 percent of the "all items" index for the 34 cities combined. Applying this correction to the January 1950 index would raise the rent index by 6.8 index points and the all items index by 1.3 index points. The amount of this correction is somewhat higher than the 1949 rough estimate which follows, because it takes into account the very high rate of new rental construction during 1949 and also because the measurement was more accurate.

Several rough estimates of the understatement had previously been made by the Bureau so that users of the CPI could appraise the extent of this "new unit" bias.² However, they were not incorporated into the CPI because of the meager data upon which they were based. In July 1949, the Bureau made its last rough estimate that, as a result of this "downward bias" from 1940 to 1949, the rent index in February 1949 was too low by something between 3½ and 5 index points, and that as a result the all-items index was too low by something between 0.6 and 0.9 index points.

Origin of New Unit Bias

The procedure used in making the correction for the "new unit" bias in the rent component of the CPI was of course conditioned by the basic concept of the index and can be clarified by a brief review of how the bias originates.

The CPI measures average changes in retail prices of a bill of goods and services of constant quantities and qualities, purchased by moderate income families. It is designed to show the influence of price changes only, and to exclude the effect of changes in the quantities or qualities purchased. Because of the difficulty of determining which houses are identical in quality, the Bureau has measured changes in rents for samples of identical houses as a means of arriving at the change in rent for dwellings of identical quality. If the rent for a unit is not reported at the beginning and the ending months of the period for which rental change is measured, that unit is excluded from the tabulation.

Additions to the rental market (created by new construction or conversion) do not have an "earlier" rent when they first come onto the market, and therefore the procedures for calculating the index do not reflect the difference in rent between "new" units and comparable existing units. Consequently the price change—between average rents for dwellings in one period and the average rent for identical qualities of housing, including new dwellings, in a later period—which properly should be reflected in the index, is missed.

Normally in a market free from rent controls there is no consistent differential in price between "new" units and comparable existing dwellings. However, during periods of rent control, those market forces which tend to equate the rents for "new" and "old" housing of identical quality are not permitted to function.

Thus, during the war and postwar years—a prolonged period of rent control and housing shortages—additions to the rental market almost always came on the market at higher rents than those for comparable dwellings already in existence.³ It is the failure of the index to reflect this difference which introduced the consistent downward bias that is referred to as the "new unit bias" in the rent index.

At the same time, the Bureau has been unable to bring up to date frequently the sample of tenant dwellings from which rental data are obtained. Newly built rented dwellings are drawn into the samples only when a new sample is drawn. Since 1940, the Bureau has been able to revise its samples in 1942, in 1944–45, and again in 1950 as a result of the surveys upon which the Bureau based the present correction of the new unit bias.

Requirements for Making the Correction

Two kinds of data were required in order to correct the rent index for each city: (1) the proportion of the total number of rental dwellings which were additions to the rental housing market over the 10-year period; and (2) the average relative difference in rents between these and comparable existing dwellings. The volume of additions to the rental market and the relative importance of these additions to the total rental housing supply could only be determined by a sample survey of housing in each city area.4 While there were some data on average rents by cities, no source was available that could supply average rents for units created prior to 1940 and for units created in the last 10 years. Here again, to measure rents by quality classes, a specially designed survey of housing was required.5

Estimating Volume of New Rental Housing

In order to keep within the strict time schedule established for the Bureau's revision program, a third of the comprehensive housing surveys were conducted in December 1949, January 1950, and February 1950, respectively. In order to estimate the volume of new rental construction in the housing market area of each city, the surveys were designed to insure adequate representation of all kinds of blocks in the area to be covered, and at the same time to cover that area around the city which represented its housing market.

Survey Area. Boundaries established for the survey area determine to an important degree the accuracy of an estimate of the proportion of new and old dwellings. In large cities particularly, the proportion of new buildings in the suburbs has been greater than in the central city. It was therefore important that the Bureau should survey the area which included the city's primary housing market and yet not cover housing located beyond the direct competitive influence of housing in the central city.

The use of the Census standard metropolitan

area as the survey area was rejected because it included a territory too large both from the standpoint of survey cost and housing market uniformity. The metropolitan area is defined as the entire county in which the central city is located as well as adjacent counties which are closely related economically to the central city. As a result, the area takes in much rural housing, as well as communities with housing markets comparatively unrelated to that of the central city.

The new Census designation of the urbanized area, designed to separate urban and rural population more efficiently in the vicinity of large cities for the 1950 Census, was found to parallel closely the primary housing market for most cities.⁶

Accordingly, these urbanized areas were adopted in establishing the outer limits to be covered by the dwelling unit surveys in 28 of the 34 cities. In Boston, Chicago, Philadelphia, Pittsburgh, and San Francisco, the urbanized areas were too extensive to be analyzed economically and were considered to cover much more than the city's primary housing market area. After consultation with staff members of the Housing and Home Finance Agency and the Federal Housing Agency, those portions of the urbanized areas not considered a part of the primary housing market for the five cities were dropped. The New York City survey was confined to the five boroughs.⁷

Sample Design. To insure an accurate representation of all types of housing in the area in the selection of the sample of blocks, separate treatment was given to blocks that were densely populated, to blocks occupied largely by a racial minority, and to blocks and areas where housing development was considered to have been likely since 1940. On the basis of data available from the 1940 Census Bulletin of Block Statistics, the blocks in each city were separated into these strata and sampled separately. All areas in the city which in 1940 were geographically large and sparsely developed or entirely undeveloped, and the survey areas beyond the city limits were investigated by a special field survey team. This was done in order to identify areas of new construction and blocks containing apartment developments. These strata of newly developed areas (built in 1940 and after) and old developed areas were then sampled separately to insure a full representation of blocks containing new housing.

Densely populated blocks or blocks containing apartment developments were sampled relatively more heavily than small blocks or nonapartment blocks. However, within the large blocks the dwelling units were sampled at a less intensive ratio than in the small blocks. The product of the "block" ratio and the "within-block" ratio in both cases equaled the over-all sampling ratio.

This procedure increased the chances of properly representing new apartment developments, particularly in those cities containing a relatively small number of such developments. It also insured a smaller sampling error on the average rent. The in-block ratios in both the small and large blocks were selected so as to yield approximately eight dwelling units (owned and rented) per block (and in most cities about four rented units per block). Analysis of the variability of rents within blocks and between blocks and the relative costs of sampling blocks and sampling dwellings within blocks, showed that, by obtaining approximately four rental units per block, about the optimum expenditure of the funds available for the survey would be achieved.

The size of the sample in each city was fixed in order to achieve two standard errors of \$1.40 on the average rent. Considerably larger samples were required to achieve the stated degree of accuracy in cities with a high variance in rent than in those with more uniform rents.

The total number of blocks and the total number of dwelling units included in the sample for each of the 34 cities are shown in table 1.

Classifying Units as "Old" and "New." Descriptive information for each dwelling in the sample was obtained by personal visit of a Bureau field representative to the dwelling. The representatives were instructed to classify each structure by whether it was built before 1920, between 1920 and 1939, or the exact year if "new," i. e., built in 1940 and after. If the occupant could not state the year the structure was built, agents attempted to get the information from longtime residents in the block. In addition, each unit in the sample was classified by whether it was created when the structure was built, or by subsequent conversion of the structure. This included structures converted from a nonresidential to a residential use, as well as units created by internal structural changes to already existing residential

Table 1.—Number of blocks and dwelling units sampled in the December 1949-February 1950 Surveys

City	Total n		City	Total no	
	Blocks	Units		Blocks	Units
Atlanta	446	4, 300	Milwaukee	431	2, 800
Baltimore	1, 105	5, 900	Minneapolis	510	3, 700
Birmingham	566	4, 100	Mobile	639	6, 100
Boston		4,500	New Orleans	370	3, 100
Buffalo		3, 100	New York	1,302	9,800
Chicago	836	5, 500	Norfolk	488	3,800
Cincinnati		4,000	Philadelphia	790	5, 10
Cleveland		3, 900	Pittsburgh	748	4, 30
Denver		3, 200	Portland, Maine	325 602	2,00
Detroit Houston	785 656	5, 500	Portland, Oreg	466	3, 20
Indianapolis	505	5, 000 4, 500	St. Louis	1, 134	8, 40
Jacksonville	448	2, 700	San Francisco	474	3, 50
Kansas City	413	3, 200	Savannah	339	2, 70
Los Angeles	745	5, 900	Scranton	518	3, 30
Manchester	393	2,300	Seattle	745	4, 70
Memphis	644	4, 900	Washington	1,367	9,80

dwellings. Typical of structural conversions were the tearing out or building of partitions, doors, or walls; or the installation of a sink, toilet, bathtub, or shower. Regardless of when the structure was originally built, units created by structural

Table 2.—Relative proportions of all rented and all owneroccupied dwellings built or created by structural conversion in 1940 or after, December 1949–February 1950

[In percent]

Area	Tenant-occu- pied		Owner-occu- pied	
	New 1	Old 2	New 1	Old 2
Atlanta	19	81	26	74
Baltimore	30	70	22	78
Birmingham	18	82	25	7.
Boston	5	95	6	9.
Buffalo	16	84	16	84
Chicago	4	96	15	8
Cincinnati	8	92	15	8
Cleveland	7	93	21	7
Denver	19	81	28	7
Detroit	9	91	31	6
Houston	33	67	53	4
Indianapolis.	13	87	20	8
Jacksonville	16	84	35	6
Kansas City	18	82	11	8
Los Angeles	27	73	38	6
Manchester	8	92	15	8
Memphis	20	80	31	6
Milwaukee	9	91	16	8
Minneapolis	9	91	20	8
Mobile	42	58	36	6
New Orleans	15	85	30	7
New York City	10	90	11	8
Norfolk	44	56	35	6
Philadelphia	14	86	15	8
Pittsburgh	10	90	16	8
Portland, Maine	11	89	15	8
Portland, Oreg	31	69	22	7
Richmond	17	83	28	7
St. Louis	4	96	17	8
San Francisco	20	80	22	7
Savannah	22	78	31	6
Scranton	4	96	4	9
Seattle	29	71	30	7
Washington	40	60	33	6

¹ Not in existence prior to 1940.

² In existence prior to 1940.

changes in 1940 or after were considered as "new" additions to the rental market.

For each of the 34 city areas surveyed, the proportion of all existing dwellings in 1949–50 which were created in 1940 and after is shown in table 2. In 24 of the 34 cities, the proportions built in the last 10 years were greater for owner-occupied dwellings than for rented dwellings, confirming other evidences of the substantial shift to home ownership since 1940. Among the cities where a higher proportion of rental units were built since 1939, are localities where substantial public- and private-war housing developments were initiated; for example, Mobile, Norfolk, Portland, Oreg., and Washington, D. C.

In general, the greatest proportion of new rented dwellings were in southern cities; the smallest proportion was in the northeastern and midwestern cities. New tenant-occupied dwelling units range from 44 percent of the total rental market in Norfolk to 4 percent in Chicago, St. Louis, and Scranton.

Estimating Rent Differentials

The second step in the computation of the correction for the new unit bias required the separation of the sample of tenant-occupied dwelling units into groups having the same characteristics. Within each of these groupings—or cells of comparable quality—the average rent for the new and old units could then be compared to determine the difference in rent for each quality grouping on the survey date. These group or cell differences were combined with weights based on the number of new units in each quality group (quality cell) to obtain for each city the average differential in rent between new and old units of comparable quality.

Measuring Housing Quality. Any precise measure of housing quality would necessitate an expert individual appraisal of both structure and location of each old and new house. However, the size of the Bureau surveys, involving the sampling of 153,000 dwellings in 34 areas within a short period, limited the selection of quality characteristics to those that were susceptible to collection in mass surveys: namely, to those characteristics which could be ascertained by field representatives from a visual inspection of the neighborhood and the structure, and by objective and easily

understood questions to be asked of the occupants of the dwelling. By collecting simple and objective data, it was possible to obtain samples of sufficient size to reduce the sampling error to a reasonable limit. The data obtained included descriptions of the dwelling unit, the structure containing the unit, and the neighborhood.

The description of the dwelling unit consisted of such items as the number of rooms and bathroom and plumbing facilities (ranging from no running water to two or more private bathrooms). Number of rooms is of primary importance in differentiating quality levels among living units in similar neighborhoods and structures; the type of bathroom facilities is highly correlated with over-all housing quality.10 Additional information obtained on the kind of facilities available in the dwellings consisted of type of cooking fuel, kind of heating equipment, kind of refrigeration, and utilities and furniture included in the rent. Quality is generally indicated in most urban housing by the use of gas or electricity for cooking and by mechanical refrigeration. A dwelling having a furnace is symptomatic of a higher housing quality than a corresponding dwelling having an old-fashioned installed heating stove.

Structural characteristics taken into account included the type of exterior building material and whether the dwelling was a single-family home, flat, or apartment. Each dwelling in the sample was classified as "dilapidated" or "not dilapidated." ¹¹ A dwelling was classified as dilapidated if it had one major defect, a combination of minor defects, or inadequate original construction.

The neighborhood where each dwelling unit was located was described by the presence of such hazards as a railroad or an inter-city truck route. The extent of commercial or industrial development and the accessibility of play space and schools were also reported. At the same time, each enumerator was required to rate the neighborhood by general appearance (whether it was well kept, average, run down, very poor) and to enter his subjective rating of the quality of the neighborhood.

Because the appearance and over-all quality ratings were subjective, an effort was made to clarify and standardize the basis for each possible rating in the training sessions held in the cities prior to each survey. During the field work, supervisors made frequent checks of the interviewers' evaluations of all of the items. Postaudit showed that the correlations between the over-all ratings and the objective characteristics reported were good, indicating that the ratings on over-all quality were consistent and reasonable and consequently could be used in the comparisons.

Construction of Quality Cells. Although the number of characteristics obtained in the surveys was limited, the total number of theoretically possible quality cells was enormous-more than 1.5 million. Of course, most of them would never occur since the descriptive characteristics for a dwelling are highly correlated. For example, a dwelling which contains two or more complete private bathrooms never consists of one to three rooms; and an urban dwelling with one complete private bathroom usually has modern cooking facilities. Such correlation among housing characteristics indicated the possibility of eliminating certain of the descriptive items in the construction of the quality cells. In turn, any reduction in the amount of descriptive material needed for matching new and old units accurately would correspondingly reduce the complexity and cost of the operation.

To test the practicability of simplifying the comparisons, various levels of progressively more detailed specifications were used in an experimental classification of the units into quality cells. If there was little change in the average differences in rent between new and old units, regardless of whether the units were classified by a few characteristics or by many, naturally the smaller number of characteristics could be used. In this experiment with three cities, however, it became apparent that all of the characteristics were needed.¹²

Imputing Cell Differentials. The decision to compare units using the most exact descriptions available created a further problem. In the cities covered experimentally, it was observed that as the number of characteristics used in describing the quality cells was increased, there was a greater number of quality cells of new units into which the old units failed to fit.

In dealing with these "incomplete" cells, several alternatives were considered. The problem was finally handled by assigning to each incomplete cell the differential in rent from that "complete" cell nearest to it in quality. When two or more complete cells were equally near in quality, that

cell having the nearest average rent (based only on its new units) was assigned to that of the incomplete cell. This imputation procedure was required for each of the 34 cities. It raised the differentials for 15 cities, lowered them for 18 cities, and made no change in 1 city. Typical comparisons between the differences computed from complete cells only, and differences computed from complete cells plus imputed incomplete cells follow for five cities:

	Differentials based on-		
	Complete cells	Complete cells and imputed incomplete cells	
	[Old units=100]		
Atlanta	158	166	
Buffalo	152	150	
Chicago	131	137	
Kansas City	156	152	
Milwaukee	143	142	

A further refinement of the procedure was necessary to avoid possible bias resulting from over-representing any single cell, i. e., assigning its rent differential to a disproportionate number of incomplete cells. If one cell difference was imputed to many incomplete cells the total of which contained 10 percent or more of the total number of new units in the sample, the average differential of the *three* complete cells nearest in quality was substituted to provide a more dependable imputation.

Rent Differences by Cities. The final average difference in rent between new and old rental dwellings of comparable quality obtained for each of the 34 areas is given in table 3.

Table 3.—Percentage difference between rentals of units coming on the market in 1940 and later, and rentals of similar older units, as of December 1949–February 1950 [Old units=100]

City	Percent new unit rentals are of comparable old unit rentals	City	Percent new unit rentals are of comparable old unit rentals
Atlanta	166	Milwaukee	142
Baltimore	140	Minneapolis	126
Birmingham	152	Mobile	114
Boston	166	New Orleans	199
Buffalo	150	New York	145
Chicago	137	Norfolk	138
Cincinnati		Philadelphia	
Cleveland		Pittsburgh	104
Denver		Portland, Maine	107
Detroit		Portland, Oreg	121
Houston		Richmond.	185
Indianapolis	122	St. Louis San Francisco	156
acksonville		San Francisco	
Kansas City		Scranton	
Los Angeles Manchester		Seattle	
Memphis	163	Washington	150 123

There is some indication of a regional pattern, with southern cities as a whole showing a greater difference than northern cities. Outstanding exceptions to the pattern in the South are Jacksonville, Mobile, and Houston. In these cities, either public war housing was substantial or rents were decontrolled.

Index Correction Factor. The relative volume of new rental housing in relation to total rental housing (table 2) and the percentage rent differences of new units over old units (table 3) were combined for each city to estimate the amount of the new unit bias and to obtain a correction factor which can be applied directly to the rent component of the CPI for each city. The actual procedure is illustrated by the calculation of the correction factor for Buffalo (rounded figures used for illustrative purposes):

Rental units built or converted 1940 or after	16
Rental units built before 1940	84
Total	100
Rent difference for new units (relative to old units)1	150
Rent difference for old units 2	100

² By definition.

Computation of the rent index correction factor:

	Percent of total units		Relative rent difference
New units	16×150	=	24.00
Old units	84×100	=	84. 00
	100		108. 00

Thus, the correction factor for the rent index is

This correction factor can then be applied directly to the rent index for Buffalo to obtain the adjusted rent index as follows:

Rent index Correction factor Index points to be added
$$126 \times 8\% = 10$$

The correction factor to be applied to the "all items" index in each city was the product of the rent-index correction factor and the relative importance of rent to "all items."

The correction factors for the combined 34-city indexes were obtained by weighting the correction factors for each city according to the proportion of population in that city compared with total population of all 34 cities.

Correction factors for each city and the effect of the correction factors on the October 1950 rent and all items indexes by index points to be added are shown in table 4.

Table 4.—Correction to the rent index and the "all items" Consumers' Price Index for accumulated new unit bias, 1940 to January 1950

	Month	Effect, for month indicated, on-			
City		Rent index "Old series"		"All items" index "Old series"	
		Percentage adjustment 1	Index points to be added	Percent- age adjust- ment 1	Index points to be added
34 cities combined	Jan. 1950 ²	5. 5	6.8	0.8	1.3
Atlanta Baltimore Birmingham Boston Buffalo Chicago	Nov. 1949 Dec. 1949 Jan. 1950 Jan. 1950 Jan. 1950 Jan. 1950	12. 3 12. 0 9. 6 3. 6 7. 8 1. 7	15. 5 14. 3 13. 7 4. 2 9. 7 2. 3	1. 4 1. 6 1. 3 . 6 1. 1	2. 5 2. 7 2. 1 . 9 1. 8
Cincinnati Cleveland Denver Detroit Houston Indianapolis Jacksonville	Jan. 1950 Nov. 1949 Jan. 1950 Jan. 1950 Jan. 1950 Jan. 1950 Dec. 1949	4. 4 7. 1 19. 7 4. 5 12. 2 2. 8 2. 3	5, 2 9, 1 24, 8 5, 9 17, 2 3, 8 3, 3	.5 .9 2.6 .7 1.6 .4 .3	.8 1.6 4.3 1.2 2.7 .6
Kansas City Los Angeles Manchester Memphis Milwaukee Minneapolis Mobile	Jan. 1950 Jan. 1950 Jan. 1950 Dec. 1949 Nov. 1949 Dec. 1949 Dec. 1949	9.3 11.7 5.9 12.8 3.9 2.3 6.1	11. 8 14. 8 6. 9 16. 8 5. 1 3. 2 7. 8	1. 2 1. 5 . 5 1. 6 . 5 . 4 . 6	1.9 2.5 .9 2.7 .9 .6 1.0
New Orleans New York Norfolk	Nov. 1949 Jan. 1950 Nov. 1949 Jan. 1950 Jan. 1950 Dec. 1949 Jan. 1950	14. 5 4. 6 17. 1 2. 5 . 4 . 7 6. 4	16.7 5.0 19.9 3.0 .4 .8 8.3	1.6 .7 1.8 .3 .1 .1	2.7 1.1 3.1 .5 .1 .1
Richmond St. Louis San Francisco Savannah Scranton Seattle Washington	Jan. 1950 Dec. 1949 Dec. 1949 Jan. 1950 Nov. 1949 Nov. 1949 Nov. 1949	14.7 2.5 4.6 17.6 14.7 9.1	17. 0 3. 0 5. 4 20. 9 . 7 18. 4 9. 7	1.7 .3 .5 1.9 .1 1.7 1.4	2.8 .5 .9 3.2 .1 2.9 2.3

¹ Small rounding differences may occur when the figures in this column are computed from the revised and old indexes for a city.
² Based on the October 1950 'old series'' index the percentage adjustment in the rent index would be 5.7 percent or 7.1 index points, and for the ''all items'' index the percentage adjustment would be 0.7 percent or 1.3 index points. These percentages were reported with the October 1950 Consumers' Price Index release.

Sampling Error of Index Multiplier. As indicated, the index multiplier for each city's rent index is determined by the relative importance of new rental housing to all existing rental housing, and of the average difference in rent between new units and comparable old units. Since both of these figures were obtained from a survey of a sample of dwellings in each city area, the survey results may differ from those which would have been obtained from a complete enumeration of all dwellings in each city area.

It is possible to estimate the error in the index multiplier caused by sampling variability. Strictly, the index multiplier is determined by the proportions of new rental units to all existing rental units multiplied by the difference in rent for new units, plus the proportion of old rental units to all existing rental units multiplied by the difference in rent for old units. The difference for old units is always zero by definition and therefore cannot contribute any error to the index multiplier. Since the old units are proportionately more important than the new units (in 23 cities, old rental units comprised more than four-fifths of all the rental dwellings) and since there is no error contributed by the difference for old units, it was possible to calculate the index multiplier without resort to extremely large (and costly) samples.

Thus, the index multiplier is subject to only two types of sampling error: (1) the sampling error of the proportion of new rental units to all rental units, as well as the proportion of new rental units in each quality cell to all new rental units; and (2) the sampling error in the rent difference for new units within each quality cell containing new units.

Because of the lengthy and costly tabulations involved, the calculation of the sampling error of the index multiplier was limited to six cities. The cities selected include those with small and large correction factors, as well as some of the most heavily populated cities:

	Rent index		All items	
	Correction factor	Maximum difference 66 times out of 100	Correction factor	Maximum difference 66 times out of 100
Chicago	1.7	± 0.5	0.3	± 0.1
Boston	3. 6	±.5	. 6	±.1
New York	4. 6	±.5	.7	±.1
Washington	9. 2	± 1.3	1.4	$\pm .2$
Los Angeles	11.7	± 1.6	1.5	±.2
Houston	12. 2	± 1.6	1. 6	$\pm .2$

Figures for the six cities show a strong tendency for the size of the error to correlate with the size of the correction factor. On the basis of this correlation the sampling error for the 34 large cities combined can be estimated. The chances are 19 in 20 that the 5.5 percent correction factor for the 34 large city rent index in January 1950 is within the range of 5.1 to 5.9 percent; and the chances are 19 in 20 that the 0.8 percent correction

Table 5.—Estimated accumulation of the new unit bias for the periods 1940-46 and 1947-49

City	Percentage adjust- ment 1940-46 ¹		Percentage adjust- ment 1947-49 1	
	Rent	All items index	Rent	All items index
34 cities combined	1.4	0. 2	4.0	0.6
Atlanta Baltimore Birmingham Boston Buffalo Chicago	1.7 .7 2.5	.2 .4 .2 .1 .3 .1	10. 2 8. 3 7. 8 2. 9 5. 2 1. 2	1. 2 1. 2 1. 1 1. 1 . 5 . 8
Cincinnati. Cleveland Denver Detroit Houston Indianapolis. Jacksonville	2. 5 3. 0 2. 1 2. 3	.1 .3 .4 .3 .3 .1	3.7 4.5 16.2 2.4 9.7 1.9 1.3	.4 .6 2.2 .4 1.3
Kansas City Los Angeles Manchester Memphis Milwaukee Minneapolis Mobile	2. 1 1. 3 2. 2 . 7	.2 .2 .1 .3 .1 .1	7.8 9.4 4.5 10.4 3.2 1.6 2.0	1.0 1.3 .4 1.3 .4 .3
New Orleans New York Norfolk Philadelphia Pittsburgh Portland, Maine Portland, Oreg	4.0 .7 10.6 .7 .1 .4 3.4	(2) (2) (3)	10. 1 3. 9 5. 9 1. 8 . 3 . 3 2. 9	1, 2 , 6 , 7 , 2 , 1 (²)
Richmond St. Louis. San Francisco Savannah Scranton Seattle Washington	2.1 .8 2.6 8.8 .1 6.7 3.2	.2 .1 .3 .9 (2) .7 .5	12. 3 1. 7 2. 0 8. 1 . 5 7. 5 5. 7	1.5 .2 .2 1.0 .1 1.0

¹ When the adjustments for the 2 periods are multiplied together (after adding 100.0 to each figure) the total adjustment in table 4 can be obtained.

² Less than 0.05 percent.

factor for the 34 large city "all items" index in January 1950 is within the range of 0.7 to 0.9 percent.

Yearly Accumulation of New Unit Bias. Most of the understatement in the rent index accumulated during the period from 1947 through 1949. indexes have not been revised by years for 1940-49. because of lack of precise information on the difference in rent between the new units and the old units of comparable quality at the time that the new units entered the market. The present correction was necessarily based on the difference in rent (between new and old units) existing at the time that the comprehensive housing surveys were made. By utilizing the research work involved in making the Bureau's earlier estimate of the new unit bias,13 it is possible to estimate roughly the yearly fluctuations in the differentials. Using these rough estimates in conjunction with the known volume of new construction by year, a

general estimate can be made of the 10-year accumulation by years. Table 5 shows the distribution of the correction before 1947, and for the years 1947 and after. The corrections for most of the cities in the early years were too small to affect the over-all index. It must be emphasized that the estimates appearing in table 5 are subject to considerable error, but they give the approximate magnitude closely enough to be of use for research purposes.

—George Johnson and Bruno Schiro Division of Prices and Cost of Living

² See the Rent Index: Part 2—Methodology of Measurement, Monthly Labor Review, January 1949 (pp. 66-67). Also reprinted as Serial No. R. 1947; and Estimate of New Unit Bias in CPI Rent Index, Monthly Labor

Review, July 1949, or Reprint Serial No. R. 1965.

³ Federal rent controls were not in effect until 1942, but additions in 1940 and after were included as "new" units because in many cities rents were "rolled back" to their levels as of January and April 1941, and in Washington, D. C., as of January 1940. Furthermore, in many cities in which rents were frozen as of March 1942, voluntary fair rent commissions had been in operation earlier with varying degrees of effectiveness. To some extent, therefore, new units tended to come onto the market at levels higher than comparable existing dwellings in these earlier years.

New rental units were controlled by the Federal rent regulations as they came on the market, but due allowance was made for increased construction costs in setting their controlled rents. As a result the accumulated "new unit bias" remained relatively small until 1947; beginning in 1947, it increased sharply because new dwellings created by construction and conversions were removed from rent control while existing dwellings remained under control.

⁴ In its previous estimate of the extent of the "new unit bias," the Bureau relied on building permit data published by its Construction Division. Several assumptions had to be made in using these data. First, for individual cities, no information was available on starts or completions; so it was as-

sumed that the number of dwelling units authorized equalled the number of dwelling units built. Secondly, it was assumed that all dwelling units in two-family and multifamily structures were built for rent, and that all single-family structures were built for sale. No information on conversions was available for individual cities. See Estimate of New Unit Bias in CPI Rent Index, Serial No. R. 1965.

³ In the earlier estimate of the new unit bias, the Bureau estimated the differentials on the basis of general economic data, with the help of opinion surveys conducted by the price control agencies. No attempt was made to estimate differentials separately for each city. See Serial No. R. 1965.

The urbanized area was determined primarily by housing density and by transportation ties to the central city. The districts outside the city limits which were defined by the Census as a part of the urbanized area in 1949, included those areas contiguous to the central city with a density of at least 500 dwelling units per square mile. Also included were noncontiguous areas with a similar density within 1½ miles of the central contiguous area by the shortest route. Farther outlying areas within a half mile of the secondary urban core and meeting the density requirement were also included.

⁷ There is some evidence to indicate that had the Bureau surveyed the Census standard metropolitan area, rather than the smaller Census urbanized area, the relative importance of all newly created dwellings (both tenant- and owner-occupied, built in 1940 or later) might have been somewhat higher. Rough calculations from Census preliminary April 1950 housing counts for the metropolitan areas showed that for most of the 34 cities this proportion was higher for the standard metropolitan area than for the urbanized area, but for only 10 cities was the difference greater than 5 percentage points. Much of this difference resulted from the considerably larger proportion of owner-occupied dwellings constructed in the outlying portions of the standard metropolitan area. These differences would therefore not have been as great for rental dwellings only, which alone affected the calculation of the new unit bias correction.

8 For example, in San Francisco, every ninth large or apartment block was included in the sample, but only every seventeenth unit was sampled within these blocks; and every fifty-first small block was included in the sample, but every third dwelling was included in the sample within these small blocks.

9 It might have been desirable to include among the quality characteristics such items as dimensions of rooms, window area, size of closet space, degree of maintenance, and location within structure. However, this would have required the services of housing experts rather than the part-time enumerators employed. The alternative of accepting tenants' opinions on the value of such characteristics would have introduced substantial error.

¹⁰ As an example of the prevalence in many cities of substandard bathroom facilities the percentages of rental dwelling units not having a minimum of one complete private bathroom are given for six cities: Birmingham 64 percent; Savannah 53 percent; Memphis 53 percent; Mobile 44 percent; Atlanta 39 percent; and St. Louis 35 percent.

11 According to the definition of dilapidation developed for the 1950 Census by the Technical Advisory Committee on Housing Statistics.

12 Although 11 main descriptive characteristics are mentioned, each was subdivided to provide further detail. As an example, 10 combinations of plumbing and bathroom facilities were possible, 2 descriptive items for cooking equipment, 2 for refrigeration, 3 descriptive items for heating equipment, 6 kinds of exterior building material, etc., to describe a dwelling unit. In the final comparison, 48 descriptive characteristics were available to describe the dwelling units, providing a theoretical maximum of 1.6 million quality cells, or combinations of characteristics, to describe the housing in a given city.

13 See Estimate of New Unit Bias in CPI Rent Index, Monthly Labor Review, July 1949 (p. 44).

¹ References to this problem were made in the following publications: The Cost of Living Index of the Bureau of Labor Statistics, a mimeographed report, February 25, 1944; The Report of the President's Committee on the Cost of Living, 1945; a technical note released with the September 1946 Consumers' Price Index; a technical note in the January 1948 Monthly Labor Review, Residential Rents Under the 1947 Housing and Rent Act; a technical note appearing quarterly in Construction, beginning with the March 1948 issue; a technical note in the BLS regular Monthly Release of the Consumers' Price Index, beginning in July 1948; The Rent Index: Part 1—Concept and Measurement, and Part 2: Methodology of Measurement, in Monthly Labor Review, December 1948 and January 1949; and Estimate of New Unit Bias in CPI Rent Index, Monthly Labor Review, July 1949. The present article and supplementary information will appear in a forthcoming reprint.

Recent Decisions of Interest to Labor¹

Wages and Hours²

Criminal Contempt—Payment of Wage Reparations to Employees. A United States appellate court affirmed ³ a district court's judgment convicting employers of criminal contempt of court and sentencing them to pay fines totaling \$10,000 and costs of prosecution, because of their violations of an injunction requiring compliance with specific provisions of the Fair Labor Standards Act. However, the district court's award of wage reparations to certain employees covered by the act was reversed on the ground that such relief was appropriate only in a civil contempt action.

In 1941, a suit was commenced by the Secretary of Labor in a Federal district court against the employers to restrain violations of the minimum wage, overtime, "hot goods," and record-keeping provisions of the FLSA. The injunction was granted. Three years afterward a criminal prosecution was instituted in the same forum for violation of the injunction. A judgment was entered against the employers directing them to pay overtime wages which they had withheld in violation of the injunction.

In 1949, a second prosecution for criminal contempt of the injunction was instituted in the district court. That tribunal again rendered a judgment against the employers. However, in addition to requiring them to pay \$10,000 in fines, it directed the payment of wage reparations to certain employees who had not been compensated for work performed in excess of 40 hours a week.

In the appellate court, the employers contended that the award of wage reparations was improper, on the ground that the Government sought and obtained only a judgment for criminal, as distinguished from civil, contempt, and that the former was actually rendered against them. They argued that a wage-reparations award is appropriate only in a judgment for civil contempt, since it is a compensatory fine payable to its employees.

Upholding the employers' contention, the court observed that Federal courts had previously 'recognized that the same acts may constitute both criminal and civil contempt, and that a judgment for both types may be had in a single proceeding. However, both forms of contempt must be appropriately sought. Stating that the Govern-

ment had not sufficiently indicated that it sought a judgment for civil contempt, the appellate court concluded that such a judgment cannot be supported by a proceeding which was initiated and carried through solely as one involving criminal contempt.

Labor Relations

Discharge for Failure to Take Union Oath and Attend Meetings. Employees who tender periodic dues and initiation fees, which are uniformly required as a condition of acquiring union membership under a union-shop contract, may not lawfully be discharged from their employment for failure to take a union loyalty oath and attend union meetings. A Federal court, affirming a National Labor Relations Board order directing a union and an employer to pay back wages to the employees so dismissed, held ⁵ that their discharge constituted a violation of sections 8 (a) (3) and 8 (b) (2) of the National Labor Relations Act as amended by the Labor Management Relations (Taft-Hartley) Act.

The labor organization and employer had executed a union-shop security contract, which required, as a condition of employment, membership in the union within 30 days from date of the contract or from date of employment, whichever was later. Certain employees tendered the requisite dues and initiation fees, but refused to attend a meeting in which their membership applications were to be voted upon, or to take an oath of loyalty to the union. On advice of a union representative that the employees were not members in good standing, the employer discharged them—not because of failure to pay the dues and initiation fees, but on the ground that they failed to fulfill their other union obligations.

Section 8 (a) (3) of the LMRA makes it an unfair labor practice for an employer, by discrimination in regard to hire or tenure of employment, to encourage or discourage membership in any labor organization. The section, however, does permit him to make an agreement with a union (commonly referred to as a union-shop contract), requiring membership in the contracting labor organization within a certain period as a condition of employment. An employer may not justify any discrimination against an employee for nonmembership in a labor organization, however, if he has reasonable grounds to believe (a) that membership was not available to the employee on the same terms and conditions generally applicable to other members, or (b) that membership was denied or terminated for reasons other than the payment of periodic dues and initiation fees uniformly required by the union. Section 8 (b) (2) similarly makes it unlawful for a union to cause or attempt to cause an employer to discriminate against an employee when membership was denied or terminated for reasons other than failure to tender the requisite fees.

Urging that the Board's order awarding back pay be set aside, the union argued that since all employees were required to attend meetings and subscribe to an oath, membership was available to the discharged employees on the same terms applicable to other employees. Therefore, the union contended, the discharge of these employees could be lawfully demanded on the ground that they had failed to fulfill nondiscriminatory conditions.

While the court agreed that a union has the right under the LMRA to withhold membership for nondiscriminatory reasons, the legislative history of the act, nevertheless, forbade the union from seeking the dismissal of the employees on these grounds. This conclusion was gleaned from a statement by one of the bill's sponsors: "The union could refuse the man admission . . . but if he were willing to enter the union and pay the same dues as other members of the union, he could not be fired from his job because the union refused to take him."

Dues Increase for Nonattendance a Fine. Discharge of an employee for failure to pay an added union-dues assessment because of nonattendance at union meetings constituted an unfair labor practice, since this sum amounted to a fine rather than "periodic dues," within the meaning of sections 8 (a) (3) and 8 (b) (2) of the LMRA. This was the ruling of the NLRB 6 which ordered reinstatement of the employee and payment to him of back wages by both the employer and the union.

The union membership passed a motion increasing monthly dues from \$1.50 to \$2, with the further provision that those members who attended each of the monthly union meetings would be exonerated from payment of the additional 50 cents. In practice, this additional charge did not become due until after a member had failed to attend a meeting. The constitution of the international union fixed the monthly dues at \$1.50 without indicating that locals could increase this amount. The constitution did specifically authorize the levying of "fines" for non-attendance at membership meetings.

Pursuant to a valid maintenance-of-membership agreement, the union asked the employer to discharge one of his employees because of his delinquency in paying the additional charges which had accrued as a result of the employee's failure to attend a number of union meetings. This the employer did. As a result, unfair labor practice proceedings against both union and employer were instituted before the NLRB.

Sections 8(a)(3) and 8(b)(2) prohibit discharge of an employee under a union-security agreement if union membership is denied or terminated for reasons other than the failure "to tender periodic dues and the initiation fees uniformly required as a condition of acquiring or retaining membership." In ordering reinstatement of the employee and payment of back wages, the Board ruled that the additional 50-cent charge imposed upon him was not an element of "periodic dues" which were "uniformly required" of all employees. The Board stated: "A charge which distinguishes between individual members who attend particular meetings and those who do not attend particular meetings, in our opinion, is not one 'uniformly'

applied." The Board concluded that in order for a charge to be "uniform," it must be made against all members alike, or if not, then any distinctions in amount must be based upon reasonable general classifications. These conditions were found lacking.

NLRB Jurisdiction over Taxicab Company. Applying its recently formulated policy with respect to the assumption of jurisdiction, the NLRB ruled ⁷ that a New York taxicab company was engaged in interstate commerce within the meaning of the LMRA. The Board entertained a union petition for a representation election, thereby reversing an earlier decision in which it declined to assert jurisdiction over the same company.

In an earlier proceeding, the union filed a petition for a representation election, seeking to establish its status as the exclusive bargaining representative of the cab company's drivers. Evidence showed that 6 percent of the trip-ticket entries concerned trips to or from terminals of other interstate common carriers; that all new cabs were purchased in Michigan through a New York distributor; and that 40 percent of the company's purchases of parts and accessories were made from out-of-State manufacturers and shipped directly to the purchaser. However, the company had no carrier or terminal concessions, nor did it make any trips outside of New York State. The Board dismissed this proceeding on the ground that the company was not engaged in interstate commerce.

Since its earlier decision, the Board had re-examined its policy concerning the exercise of jurisdiction. The present criterion of jurisdiction demands a mathematical assessment of the employer's interstate contacts, and includes such factors as the amount of revenues derived from interstate transactions, the proportion of purchases made from sources outside the State, and the nature of the business operations.

In applying the new criterion, the Board reversed its earlier ruling. It stated: "... the factors which impelled us to assert jurisdiction over other such instrumentalities [of interstate commerce] are operative here." It further concluded that the company's operations were an essential link in the services performed by the various rail, bus, air, and water carriers to and from which the taxis made trips.

Injunction Against Picketing Binding on Nonemployees. The Tennessee court of appeals held • that an injunction restricting picketing and forbidding violence during a strike extended to pickets who were not parties to the injunction proceeding, were not employees of the employer involved in the strike, did not wear a picket sign, and had no intent to violate the injunction. It therefore affirmed a judgment of contempt against the pickets.

An employer had obtained an injunction against striking employees, restraining them from picketing en masse and from threatening violence to nonstriking workers. Notwithstanding the injunction, the strikers continued to picket in such a way as to block ingress and egress to the

employer's plant. They were joined by two persons who were not members of the employer's working force. One had left his employment prior to the strike. The other was picketing in place of his mother. Neither bore signs indicating that they were pickets.

In holding these persons bound by the injunction, and therefore in contempt for violating its mandate, the court stated: "In view of the admitted sympathetic attitude of all the . . . [nonemployees] for the cause, their availability to assist in the act of obstruction, their close proximity to those actually effecting the obstruction, and their obvious approval of the act, it matters not which ones wore the signs, or physically stood in or walked across the driveway, or whether they were employees . . ." The court concluded that a person not a party to the injunction proceeding is nevertheless punishable for contempt, if, with knowledge of the injunction, he aids or abets another in violating it.

Limitation on Featherbedding Ban. In an extensive analysis of the "featherbedding" provision of the LMRA, the NLRB ruled ¹⁰ that a musicians' union which refused to permit "name bands" to appear at a local theater, unless the management agreed to employ local musicians for a specified number of days thereafter, did not offend the featherbedding prohibition contained in section 8 (b) (6) of the act. The section makes it an unfair labor practice for a union to cause or attempt to cause an employer to pay money or other thing of value, in the nature of an exaction, "for services which are not performed or not to be performed."

Prior to the passage of the LMRA, the union made a practice of demanding payment for local musicians who stood by while an out-of-town band performed. The services of these local artists were rarely utilized, and generally they failed to appear at the theater on the days for which they were paid. After enactment of the statute, the union insisted that a local orchestra be actually employed following the performance by a "name band." The theater management refused to accede to this request, contending that it neither needed nor wanted such services. Protracted negotiations with respect to the matter proved unsuccessful. When the union prohibited certain prominent musical groups from performing at the movie house, the management instituted Board proceedings charging the union with unlawful featherbedding practices.

In dismissing the charges against the union, a majority of the Board pointed out that under both the Wagner (NLRA) and the Taft-Hartley (LMRA) Acts, it was and is perfectly lawful for a labor organization to seek employment for its members.¹¹ The inclusion of section 8(b) (6) in the latter law, the Board stated, was not intended to proscribe such activity. Nor was the section meant to reach cases in which a labor organization seeks actual employment for its members, even when the employer does not want, does not need, and is not willing to accept such services. Observing that nothing in the testimony

received by the trial examiner indicated that the union had reverted to its pre-LMRA practices whereunder local orchestras were paid without giving any performances, the Board concluded that the union's insistence upon actual employment for such orchestras did not constitute a violation of section 8(b) (6).

Member Reynolds, dissenting, took sharp issue with the Board's conclusion. He argued that such a construction of the featherbedding ban would permit unions to avoid liability in all cases by the simple expedient of insisting on the performance of work which did not exist and which was unwanted. He added that Congressional concern over stand-by labor practices "did not turn upon the willingness of the 'stand-by' to make his unneeded services available to the prospective employer because no distinction was made between the 'stand-by' who intended to do no work and the 'stand-by' who actually sought to perform unneeded work. The expressed concern of the legislature was, rather, with the fact that 'stand-by' hiring practices represented a device for securing payments to persons who did not already enjoy employee status and whose 'employment', in the circumstances, would yield no corresponding benefit to the employer."

Union "Hiring Hall". With two members dissenting, the NLRB ¹² held that a collective bargaining contract which, by its terms, merely requires an employer to notify a union of vacancies—the union agreeing, when requested, to supply personnel to the employer within a few days—does not constitute an illegal closed-shop hiring-hall arrangement in contravention of the LMRA. The majority of the Board found that neither the written contract nor any independent oral understanding stipulated that the workers be obtained from the union, or that only union members be employed.

On October 16, 1948, the employer (a contracting company), the local, and the international union executed an agreement which provided that when the contractor requires employees to perform the work included within the scope of the agreement, "the contractor agrees to notify the local union having jurisdiction of the job of the number of employees and classifications required. When the local union is requested to furnish men, the union agrees to supply the contractor" within 2 to 3 days after the date for which men are requested.

The majority of the Board determined that this phraseology did not mean that union workers must be obtained only from the local union. However, the dissenters found the contract ambiguous in this regard, and suggested that attention be directed to the practice of the parties, to determine the meaning of the provisions. This practice, according to testimony before the trial examiner, showed that virtually all employees were obtained from the local's hiring hall, where, it appeared, preference was accorded to members. The minority, therefore, held that the contract as interpreted by the parties was unlawful. In this respect, they differed with the majority who were content to look at the contract alone. Norris-LaGuardia Act Applicability to Federal Court in Alaska. A District Court for the Territory of Alaska held ¹³ that the Norris-LaGuardia "Anti-Injunction" Act does not deprive it of jurisdiction to entertain an action for injunctive relief arising out of a dispute between union members over the right to control union funds and to exercise its authority. The court asserted its general equity jurisdiction, conferred by other acts of Congress, in granting the appropriate relief.

The Norris-LaGuardia Act declares that "no court of the United States shall have jurisdiction to issue any restraining order or temporary or permanent injunction in a case involving or growing out of a labor dispute. . . ." Avoiding the question of whether the action involved a labor dispute, the court concluded that it was "obviously not a 'Court of the United States'" within the meaning of the act. In support of this conclusion, the court adverted to an earlier appellate decision 14 which construed the statute as inapplicable to a Federal Court in Hawaii. The appellate court reasoned that the term "Court of the United States" had reference to those "constitutional" courts which Congress has established under Article III of the Federal Constitution, rather than the "legislative" courts which are governed by Article IV, whereunder Congress possesses the power "to dispose of and make all needful rules and regulations respecting the territory . . . of the United States."

Veterans Reemployment

Seniority Not Protected in Higher Position Granted in Violation of Contract. A Federal District court decided 15 that the reemployment statutes do not confer or protect seniority beyond that provided under contract, if a veteran receives after military service a promotion he would in all probability have received if continuously on the job, but to which he had no contractual right. A system federation bargained with a railroad, in separate collective agreements covering laborers and shop-craft helpers and mechanics. Seniority was in no way made transferable. Helper seniority in the shop crafts began under the agreement only when helper work began. The agreement covering laborers provided that members of its bargaining unit should be "given consideration for promotion" to shop positions; that such promotions were to be based on ability, merit, and seniority-management to be the judge. The railroad was not required to and did not fill vacant or new machinist-helper positions by promoting laborers to the exclusion of persons not within the laborer unit. Nor did it advance in strict seniority order such laborers as were promoted.

Certain veterans inducted as laborers were reinstated in laborer positions. During their absence many laborers had been assigned to helper positions and held helper seniority. The reinstated laborer veterans were immediately promoted to helper positions, and on promotion began helper work. They were then assigned seniority dates which would put the veterans ahead of the next junior laborers promoted during the veterans' military service. After a protest by the bargaining agency claiming a breach of contract and practice, the system federation and the railroad made an agreement by which the seniority date of these veterans was changed to the date upon which each first performed helper work. The veterans commenced action claiming that this violated their right to be restored without loss of seniority. The court decided no statutory right was violated, and that the new contract merely rectified a breach of the old.

The controlling rules of law applied by the court were stated as follows: Seniority rights guaranteed a veteran by the reemployment statutes are only those provided by agreement and controlling practice. Seniority as laborer cannot count as machinist-helper seniority prior to actual promotion because the seniority is in a different class. A presumption or strong probability that a veteran would have been promoted, if he had been present during the period of his military service, affords no right to seniority in the promoted position, when such seniority contractually counts from the beginning of actual work. A contract between union and employer which reduces a veteran's seniority to correct a violation of the existing agreement is not in conflict with the reemployment statutes.

Unemployment Insurance

Availability for work—Limitation to Night Hours (New Hampshire). The New Hampshire Supreme Court held ¹⁶ that a member of the State Legislature, who worked for 4 years on the night shift at a mill, and attended legislative sessions during the day, was entitled to unemployment compensation when he lost his mill job. While the State statute requires that a claimant for benefits be available for work, a claimant who limits the hours during which he is willing to work meets that requirement if there is in the locality a market for his services during the hours that he offers them.

Allergy to Paint Good Cause for Refusing Work (Pennsylvania). A stock clerk with 22 years' experience was offered a transfer to spray painting when a reduction in the employer's business necessitated a lay-off in the stockroom. He refused the job because he was allergic to paint, and applied for unemployment compensation. The Pennsylvania Supreme Court held 17 that the claimant had not "refused suitable work without good cause" so as to be disqualified for unemployment benefits.

Labor-Dispute Disqualification—Meaning of "Establishment." A strike at an automobile plant in Michigan, which resulted in a temporary stoppage of work at the company's assembly plants scattered throughout the United States, became the basis of recent court decisions in five States. The question in each case was whether the assembly plant and the manufacturing plant con-

stituted a single "establishment" within the statutory provisions of the respective State laws. These provisions disqualify for unemployment-compensation benefits individuals who are out of work due to a stoppage caused by a labor dispute at the establishment where they were last employed.

The Georgia Supreme Court, ¹⁸ reversing a lower court decision, held that both plants were engaged in the single task of producing automobiles, and hence constituted a single "factory, establishment, or other premises." The Minnesota, ¹⁹ New Jersey, ²⁰ and Virginia ²¹ Supreme Courts, and the Appellate Division of the New York Supreme Court ²² held that the assembly plants in their respective States were not part of a single establishment with the company's manufacturing plant. These courts reasoned that over-all functional and managerial integration is not enough to make two plants a single establishment, when hiring, firing, and seniority are on a local basis, and when the plants are widely separated geographically.

3 Tobin v. Pielet (C. A. 7, Jan. 23, 1951).

4 United States v. United Mine Workers of America (330 U. S. 258 (1947)).

6 Union Starch & Refining Co. v. NLRB (C. A. 7, Feb. 2, 1951).

- 6 In re Electric Auto-Lite Co. (92 NLRB No. 171, Dec. 29, 1950).
- ⁷ In re Skyview Transportation Co. (92 NLRB No. 251, Jan. 26, 1951). (Supplemental decision.)
- 8 In re Skyview Transportation Co. (90 NLRB No. 268, Aug. 15, 1950).
- ⁹ American Snuff Co. v. United Steel Workers of America (CIO) (Tenn. Ct. App., Jan. 11, 1951).
- ¹⁰ In re American Federation of Musicians, Local No. 24 (92 NLRB No. 210, Jan. 24, 1951).
- 11 Unless, of course, the conduct involved falls within the proscriptions of section 8 (b) (4) (D) of the amended act.
- 12 In re American Pipe and Steel Corp. (93 NLRB No. 11, Feb. 7, 1951).

13 Nashoalook v. Downey (D. C., Alaska, Feb. 2, 1951).

- 4 International Longshoremen's Union v. Wirts (170 F. 2d 183 (9th Cir. 1948)).
- 18 Gregory v. Louisville & Nashville R. R. (D. C., W. D. Ky., Sept. 15, 1950).
 - 16 Sledzianowski v. Board of Review (Pa. Super. Ct., Nov. 16, 1950).

17 Roukey v. Riley (N. H. Sup. Ct., Dec. 5, 1950).

- 18 Ford Motor Company v. Abercrombie (Ga. Sup. Ct., Nov. 15, 1950).
- 19 Nordling v. Ford Motor Company (Minn. Sup. Ct., Apr. 28, 1950).
- 20 Ford Motor Co. v. New Jersey Department of Labor & Industry (N. J. Sup. Ct., Nov. 6, 1950).
- 21 Ford Motor Co. v. Unemployment Compensation Commission (Va. Sup. Ct., Jan. 15, 1951).
- 22 In re Machcinski (N. Y. App. Div., Jan., 1951).

The number of applications for retirement annuities under the Federal railroad retirement system during the last half of 1950—15,800—was the smallest for any half-year since 1946. The reduction is attributed mainly to the usual seasonal decline in the latter months of a calendar year and to the stepped-up economy as the country moved toward a period of national emergency. Awards, numbering 15,500, were 24 percent below the total for the first half of 1950. The average monthly annuity awarded during July—December 1950 was \$75.35. About half the annuitants represented in the awards were credited with 30 years' service. Nearly a third received disability annuities.

A sharp decline also characterized operations under the Federal railroad unemployment insurance program during the second half of 1950 as compared with the same period in 1949. Applications decreased 60 percent (from 453,000 to 181,000) and beneficiaries 71 percent (from 368,000 to 106,000). Net amount of benefits paid fell 80 percent (from \$67.1 million to \$13.1 million). Average benefits paid per beneficiary fell from \$168 to \$110.

¹ Prepared in the U.S. Department of Labor, Office of the Solicitor.

The cases covered in this article represent a selection of the significant decisions believed to be of special interest. No attempt has been made to reflect all recent judicial and administrative developments in the field of labor law or to indicate the effect of particular decisions in jurisdictions in which contrary results may be reached, based upon local statutory provisions, the existence of local precedents, or a different approach by the courts to the issue presented.

² This section is intended merely as a digest of some recent decisions involving the Fair Labor Standards Act and the Portal-to-Portal Act. It is not to be construed and may not be relied upon as interpretation of these acts by the Administrator of the Wage and Hour Division or any agency of the Department of Labor.

[—] Information taken from Monthly Review, U. S. Railroad Retirement Board, Chicago, Feb. 1951 (pp. 28-30).

Chronology of Recent Labor Events

February 15, 1951

The Wage Stabilization Board, in General Regulation 7, granted exemption from its control to religious, charitable, and educational institutions not required to pay Federal income taxes. (Source: Federal Register, vol. 16, No. 38, Feb. 24, 1951, p. 1791.)

On February 16, labor members of the WSB, on orders from the United Labor Policy Committee (see Chron. item for December 14, 1950, MLR Feb. 1951), withdrew over a conflict with public and industry members involving a new wage formula (General Regulation 6). The regulation, adopted by the public and industry members, was forwarded to the Economic Stabilization Administrator for approval. (Source: Washington Post, Feb. 16, 1951.)

On February 27, the Economic Stabilization Administrator approved General Regulation 6, to replace the general over-all wage freeze of January 26 (see Chron. item for January 26, 1951, MLR, March 1951) and to permit pay and salary increases up to 10 percent over January 15, 1950, levels, without Board approval. Overtime premium payments and other "fringe" benefits, if covered by existing agreement, are excluded from the 10-percent formula, but all future "fringe" allowances must come within that limit. At the same time, the Economic Stabilization Administrator asked the WSB to reconvene and requested 7 adjustments to the regulation. (Source: Federal Register, vol. 16, No. 41, March 1, 1951, p. 1951; and ESA Press release, Feb. 27, 1951.)

On February 28, the United Labor Policy Committee ordered all labor representatives to withdraw from Federal mobilization agencies. (Source: New York Times, March 1, 1951.)

On March 1, the Economic Stabilization Administrator issued General Regulation 8, permitting cost-of-living increases, under escalator clauses signed prior to the general wage freeze. (Source: Federal Register, vol. 16, No. 43, March 3, 1951, p. 2032.)

On March 8, the Economic Stabilization Administrator issued Amendment 1 to General Regulation 8, permitting increases for all non-negotiated cost-of-living agreements that were formally determined and communicated to employees on or before January 25, 1951. (Source: Federal Register, vol. 16, No. 48, March 10, 1951, p. 2222.)

On March 8, the Economic Stabilization Administrator issued General Regulations 9 and 10, establishing wage and salary rates for employees of new plants, and permitting increases in "tandem" relationships, where increases would have been automatic and applicable to work performed on or before February 9, 1951, except for the over-all wage freeze, respectively. (Source: Federal Register, vol. 16, No. 48, March 10, 1951, pp. 2222–2223; for discussion, see p. 409 of this issue.)

February 16

THE NATIONAL LABOR RELATIONS BOARD, in the case of *Missouri Boiler and Sheet Iron Works* and *J. E. Russom*, ruled that employer's use of union's employment agency facilities in filling vacancies is not, in itself, violative of amended NLRA. (Source: Labor Relations Reporter, vol. 27, No. 33, 27 LRRM, Feb. 26, 1951, p. 1382.)

THE Textile Workers Union of America (CIO) called an industry-wide strike in the woolen and worsted cloth industry—the first in its 11-year history. It affected 70,000 workers in 160 plants. (Source: CIO News, Feb. 19, 1951, and Washington Post, Feb. 17, 1951.)

February 17

THE U. S. DEPARTMENT OF LABOR established the Division of Industrial Services in the Bureau of Employment Security, to be concerned with the utilization of defense and essential civilian manpower. (Source: U. S. Department of Labor Press release, BES 51–2800, Feb. 17, 1951.)

February 19

THE NLRB, in the case of Amalgamated Meat Cutters & Butcher Workmen of North America, Local 303 (AFL) and Western, Inc., ruled that the union did not violate the amended NLRA by voting in a union meeting to list an employer as "unfair," but that the union violated the secondary boycott ban of the act by inducing employees of a secondary employer at their place of work to engage in boycott activities by telling them about the "unfair" listing. (Source: NLRB Press release, R-356, Feb. 23, 1951.)

THE Brotherhood of Railroad Trainmen (Ind.) pleaded guilty to a charge of civil and criminal contempt of court in the strike of switchmen of January 30, 1951 (see Chron. item for January 30, 1951, MLR March 1951), and was fined \$75,000 by a judge of the Federal District Court in Washington, D. C. (Source: New York Times, Feb. 20, 1951.)

The United Automobile, Aircraft & Agricultural Implement Workers of America (CIO) and the Ford Motor Co. signed an area-wide seniority agreement covering 5 plants in the Detroit region. The agreement covers 80,000 workers and insures seniority rights, in case of lay-offs, at any of the 5 plants. (Source: CIO News, Feb. 26, 1951.)

February 20

The CIO launched a drive to enlist 1.5 million department store workers under a newly formed Department Store Workers Organizing Committee. (Source: CIO News, Feb. 26, 1951.)

February 23

The NLRB, in the case of Jamestown Builders Exchange, Inc. and International Brotherhood of Teamsters, Chauffeurs, Warehousemen & Helpers of America, Local 649 (AFL), ruled that in determining whether or not to assert jurisdiction in secondary boycott cases under the Labor Management Relations Act, the Board will consider the operations of both primary and secondary employers. (Source: NLRB Press release W-179, Feb. 28, 1951.)

February 26

The Supreme Court of the United States, in the cases of Amalgamated Association of Street, Electric Railway and Motor Coach Employees of America, Division 998 (AFL) et al. v. Wisconsin Employment Relations Board and United Gas, Coke and Chemical Workers of America, (CIO), et al. v. Same, ruled invalid the Wisconsin Public-Utility Anti-Strike Law banning strikes and substituting compulsory arbitration of labor disputes involving public-utility workers. (Source: Labor Relations Reporter, vol. 27, No. 33, Extra Edition Bulletin, Feb. 26, 1951, p. 12.)

THE SUPREME COURT OF THE UNITED STATES, in the case of Universal Camera Corp. v. NLRB., ruled that the Administrative Procedure Act and the LMRA give Federal courts broadened power over NLRB decisions, the majority holding that "courts must now assume more responsibility for the reasonableness and fairness of Labor Board decisions than some courts have shown in the past"; and that decisions must be based "on the record considered as a whole." (Source: Labor Relations Reporter, vol. 27, No. 33, Extra Edition Bulletin, Feb. 26, 1951, p. 3.)

February 27

The Office of Price Stabilization of the ESA issued Ceiling Price Regulation 7, providing retailers with a margin type price control for the following commodities: clothing, shoes, all household textile commodities, yard goods, and all furniture, rugs and lamps. Ceiling Price Regulations 2 through 6, issued previously, provided price controls, at different market levels, for cattlehides, kips, calfskins, coal, anthracite, iron and steel scrap, and fats and oils. (Source: Federal Register, vol. 16, No. 40, February 28, 1951, p. 1872; and ESA Ceiling Price Regulations 2 through 6, dated Jan. 25, 1951, Feb. 2, 1951, Feb. 2,

1951, Feb. 5, 1951, and Feb. 14, 1951, respectively; for discussion, see p. 409 of this issue.)

On March 1, the OPS issued Amendment 1 to Ceiling Price Regulation 1, effective March 2 (see Chron. item for Dec. 18, 1950, MLR Feb. 1951), increasing the ceiling prices for new automobiles by $3\frac{1}{2}$ percent. (Source: Federal Register, vol. 16, No. 43, March 3, 1951, p. 2030.)

On March 3, the OPS issued Ceiling Price Regulation 8 fixing dollars-and-cents ceiling prices for raw American upland cotton. (Source: Federal Register, vol. 16, No. 44, Mar. 6, 1951, p. 2060.)

On March 7, the OPS issued Ceiling Price Regulation 9 establishing ceiling prices on all imported commodities sold in the territories and possessions based upon direct cost-plus the dollar-and-cents mark-up in effect December 19, 1950, to January 25, 1951. (Source: Federal Register, vol. 16, No. 47, Mar. 9, 1951, p. 2183.)

On March 8, the OPS issued Ceiling Price Regulation 10, effective March 12, 1951, establishing specific ceiling prices for manufacturers of household soaps and cleansers based on December 1950 levels. (Source: Federal Register, vol. 16, No. 48, March 10, 1951, p. 2226.)

March 1

FIFTEEN nonoperating railroad unions, representing approximately 1 million workers, signed an agreement with railroad carriers, effective February 1, providing a pay increase of 12½ cents an hour, a cost-of-living wage adjustment, and an annual improvement factor after July 1, 1952, if Government policy at that time permits such payments. (Source: New York Times, March 2, 1951.)

March 6

THE NLRB, in the case of Richland Laundry & Dry Cleaners and Laundry Workers International Union, Local 197 (AFL), set aside a closed-shop agreement covering employees working on an atomic energy reservation. In taking jurisdiction, the Board ruled that its decision was based solely on the employer's "relationship to the national defense effort." (Source: NLRB Press release, R-359, March 12, 1951.)

March 10

THE SECRETARY OF LABOR amended General Order No. 48 (see Chron. item for Sept. 29, 1950, MLR Nov. 1950), by establishing the Defense Manpower Administration to replace the Office of Defense Manpower, and to be headed by an Administrator, with authority to direct, supervise, and coordinate all of the defense manpower activities of the Department of Labor. (Source: U. S. Dept. of Labor General Order No. 48, Amendment No. 1, March 10, 1951.)

Developments in Industrial Relations¹

Leading developments during February and early March included the peaceful conclusion of a collective bargaining agreement by the Nation's railroads and 15 nonoperating railroad unions, a widespread strike in the woolen and worsted industry, and organized labor's withdrawal of its representatives from various Government defense agencies as an expression of its dissatisfaction with wage stabilization, price, and other defense mobilization policies.

Railroads

Approximately 1,000,000 nonoperating rail-road employees (clerks, shop mechanics, truckmen, etc.) are covered by an agreement reached March 1 between representatives of the Nation's rail lines and 15 unions. The National Mediation Board and Presidential Assistant John R. Steelman were both active in the final negotiations.

Prominent provisions of the agreement include a wage increase of 12½ cents an hour, effective February 1, 1951, and a cost-of-living escalator clause.

The escalator clause provides for a wage change of 1 cent an hour for each 1-point change, quarterly, in the Bureau of Labor Statistics Consumers' Price Index. The escalator feature will not operate when the index drops below 178. The first adjustment will be made on April 1, 1951.

Under the terms of the agreement, no further wage changes may be sought by either party until October 1, 1953, except that representatives of the railroads and the unions will meet with the President, or his designee, on or after July 1, 1952, to consider further wage adjustments. Justification of any such increases, according to the agreement, will be related to the then existing wage-stabilization policies governing annual-improvement wage increases. If the parties fail

to reach agreement at these meetings, the issue is to be submitted to arbitration.

The agreement was the first negotiated wage settlement between the nonoperating unions and the railroads since 1937. Wage adjustments since that year have been determined by arbitration or by Presidential emergency boards.

The wage and rules disputes between the railroads and four major operating railroad unions—Brotherhood of Railroad Trainmen, Brotherhood of Locomotive Engineers, Order of Railway Conductors, and Brotherhood of Locomotive Firemen and Enginemen—remained unresolved during February and early March.

On February 8, the Army issued an order, authorized by President Truman, directing all striking railroad yard-service employees to return to their jobs by 4 p. m., February 10, under penalty of dismissal with consequent loss of their seniority rights, if they did not comply.² The order also provided an interim wage increase of 12½ cents an hour for yardmen and yardmasters and 5 cents an hour for road-service employees represented by the four major operating unions, effective October 1, 1950. After the employees had complied with the Army's order, representatives of the carriers and the unions resumed conferences under the auspices of the National Mediation Board.

The Federal District Court in Washington, D. C., on February 19, fined the Brotherhood of Railroad Trainmen \$75,000, after the union had entered a plea of guilty to contempt of court charges. The Government had charged that the strike by the union's yard members in late January and early February was in contempt of a court restraining order issued during a similar strike by union yard members in December. The union already had been fined \$25,000 by the Federal District Court in Chicago for its participation in the December strike.

On February 23, W. P. Kennedy, president of the Brotherhood of Railroad Trainmen, announced to leaders of the other major operating unions that pressure from his union's members required him to arrange for the best possible settlement as soon as practicable. Accordingly, representatives of the Brotherhood of Railroad Trainmen and the National Mediation Board began separate conferences the following day in an attempt to settle the dispute between the union and the carriers.

Textiles

About 70,000 workers, represented by the Textile Workers Union (CIO), struck on February 16 at more than 160 woolen and worsted mills. Most of the mills affected by the strike are located in the New England and Middle Atlantic States. Before the work stoppage occurred, the union had proposed a 2-year contract calling for a wage increase of 15 cents an hour, a cost-of-living escalator clause, an annual wage improvement factor of 6 cents an hour, and employer-financed pensions. The strike began after negotiations between the union and the American Woolen Co. had become deadlocked.

Contract negotiations affecting approximately 110,000 cotton textile workers, represented by the Textile Workers Union (CIO) in the Northeastern States, began on February 23. Existing contracts in this area were scheduled to expire on March 15. Union members were alerted for a possible strike, if an agreement on a new contract had not been reached by that date.

The union proposed an immediate wage increase of 12 percent, an automatic wage increase of 7 percent in each of the next 2 years, a cost-of-living escalator clause, and employer-financed pensions of at least \$100 a month.

Meat Packing

The United Packinghouse Workers (CIO) and the Amalgamated Meat Cutters and Butcher Workmen (AFL), on February 11, reached agreement with three major meat-packing companies—Swift, Armour, and Cudahy—on a wage increase of 9 cents an hour for about 100,000 packinghouse workers. The wage rise was negotiated under a reopening clause in existing contracts which expire in August 1952. It is subject to the limitations of wage stabilization regulations.

Both unions threatened strike action if the wage increase is not approved by wage stabilization authorities. In early March, a 3-man panel, appointed by the Wage Stabilization Board, met in Chicago to consider the parties' claims as to the permissibility of the wage adjustment under existing stabilization regulations.

Shipbuilding

The Industrial Union of Marine and Ship-building Workers (CIO) and the Bethlehem Steel Co., on February 19, reached agreement on wage increases ranging from 18½ cents an hour for laborers to 23 cents an hour for first-class mechanics, effective January 1, 1951. The agreement, which is subject to the limitations of wage stabilization regulations, was reached under wage-reopening provisions of an existing contract that expires December 31, 1951.

Labor Union Affairs

United Labor Policy Committee. On February 16, the United Labor Policy Committee—composed of leaders of the American Federation of Labor, the Congress of Industrial Organizations, and the Railway Labor Executives Association—rejected a wage formula which was proposed by the industry and public members of the Wage Stabilization Board. With the rejection of the formula, the ULPC instructed the labor members of the Board to submit their resignations to President Truman.

The wage regulation proposed by the public and industry members of the Board (Regulation No. 6) permitted a 10-percent increase in wages since January 15, 1950, subject to the approval of the Economic Stabilization Administrator. In contrast, labor members of the WSB had proposed a more liberal formula permitting wages to be increased by 12 percent in the period June 15, 1950, to December 15, 1950, and additional wage adjustments after that period conforming to rises in consumer's living costs.

The ULPC emphasized that its decision instructing the labor members of WSB to resign did not reflect merely a protest against the wage regulation proposed by the public and industry members of the Board. The committee explained that this action was taken also because they felt that labor had not been given appropriate representation at policy-making levels in the defense mobilization program and their views had been rejected by the Office of Defense Mobilization in deference to the recommendations of what it termed "big business."

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On February 27, Economic Stabilization Administrator Eric A. Johnston approved the basic 10-percent pay increase regulation (No. 6) that was proposed by industry and public members of WSB. He recommended, however, that the Board liberalize provisions of the regulations pertaining to other economic benefits. He suggested that escalator clauses, annual wage improvement provisions in recognition of increased productivity, and health, welfare, and pension provisions contained in collective bargaining agreements in effect on January 25 be allowed to operate through June 30, 1951, even where they would exceed the 10-percent wage increase limitation. He also suggested that the liberalized regulation should provide for the correction of "hardships and inequities."

A meeting of the Wage Stabilization Board was held on February 28, but labor members did not participate. On that date, the United Labor Policy Committee met and decided "that all labor representatives of our respective organizations serving on existing defense mobilization agencies shall resign immediately."

The committee contended that "there is absolutely no desire on the part of Mobilization Director Charles E. Wilson to give labor a real voice in the formulation of defense policy." It also criticized the price, wage, and manpower policies pursued by the stabilization agencies under Mr. Wilson's guidance.

On March 1, the Economic Stabilization Administrator issued General Regulation No. 8 which modified existing wage control regulations. This regulation permitted cost-of-living wage increases under escalator clauses in contracts agreed to before January 25, 1951, even if these

increases, together with other wage increases, should exceed the 10-percent formula contained in the regulation issued on February 16.

Senate Labor Committee Reports. Reports were issued by the majority members of three subcommittees of the Senate Labor and Public Welfare Committee which have been investigating labor-management relationships in the Bell Telephone system and in the oil-tanker and Southern textile industries.

The telephone report described a deterioration of bargaining relations between the Communications Workers of America (CIO) and the closely integrated Bell system. The basic cause was the alleged practice of the parent company, American Telephone and Telegraph, of referring such "national" issues as wages and pensions to regional and departmental levels for collective bargaining. The report on the tanker industry charged the Cities Service Corporation Marine Division with unfair labor practices. These included labor espionage, delaying tactics in opposing the recognition of the Seafarer's International Union (AFL), company unionism, and discriminatory hiring.

The textile report found that self-organization and collective bargaining were steadily retrogressing in the Southern textile area, as a result of organized employer campaigns. Much of this, the report claimed, was in "shocking violation" of the Labor Management Relations Act of 1947.

A minority report issued subsequently stated that these findings were "neither objective nor... factual."

¹ Prepared in the Bureau's Division of Industrial Relations.

² See Monthly Labor Review, March 1951 (p. 310).

Publications of Labor Interest

EDITOR'S NOTE.—Correspondence regarding publications to which reference is made in this list should be addressed to the respective publishing agencies mentioned. Data on prices, if readily available, were shown with the title series.

Cooperative Movement

- The ABC of Co-op Finance. By Leslie A. Woodcock. Chicago, Cooperative League of the USA, 1950. 35 pp. 25 cents.
- Rural Health Cooperatives. By Helen L. Johnston. Washington, U. S. Department of Agriculture, Farm Credit Administration, and Federal Security Agency, Public Health Service, 1950. 93 pp., bibliography, illus. (FCA Bull. No. 60; PHS Bull. No. 308.) 30 cents, Superintendent of Documents, Washington.

Based chiefly on a study of 48 rural health cooperatives in the United States, this report describes their methods and purposes, areas where they are, how they started, membership, facilities, staff, problems, assets, and benefits, and characteristics of groups offering prepaid service. A final section appraises the cooperatives in terms of accomplishments and possibilities.

Buying and Selling by Cooperatives in Europe. By Glenn E. Riddell and John H. Heckman. Washington, U. S. Department of Agriculture, Office of Foreign Agricultural Relations, 1950. 73 pp., map, illus. (Foreign Agriculture Report No. 51.)

Results of two field studies made to determine the ability of cooperatives in western Europe to buy or sell products that cooperatives in the United States normally sell or buy in those countries, and the possibility of further trading transactions. Most of the material relates to farmers' marketing associations, but there is some information on the central organizations of the consumers' cooperative movement.

Helping People Help Themselves. By Wallace J. Campbell and Richard Y. Giles. Washington, Public Affairs Institute, 1950. 72 pp. (Bold New Program Series, No. 6.) 50 cents.

Deals with cooperatives under the Point Four program of technical aid to underdeveloped areas. The first part of the publication shows how cooperatives can be of assistance in carrying out the program, in terms of experience in various countries (India and Pakistan, Palestine,

Nova Scotia, Jamaica, Denmark). The second part deals with the adjustment of industry under the program, including use of the cooperative method.

Die Entwicklung der Konsumgenossenschaften von Ihrem Neuaufbau seit 1945 bis zum 31. Dezember 1948. Berlin, Konsum Hauptsekretariat, [1949?]. 160 pp. Statistical data on development of consumers' cooperatives in the Soviet Zone of Germany from 1945 to the end of 1948, with explanatory text written from the peculiar point of view of a Communist-controlled organization.

Housing

- The Housing Situation, 1950: An Analysis of Preliminary Results of the 1950 Housing Census. Washington, U. S. Housing and Home Finance Agency, Division of Housing Research, 1951. 30 pp., charts; processed.
- The Relationship Between Slum Clearance and Urban Redevelopment and Low-Rent Public Housing. Washington, U. S. Housing and Home Finance Agency, Office of the Administrator, 1950. 15 pp.

The approach to these operations under the Housing Act of 1949 is described as one of greater flexibility within each separate field combined with coordination and mutual assistance.

- A Summary of the Evolution of Housing Activities in the Federal Government. Washington, U. S. Housing and Home Finance Agency, Office of the Administrator, 1950. 24 pp. 10 cents, Superintendent of Documents, Washington.
- Farm Housing in the United States and Recent Farm Housing Legislation. By Paul E. Grayson. (In Journal of Farm Economics, Menasha, Wis., November 1950, pp. 590-603. \$1.25.)
- Housing and Redevelopment—A Portion of the Comprehensive Plan for the National Capital and its Environs. Washington, U. S. National Capital Park and Planning Commission, 1950. 40 pp., chart, maps. (Monograph No. 3.) 25 cents, Superintendent of Documents, Washington.
- Facts About Housing Credit Controls: 1- Through 4-Family Residences; Multi-Unit Residences. Washington, U.S. Housing and Home Finance Agency, Office of the Administrator, 1951. 10 and 8 pp. 5 cents each, Superintendent of Documents, Washington.
- Housing Policy and the Building Industry, [Great Britain]. (In Planning, P E P (Political and Economic Planning), London, November 20, 1950, pp. 81-100.)

Industrial Accidents; Workmen's Compensation

- American Standard Safety Code for Ventilation and Operation of Open-Surface Tanks. New York, American Standards Association, Inc., 1951. 23 pp., diagrams. (Z9.1–1951.) 75 cents.
- How You Can Work Safely. [Cleveland, Ohio], Gray Iron Founders' Society, Inc., [1951?]. 14 pp., illus.

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Industrial and Safety Problems of Nuclear Technology.
Edited by Morris H. Shamos and Sidney G. Roth.
New York, Harper & Brothers, 1950. xiii, 368 pp.,
bibliographies, diagrams, maps, illus. \$4.

Lectures and panel discussions at a 3-day conference held at New York University in January 1950. One of the four parts of the volume deals with hazards, safety measures, and insurance problems; the other parts cover activities of the U. S. Atomic Energy Commission, radiochemistry and isotopes, and the radiochemical laboratory.

Evaluation of Industrial Disability. New York, Oxford University Press, 1950. 89 pp., illus. \$4.

Manual of nontechnical instructions to industrial physicians for measuring the degree of injury to joints, prepared by committee of Industrial Accident Commission of California and California Medical Association for use in workmen's compensation cases.

Workmen's Compensation Payments, 1949. (In Social Security Bulletin, Federal Security Agency, Social Security Administration, Washington, December 1950, p. 18. 20 cents, Superintendent of Documents, Washington.)

Includes statistics (preliminary), by State, on compensation payments, source of insurance, and medical and hospitalization costs.

Workmen's Compensation in New Mexico. By Robert W. Thomas, Jr. Albuquerque, University of New Mexico, Department of Economics, 1950. 179 pp., bibliography; processed. \$2.

Examines operation of the State program, appraises the law, and makes recommendations. Subjects covered include coverage, benefits, medical care, attorney fees, unsafe working conditions, and insurability of coal miners. The State law, according to the analysis, covers principally extra-hazardous occupations, does not provide for a State insurance fund, and is court-administered.

Industrial Hygiene

Eyes and Industry. By Hedwig S. Kuhn, M.D., St. Louis, C. V. Mosby Co., 1950. 378 pp., bibliographies, charts, forms, illus. \$8.50.

Second edition of a book first published in 1944 under the title Industrial Ophthalmology. It offers a comprehensive program for effective utilization of vision in industry, by an ophthalmologist of wide industrial contacts. Selective placement in jobs according to vision requirements is considered basic in the program, together with pre-employment and follow-up testing of vision and a plant program for correcting defects. Among subjects discussed are eye hazards, injuries and plant treatment, eye protection, and illumination. A chapter is devoted to blind workers in industry.

Handbook for Photofluorographic Operators. Washington, Federal Security Agency, Public Health Service, 1950. 69 pp., diagrams, illus. (Publication No. 18.) 45 cents, Superintendent of Documents, Washington. Answers the more common questions arising in the daily operation of photofluorographic machines used to take miniature X-ray chest films for tuberculosis detection. Briefly outlines the problems of radiation hazards and control, and precautions which the operator must take to protect himself and others.

- Industrial Hygiene Survey, Coal Mine Industry, State of Washington. [Olympia?], State Department of Health, Industrial Hygiene Section, [1950?]. 43 pp., map, diagrams, illus. (I. H. Bull. No. 4.)
- Cardiovascular Disease in the Steel Industry. By Lawrence T. Smyth, M.D. (In Industrial Medicine and Surgery, Chicago, January 1951, pp. 35-37. 75 cents.)
- Investigation of Occupational Dermatoses in the Citrus Fruit Canning Industry. By Donald J. Birmingham, M.D., and others. (In A. M. A. Archives of Industrial Hygiene and Occupational Medicine, Chicago, January 1951, pp. 57-63. \$1.)
- Q Fever Studies in Southern California. By R. J. Huebner, M.D., and J. A. Bell, M.D. Observations on the Epidemiology of Q Fever in Northern California. By E. H. Lennette, M.D., and W. H. Clark, M.D. (In Journal of the American Medical Association, Chicago, February 3, 1951, pp. 301-309, charts, bibliographical footnotes. 45 cents.)

Q fever is an occupational hazard to workers handling infected livestock or its products. Well over a third of a group of 300 infected persons worked in livestock industries.

Industrial Relations

- Analysis of Strikes, 1927-49. Washington, U. S. Department of Labor, Bureau of Labor Statistics, 1951. 7 pp., charts. (Serial No. R. 2017; reprinted from Monthly Labor Review, January 1951.) Free.
- Labor-Management Relations in the Cement Industry.
 Washington, U. S. Department of Labor, Bureau of
 Labor Statistics, 1951. 5 pp., charts. (Serial No.
 R. 2016; reprinted from Monthly Labor Review,
 January 1951.) Free.
- The Economic Impact of Collective Bargaining in the Steel and Coal Industries During the Post-War Period. By Albert Rees. Chicago, University of Chicago, Industrial Relations Center, [1950?]. 15 pp.; processed.

On the basis of a study of trends of wages, costs, and prices, the author concludes that collective bargaining has not been an inflationary force but has "merely reflected fundamental inflationary trends generated elsewhere in the economy." The new types of collective agreements with elastic provisions such as escalator clauses are also viewed as essentially noninflationary. Inflation is caused by "more fundamental economic forces." If we again fail to get at the real causes of inflation, "it will not be the fault of collective bargaining."

Employer's Obligation to Produce Data for Collective Bargaining. By Herbert L. Sherman, Jr. (In Minne-

- sota Law Review, Minneapolis, December 1950, pp. 24-46. \$1.)
- Providing Facts and Figures for Collective Bargaining—The Controller's Role. By Earl Brooks, N. Arnold Tolles, Richard F. Dean. New York, Controllership Foundation, Inc., [1950]. 86 pp. \$5.
- "Featherbedding"—A List of References. Washington, Association of American Railroads, Bureau of Railway Economics, Library, July 31, 1950. 16 pp.; processed.
- Collective Agreements in the Tobacco Industry, [Canada]. (In Labor Gazette, Department of Labor, Ottawa, February 1951, pp. 168, 169; Collective Agreement Studies, No. 14.)
- A Works Council in Action: An Account of the Scheme in Operation at Bournville Works. Bournville, England, Cadbury Brothers, Ltd., 1950. 48 pp., charts, illus.
- Recht und Gerechtigkeit in der Mitbestimmung—Ein Evangelischer Ratschlag. By Eberhard Müller. Stuttgart, Deutsche Verlags-Anstalt, 1950. 82 pp. (Der Deutschenspiegel, Band 36/37.)

Labor participation in management—termed *Mitbestimmung* in German—is discussed in the light of Protestant theology and ethics, and proposals are submitted for settling the issue in West Germany.

Industry Reports-General

- [Reports Prepared for Building, Civil Engineering, and Public Works Committee, International Labor Organization, Third Session, Geneva, 1951]: I, General Report; II, Welfare in the Construction Industry; III, Seasonal Unemployment in the Construction Industry. Geneva, International Labor Office, 1950 and 1951. 88, 39, 97 pp., respectively. Reports I and III, 50 cents; Report II, 25 cents. Distributed in United States by Washington Branch of ILO.
- The Joint Maritime Commission and the Maritime Work of the I. L. O. (In International Labor Review, Geneva, November 1950, pp. 337–363. 50 cents. Distributed in United States by Washington Branch of ILO.)
- Labor Conditions in the Japanese Cotton Spinning Industry. [Osaka?], All Japan Cotton Spinners' Association, 1950. 21 pp.

A separate report on cotton industry wages was also published by the Association in the latter part of 1950.

- Labor Conditions in the Japanese Raw Silk Reeling Industry. [Tokyo?], Japan Raw Silk Reelers' Association, 1950. 17 pp.
- Report on Labor Situation in Japan Covering Synthetic Fibers, Woolen Spinning, and Hard and Bast Fibers. [Tokyo?], Japan Chemical Textile Association, 1950. 20 pp.

Labor Organizations

- The U. S. Labor Movement. (In Fortune, New York, February 1951, pp. 91-93, 161, et seq., illus. \$1.25.)
- Directory of Labor Organizations in New York State. New York, State Department of Labor, Division of Research and Statistics, 1950. 122 pp. (Special Bull. No. 228.) 50 cents.
- Stores and Unions: A Study of the Growth of Unionism in Dry Goods and Department Stores. By George G. Kirstein. New York, Fairchild Publications, Inc., 1950. 246 pp., bibliographical footnotes, illus. \$7.

The author traces the history of trade-unions in retail trades; reports, with emphasis on cause and effect, on major strikes in the industry; and analyzes the attitudes toward unions that may be expected on the part of management and employees.

One chapter treats in detail the place of employer associations in collective bargaining in the retail trades. Bargaining by employer associations, although not unique in this industry, plays a more important role than in most industries.

The final chapter deals with the impact of unionism on stores, and illustrates by relevant labor-management contract clauses the methods adopted to deal with some of the more important problems arising between management and union employees.

- Report [of] Third International Trade Union Conference of the E.R.P. [European Recovery Program], Rome, April 17-20, 1950. Paris, Trade Union Advisory Committee—E.R.P., 1950. 112 pp., illus.
- Thirty-Ninth Annual Report on Labor Organization in Canada (for the Calendar Year 1949). Ottawa, Department of Labor, 1951. 95 pp., chart. 25 cents.
- Organized Labor in Guatemala, 1944-1949: A Case Study of an Adolescent Labor Movement in an Underdeveloped Country. By Archer C. Bush. Hamilton, N. Y., Colgate University, 1950. Variously paged, bibliography; processed. (Area Studies, Latin American Seminar Reports, No. 2.) \$2.50.
- Soviet Trade Unions—Their Place in Soviet Labor Policy. By Isaac Deutscher. London and New York, Royal Institute of International Affairs, 1950. 156 pp. 7s. 6d. net. \$1.75.

Short historical treatment of Soviet trade-unions, describing their struggle to influence labor policy and their final complete subjection to state control. Describes the various measures taken by the Soviet Government to promote productivity in the face of the workers' discontent with living and working conditions.

Manpower

Fact Book on Manpower. Washington, U. S. Department of Labor, Bureau of Labor Statistics, 1951. Variously paged, maps, charts; processed. Free.

Selected statistics on population and labor force of the United States, industrial and occupational distribution of the labor force, potential manpower resources, and other pertinent subjects.

- Manpower Planning for the Emergency. Washington, Bureau of National Affairs, Inc., 1951. 25 pp. (Personnel Policies Forum Survey No. 1.) \$1.
- Manpower Utilization: Selected References on Manpower Problems, with Notes. Ithaca, N. Y., Cornell University, New York State School of Industrial and Labor Relations, December 1950. 17 pp.; processed.
- Maximum Utilization of Employed Manpower—A Check List of Company Practice. Princeton, N. J., Princeton University, Industrial Relations Section, 1951. 52 pp., bibliography. (Research Report Series, No. 83; revision of Research Report No. 68.) \$1.
- Manpower Problems, Vocational Training, and Employment Service, [Near and Middle East]. Geneva, International Labor Office, 1951. 46 pp. 25 cents. Distributed in United States by Washington Branch of ILO.

Report I prepared for ILO Regional Conference for the Near and Middle East, Teheran, April 1951.

Medical Care and Sickness Insurance

- Economic Aspects of Hospital Care. By Herbert E. Klarman. (In Journal of Business of the University of Chicago, January 1951, pp. 1–24. \$1.75.)
- Medical Care for Americans. Edited by Franz Goldmann,
 M.D., and Hugh R. Leavell, M.D. (In Annals of the American Academy of Political and Social Science,
 Vol. 273, Philadelphia, January 1951, pp. 1–200.
 Paper, \$2 to nonmembers, \$1 to members of Academy.)

Symposium of articles dealing with fundamental phases and considerations for effective programming of medical care in the United States. Under medical-care insurance are discussed: (1) Trends in voluntary plans; (2) movements for compulsory health insurance, 1910–50; (3) experience and position of organized labor as to problems of medical care; and social security aspects. Other sections deal with prerequisites for effective organization of medical care; organizational methods; special groups served by public medical care; and specialized or specialneed programs, in which are included the worker in industry, the rural population, and minority groups.

Temporary Disability Benefits. By Morris Sackman. (In American Federationist, Washington, December 1950, pp. 23-26. 20 cents.)

Comparison of salient administrative provisions of sickness-insurance laws of Rhode Island, California, New Jersey, and New York.

United States Civil Defense: Health Services and Special Weapons Defense. Washington, Federal Civil Defense Administration, 1950. 260 pp., bibliography, charts, forms. (Pub. AG-11-1.) 60 cents, Superintendent of Documents, Washington.

Outlines functional responsibilities and presents a pro-

gram for civil-defense health services in case of atomic, biological, or chemical attack. A special program for industrial health services is also outlined. Various specific hazards are discussed.

Migration and Migrants

American Immigration Policy—A Reappraisal. Edited by William S. Bernard and others. New York, Harper & Brothers, 1950. xx, 341 pp., bibliography, charts. \$4.

American immigration policy is described in its historical setting, and its operation and effects are analyzed. A more liberal policy is urged, particularly to give greater flexibility to the quota system, to make use of occupational criteria as an auxiliary method of selecting immigrants, and to grant quotas to peoples now excluded. An immigration commission is proposed for the study of "a democratic alternative to the national origins and quota system."

The Puerto Rican Journey: New York's Newest Migrants. By C. Wright Mills, Clarence Senior, Rose Kohn Goldsen. New York, Harper & Brothers, 1950. 238 pp. (Publication of Bureau of Applied Social Research, Columbia University.) \$3.

A study of Puerto Rican migration to New York City and of the migrants in their new environment. The account is based upon a study begun in September 1947, described by the authors as having nine major phases, including a detailed questionnaire procedure for obtaining sample household data by interviews.

Productivity

Productivity in the Beet Sugar Industry, 1939-49. Washington, U. S. Department of Labor, Bureau of Labor Statistics, 1951. 7 pp.; processed. Free.

Another recent report in this series for 1939-49 covers clay construction products.

- Man-Hours Expended per Car, Railroad Freight Cars, 1939-48. Washington, U. S. Department of Labor, Bureau of Labor Statistics, 1950. 23 pp., charts; processed. Free.
- Trends in Man-Hours Expended per Unit, Selected Types of Machine Tools, 1948-49. Washington, U. S. Department of Labor, Bureau of Labor Statistics, 1951. 19 pp., charts; processed. Free.

Social Security

- Social Security Act Amendments of 1950: A Summary and Legislative History. By Wilbur J. Cohen and Robert J. Myers. (In Social Security Bulletin, Federal Security Agency, Social Security Administration, Washington, October 1950, pp. 3-14, chart. 20 cents, Superintendent of Documents, Washington.)
- Changing Trends Under Old-Age and Survivors Insurance, 1935-1950. By Jacob Perlman. (In Industrial and Labor Relations Review, Ithaca, N. Y., January 1951, pp. 173-186; also reprinted.)

Old-Age and Survivors Insurance: Coverage Under the 1950
Amendments. By George J. Leibowitz. Aid to the
Permanently and Totally Disabled. By Phyllis Hill.
(In Social Security Bulletin, Federal Security Agency,
Social Security Administration, Washington, December 1950, pp. 3-10, 21; 11-15. 20 cents, Superintendent of Documents, Washington.)

The two articles listed immediately above analyze and clarify significant changes made in two major programs by the 1950 revision of the Federal Social Security Act.

The Social Welfare Forum, 1950: Official Proceedings, 77th Annual Meeting, National Conference of Social Work, Atlantic City, N. J., April 23-28, 1950. New York, Columbia University Press (for National Conference of Social Work), 1950. xvii, 344 pp. \$4.75.

Includes papers on The Economic Situation and its Effects on Social Welfare Services, Implications of an Expanded Social Insurance Program, and The Quest for Economic Security—Whose Responsibility? The latter article presents points of view of management and labor, and on the Government's role.

- Institut d'Assurances Sociales d'Haïti—Guide Pratique.
 [Port-au-Prince], Département du Travail, 1950. 29 pp., illus.
- First Report of the Department of Social Welfare, [Republic of Ireland]. Dublin, 1950. 228 pp. and inserts, illus. 5s.

In addition to a report on the department's activities from 1947 to 1949, the volume contains outlines of the historical background and development of the social welfare schemes administered by the department, accompanied by statistics and relevant legislation.

- Social Insurance in Rumania. By Frantisek Cerny. (In Bulletin of the International Social Security Association, Geneva, August-September 1950, pp. 1–10.)
- Social Security, [Near and Middle East]. Geneva, International Labor Office, 1950. 69 pp. 50 cents. Distributed in United States by Washington Branch of ILO.

Report III prepared for ILO Regional Conference for the Near and Middle East, Teheran, April 1951.

Wages and Hours of Labor

- Wage Trends, 1939-1949. Washington, U. S. Department of Labor, Bureau of Labor Statistics, [1951].
 9 pp., chart; processed. (Wage Movements Series, No. 3.) Free.
- Wage Chronology No. 11: Aluminum Co. of America,
 1939-50. Washington, U. S. Department of Labor,
 Bureau of Labor Statistics, 1951. 5 pp. (Serial No. R. 2015; reprinted from Monthly Labor Review,
 December 1950.) Free.
- Fertilizer, 1949 and 1950. Washington, U. S. Department of Labor, Bureau of Labor Statistics, 1951.
 35 pp., charts. (Wage Structure Series 2, No. 77.)
 Free.

- Department and Women's Ready-to-Wear Stores, 1950.
 Washington, U. S. Department of Labor, Bureau of
 Labor Statistics, 1951. 51 pp. (Wage Structure
 Series 2, No. 78.) Free.
- A Survey of Connecticut Laundry Occupations—Wages, Hours and Conditions of Employment, December 1949. Hartford, Department of Labor, Bureau of Labor Statistics, [1950?]. 31 pp.; processed.

A similar report is available for cleaning and dyeing occupations in Connecticut.

- The Changing Status of Teachers under the New York State Salary Law, 1947 to 1950. By Dwight E. Beecher. Albany, University of the State of New York, 1950. 39 pp., charts. (Bull. No. 1390.)
- Oregon Teachers and Administrators Salaries for 1950-51.

 Portland, Oregon Education Association, 1951. 15

 pp.; processed. (O. E. A. Research Bull., Vol. X, No. 2.)
- Employment, Hours Worked, Wages, 1940–1949 . . . in the Printing Industry of Montreal and District. Montreal, Printing Industry Parity Committee, 1950. 46 pp., charts. (Serial No. PE-11.)
- Premium Pay Practices in Private Industry. Washington, U.S. Department of Labor, Bureau of Labor Statistics, 1951. 54 pp., bibliography; processed. Free.

Covers premium pay for overtime and night work and for work on Sundays and holidays.

Wage Control. By William H. Chartener. Washington (1205 19th Street NW.), Editorial Research Reports, 1950.
17 pp. (Vol. II, 1950, No. 22.) \$1.

Digest of relevant provisions of Defense Production Act and of wage-control experience in World War II, with discussion of effects of wage control on the economy.

Miscellaneous

Readings in Labor Economics and Industrial Relations.

Edited by Joseph Shister. Philadelphia, J. B.
Lippincott Co., 1951. 661 pp. \$4.75.

A wide range of selections from writings of specialists, for use primarily in college courses. Most of the volume is devoted to unions and collective bargaining, but several papers deal with employment and unemployment, income, and social security.

Industrial Sociology: An Introduction to the Sociology of Work Relations. By Delbert C. Miller and William H. Form. New York, Harper & Brothers, 1951. 896 pp., bibliographies, charts. \$6.

The term "industrial" is given its broader meaning; the study is not limited to factories. A background section describes and criticizes the major contributions to the subject, notably the work of the Elton Mayo group. The second part of the book, on the social organization of the work plant, gives attention to the "informal organization of labor" as well as to formal organizations of management and workers. The third section discusses placement of workers and relation of teamwork to industrial morale. Part four is concerned with the social

adjustment of workers from preparation for a job to retirement. The volume concludes with a consideration of industry in some of its larger community and social aspects.

Introduction to the Total Theory of Labor—New Positive Foundation of Economics. By Alexander Kokkalis. Concord, N. H. (P. O. Box 175), the Author, 1950. 232 pp.

The Social Costs of Private Enterprise. By K. William Kapp. Cambridge, Mass., Harvard University Press, 1950. 287 pp. \$4.50.

The author states that many important costs of production are not included in the accounting systems or entrepreneurial costs of business enterprises. His study is a general and as far as possible quantitative analysis of these costs. Among them are the costs of industrial injuries, occupational diseases, air pollution, water pollution, premature depletion of various resources, and unemployment. These and various other costs are described as social costs borne by the community. The author argues that failure to take account of these costs in accounting systems invalidates traditional value and price analysis. He suggests the need for a fundamental revision of both economic theory and public policy to take account of these social costs.

Handbook of Human Engineering Data for Design Engineers.
Medford, Mass., Tufts College, Institute for Applied
Experimental Psychology, 1949. Variously paged,
bibliographies, charts. \$5.

Deals with quantitative measurements of human capabilities and limitations and their application to machine design. Among fields considered are vision, hearing, motor responses, physiological conditions as determinants of efficiency, and aptitude testing.

Radiation Monitoring in Atomic Defense. By Dwight E. Gray and John H. Martens. New York, D. Van Nostrand Co., Inc., 1951. 122 pp., bibliography, diagrams, illus. \$2.

Popular manual for laymen as well as for persons

concerned with measurement of atomic radiation, including those engaged in health protection in industrial establishments using radioisotopes. Gives details on use of standard detection instruments.

Sourcebook on Atomic Energy. By Samuel Glasstone. New York, D. Van Nostrand Co., Inc., 1950. 546 pp., diagrams, illus. \$2.90.

Compendium on development and scientific aspects of atomic energy, prepared under the auspices of the U. S. Atomic Energy Commission. Contains a chapter on radiation hazards and protective measures.

Economic Development in Latin America: An Introduction to the Economic Problems of Latin America. By Simon G. Hanson. Washington, Inter-American Affairs Press, 1951. 531 pp., bibliographies, maps, chart. \$7.

Includes a chapter on labor and social legislation and labor organization.

Rural Cuba. By Lowry Nelson. Minneapolis, University of Minnesota Press, 1950. 285 pp., bibliography, charts. \$3.50.

Based on a year's study, in 1945-46, by the author as a rural sociologist in the U. S. Department of State. Social stratification, level of living, education, and farming systems are among the chapter subjects.

Incentives and Management in British Industry. By R. P.
Lynton. London, Routledge & Kegan Paul, Ltd.,
1949. 212 pp., bibliography. 15s. net.

Considers the need for new approaches to the question of individual worker efficiency, and analyzes the efficacy of various types of incentives. The book is based in part on the writer's experience as a machine operator and in part on a broad study of literature and of management experience in British industry.

The author is critical of uniform standards set by legislation or by industry-wide labor-management agreements, as interfering with managerial initiative in stimulating productivity. He urges managements to be more resourceful and experimental in exercising the wide latitude remaining to them.

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A: Employment and Payrolls

TABLE A-1: Estimated Total Labor Force Classified by Employment Status, Hours Worked, and Sex

			Estin	mated nu	mber of	persons 1	14 years	of age and	l over 1	(in thous	ands)		
Labor force	19	951						1950					
	Feb.	Jan.	Dec.	Nov.2	Oct.	Sept.2	Aug.	July 2	June	May	Apr.	Mar.	Feb.
		I.				Tota	al, both	sexes					
Total labor force 3	(4)	(4)	64, 674	65, 453	65, 438	65, 020	66, 204	65, 742	66, 177	64, 108	63, 513	63, 021	63, 00
Civilian labor force. Unemployment Unemployed 4 weeks or less. Unemployed 5-10 weeks. Unemployed 11-14 weeks. Unemployed 15-26 weeks. Unemployed 15-26 weeks. Unemployed over 26 weeks. Employment. Nonagricultural. Worked 35 hours or more. Worked 15-34 hours. Worked 1-14 hours 5. With a job but not at work 6. Agricultural. Worked 35 hours or more. Worked 35 hours or more. Worked 35 hours or more. Worked 15-34 hours. Worked 1-14 hours 5. Worked 1-14 hours 5.	61, 313 2, 407 1, 039 640 276 241 213 58, 905 52, 976 42, 911 5, 806 2, 236 2, 022 5, 930 3, 790 1, 415 370 353	61, 514 2, 503 1, 184 677 208 2151 183 59, 010 52, 993 43, 505 5, 561 2, 251 1, 676 6, 018 3, 895 1, 467 308 348	62, 538 2, 229 1, 153 498 167 217 194 60, 308 54, 075 44, 177 6, 002 2, 319 1, 577 6, 234 3, 983 1, 505 348 399	63, 512 2, 240 1, 240 475 147 177 175 204 61, 271 53, 721 43, 546 6, 417 2, 331 1, 427 7, 551 5, 487 1, 594 306 163	63, 704 1, 940 955 420 128 183 257 61, 764 53, 273 7, 023 1, 999 1, 531 8, 491 6, 547 1, 611 245 88	63, 567 2, 341 1, 107 464 201 272 299 61, 226 53, 415 28, 042 20, 827 1, 984 2, 561 7, 811 5, 259 2, 028 356 170	64, 867 2, 500 1, 051 679 221 266 62, 367 54, 207 54, 287 54, 583 1, 545 4, 246 8, 160 6, 170 1, 475 295 223	64, 427 3, 213 1, 514 249 334 361 61, 214 52, 774 25, 072 19, 201 1, 650 6, 852 8, 440 6, 348 1, 695 238 158	64, 866 3, 384 1, 629 664 181 474 4399 61, 482 52, 436 43, 117 5, 153 1, 843 2, 323 9, 046 6, 975 1, 739 246 88	62, 788 3, 057 1, 130 634 252 59 481 59, 731 51, 669 43, 033 5, 149 1, 537 8, 062 5, 970 1, 613 292	62, 183 3, 515 1, 130 686 521 705 58, 668 51, 473 41, 143 6, 552 2, 183 1, 597 7, 195 5, 123 1, 503 313 250	61, 675 4, 123 1, 229 1, 143 580 722 449 57, 551 50, 877 1, 725 6, 675 4, 551 1, 575 2, 102 1, 725 6, 675 4, 551 1, 575 2, 295	61, 63 4, 68 1, 58 1, 45 65 65, 95 50, 73 41, 43 5, 27 2, 08 1, 94 6, 22 4, 33 1, 27 30 31
							Males						
Total labor force 3	(4)	(4)	45, 644	45, 934	45, 978	46, 155	47, 132	47,000	46, 718	45, 614	45, 429	45, 204	45, 11
Civilian labor force Unemployment. Employment. Nonagricultural. Worked 35 hours or more. Worked 15-34 hours. Worked 1-14 hours 5. With a job but not at work 6. Agricultural. Worked 35 hours or more. Worked 15-34 hours. Worked 15-34 hours. Worked 1-14 hours. Worked 1-14 hours 5. With a job but not at work 6.	42, 894 1, 594 41, 300 35, 980 30, 284 3, 355 984 1, 357 5, 320 3, 644 1, 077 300 298	43, 093 1, 659 41, 433 36, 072 31, 054 2, 947 961 1, 110 5, 362 3, 724 1, 066 253 319	43, 535 1, 459 42, 076 36, 585 31, 308 3, 217 998 1, 062 5, 491 3, 751 1, 134 268 338	44, 019 1, 309 42, 710 36, 554 31, 175 3, 447 980 952 6, 156 4, 982 842 200 133	44, 268 1, 172 43, 096 36, 507 30, 826 3, 823 800 1, 058 6, 589 5, 605 756 146 82	44, 726 1, 482 43, 244 36, 877 21, 103 13, 273 13, 273 1, 683 6, 367 4, 875 1, 131 219 143	45, 818 1, 664 44, 154 37, 455 31, 800 2, 508 6,54 2, 494 6, 699 5, 573 764 181 183	45, 708 2, 126 43, 582 36, 605 18, 905 12, 762 732 4, 207 6, 977 5, 789 899 162 126	45, 429 2, 200 43, 229 36, 216 31, 523 2, 605 1, 332 7, 013 6, 031 743 162 78	44, 316 2, 130 42, 186 35, 597 30, 860 2, 829 874 1, 034 6, 589 5, 339 895 186 170	44, 120 2, 628 41, 492 35, 220 29, 722 3, 483 999 1, 017 6, 272 4, 891 925 251 205	43, 879 3, 002 40, 877 34, 890 29, 562 3, 156 958 1, 214 5, 987 4, 380 1, 146 188 274	43, 76 3, 42 40, 34 34, 69 29, 33 2, 90 92 1, 53 5, 64 4, 17 94 22 29
							Females						
Total labor force 3	(4)	(4)	19,030	19, 519	19, 460	18, 865	19,072	18, 742	19, 459	18, 494	18, 084	17, 817	17, 88
Civilian labor force. Unemployment. Employment. Nonagricultural. Worked 35 hours or more. Worked 15-34 hours. Worked 1-14 hours 5. With a job but not at work 6. Agricultural. Worked 35 hours or more. Worked 15-34 hours. Worked 1-14 hours 5. Worked 1-14 hours 6.	18, 419 17, 605 16, 996 12, 627 2, 451 1, 252 665 610 146 338 70 55	18, 421 17, 577 16, 921 12, 451 2, 614 1, 290 566 656 171 401 55 29	19,003 770 18,232 17,490 12,869 2,785 1,321 515 743 232 371 80 61	19, 493 18, 561 17, 167 12, 371 2, 970 1, 351 475 1, 395 505 752 106 30	19, 436 768 18, 668 16, 766 11, 894 3, 200 1, 199 473 1, 902 942 855 99 6	18, 841 859 17, 982 16, 538 6, 939 7, 554 1, 167 878 1, 444 384 897 137	19, 049 836 18, 213 16, 752 12, 035 2, 075 3, 075 1, 752 1, 461 597 711 114 40	18, 719 1, 087 17, 632 16, 169 6, 167 6, 439 918 2, 645 1, 463 559 796 32	19, 437 1, 184 18, 253 16, 220 11, 594 2, 548 1, 087 991 2, 033 944 996 84 10	18, 472 927 17, 545 16, 072 12, 173 2, 320 1, 075 503 1, 473 631 718 106 17	18, 063 887 17, 176 16, 253 11, 421 3, 069 1, 184 580 923 234 578 67 45	17, 796 1, 121 16, 674 15, 987 11, 772 2, 559 1, 144 511 688 171 429 67 21	17, 86 1, 25 16, 61 16, 03 12, 09 2, 36 1, 16 41 57 15 32 7

¹ Estimates are subject to sampling variation which may be large in cases where the quantities shown are relatively small. Therefore, the smaller estimates should be used with caution. All data exclude persons in institutions. Because of rounding, the individual figures do not necessarily add to group totals.

² Census survey week contains legal holiday.
² Total labor force consists of the civilian labor force and the Armed Forces.
⁴ Beginning with January 1951, data on net strength of the Armed Forces and total labor force are not available.

Source: U. S. Department of Commerce, Bureau of the Census.

⁵ Excludes persons engaged only in incidental unpaid family work (less than 15 hours); these persons are classified as not in the labor force.
⁶ Includes persons who had a job or business, but who did not work during the census week because of illness, bad weather, vacation, labor dispute or because of temporary lay-off with definite instructions to return to work within 30 days of lay-off. Does not include unpaid family workers.

TABLE A-2: Employees in Nonagricultural Establishments, by Industry Division and Group ¹ [In thousands]

Industry group and industry	19	51						1950						Ann	
Industry group and industry	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	1949	1948
Total employees	45, 294	45, 254	46, 601	45, 873	45, 898	45, 684	45, 080	44, 096	43, 945	43, 311	42, 926	42, 295	41, 661	43, 006	44, 201
Mining Metal	104.0		938 103. 7 35. 9 28. 7 20. 8	36. 1 28. 4	939 101. 5 36. 6 28. 1 19. 9	37. 2 28. 1	950 102. 5 37. 0 28. 2 20. 0	103. 3 36. 6 28. 4	28.0	940 99. 9 35. 4 27. 9 19. 2	939 98. 5 33. 8 28. 0 19. 1	33. 9 27. 8	595 97. 9 33. 6 27. 7 18. 8	27.3	981 105. 1 36. 6 27. 8 21. 7
Anthracite		73. 3	73. 2	74.3	74. 4	75. 0	75. 3	73.6	75. 3	76. 1	75.3	76. 9	75.9	77.3	80. (
Bituminous-coal	398.0	402.1	405. 0	404.3	405.8	407.0	407.8	382.1	410.4	413.1	419.0	422.9	82.6	399.0	438.
Crude petroleum and natural gas production		256. 4	256.8	254.8	255. 5	258.6	261. 2	261.9	258.9	253.9	251. 4	249. 2	249.8	259.0	257.
Nonmetallic mining and quarrying	97.0	97.0	98.9	101.9	102.1	102.7	103. 4	101.3	100.0	97.3	94. 5	90. 2	88.6	96. 4	100.
Contract construction	2,195	2,278	2,393	2,571	2, 631	2, 626	2,629	2,532	2,414	2,245	2,076	1,907	1,861	2,156	2,16
Nonbuilding construction		382 139. 8 242. 3	428 164. 9 262. 6		534 228, 5 305, 8	540 234. 3 305. 8		519 228. 8 290. 4	493 213. 5 279. 3	442 182. 4 260. 0		328 118.3 210.0	312 110. 4 201. 9	428 178, 1 250, 3	416 172. 243.
Building construction		1,896	1,965	2,066	2,097	2, 086	2, 081	2, 013	1,921	1,803	1,687	1, 579	1,549	1,727	1,749
General contractors			838	892	905	906	905	870	827	766	702	651	641	753	797
Special-trade contractors Plumbing and heating Painting and decorating Electrical work Other special-trade contractors		1,091 285.8 124.3 137.7	1, 127 289. 7 133. 4 139. 6 563. 9	147. 4 138. 7	158. 1 137. 6	157.2	158.3 133.7	149.8 131.0	140.0 127.6	126. 7 122. 0	117. 1 120. 2	104.5	100.6 118.0	124. 4 125. 1	952 239. 3 125. 3 124. 3 463. 1
Manufacturing											14, 162				
Durable goods ²	1								7, 964			7, 418	7, 324	7,465	8, 315 6, 970
Ordnance and accessories			29. 5	6.00	27.7	26.6			23. 7	23. 2			21.8		28.
Food and kindred products. Meat products. Dairy products. Canning and preserving. Grain-mill products. Bakery products. Sugar. Confectionery and related products. Beverages. Miscellaneous food products.	1, 468	1, 494 311, 2 134, 1 155, 4 127, 0 287, 5 30, 8 99, 6 212, 0 136, 3	314. 4 136. 1 167. 5 124. 9 289. 5 45. 0 105. 6 212. 5	305. 7 139. 6 197. 4 125. 2 290. 9 51. 8 110. 2 215. 4	142.8 253.2 128.4 292.2 50.7 114.2 217.7	149. 6 353. 1 129. 4 290. 4 34. 5 110. 5 230. 0	156. 4 329. 1 128. 6 287. 7 33. 5 102. 1	158. 7 250. 4 125. 9 289. 3 30. 6 90. 0 234. 2	156. 5 177. 0 124. 3 283. 7 29. 4 90. 4 224. 8	148. 7 152. 3 121. 2 286. 7 28. 9 88. 6	141. 4 144. 9 120. 2 284. 6 27. 0 90. 6 206. 0	136. 6 133. 9 120. 1 282. 4 27. 1 94. 5 205. 1	134. 1 133. 6 119. 3 277. 9 26. 9 96. 7 198. 2	146. 2 207. 1 120. 6 281. 7 32. 7 96. 9 211. 4	1, 536 271. 2 147. 2 222. 0 117. 2 282. 9 34. 8 100. 2 218. 0 141. 3
Tobacco manufactures	86	88 25. 8 41. 2 12. 0 8. 5	12.0	43.3	96 26. 2 43. 0 12. 4 14. 0	41.7 12.5		38. 9 11. 8	12.0	39.7	83 25. 5 39. 3 12. 4 5. 5	40.9 12.6	88 25. 5 42. 3 12. 7 7. 4	94 26. 6 44. 5 13. 0 10. 1	100 26. 6 48. 1 13. 1
Textile-mill products Yarn and thread mills Broad-woven fabric mills Knitting mills Dyeing and finishing textiles Carpets, rugs, other floor coverings Other textile-mill products	1, 358	1, 351 172. 3 632. 3 251. 9 93. 5 62. 3 138. 6	170. 7 632. 9 254. 1 93. 1 62. 5	171. 5 637. 5 253. 9 93. 3	638.7	169. 5 637. 4 253. 0 92. 6 61. 3	625. 9 246. 9 89. 2 60. 5	156. 7 601. 5 228. 4 84. 9 58. 1	610. 4 230. 9 86. 4 59. 8	153. 3 602. 9 231. 6 86. 4 59. 8	154. 7 602. 8 236. 1 88. 3 60. 9	604. 2 239. 8 89. 5 60. 5	600. 6 241. 1 89. 9 60. 3	581. 9 231. 4 86. 4 58. 9	1, 362 177. 6 645. 7 249. 0 89. 8 64. 8 135. 2
Apparel and other finished textile prod- ucts				1, 175 151. 2	1, 221 152. 4	1, 218 151. 4	1, 208 152. 4	1, 097 140. 6	1, 093 148. 5	1, 091 143, 2	1, 119 146. 0	1, 174 149. 2	1, 180 148. 9	1, 136 141. 5	1, 162 154.
wen's and boys turnshings and work clothing. Women's outerwear. Willinery. Children's outerwear. Fur goods and miscellaneous apparel. Other fabricated textile products.		268. 2 336. 8 103. 5 24. 4 67. 9 88. 7 148. 5	328. 4 106. 7 21. 5 65. 8 92. 1	110. 9 18. 4 65. 2 97. 4	331. 9 113. 2 22. 8 68. 9 101. 2	340. 0 111. 1 23. 4 68. 6 99. 0	340. 3 105. 9 23. 7 68. 5 96. 2	299. 1 95. 8 20. 2 67. 2 86. 6	281. 3 98. 9 17. 8 65. 3 88. 6	101. 3 18. 9 62. 6 85. 4	305. 2 105. 5 20. 7 63. 6 82. 6	338. 9 107. 1 26. 5 68. 4 83. 6	68. 5	328. 6 98. 9 22. 3 63. 4 88. 2	269. 1 342. 4 97. 4 22. 9 59. 1 125. 6
Lumber and wood products (except fur- niture) Logging camps and contractors Sawmilis and planing mills Millwork, plywood, and prefabricated		795 66. 5 455. 0			849 78. 4 492. 5	853 78. 1 498. 7	845 78. 8 494. 5	812 76. 2 474. 6	803 73. 7 467. 3	784 67. 4 459. 1	753 59. 2 439. 8	738 59. 3 429. 8	713 49. 2 416. 1		812 72.8 472.9
Millwork, plywood, and prefabricated structural wood products. Wooden containers. Miscellaneous wood products. See footnotes at end of table.		127. 5 82. 2 64. 1	80.9	82.3	82.7	81.8	79.7	77.5	77.9	75. 5	74.4	73. 2	73.0	73.3	119. 81. 65.

TABLE A-2: Employees in Nonagricultural Establishments, by Industry Division and Group ¹—Con.

				[In	thousa	nds]									
T. J	19	051						1950						Ann	
Industry group and industry	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	1949	1948
Manufacturing—Continued Furniture and fixtures Household furniture Other furniture and fixtures		370 264. 1 105. 9	373 266. 7 106. 3	376 270. 5 105. 8	378 270. 9 107. 1	376 269. 0 107. 1	367 262. 1 104. 9	350 249. 5 100. 0	349 249. 8 99. 5	348 248. 5 99. 4	347 248. 8 98. 6	344 247. 3 97. 1	341 244. 9 96. 1		348 247. 0 100. 9
Paper and allied products Pulp, paper, and paperboard mills Paperboard containers and boxes Other paper and allied products		497 242. 1 139. 2 115. 5	501 244. 4 140. 9 115. 2	500 242. 8 141. 9 114. 9	491 241. 7 140. 0 109. 5	488 241. 5 137. 4 109. 2	479 238. 6 131. 7 109. 1	465 234. 8 123. 4 106. 4	467 235. 2 124. 2 107. 6	459 231. 8 121. 3 105. 7	458 230. 6 121. 3 105. 6	455 230. 2 120. 5 104. 7	453 229. 3 120. 0 103. 7	117.1	470 240. 7 121. 4 107. 6
Printing, publishing, and allied industries. Newspapers Periodicals Books Commercial printing Lithographing Other printing and publishing		755 294. 0 53. 2 48. 3 206. 3 40. 8 112. 7	764 299. 4 53. 2 48. 6 207. 0 42. 0 114. 0	759 295. 9 53. 3 48. 4 205. 3 42. 4 113. 7	754 292. 9 52. 8 48. 4 204. 8 42. 1 113. 1	746 295. 1 51. 5 48. 4 200. 1 41. 1 110. 0	741 292. 7 51. 8 47. 8 198. 8 40. 5 108. 9	739 295. 1 51. 7 46. 2 198. 1 40. 0 108. 2	739 295. 0 51. 4 46. 3 199. 6 40. 0 106. 8	736 293. 9 51. 6 46. 0 197. 9 40. 0 106. 2	735 293. 5 51. 5 45. 3 198. 9 39. 9 105. 7	734 291. 6 52. 0 45. 2 199. 2 40. 1 106. 3	732 289. 5 52. 1 44. 8 198. 5 40. 1 106. 7	53. 4 44. 6	725 267. 5 54. 7 46. 6 197. 5 45. 1 113. 3
Chemicals and allied products		729 78. 0 215. 8 101. 1 73. 6 37. 3 57. 0 166. 1	724 77. 5 214. 3 101. 3 74. 1 32. 9 58. 7 165. 3	720 77. 1 211. 3 100. 2 73. 7 32. 1 60. 9 164. 6	720 76. 6 203. 8 99. 5 74. 0 32. 9 61. 9 166. 4	701 69. 3 206. 4 98. 4 74. 2 32. 7 54. 3 165. 4	684 68. 3 203. 6 96. 7 73. 5 29. 6 48. 7 164. 0	669 70. 3 199. 8 95. 9 72. 7 28. 3 46. 8 155. 6	670 72. 9 198. 4 94. 2 71. 5 30. 2 48. 2 154. 9	671 71. 4 195. 7 93. 1 69. 7 36. 2 50. 0 154. 4	675 70. 5 194. 1 93. 4 69. 1 41. 6 53. 2 153. 4	671 69. 4 191. 9 91. 1 68. 9 40. 9 55. 3 153. 0	665 68. 8 189. 5 91. 4 68. 3 38. 5 56. 2 152. 4	92. 3 67. 3 34. 3 56. 1	699 70. 9 210. 3 89. 5 70. 7 35. 9 56. 2 165. 0
Products of petroleum and coal Petroleum refining Coke and byproducts Other petroleum and coal products		253 201. 8 21. 3 30. 1	254 201. 6 21. 2 31. 2	254 201. 5 21. 2 30. 8	252 199. 3 21. 4 31. 3	251 193. 1 21. 5 31. 2	254 200. 5 21. 4 32. 5	241 189. 0 21. 1 30. 5	239 187. 8 21. 1 30. 1	236 186. 2 20. 7 28. 6	234 185. 7 20. 5 27. 8	241 194. 8 19. 7 26. 9	242 195. 1 19. 6 26. 8	245 198. 7 19. 5 27. 1	250 199. 1 20. 0 30. 8
Rubber products	274	275 115. 9 30. 1 128. 6	273 116. 8 29. 1 127. 5	272 117. 2 28. 5 126. 6	269 115. 7 28. 0 125. 3	265 115. 2 26. 9 122. 5	258 112. 8 25. 7 119. 1	249 111. 3 24. 1 113. 6	247 110. 8 24. 2 112. 4	241 108. 1 23. 9 108. 8	238 106. 6 24. 1 107. 4	237 106. 3 24. 2 106. 1	236 105. 8 23. 6 106. 2	234 106. 6 26. 4 100. 5	259 121. 1 29. 6 107. 9
Leather and leather products Leather Footwear (except rubber) Other leather products		402 51. 8 256. 2 94. 4	397 51. 9 251. 2 93. 6	399 51.8 248.4 98.6	406 51. 4 253. 4 101. 5	411 51. 9 259. 5 99. 6	409 51. 1 260. 4 97. 5	390 49. 5 252. 8 88. 1	382 49. 6 247. 2 84. 9	374 49. 5 240. 4 83. 8	379 49. 5 244. 3 85. 4		395 50. 1 257. 4 87. 9	388 49. 7 251. 0 87. 2	310 54. 2 260. 1 95. 4
Stone, clay, and glass products. Glass and glass products. Cement, hydraulic Structural clay products. Pottery and related products. Concrete, gypsum, and plaster products. Other stone, clay, and glass products.		546 144. 3 41. 9 86. 8 60. 6 97. 2 114. 8	547 144. 3 42. 4 87. 1 60. 8 97. 9 114. 4	98.3	58. 1 98. 5	58. 8 98. 1	532 137. 9 43. 3 87. 2 57. 4 98. 3 107. 4	41. 7 85. 2 55. 3 95. 5	56. 0 93. 9	80. 2 57. 6 90. 0	487 128. 8 41. 5 76. 0 57. 6 86. 4 77. 1	40. 6 75. 5 58. 0 84. 0	75. 2 57. 6	41. 8 79. 8 57. 5 84. 6	514 135. 9 40. 9 83. 4 60. 6 87. 8 105. 9
Primary metal industriesBlast furnaces, steel works, and rolling	1, 324	1, 323	1, 315	1, 301	1, 289	1, 276	1, 256	1, 222	1, 216			1, 144	1, 137	1, 101	1, 247
mills Iron and steel foundries		636. 8 271. 1	636. 1 267. 1	635. 6 262. 5							599. 2 215. 7				612. 0 259. 3
Primary smelting and refining of non- ferrous metals		57. 0	56. 6	54. 8	55. 5	54.8	55. 1								55. 6
ferrous metals Nonferrous foundries Other primary metal industries	Louiseas	103.8 109.8 144.1	109.6	106.6	104.8	100.7	96.0	92.1	91.4	87.3	93. 2 84. 3 124. 1	83.3	80.8	75.8	103. 8 85. 2 130. 7
Fabricated metal products (except ord- nance, machinery, and transporta- tion equipment). Tin cans and other tinware. Cutlery, hand tools, and hardware. Heating apparatus (except electric) and	1, 023	1, 015 49. 8 169. 0	51. 2		51.9	55. 5			156. 2	154.3	876 44. 6 152. 5	151. 2		142.3	976 48. 7 154. 4
plumbers' supplies Fabricated structural metal products Metal stamping, coating, and engraving Other fabricated metal products.		157. 9 220. 9 186. 7 230. 3	220. 6 186. 8	219. 3 185. 6	216. 7 184. 8	209. 9 182. 9	179.3	201. 3 172. 7	198. 0 170. 7	192. 4 162. 6	143. 9 190. 3 156. 3 188. 0	187. 6 152. 9	185.1	198. 5 147. 9	215. 9
Machinery (except electrical) Engines and turbines Agricultural machinery and tractors Construction and mining machinery Metalworking machinery	1, 557	1, 527 83. 9 186. 4 114. 0 267. 9	82. 0 175. 1 112. 4	164. 4 110. 9	72. 9 163. 5 108. 9	140. 5 105. 6	74. 8 179. 5 101. 6 222. 1	72. 8 180. 1 99. 1 212. 0	73. 5 180. 5 98. 1 212. 3	73. 6 180. 7 95. 9 207. 2	70. 9 180. 5 95. 4 204. 5	177. 5 95. 2 201. 6	175. 2 93. 4 198. 4	72. 5 181. 3 101. 3 208. 7	191. 3 122. 6 239. 8
Office and store machines and devices. Service-industry and household ma-			212. 2 99. 2	207. 1 97. 9	203. 0 95. 9	197. 6	191. 7 90. 8	185. 0 89. 5	182. 8 89. 3	181. 3 88. 4	88. 0	175. 7 87. 0	174. 0 85. 4	186. 4 90. 6	209. 8
chinesMiscellaneous machinery parts		180. 7 189. 0													

TABLE A-2: Employees in Nonagricultural Establishments, by Industry Division and Group ¹

				[Ir	thousa	nds]									
Industry group and industry	19	951						1950						Annaver	nual
manny Stock and manny	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	1949	1948
Manufacturing—Continued Electrical machinery Electrical generating, transmission, distribution, and industrial appa-	925	922	935	929	915	872	853	817	810	800	791	779	772	759	869
ratus Electrical equipment for vehicles Communication equipment Electrical appliances, lamps, and mis-		348. 1 77. 2 345. 5	355. 8		75.0	73. 3 326. 5	70. 9 318. 1	70. 0 297. 0	68. 9 296. 1	67. 8 289. 4	66. 6 287. 6	65. 1 283. 2	65. 5 279. 7	271.1	332. 9 69. 0 312. 2
cellaneous products Transportation equipment. Automobiles. Aircraft and parts. Aircraft engines and parts. Aircraft propellers and parts. Other aircraft parts and equipment. Ship and boat building and repairing. Ship building and repairing. Boat building and repairing. Railroad equipment. Other transportation equipment.	1, 480	244. 4 69. 9 9. 3 38. 4 95. 7	1, 410 897. 1 341. 6 230. 4 66. 8 9. 1 35. 3 91. 8 77. 6 14. 2 66. 0	217. 5 63. 4 8. 9 33. 6 88. 9 75. 5 13. 4	1, 394 922. 7 305. 1 205. 0 60. 1 8. 5 31. 5 88. 6 75. 3 13. 3 64. 3	1, 365 913. 3 286. 0 195. 8 52. 5 8. 2 29. 5 89. 1 75. 8 13. 3 63. 0	1, 347 907. 9 272. 8 183. 7 54. 1 7. 5 27. 5 91. 7 78. 4 13. 3 61. 8	1, 297 883. 7 259. 3 172. 8 52. 8 7. 7 26. 0 81. 2 67. 4 13. 8 61. 3	1, 305 893. 4 256. 4 170. 5 52. 1 7. 8 26. 0 80. 9 66. 4 14. 5 63. 5	1, 269 862. 4 253. 9 169. 0 50. 7 7. 9 26. 3 80. 0 66. 2 13. 8	1, 122 720. 3 253. 3 167. 9 50. 7 7. 9 26. 8 79. 9 66. 7 13. 2 58. 4	1, 100 698. 9 252. 4 166. 5 50. 6 8. 0 27. 3 80. 2 68. 3 11. 9 59. 2	1, 091 689. 0 251. 7 166. 1 50. 2 8. 1 27. 3 81. 2 70. 0 11. 2 60. 1	1, 212 769. 0 255. 6 169. 7 51. 8 7. 9 26. 2 100. 3 88. 2 12. 1 76. 1	1, 263 792. 8 228. 1 151. 7 46. 7 7. 4 22. 4 140. 7 124. 2 16. 4 84. 8
Instruments and related products Ophthalmic goods Photographic apparatus. Watches and clocks Professional and scientific instruments.		280 27. 1 55. 3 33. 4 164. 3	33.9	277 26. 7 55. 1 33. 7 161. 1	54. 5 32. 8	53.9	52. 8 28. 0	51. 0 27. 8	50.1	49. 1 28. 0	48. 5 28. 5	48. 2 28. 9	48. 1 29. 3	238 26. 8 52. 6 31. 4 127. 1	260 28, 2 60, 3 40, 8 130, 5
Miscellaneous manufacturing industries Jewelry, silverware, and plated ware Toys and sporting goods Costume jewelry, buttons, notions Other miscellaneous manufacturing		488 57. 1 73. 1 63. 2		64. 3	84. 5 65. 7	81. 3 63. 7	78. 9 61. 1	71. 5 52. 1	52. 4	70. 3 51. 4	53. 1	67. 2 56. 5	63. 8 59. 4	57.7	466 60. 3 80. 8 62. 3
industries Transportation and public utilities Transportation Interstate railroads Class I railroads Local railways and bus lines Trucking and warehousing Other transportation and services Air transportation (common carrier) Communication Telephone Telegraph Other public utilities Gas and electric utilities Electric light and power utilities Gas utilities* Electric light and gas utilities combined* Local utilities.	4,078 2,864 	1, 426 1, 253 145 619 669 75. 1 668 618. 6 48. 3 545 520. 9 231. 7 116. 6	4, 125 2, 908 1, 460 1, 277 145 622 681 74. 6 670 620. 4 48. 6 547 522. 5 232. 6 117. 4	2, 911 1, 465 1, 292 145 617 684 74. 2 664 614. 8 48. 0 548 523. 5 233. 2 117. 6	2, 912 1, 462 1, 291 145 621 684 74, 4 670 620, 9 47, 9 550 525, 1 234, 0 118, 1	4, 139 2, 913 1, 458 1, 283 146 621 688 74. 7 671 621. 6 48. 0 555 529. 5 236. 6 118. 6	1, 272 146 614 690 74. 5 671 622. 9 47. 2 558 531. 7 238. 6	4,062 2,839 1,414 1,246 148 589 75.7 667 619.5 46.7 556 530.4 238.4 117.6	4,023 2,813 1,407 1,240 147 577 682 74.6 662 614.6 46.7 548 522.3 235.2	3, 885 2, 685 1, 296 1, 135 149 562 678 74. 6 659 610. 7 46. 9 541 515. 8 232. 5 113. 1	3, 928 2, 733 1, 356 1, 188 150 554 673 73, 7 657 609, 2 46, 9 538 512, 5 231, 4 111, 7	3,873 2,682 1,315 1,148 151 550 666 74.2 654 607.0 45.7 537 511.5 232.0 110.5	3, 841 2, 651 1, 290 1, 123 152 545 664 73. 6 654 606. 7 46. 2 536 510. 6 232. 1	3, 979 2, 756 1, 367 1, 191 158 548 684 76. 7 686 632. 2 52. 5 537 512. 0 233. 5	
Trade. Wholesale trade. Retail trade. General merchandise stores. Food and liquor stores. Automotive and accessories dealers. Apparel and accessories stores. Other retail trade.	9, 563 2, 603 6, 960	9, 616 2, 592 7, 024 1, 477 1, 242 742 529	10, 459 2, 619 7, 840 2, 063 1, 262 753 644	9, 896 2, 618 7, 278 1, 654 1, 242 746 565	9, 752 2, 625 7, 127 1, 539 1, 219 741 555	9, 641 2, 605 7, 036 1, 474 1, 210 743 540	9, 474 2, 582 6, 892 1, 387 1, 200 749 491	9, 390 2, 528 6, 862 1, 372 1, 203 746 501	9, 411 2, 502 6, 909 1, 411 1, 205 733 536	9, 326 2, 479 6, 847 1, 412 1, 204 714 533	9, 346 2, 477 6, 869 1, 466 1, 200 706 545	9, 206 2, 484 6, 722 1, 392 1, 192 699 519	9, 152 2, 495 6, 657 1, 360 1, 185 700 496	9, 438 2, 522 6, 916 1, 480 1, 198 676 554	

TABLE A-2: Employees in Nonagricultural Establishments, by Industry Division and Group 1—Con [In thousands]

				1		,									
Industry group and industry	19	51						1950			6				nual
industry group and industry	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	1949	1948
Finance Banks and trust companies. Security dealers and exchanges. Insurance carriers and agents Other finance agencies and real estate.		1, 833 441 62. 2 655 675	439	436	1, 821 433 60. 8 651 676	1, 827 433 60. 9 654 679	1, 837 435 61. 4 658 683	432	1,827 427 60.0 646 694	1, 812 421 59. 2 640 692	420	419	1, 777 416 57. 2 634 670	416	1, 71 403 57. 589 665
Service		4, 666 429 353. 6 145. 3 242	431 353, 1	433 353. 1	441 355. 5	475	512 358. 6	515 363. 4		451 353. 7	441	431	430 345. 0	464	478
Government		6,088 2,027 4,061	2,333	1,980	1,948	1,916	1,841	1,820		5, 900 1, 890 4, 010	1,939	1,802	1,800	1,902	5, 61 1, 827 3, 786

¹ The Bureau of Labor Statistics' series of employment in nonagricultural establishments are based upon reports submitted by cooperating establishments and, therefore, differ from employment information obtained by household interviews, such as the Monthly Report on the Labor Force (table A-1), in several important respects. The Bureau of Labor Statistics' data cover all full- and part-time employees in private nonagricultural establishments who worked during, or received pay for, the pay period ending nearest the 15th of the month; in Federal establishments during the pay period ending just before the first of the month; and in State and local government during the pay period ending on or just before the last of the month, while the Monthly Report on the Labor Force data relate to the calendar week which contains the 8th day of the month. Proprietors, self-employed persons, domestic servants, and personnel of the Armed Forces are excluded from the BLS but not the MRLF series. These employment series have been adjusted to bench-mark levels indicated by social insurance agency data through 1947. Revised data in all except the first four columns will be identified by asterisks the first month they are published.

² Includes: ordnance and accessories; lumber and wood products (except furniture); furniture and fixtures; stone, clay, and glass products; primary metal industries; fabricated metal products (except ordnance, machinery and transportation equipment); machinery (except electrical); electrical machinery; transportation equipment; instruments and related products; and miscellaneous manufacturing industries.

³ Includes: food and kindred products; tobacco manufactures; textile-mill products; apparel and other finished textile products; paper and allied products; printing, publishing, and allied industries; chemicals and allied products; products of petroleum and coal; rubber products; and leather products.

leather products.

4 Data by region, from January 1940, are available upon request to the Bureau of Labor Statistics.

*New series; data are available from January 1950.

All series may be obtained upon request to the Bureau of Labor Statistics. Requests should specify which industry series are desired.

Table A–3: Production Workers in Mining and Manufacturing Industries $^{\rm 1}$

				[I1	n thousa	ands]									
Industry group and industry	19	951						1950						Annaver	
industry group and industry	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	1949	1948
Mining: Metal		92. 4 32. 5 25. 3 18. 4	92. 0 32. 5 25. 2 18. 1	90. 9 32. 6 24. 9 17. 7	89. 7 32. 8 24. 6 17. 4	33. 4 24. 8	90. 8 33. 4 24. 8 17. 5	91. 4 32. 9 24. 9 18. 0	24.7	88. 5 31. 8 24. 8 16. 7	30.3 24.8	30. 5 24. 7	30. 2 24. 7	30. 4 24. 3	94. 7 33. 6 25. 0 19. 2
Anthracite		68. 9	68.8	69.8	69.9	70.5	70.8	69. 2	70.8	71.6	70.7	72.3	71.4	72.8	75.8
Bituminous-coal		376.7	380.7	379.6	381.5	381.8	383.0	357.6	385.0	387.9	393.8	398. 4	60.0	373.4	413, 1
Crude petroleum and natural gas production: Petroleum and natural gas production (except contract services) Nonmetallic mining and quarrying		124. 1 84. 3	124. 8 86. 5	124. 1 89. 4	126. 0 89. 6		130. 3 90. 6	129. 7 88. 8	127. 7 87. 6	124. 2 85. 0		123. 3 78. 3		127. 1 83. 7	127. 1 87. 6
Manufacturing	13, 120	13,017	13,058	13,044	13, 133	13,016	12, 802	12, 151	12,066	11,841	11, 597	11, 549	11, 460	11, 597	12, 717
Durable goods ² Nondurable goods ³	7, 325 5, 795	7, 256 5, 761	7, 256 5, 802	7, 210 5, 834	7, 186 5, 957	7, 013 6, 003	6, 900 5, 902	6, 597 5, 554	6, 596 5, 470	6, 456 5, 385	6, 195 5, 402	6, 070 5, 479	5, 982 5, 478	6, 096 5, 501	6, 909 5, 808
Ordnance and accessories	25, 2	24. 4	23. 7	23, 3	22.3	21.6	20.1	19.0	18.9	18.6	18.3	17.9	17.4	20, 2	23. 9
Food and kindred products Meat products Dairy products Canning and preserving Grain-mill products Bakery products Sugar Confectionery and related products Beverages Miscellaneous food products		1, 117 249. 9 94. 9 131. 4 94. 9 188. 6 26. 0 83. 4 146. 3 101. 1	97. 0 143. 1 92. 8 191. 1 39. 9 88. 9	100. 4 171. 4 93. 2 193. 4 46. 5 93. 5 148. 8	101. 9 226. 3 96. 8 196. 3 45. 8 97. 2 149. 4	107. 4 324. 2 98. 1 194. 3 29. 5 93. 2 159. 4	97. 7 192. 2 28. 8 85. 4 169. 3	1, 231 234. 8 116. 1 222. 8 95. 9 193. 9 26. 0 73. 6 163. 5 104. 1	114. 4 150. 6 94. 6 190. 7 24. 7 73. 8 156. 5	108. 2 126. 8 92. 2 192. 6 24. 4 72. 7 146. 4	102. 8 119. 9 91. 4 191. 0 22. 6 74. 6 140. 9	99. 1 109. 3 92. 1 190. 0 22. 9 78. 4 139. 4	96. 7 109. 8 92. 0 187. 6 22. 7 80. 9 134. 4	107. 9 180. 8 95. 3 191. 2 28. 5 83. 0 150. 6	111. 0 195. 3 93. 6 195. 5 30. 0 85. 9
Tobacco manufactures Cigarettes Cigars Tobacco and snuff. Tobacco stemming and redrying	79	80 23. 2 39. 0 10. 6 7. 4	40. 2 10. 5	41. 2 10. 5	41.0 11.0	39. 5 11. 1	38.6 10.7	75 23. 4 36. 8 10. 4 4. 5	37. 3 10. 5	37.6	37. 2 11. 0	38.7	40. 2 11. 1	42. 4 11. 5	93 24.3 46.2 12.2 10.2
Textile-mill products. Yarn and thread mills. Broad-woven fabric mills Knitting mills. Dyeing and finishing textiles. Carpets, rugs, other floor coverings. Other textile-mill products.	1, 264	1, 257 161. 8 601. 3 232. 0 83. 3 54. 6 123. 9	603. 2 234. 0 83. 3 55. 0	160. 9 606. 3 233. 9 83. 4 55. 0	607. 4 236. 3 83. 7 54. 5	606. 2 233. 3 82. 8 54. 1	594. 6 227. 1 79. 6 53. 3	1, 160 146. 5 570. 8 209. 4 75. 4 51. 0 106. 6	579. 9 211. 7 76. 7 52. 7	572. 8 212. 8 76. 7 52. 4	572. 7 217. 9 78. 8 53. 7	574. 0 221. 4 80. 0 53. 0	570, 5 222, 5 80, 3 52, 8	551. 4 213. 4 76. 9 51. 2	615. 3 231. 4 80. 4 57. 2
Apparel and other finished textile products. Men's and boys' suits and coats.	1, 105	1, 071 137. 5	1, 065 136. 6		1, 100 138. 2	1, 099 137. 4	1, 089 138. 2	981 126, 9	976 134. 6	976 129. 0	1, 003 131. 7	1, 058 135, 5	1, 065 135. 2	1, 022 128. 1	1, 049 140. 1
Men's and boys' furnishing and work clothing Women's outerwear Women's, children's undergarments Millinery. Children's outerwear Fur goods and miscellaneous apparel. Other fabricated textile products.		250. 3 302. 1 93. 6 21. 7 61. 9 77. 1 126. 3	295. 3 96. 7 19. 0 60. 1 80. 0	15. 9 59. 6	297. 0 102. 5 20. 1 63. 1 89. 0	305. 3 100. 4 20. 7 62. 5 87. 5		231. 9 265. 6 85. 8 17. 6 61. 3 75. 9 116. 0	247. 9 88. 6 15. 3 59. 2 77. 2	91. 1 16. 4 57. 0	271. 6 95. 4 18. 0 58. 0 71. 8	97. 0 23. 8 62. 6 72. 6	315. 2 96. 5 23. 4 62. 7 72. 1	294. 3 89. 4 19. 5 58. 0 76. 5	88.7 20.2 54.7
Lumber and wood products (except fur- niture). Logging camps and contractors. Sawmills and planing mills. Millwork, plywood, and prefabricated		732 62. 0 424. 1		773 73. 0 452. 3	785 73.8 461.5	790 73. 6 467. 8	783 74. 4 464. 6	750 71. 4 443. 9	741 69. 4 436. 8				652 45. 0 385. 7	676 57. 6 401. 3	752 69. 5 442. 0
structural wood products Wooden containers Miscellaneous wood products		111. 2 76. 6 57. 8	75.3	76.5	77.1	114. 4 76. 1 57. 6	113. 7 74. 1 55. 8	109. 1 72. 1 53. 1	108. 5 72. 4 53. 5	69.9	69.1	67.9	67.6	67.9	105. 0 76. 0 59. 2
Furniture and fixtures Household furniture Other furniture and fixtures	323	321 234. 5 86. 8													

TABLE A-3: Production Workers in Mining and Manufacturing Industries ¹—Continued [In thousands]

To do the course and in doct	19)51						1950						Anravei	
Industry group and industry	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	1949	1948
Manufacturing—Continued Paper and allied products. Pulp, paper, and paperboard mills. Paperboard containers and boxes. Other paper and allied products.	424	423 208. 9 119. 6 94. 6		122.0		118. 2	113.1	104.6	399 204. 8 105. 7 88. 9	392 201. 7 103. 1 86. 9	391 200. 7 103. 4 86. 6	389 200. 2 102. 6 86. 2	386 199. 5 101. 4 85. 4	382 197. 6 99. 6 85. 2	405 210.3 104.6 89.4
Printing, publishing, and allied industries. Newspapers. Periodicals Books. Commercial printing Lithographing. Other printing and publishing.	511	511 149. 4 34. 6 35. 9 170. 4 31. 6 88. 8	518 152. 7 34. 9 36. 7 170. 8 32. 9 89. 8	35. 0 36. 6 170. 2 33. 3	35. 1 36. 6 170. 2 33. 0	35. 2 37. 2 166. 5 32. 5	36. 4 165. 0 31. 8	34. 1 34. 6 164. 4 31. 2	33. 7 35. 3 165. 7	498 149. 3 34. 5 35. 1 164. 1 31. 1 83. 6	497 147. 7 35. 0 34. 9 164. 9 30. 9 83. 2	35. 2	495 145. 3 35. 1 34. 9 164. 6 30. 8 84. 1	495 141. 2 36. 0 36. 4 164. 4 31. 9 85. 3	501 133. 37. 38. 165. 35. 91.
Chemicals and allied products	532	526 57. 1 162. 9 67. 5 47. 5 30. 8 45. 1 115. 1	67. 5	160. 2 66. 4 48. 2 25. 7 49. 6	159. 1 65. 8 48. 7 26. 6 50. 8	157. 7 64. 9 48. 7 26. 4 43. 5	48. 6 23. 3 38. 2	151. 5 62. 5 47. 7 22. 1	150. 0 61. 8 46. 9 23. 9	485 53. 4 147. 8 61. 0 45. 5 29. 9 39. 6 107. 6	490 52. 8 146. 0 60. 6 45. 1 35. 6 42. 7 106. 9	487 52. 3 144. 9 58. 1 44. 9 34. 9 44. 9 106. 8	485 52. 2 144. 0 58. 7 44. 7 32. 5 45. 8 106. 7	485 52. 3 145. 8 60. 8 43. 3 28. 6 46. 1 108. 4	520 54. 164. 59. 46. 30. 46. 117.
Products of petroleum and coal Petroleum refining. Coke and byproducts Other petroleum and coal products	191	190 147. 3 18. 5 24. 3		191 147. 5 18. 4 24. 6	18.6		18.7	182 138. 5 18. 5 24. 9	181 137. 8 18. 5 24. 5	177 136. 1 18. 1 23. 2	176 135. 6 17. 9 22. 3	182 142. 8 17. 0 21. 8	183 144. 0 16. 8 21. 8	188 148. 8 16. 9 22. 0	192 148. 17. 25.
Rubber products. Tires and inner tubes. Rubber footwear. Other rubber products.	222	223 92. 1 24. 9 106. 1	223 93. 0 23. 9 105. 6	23. 2	219 92. 0 22. 8 104. 1	215 91.7 21.8 101.0	208 89. 6 20. 7 98. 0	19. 2	199 88. 0 19. 3 92. 0	194 85. 9 19. 1 88. 8	191 84. 0 19. 3 87. 2	189 83. 4 19. 4 86. 2	188 83. 1 18. 8 86. 3	186 83. 6 21. 6 80. 9	209 96. 24. 88.
Leather and leather products Leather Footwear (except rubber) Other leather products	371	363 47. 2 233. 7 82. 5	359 47. 3 229. 1 82. 3	225. 8	367 46. 7 230. 3 89. 7	372 47. 2 236. 7 87. 9	370 46. 6 237. 3 85. 8	229.8	343 45. 0 224. 3 73. 7	335 44. 9 217. 5 72. 8	341 45. 0 221. 5 74. 6	357 45. 5 234. 5 77. 3	357 45. 5 234. 5 76. 7	347 45. 1 226. 2 75. 8	368 49. 234. 83.
Stone, clay, and glass products	475	472 127. 7 36. 0 78. 6 54. 7 83. 0 91. 8	473 127. 6 36. 4 79. 0 55. 1 83. 4 91. 6	36. 7 80. 5 55. 1 84. 4	471 127. 0 37. 0 79. 8 52. 2 84. 5 90. 0	36. 5 79. 8 53. 0 84. 1	37. 1 78. 9	35. 6 77. 0 49. 8 81. 5	50.6	432 115. 9 36. 0 72. 8 52. 2 76. 4 78. 3	419 112. 8 35. 4 68. 6 52. 3 73. 5 75. 9	410 108. 9 34. 5 68. 5 52. 7 71. 3 73. 9	408 108. 2 35. 0 68. 3 52. 2 71. 3 73. 2	416 106. 8 36. 0 72. 5 52. 2 72. 4 75. 6	448 119. 35. 76. 55. 76. 84.
Primary metal industries Blast furnaces, steel works, and rolling	1, 149	1, 149	1, 142	1, 126	1, 117	1, 105	1,086	1,054	1,050	1,026	1,007	982	978	940	1, 083
mills		557. 8 241. 0 47. 5	556. 0 238. 3 47. 3	232. 8	552. 6 226. 8 46. 3	221. 9			538. 1 200. 2 46. 0	529. 3 193. 5 45. 5	522. 5 188. 1 45. 2	182. 1	512.3 177.1 45.3	476. 7 188. 9 43. 3	
ferrous metals. Rolling, drawing, and alloying of non- ferrous metals. Nonferrous foundries. Other primary metal industries.		87. 1 94. 3 121. 0	87. 2 93. 9 119. 4	85. 9 91. 3	85. 8 89. 7	85.3 85.7	83. 1 81. 7	79. 5 78. 0	80. 1 77. 4	78. 9 73. 5 105. 1	77. 1 70. 7 103. 3	76. 5 69. 8	75. 0 67. 8 100. 0	70. 6 63. 3 97. 1	86. 73.
Fabricated metal products (except ord- nance, machinery, and transporta- tion equipment). Tin cans and other tinware Cutlery, hand tools, and hardware Heating apparatus (except electric) and plumbers' supplies. Fabricated structural metal products Metal stamping, coating, and engraving Other fabricated metal products	852	845 44. 0 143. 5 129. 9 173. 0 161. 5 193. 4	143. 6 132. 8 173. 0 161. 6	142. 9 135. 3 171. 7 160. 9	141. 4 137. 1 170. 9 160. 7	138. 3 137. 1 165. 6 159. 1	132. 4 131. 9 165. 1 155. 8	129. 1 120. 4 158. 0 149. 9	132. 6 121. 9 154. 3 148. 1	148. 5 140. 5	145.8	127. 6 114. 0 142. 7 131. 2	698 36. 3 123. 7 112. 3 140. 6 130. 4 155. 1	701 39, 9 118, 4 106, 0 152, 3 125, 8 159, 0	131. 0 137. 1 168. 1 148. 0
Machinery (except electrical) Engines and turbines Agricultural machinery and tractors Construction and mining machinery Metalworking machinery Special-industry machinery (except metalworking machinery) General industrial machinery	1, 217		1, 163 62. 2 135. 5 83. 8 204. 7 140. 4 154. 5	1, 133 60. 3 124. 8 82. 3 197. 2 137. 6 150. 1	1, 104 55. 0 124. 3 80. 6 189. 7 135. 8 146. 7	1,050 52.1 102.3 77.8 180.9 132.2 141.9	1,060 56.6 140.0 73.7 170.6 127.4 136.9	1, 032 54. 7 140. 5 71. 6 161. 5 124. 3 131. 3	1, 033 55. 5 141. 2 70. 4 162. 6 124. 6 130. 1	1, 022 56. 0 141. 5 68. 4 158. 3 122. 7 128. 8	1, 003 53. 4 142. 4 68. 3 155. 4 120. 9 125. 9	981 51. 1 139. 5 68. 1 152. 0 119. 0 123. 3	960 48. 9 137. 4 66. 5 149. 2 117. 7 121. 6	1, 001 53. 9 142. 4 72. 4 157. 9 131. 1 132. 3	1, 203 63. 151. 91. 186. 158. 154.
Office and store machines and devices. Service-industry and household ma- chines. Miscellaneous machinery parts.		84. 4 146. 5	83. 2	81. 9 151. 2	80. 3 147. 6	79. 0 146. 1	75. 6 145. 3	74. 3 145. 5	74. 2 147. 9	73. 5 148. 7	73. 2 143. 3	72. 0 137. 8	70. 5 132. 6 115. 7	75. 4 115. 4	93.

TABLE A-3: Production Workers in Mining and Manufacturing Industries ¹—Continued [In thousands]

Industry group and industry	19	051						1950						Annaver	
	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	1949	1948
Manufacturing—Continued Electrical machinery Electrical generating, transmission, dis-	708	710	724	721	710	673	655	620	615	606	595	580	573	552	656
tribution, and industrial apparatus Electrical equipment for vehicles Communication equipment Electrical appliances, lamps, and mis-		62. 9 266. 4	277. 9		251. 7 60. 9 272. 2	59. 5 254. 6	247. 8	56. 0 227. 5	55.1	221. 5 58. 7 219. 9	52. 5	213. 0 50. 9 211. 6	50.7	210. 7 49. 0 191. 8	54. 6
cellaneous products		123. 9	125. 3	126. 2	125. 0	121.6	113. 1	109.8	110.7	110.6	108.1	104.8	103.3	100.8	125. 5
Transportation equipment Automobiles Aircraft and parts Aircraft. Aircraft engines and parts Aircraft propellers and parts Other aircraft parts and equipment. Ship and boat building and repairing Shipbuilding and repairing Boat building and repairing Railroad equipment. Other transportation equipment		6.2	254. 9 172. 6 49. 2 6. 1 27. 0 78. 7 66. 2 12. 5 51. 9	239. 3 161. 4 46. 3 5. 9 25. 7 76. 1 64. 4 11. 7 51. 7	794. 8 224. 5 151. 5 43. 6 5. 7	787. 8 209. 4 144. 5 37. 3 5. 5 22. 1 76. 3 64. 8 11. 5 49. 3	780. 9 199. 0 134. 8 38. 9 4. 9 20. 4 79. 0 67. 5 11. 5 48. 2	756. 7 188. 1 126. 3 37. 4 5. 1 19. 3 67. 9 56. 1 11. 8 47. 7	764. 7 186. 6 125. 1 37. 0 5. 2 19. 3 68. 3 55. 6 12. 7 48. 8	185. 2 124. 4 36. 0 5. 3 19. 5 67. 2 55. 2 12. 0 47. 5	899 595. 3 184. 9 123. 4 36. 1 5. 3 20. 1 66. 6 55. 4 11. 2 43. 5 8. 6	56. 9 10. 0	67. 6 58. 5 9. 1 45. 4	19. 2 85. 0 75. 0 10. 0 61. 0	166. 6 111. 5 33. 6 4. 9 16. 6 123. 2 109. 3 13. 9 69. 6
Instruments and related productsOphthalmic goods Photographic apparatus		211 22. 2 40. 9 28. 2 119. 9	40. 9 28. 8		205 21. 3 40. 2 28. 0 115. 3	39. 5 27. 0	38. 5 23. 4	37. 0 23. 4		35. 4 23. 6	174 20. 2 34. 8 24. 1 94. 8	172 20. 2 34. 6 24. 4 93. 2	171 20. 3 34. 5 24. 7 91. 8	26.6	45. 4 35. 0
Miscellaneous manufacturing industries Jewelry, silverware, and plated ware Toys and sporting goods Costume jewelry, buttons, notions Other miscellaneous manufacturing industries		63.7	68. 6 53. 1	54. 9		72. 2 54. 4		62. 5	63.6		363 42. 0 60. 6 44. 7		356 43. 7 54. 5 50. 0		71.5

¹ See footnote 1, table A-2. Production workers refer to all full-and parttime employees engaged in production and related processes, such as fabricating, processing, assembling, inspecting, storing, packing, shipping, maintenance and repair, and other activities closely associated with production operations.

Table A-4: Indexes of Production-Worker Employment and Weekly Payrolls in Manufacturing Industries¹

[1939 average=100]

Period	Employ- ment	Weekly payroll	Period	Employ- ment	Weekly payroll	Period	Employ- ment	Weekly payroll
1939: Average 1940: Average 1941: Average 1942: Average 1943: Average 1944: Average 1944: Average 1945: Average 1946: Average	100. 0 107. 5 132. 8 156. 9 183. 3 178. 3 157. 0 147. 8	100. 0 113. 6 164. 9 241. 5 331. 1 343. 7 293. 5 271. 7	1947: Average 1948: Average 1949: Average 1950: February March April May June	156. 2 155. 2 141. 6 139. 9 141. 0 141. 6 144. 5 147. 3	326. 9 351. 4 325. 3 330. 0 333. 5 337. 2 348. 0 362. 7		148. 3 156. 3 158. 9 160. 3 159. 2 156. 4 158. 9 160. 2	367, 5 394, 4 403, 2 415, 8 414, 6 425, 8 423, 3

¹ See footnote 1, tables A-2 and A-3.

² See footnote 2, table A-2. ³ See footnote 3, table A-2.

TABLE A-5: Federal Civilian Employment and Payrolls, by Branch and Agency Group [In thousands]

			Execu	tive 1			
Year and month	All branches	Total	Defense agencies ²	Post Office Department	All other agencies	Legislative	Judicial
		Employmen	nt—Total (include	ling areas outside	continental Uni	ited States)	
1949: Average		2, 089. 2 2, 068. 6	899. 2 837. 5	511.1 521.4	678. 9 709. 7	7. 7 8. 1	3. 6 3. 8
1950: February	1, 970. 6 2, 110. 9 2, 061. 9 2, 022. 2 1, 986. 7 2, 005. 4 2, 083. 2 2, 117. 4 2, 152. 0	1, 959. 1 1, 958. 8 2, 099. 0 2, 050. 1 2, 010. 3 1, 974. 9 1, 993. 4 2, 071. 4 2, 105. 3 2, 139. 9 2, 496. 9	782. 8 776. 3 773. 7 775. 8 780. 6 778. 8 806. 0 887. 3 932. 3 970. 0 995. 9	503. 8 504. 4 503. 9 501. 9 497. 4 491. 8 485. 0 483. 8 482. 2 811. 8	672. 5 678. 1 821. 4 772. 4 732. 3 704. 3 700. 3 699. 1 689. 2 687. 7 689. 2	8. 0 8. 0 8. 1 8. 0 8. 1 8. 0 8. 2 8. 2 8. 2 8. 2 8. 2	3. 8 3. 8 3. 8 3. 8 3. 8 3. 8 3. 9 3. 9 3. 9
1951: January February		2, 192. 3 2, 253. 5	1,017.3 1,076.8	486. 5 487. 1	688. 5 689. 6	8.1 8.1	3. 9 3. 9
		Payrolls-	-Total (including	g areas outside co	ntinental United	l States)	
1949: Average		\$553, 973 580, 792	\$231,856 235,157	\$129, 895 135, 300	\$192, 222 210, 335	\$2,870 3,215	\$1,430 1,569
1950: February	583, 186 539, 430 577, 915 573, 659 551, 510 618, 049 601, 454 613, 359 621, 491	516, 525 578, 339 534, 757 573, 026 568, 889 546, 806 613, 138 596, 537 608, 511 616, 609 667, 988	198, 064 225, 091 162, 199 220, 044 221, 123 212, 778 259, 451 261, 527 267, 622 273, 633 275, 681	131, 085 133, 461 131, 117 130, 361 131, 202 129, 803 130, 361 128, 764 129, 665 129, 869 185, 732	187, 376 219, 787 211, 441 222, 621 216, 564 204, 225 223, 326 206, 246 211, 224 213, 107 206, 575	3, 083 3, 222 3, 232 3, 246 3, 214 3, 206 3, 277 3, 200 3, 250 3, 292 3, 292	1, 433 1, 625 1, 441 1, 643 1, 556 1, 498 1, 634 1, 717 1, 598 1, 500 1, 529
1951: JanuaryFebruary		676, 007 622, 595	319,738 292,114	132, 037 132, 454	224, 232 198, 027	3, 306 3, 188	1,670 1,497
			Employment	t—Continental U	nited States		
1949: Average	1, 921. 9 1, 930. 5	1, 910. 7 1, 918. 7	761. 4 732. 3	509. 1 519. 4	640. 2 667. 0	7. 7 8. 1	3. 8 3. 7
1950: February March April May June July August September October November December	1, 821. 5 1, 959. 8 1, 910. 2 1, 871. 2 1, 839. 4 1, 861. 0 1, 935. 9 1, 968. 3 2, 000. 3	1, 809. 0 1, 809. 8 1, 948. 0 1, 898. 5 1, 859. 4 1, 827. 7 1, 849. 1 1, 924. 1 1, 956. 3 1, 988. 3 2, 340. 9	675. 3 670. 6 668. 2 670. 1 674. 6 677. 2 707. 1 785. 3 828. 3 862. 9 885. 6	502. 0 502. 6 502. 0 500. 0 495. 5 489. 9 485. 2 483. 1 482. 0 480. 4 808. 9	631. 7 636. 6 777. 8 728. 4 689. 3 660. 6 656. 8 655. 7 646. 0 645. 0	8.0 8.0 8.1 8.0 8.1 8.2 8.2 8.2 8.2	3.7 3.7 3.7 3.7 3.7 3.8 3.8 3.8
1951: January		2, 035. 5 2, 093. 1	905. 1 961. 0	484. 7 485. 3	645. 7 646. 8	8.1 8.1	3. 8 3. 8
			Payrolls—	Continental Unit	ed States		
1949: Average		\$515, 269 544, 587	\$203, 548 211, 508	\$129, 416 134, 792	\$182, 305 198, 287	\$2,870 3,215	\$1,390 1,526
1950: February	546, 866 506, 707 541, 195 536, 052 516, 924 580, 732 563, 900 576, 155 583, 978	483, 662 542, 961 502, 074 536, 351 531, 325 512, 261 575, 867 559, 029 571, 357 579, 140 629, 886	176, 371 201, 071 171, 555 196, 249 196, 921 191, 109 235, 435 237, 332 243, 233 248, 667 250, 324	130, 599 132, 969 130, 629 129, 841 130, 704 129, 316 129, 870 128, 278 129, 178 129, 413 185, 044	176, 692 208, 021 199, 890 210, 261 203, 700 191, 836 210, 562 193, 419 198, 946 201, 060 194, 518	3, 083 3, 222 3, 232 3, 246 3, 214 3, 206 3, 277 3, 200 3, 250 3, 292 3, 207	1, 393 1, 588 1, 401 1, 508 1, 518 1, 457 1, 588 1, 677 1, 548 1, 485
1951: January February		636, 455 587, 573	292, 875 268, 279	131, 549 131, 963	212,031 187,331	3,306 3,188	1,626 1,456

¹ See footnote 2, table A-7.

² See footnote 3, table A-7.

TABLE A-7: Civilian Government Employment and Payrolls in Washington, D. C., by Branch and Agency Group

[In thousands]

						Federal			
Year and month	Total government	District of Columbia			Exec	utive 2			
		government	Total	All agencies	Defense agencies ³	Post Office Department	All other agencies	Legislative	Judicial
					Employment				
1949: Average 1950: Average	241. 8 242. 3	19. 5 20. 1	222. 3 222. 2	214. 0 213. 4	70. 4 67. 5	8. 2 8. 1	135. 4 137. 8	7. 7 8. 1	0.
1950: February March April May June July August September October November December	238. 7 238. 9 239. 8 240. 0 238. 7 239. 1 240. 7 243. 7 244. 8 247. 9 256. 2	20. 2 20. 1 20. 0 20. 2 20. 0 19. 8 19. 8 20. 0 20. 1 20. 4 20. 3	218. 5 218. 8 219. 8 219. 8 218. 7 219. 3 220. 9 223. 7 224. 7 227. 5 235. 9	209, 8 210, 1 211, 0 211, 1 209, 9 210, 6 212, 0 215, 0 215, 8 218, 7 227, 1	65. 5 65. 4 65. 4 65. 6 64. 8 65. 2 66. 1 69. 3 70. 8 72. 4	7. 6 7. 8 7. 9 7. 8 7. 7 7. 7 7. 7 7. 6 7. 5 7. 6 12. 7	136. 7 136. 8 137. 7 137. 7 137. 4 137. 7 138. 2 138. 1 137. 5 138. 7	8. 0 8. 1 8. 0 8. 1 8. 0 8. 2 8. 2 8. 2 8. 1 8. 1	
1951: January February	259. 0	20. 5	238. 4	229. 6	74. 8 77. 4	7.8	141. 8 144. 5	8.1 8.1	:
					Payrolls				
1949: Average	\$75, 570 81, 602	\$5, 050 5, 321	\$70, 520 76, 281	\$67, 410 72, 780	\$21, 119 22, 888	\$2, 791 2, 937	\$43, 500 46, 955	\$2, 870 3, 215	\$240 280
1950: February March April May June July August September October November December	73, 142 83, 331 74, 469 84, 018 82, 733 77, 713 85, 472 82, 280 84, 657 85, 380 85, 285	5, 218 5, 699 5, 029 5, 705 5, 590 4, 192 4, 514 5, 347 5, 680 5, 796 5, 558	67, 924 77, 632 69, 440 78, 313 77, 143 73, 521 80, 958 76, 933 78, 977 79, 584 79, 727	64, 586 74, 132 65, 944 74, 785 73, 656 70, 043 77, 372 73, 415 75, 424 75, 991 76, 228	19, 387 22, 744 20, 416 22, 607 22, 186 21, 399 24, 459 24, 951 24, 495 24, 545 24, 786	2, 787 2, 926 2, 786 2, 872 2, 867 2, 755 2, 918 2, 856 2, 892 2, 888 3, 835	42, 412 48, 462 42, 742 49, 306 48, 603 45, 889 49, 995 45, 608 48, 037 48, 558 47, 607	3, 083 3, 222 3, 232 3, 246 3, 214 3, 206 3, 277 3, 200 3, 250 3, 250 3, 292 3, 207	25. 27. 26. 28. 27. 27. 30. 31. 30. 30. 29.
1951: January February	88, 105 79, 038	5, 919 5, 177	82, 186 73, 861	78, 564 70, 388	26, 543 23,884	2, 944 2, 839	49, 077 43, 665	3, 306 3, 188	316 288

¹ Data for the executive branch of the Federal Government also include areas in Maryland and Virginia which are within the metropolitan area, as defined by the Bureau of the Census.
² Includes Government corporations (including Federal Reserve Banks and mixed-ownership banks of the Farm Credit Administration) and other activities performed by Governmental personnel in establishments such as navy yards, arsenals, hospitals, and force-account construction. Data which are based mainly on reports to the Civil Service Commission are adjusted to maintain continuity of coverage and definition.

³ Covers civilian employees of the Department of Defense (Secretary of Defense, Army, Air Force, and Navy). National Advisory Committee for Aeronautics, the Panama Canal, Philippine Alien Property Administration, Philippine War Damage Commission, Selective Service System, National Security Resources Board, National Security Council, War Claims Commission.

Table A-11: Insured Unemployment Under State Unemployment Insurance Programs, by Geographic Division and State

[In thousands]

Geographic division and	1951						19	950						1949
State	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	April	Mar.	Feb.	Jan.	Jan.
Continental United States	1, 144. 6	1, 045. 0	895.3	782.8	845. 7	1, 063. 2	1, 388. 4	1, 521. 1	1, 700. 3	1, 908.8	2, 112. 1	2, 325. 9	2, 380. 9	1, 586. 2
New England. Maine. New Hampshire. Vermont. Massachusetts. Rhode Island Connecticut.	91. 6	89. 0	77. 4	65. 9	74. 5	105. 0	155. 3	186. 5	224. 6	225. 1	162. 5	181. 5	202.8	163. 8
	10. 2	11. 4	10. 3	6. 8	5. 2	7. 4	10. 1	13. 0	19. 6	22. 7	17. 5	19. 5	21.8	13. 1
	5. 8	6. 3	6. 8	5. 8	6. 5	8. 8	10. 8	12. 9	15. 6	16. 3	13. 1	12. 3	13.1	9. 6
	1. 7	1. 7	1. 3	1. 1	1. 4	2. 1	3. 1	3. 4	4. 0	4. 6	4. 5	5. 5	6.1	3. 1
	49. 8	49. 0	41. 9	35. 6	42. 1	55. 8	85. 3	107. 1	124. 8	123. 6	78. 0	89. 6	101.4	87. 2
	10. 5	9. 3	6. 9	6. 3	8. 4	13. 7	20. 1	26. 6	33. 6	25. 9	15. 4	16. 3	19.2	21. 5
	13. 6	11. 3	10. 2	10. 3	10. 9	17. 2	25. 9	23. 5	27. 0	32. 0	34. 0	38. 3	41.2	29. 3
Middle Atlantic	351. 4	355. 1	354. 1	319. 0	318. 4	369. 1	478. 4	495. 4	481. 5	526. 0	594. 2	622. 2	685. 5	472. 3
New York	217. 5	238. 4	257. 8	226. 2	221. 6	242. 2	311. 0	307. 4	269. 2	292. 2	319. 3	343. 1	379. 1	300. 3
New Jersey	51. 3	41. 1	38. 7	35. 4	34. 3	44. 6	60. 7	68. 1	79. 6	84. 9	88. 3	92. 1	101. 5	67. 4
Pennsylvania	82. 6	75. 6	57. 6	57. 4	62. 5	82. 3	106. 7	119. 9	132. 7	148. 9	186. 6	187. 0	204. 9	104. 6
Rast North Central Ohio Indiana. Illinois Michigan Wisconsin	200. 7	178. 0	129. 0	113. 1	133. 6	178. 4	218. 4	242. 4	304. 0	373. 4	417. 6	462. 3	477. 9	253. 8
	40. 9	36. 4	30. 2	28. 5	32. 3	41. 0	57. 5	65. 0	81. 6	103. 5	130. 9	146. 9	157. 4	58. 7
	14. 7	13. 3	8. 6	9. 4	7. 9	8. 9	13. 1	14. 5	19. 2	26. 7	34. 6	38. 6	38. 8	29. 6
	76. 5	68. 2	58. 6	57. 5	71. 3	103. 6	117. 5	128. 6	147. 6	148. 1	133. 2	148. 4	158. 4	82. 6
	54. 8	49. 8	23. 3	12. 8	16. 1	18. 2	22. 0	24. 6	42. 7	75. 9	94. 6	98. 6	89. 3	62. 5
	13. 8	10. 3	8. 3	4. 9	6. 0	6. 7	8. 3	9. 7	12. 9	19. 2	24. 3	29. 8	34. 0	20. 4
West North Central. Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	65. 6 19. 3 7. 0 24. 3 2. 4 2. 1 4. 1 6. 4	48. 5 12. 0 4. 3 22. 9 1. 3 1. 1 2. 1 4. 8	34.7 6.8 2.9 20.0 .3 .5 1.0 3.2	28. 4 5. 5 2. 6 16. 2 . 2 . 3 . 8 2. 8	29. 2 6. 3 3. 5 15. 2 2 . 3 . 9 2. 8	38.8 8.3 4.5 20.0 .3 .4 1.3 4.0	49. 0 10. 8 4. 8 25. 5 4 1. 9 5. 2	57. 4 13. 1 5. 1 29. 7 . 7 . 5 2. 3 6. 0	77. 7 23. 2 6. 2 34. 6 2. 2 1. 0 3. 3 7. 2	101. 7 32. 8 8. 9 39. 3 3. 7 1. 9 5. 4 9. 7	124. 9 37. 8 13. 5 44. 5 4. 6 2. 9 8. 4 13. 2	140. 6 40. 1 15. 8 50. 2 4. 8 3. 5 9. 5 16. 7	130.8 34.7 15.2 50.2 3.8 3.0 7.9 16.0	73. 3 20. 9 8. 4 30. 1 1. 4 1. 4 3. 7 7. 4
South Atlantic. Delaware. Maryland. District of Columbia. Virginia. West Virginia. North Carolina. South Carolina. Georgia. Florida.	94.3 1.9 13.2 3.3 8.7 14.2 18.0 9.4 14.1 11.5	85. 5 1. 4 11. 2 2. 8 7. 7 13. 0 16. 8 8. 7 12. 9 11. 0	70. 4 .8 8. 5 2. 7 5. 6 9. 4 14. 5 8. 3 9. 7 10. 9	69.8 1.0 7.7 2.6 5.3 10.4 12.6 8.8 7.6	85. 3 .9 10. 3 3. 0 7. 2 13. 4 15. 1 9. 6 8. 9 16. 9	113. 0 1. 2 16. 1 3. 4 13. 7 16. 7 19. 0 11. 4 12. 4 19. 1	157. 8 1. 8 22. 1 4. 0 22. 1 21. 8 30. 8 15. 8 18. 9 20. 5	165. 5 1. 9 25. 3 4. 1 24. 1 24. 1 33. 7 15. 4 21. 1 15. 8	167. 7 2. 3 29. 1 4. 6 18. 9 23. 4 36. 7 14. 8 23. 2 14. 7	164. 0 2. 7 29. 3 5. 9 15. 7 21. 8 37. 3 14. 4 22. 8 14. 1	172. 2 3. 5 25. 1 6. 5 20. 9 26. 2 34. 1 15. 5 25. 0 15. 4	181. 1 3. 8 29. 6 6. 6 21. 6 27. 6 32. 5 15. 9 26. 5 17. 0	180. 3 3. 8 31. 8 5. 0 20. 6 28. 7 30. 3 15. 8 24. 7 19. 6	128.8 2.0 23.0 4.1 13.8 13.6 26.9 10.8 17.9 16.7
East South Central Kentucky Tennessee Alabama Mississippi	65. 0	57. 5	46. 6	42. 9	48. 9	62. 1	78. 8	87. 4	99. 5	105. 4	116. 8	122, 9	113. 2	82. 5
	14. 3	13. 6	12. 0	11. 5	12. 4	15. 3	19. 4	22. 3	24. 8	25. 2	29. 7	30, 7	26. 7	16. 9
	25. 8	22. 2	16. 9	14. 5	16. 5	22. 2	27. 3	32. 6	36. 8	40. 1	41. 9	45, 0	42. 5	40. 0
	15. 1	13. 8	12. 3	12. 1	14. 2	16. 9	22. 1	21. 9	25. 4	25. 9	28. 3	28, 6	27. 1	16. 0
	9. 8	7. 9	5. 4	4. 8	5. 8	7. 7	10. 0	10. 6	12. 5	14. 2	16. 9	18, 6	16. 9	9. 6
West South Central Arkansas Louisiana Oklahoma Texas	54. 0	43. 8	36. 0	34.8	41. 5	52. 1	62. 8	69. 9	83. 4	95. 0	107. 6	116. 4	100. 4	55. 2
	11. 1	8. 4	6. 2	5.2	6. 9	7. 7	9. 4	10. 4	14. 0	17. 6	19. 9	23. 2	20. 4	13. 5
	18. 1	13. 9	11. 7	12.4	14. 3	18. 1	21. 3	22. 5	25. 8	29. 9	33. 4	36. 4	30. 0	15. 2
	11. 1	9. 2	7. 6	7.0	8. 0	9. 8	11. 4	12. 6	14. 8	16. 9	19. 2	21. 7	20. 1	11. 4
	13. 7	12. 3	10. 5	10.2	12. 3	16. 5	20. 7	24. 4	28. 8	30. 6	35. 1	35. 1	29. 9	15. 1
Mountain Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada	28. 6 6. 2 6. 2 1. 6 3. 1 2. 0 3. 2 4. 4 1. 9	19.8 3.7 4.3 .9 2.5 1.7 2.8 2.4 1.5	13. 4 1. 9 2. 0 . 4 2. 1 1. 2 2. 6 1. 9 1. 3	10. 2 1. 2 . 9 . 3 1. 7 1. 0 2. 6 1. 5 1. 0	11. 2 1. 0 1. 0 .3 2. 1 1. 2 2. 9 1. 7 1. 0	14. 6 1. 4 1. 4 3. 2 1. 6 3. 4 2. 1 1. 1	18.6 1.9 1.7 .7 4.2 2.0 3.6 3.1 1.4	20. 5 2. 5 1. 5 . 9 4. 7 2. 2 3. 6 3. 5 1. 6	27. 8 4. 6 3. 0 1. 4 5. 6 2. 7 4. 2 4. 3 2. 0	37. 9 8. 2 5. 6 2. 0 5. 6 3. 4 4. 7 5. 9 2. 5	53. 9 11. 8 9. 8 3. 2 7. 0 4. 4 5. 8 8. 6 3. 3	65. 7 13. 3 12. 8 3. 9 8. 6 5. 0 7. 1 11. 1 3. 9	60. 1 11. 3 11. 7 3. 1 8. 5 4. 3 7. 0 10. 3 3. 9	34. 1 4. 6 6. 2 1. 1 4. 3 2. 0 5. 1 8. 4 2. 4
Pacific	193. 2	167. 9	133.8	98. 8	103. 2	129. 9	169. 4	196. 1	234. 2	280. 4	362. 7	432. 9	430. 1	322. 4
	31. 2	26. 2	19.0	11. 7	11. 1	13. 2	15. 6	16. 5	23. 9	36. 0	54. 3	82. 6	87. 4	53. 7
	22. 4	17. 9	13.7	7. 6	6. 4	7. 5	9. 6	8. 3	12. 3	20. 6	35. 0	57. 1	56. 8	31. 9
	139. 6	123. 8	101.1	79. 5	85. 7	109. 2	144. 2	171. 3	198. 0	223. 8	273. 4	293. 2	285. 9	236. 8

¹ Prior to August 1950, monthly data represent averages of weeks ended in specified months; for subsequent months, the averages are based on weekly data adjusted for split weeks in the month and are not strictly comparable with earlier data. For a technical description of this series, see the April 1950 Monthly Labor Review (p. 382).

Figures may not add to exact column totals because of rounding. Source: U. S. Department of Labor, Bureau of Employment Security.

B: Labor Turn-Over

TABLE B-1: Monthly Labor Turn-Over Rates (Per 100 Employees) in Manufacturing Industries, by Class of Turn-Over 1

Class of turn-over and year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total separation:												
1951	2 4. 2											
1950	3.1	3.0	2.9	2.8	3.1	3.0	2.9	4.2	4.9	4.3	3.8	3.6
1949	4.6	4.1	4.8	4.8	5. 2	4.3	3.8	4.0	4.2	4.1	4.0	3. 2
1948	4.3	4.2	4.5	4.7	4.3	4.5	4.4	5.1	5.4	4.5	4.1	4.3
1947	4.9	4.5	4.9	5. 2	5. 4	4.7	4.6	5.3	5.9	5.0	4.0	3.7
1946	6.8	6.3	6, 6	6.3	6.3	5.7	5.8	6.6	6.9	6.3	4.9	4. 8
1939	3. 2	2.6	3.1	3.5	3.5	3.3	3.3	3.0	2.8	2.9	3.0	3. 8
1000	0						27.0				2000	
Quit:	22.5											
1951	2 2. 2											
1950	1.1	1.0	1.2	1.3	1.6	1.7	1.8	2.9	3.4	2.7	2.1	1.
1949	1.7	1.4	1.6	1.7	1.6	1.5	1.4	1.8	2.1	1.5	1.2	9.
1948	2.6	2.5	2.8	3.0	2.8	2.9	2.9	3.4	3.9	2.8	2.2	1.7
1947	3.5	3.2	3.5	3.7	3.5	3.1	3.1	4.0	4.5	3.6	2.7	2.3
1946	4.3	3.9	4.2	4.3	4.2	4.0	4.6	5.3	5.3	4.7	3.7	3, (
1939 3	.9	.6	.8	.8	.7	.7	.7	.8	1.1	. 9	.8	
1000												
Discharge:	2.4											
1951	2.3											
1950	.2	.2	.2	.2	.3	.3	.3	.4	.4	. 4	.3	
1949	. 3	.3	.3	.2	.2	.2	.2	.3	. 2	.2	.2	.2
1948	.4	.4	.4	.4	.3	.4	.4	.4	.4	.4	. 4	.3
1947	.4	.4	.4	.4	.4	.4	.4	.4	.4	. 4	.4	.4
1946	.5	.5	.4	.4	.4	.3	.4	.4	.4	. 4	.4	. 4
1939	.1	.1	.1	.1	.1	.1	.1	.1	.1	. 2	. 2	.1
Lay-off:												
1951	21.0									Market St.	dance or a	
	1.7	1.7	1.4	1, 2	1.1	.9	. 6	.6	.7	.8	1.1	1.3
1950				2.8	3.3	2,5	2.1	1.8	1.8	2.3	2. 5	2.0
1949	2.5	2.3	2.8					1.2	1.0	1. 2	1.4	2. 2
1948	1.2	1.2	1.2	1.2	1.1	1.1	1.0					2.4
1947	.9	.8	. 9	1.0	1.4	1.1	1.0	.8	.9	.9	.8	1.8
1946	1.8	1.7	1.8	1.4	1.5	1.2	.6	.7	1.0	1.0	.7	1.0
1939	2, 2	1.9	2. 2	2.6	2.7	2.5	2.5	2.1	1.6	1.8	2.0	2.7
Miscellaneous, including military:												
1951	2.7											
1950	.1	.1	.1	.1	.1	.1	.2	.3	.4	. 4	. 3	.3
1949	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
1948	.1	.1	.1	.1	.1	.1	.1	.1	,1	.1	.1	.1
	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	,1	.1
1947	.1	.1	.2	.2	.1	.2	.2	.2	.2	. 2	.1	l j
1946	. 2	. 4	. 4	. 4	. 4	. 4	. 2		. 2	. 2	.1	
Total accession:												
1951	2 5. 1											
1950	3.6	3.2	3, 6	3.5	4.4	4.8	4.7	6.6	5.7	5. 2	4.0	3.0
1949	3. 2	2.9	3.0	2.9	3.5	4.4	3.5	4.4	4.1	3.7	3.3	3, 2
1948	4.6	3.9	4.0	4.0	4.1	5.7	4.7	5.0	5.1	4.5	3.9	2.7
	6.0	5. 0	5.1	5.1	4.8	5. 5	4.9	5.3	5.9	5. 5	4.8	3. 6
1947							7.4	7.0	7.1	6.8	5. 7	4. 3
1946	8.5	6.8	7.1	6.7	6.1	6.7					4.1	2.8
1939	4.1	3.1	3.3	2.9	3.3	3.9	4.2	5.1	6.2	5.9	4. 1	2.0

¹ Month-to-month changes in total employment in manufacturing industries as indicated by labor turn-over rates are not comparable with the changes shown by the Bureau's employment and payroll reports, for the

changes shown by the Bureau's employment and payron reports, for the following reasons:

(1) Accessions and separations are computed for the entire calendar month; the employment and payroll reports, for the most part, refer to a 1-week pay period ending nearest the 15th of the month.

(2) The turn-over sample is not so large as that of the employment and payroll sample and includes proportionately fewer small plants; certain industries are not covered. The major industries excluded are: printing, publishing, and allied industries; canning and preserving fruits, vegetables, and sea foods; women's, misses' and children's outerwear; and fertilizers.

⁽³⁾ Plants are not included in the turn-over computations in months when work stoppages are in progress; the influence of such stoppage is reflected, however, in the employment and payroll figures. Prior to 1943, rates relate to production workers only.

² Preliminary figures.

³ Prior to 1940, miscellaneous separations were included with quits.

Note: Information on concepts, methodology, and special studies, etc., is given in a "Technical Note on Labor Turn-Over," October 1949, which is available upon request to the Bureau of Labor Statistics.

TABLE B-2: Monthly Labor Turn-Over Rates (Per 100 Employees) in Selected Groups and Industries 1

					Sepa	ration						
Industry group and industry	То	tal	Qu	iit	Disch	narge	Lay	-off	Misc., milit	incl.	Total ac	ecession
	Jan. 1951	Dec. 1950	Jan. 1951	Dec. 1950	Jan. 1951	Dec. 1950	Jan. 1951	Dec. 1950	Jan. 1951	Dec. 1950	Jan. 1951	Dec. 1950
Manufacturing												
Durable goods ² Nondurable goods ³	4. 8 3. 5	3.9 2.9	2. 4 1. 9	1.8 1.5	0.4	0.3	1.2	1.4 1.0	0.8	0.4	5. 8 4. 0	3. 4
Ordnance and accessories	(4)	2. 2	(4)	.7	(4)	.2	(4)	1.0	(4)	.3	(4)	1.
Food and kindred products	4. 6 5. 8 3. 7 3. 7	4. 9 5. 8 2. 9 4. 6	2. 1 2. 3 2. 3 2. 4	1. 7 2. 2 1. 6 1. 7	.4 .6 .6 .3	.4 .7 .3 .3	1. 5 2. 0 . 1 . 6	2. 5 2. 4 . 5 2. 4 2. 4	.6 .9 .7 .4	.3 .5 .5 .2	4. 6 6. 3 4. 7 3. 5	3. 6. 3. 2. 2. 2.
Tobacco manufactures Cigarettes Cigars Tobacco and snuff	4.3 3.0 5.7 1.9	2. 1 1. 5 2. 4 2. 7	2. 3 1. 2 3. 2 1. 2	1.3 .6 1.7 1.5	.1 .1 .1	.1 .1 .1 .3	1. 1 . 8 1. 7 (5)	.6 .5 .6	.8 .9 .7 .5	(5) .3	3.7 2.0 4.7 3.8	1. 1. 4.
Textile-mill products. Yarn and thread mills Broad-woven fabric mills. Cotton, silk, synthetic fiber. Woolen and worsted Knitting mills Full-fashioned hosiery Seamless hosiery. Knit underwear. Dyeing and finishing textiles. Carpets, rugs, other floor coverings. Apparel and other finished textile prod-	3. 6 3. 8 4. 0 3. 7 5. 7 3. 1 2. 5 3. 7 3. 3 2. 6 2. 4	2.6 2.7 2.7 2.4 3.1 2.7 1.7 2.3 3.8 1.8	1.8 1.9 2.0 1.0 2.0 1.7 1.9 2.8 1.2	1.3 1.2 1.4 1.5 .7 1.5 1.3 1.2 2.0 .9	.2 .3 .3 .2 .2 .2 .1 .1	.2 .2 .2 .2 .1 .1 .1 .4 .2	.8 1.0 .8 .5 3.6 .3 1.4 .3 .4	.9 1.0 .9 .5 2.1 .9 .2 .9 1.3	.8 1.0 .9 .3 .3 .3 .1 .8	.2 .3 .2 .2 .2 .1 .1 .1 .3	3.9 4.9 4.4 4.2 6.6 2.8 2.0 2.5 5.6 4.0 2.0	2. 1 2. 2 2. 4 2. 7 1. 8 1. 9 2. 0 1. 9 1. 9
ucts	3.7 2.3	3. 2 2. 7	2.7 1.5	2.3 2.0	.1	.2	.6	.6	.3	.1	4. 1 2. 4	2.3
Men's and boys' furnishings and work clothing	4.9	3.5	3.6	2. 5	.1	. 2	.9	.7	.3	.1	5. 0	2.
Lumber and wood products (except fur- niture). Logging camps and contractors. Sawmills and planing mills. Millwork, plywood, and prefabricated structural wood products.	6. 4 17. 7 5. 5	6. 1 14. 0 6. 2 3. 0	2. 7 4. 9 2. 4	2. 5 3. 5 2. 5	.3 .4 .2	.2 .4 .2	2. 7 11. 9 2. 3	3. 1 9. 6 3. 2	.7 .5 .6	.3 .5 .3	5. 0 10. 3 4. 6	2. 6 3. 7 2. 6
Furniture and fixtures Household furniture Other furniture and fixtures	5.8 6.3 4.7	5. 2 5. 7 4. 0	3. 5 3. 7 3. 2	2. 8 2. 8 2. 8	.5	.4	.9 1.2 .3	1. 7 2. 1	.9	.3	6. 1 5. 9 6. 8	2. 9 2. 3 3. 9
Paper and allied products	3. 4 2. 7 4. 4	2. 4 2. 0 3. 0	1.7 1.2 2.6	1. 4 1. 0 2. 0	.3	.2	.5	.4	1.0 .9	.4	3.7 2.9 5.0	2. (1. 2. :
Chemicals and allied products Industrial inorganic chemicals Industrial organic chemicals Synthetic fibers Drugs and medicines Paints, pigments, and fillers	2. 1 2. 7 1. 5 1. 1 1. 4 2. 5	1. 6 2. 2 1. 2 1. 3 1. 0 1. 7	1.0 1.5 .8 .4 .8 1.4	.8 1.2 .6 .5 .7	.2 .5 .2 (5) .1 .3	.2 .4 .1 .1 .1	.3 .1 .1 .4 .1	.3 .2 .2 .4 (8)	.6 .6 .4 .3 .4	.3 .3 .2 .4	3. 0 4. 0 2. 6 . 9 1. 8 2. 8	1. 3. 1. 1. 1.
Products of petroleum and coal	.9	1.2	.4	.4	(5) (5)	(8).1	.1	.4	.4	.3	1.3	:
Rubber products	3. 3 2. 5 5. 0 3. 6	2. 6 1. 4 3. 0 3. 6	1. 9 1. 0 3. 5 2. 4	1. 5 . 7 2. 5 2. 1	.2 .1 .2 .4	$\begin{array}{c} .2 \\ .1 \\ .2 \\ .2 \\ .2 \end{array}$.6 .9 .2 .3	.7 .4 .1 1.0	.6 .5 1.1 .5	.2 .2 .2 .3	4. 3 2. 6 8. 3 5. 0	2. 1. 6. 2.
Leather and leather products Leather Footwear (except rubber)	4. 2 3. 8 4. 4	2. 9 2. 9 2. 7	2. 8 1. 5 3. 3	1. 9 1. 4 1. 8	.3	.2 .2 .1	1.5 .3	1. 1 1. 7	.5 .6 .5	.1 .2 .1	5. 4 3. 5 5. 4	3. 2. 3.
Stone, clay, and glass products. Glass and glass products. Cement, hydraulic. Structural clay products. Pottery and related products.	3. 6 4. 5 2. 1 3. 5 3. 3	2. 7 3. 6 2. 3 2. 7 2. 3	1. 8 1. 5 1. 1 2. 0 2. 0	1. 4 1. 2 1. 2 1. 7 1. 5	.3 .2 .3 .4	.2 .3 .2 .3 .3	.8 1.8 .1 .5	.7 1.5 .4 .5 .2	.7 .9 .7 .7	.4 .6 .5 .2	4. 2 4. 4 2. 0 4. 6 4. 7	2. 2. 1. 2. 2.
Primary metal industries	3. 5 2. 6	2. 5 1. 8	1.8 1.3	1.4	.4	.3	.5	.4	.8	.4	4. 2	3. (
Iron and steel foundries Gray-iron foundries Malleable-iron foundries Steel foundries Primary smelting and refining of non- ferrous metals: Primary smelting and refining of	5. 7 4. 8 5. 2 4. 7	4. 0 4. 5 3. 6 3. 4	3. 3 2. 8 3. 3 3. 5	2. 6 2. 8 2. 6 2. 3	.8 .7 .7 .7	.7 .7 .7 .6	.9 .7 .1	.4 .7 .1 .3	.7 .6 1.1 .4	.3 .2 .2	7. 3 6. 0 7. 0 7. 8	5. 3. 5. 6.
copper, lead, and zinc. Rolling, drawing, and alloying of non- ferrous metals: Rolling, drawing, and alloying of	1.7	1.4	.8	.7	.3	.1	(5)	.3	.6	.3	2.3	1. 8
copperNonferrous foundriesOther primary metal industries:	2. 4 6. 6	1. 6 4. 2	1. 2 2. 4	1. 0 2. 1	:7	.2	2. 1	1.3	.7 1.4	.2	2. 5 5. 8	1. 6
Iron and steel forgings	3, 3	2. 4	2. 0	1.7	. 5	.3	.2	.1	.6	.3	4.3	3.

Table B-2: Monthly Labor Turn-Over Rates (Per 100 Employees) in Selected Groups and Industries ¹—Continued

					Separ	ration					Mot-1	ooggi
Industry group and industry	То	tal	Qu	iit	Disch	arge	Lay	-off	Misc., milit		Total ac	cession
	Jan. 1951	Dec. 1950	Jan. 1951	Dec. 1950	Jan. 1951	Dec. 1950	Jan. 1941	Dec. 1950	Jan. 1951	Dec. 1950	Jan. 1951	Dec. 1950
Manufacturing—Continued												
Fabricated metal products (except ord-												
nance, machinery, and transportation equipment)	4.6	3.7	2.4	1.6	0.4	0.3	1.1	1.4	0.7	0.4	5.3	3.3
Cutlery, hand tools, and hardware Cutlery and edge tools	4. 1 2. 7	2. 9 1. 8	2. 4 1. 9	1.7 1.0	.4	.3	.7	.6	.6	.3	4. 6 3. 5	3. 2 1. 4
Hand tools	4.0	2.4	2.2	1. 2 2. 2	.4	.2	1.0	.8	.9	.2	3. 8 5. 3	3.1
Hardware	4.7	3. 6	2.7						1			
Heating apparatus (except electric) and plumbers' supplies	5.1	3.5	2.6	1.8	.5	.4	1.3	1.0	.7	.4	5. 1	2.3
Sanitary ware and plumbers' supplies	4.6	2.8	2.9	1.9	.6	.4	.4	.1	.7	.4	4.3	2.8
Oil burners, nonelectric heating and cooking apparatus, not												
and cooking apparatus, not elsewhere classified	5.5	4.0	2.3	1.6	.4	.5	2.0	1.6 1.1	.8	.3	5. 8 5. 3	1.7
Fabricated structural metal products	4.7	3.6	2.3	1.7	.4	. 4	1.3					
Metal stamping, coating, and en-	5.0	5.3	2.7	1.7	.3	.3	1.3	2. 9	.7	.4	7.0	3.7
Machinery (except electrical) Engines and turbines	3. 6 3. 6	2. 5 3. 2	2. 1 2. 2	1. 5 1. 5	. 5	.4	.3	.3	.7	.3	6. 0 6. 4	3.7
Agricultural machinery and tractors	(4)	2.7	(4)	1.7	(4)	.3	(4)	.2	(4)	.5	(4) 6.4	3.7
Construction and mining machinery Metalworking machinery	3. 7 4. 4	2.3 2.7	2.3 2.7	1. 5 1. 8	.7	.4	.1	.1	.6	.3 .2 .2	8.5	3. 8 5. (
Machine tools.	4.7	2.8	2. 9	1.9	.8	. 6	.1	.1	. 9	.2	9. 7	5. 5
Metalworking machinery (except machine tools)	3.0	2.0	2.1	1.4	.3	.3	.1	(5)	.5	.3	5.1	2.6
Machine-tool accessories	4.9	3.6	2.6	1.9	.8	. 6	1.1	.8	.4	. 3	7.9	6.1
Special-industry machinery metal- working machinery	3.5	2.0	2.0	1.3	. 5	.3	.5	.2	.5	.2	5.3	3. 3
General industrial machinery Office and store machines and devices	3. 5 2. 3	2.7 1.5	2. 0 1. 3	1.7	.6	.5	.3	.2	.6	.3	5. 6 3. 8	4.1
Service-industry and household ma-										.7		2.8
Miscellaneous machinery parts	3.3	2. 5 2. 3	1.3 1.9	1.1	. 4	.2	.8	.5	.8	.3	5. 4 5. 5	3.3
Electrical machinery	4.9	3.3	2.3	1.7	. 5	.3	1.3	1.0	.8	.3	5.3	2.7
Electrical generating, transmission,												
distribution, and industrial apparatus.	3.7	2.3	1.9	1.3	.3	.2	1.0	.4	. 5	. 4	4.2	2.4
Communication equipment Radios, phonographs, television	5.8	4.6	2.5	2.2	. 5	. 3	1.9	1.8	. 9	.3	6.3	2. 9
sets, and equipment	6.8	6. 1	2.8	2.5	.7	.5	2. 2	2.8	1.1	.3	7.1	2. 9
Telephone and telegraph equip- ment	1.6	1.7	1.1	1.1	.1	.1	(5)	.2	.4	.3	2.3	1. 8
Electrical appliances, lamps, and miscellaneous products	3.8	2.9	2. 0	1.7	.2	.2	.9	.7	.7	.3	3.6	3. (
Transportation equipment.	6.0	6.1	2. 9	2.0	.3	.3	1.9	3.4	.9	.4	9. 2	5. 3
AutomobilesAircraft and parts	6.3	6.8	3.2	2.0	.3	. 3	1.9	4.1	. 9	.4	7.3	3.7
Aircraft and parts	3.7 4.2	2. 6 2. 7	2. 4 2. 8	1.8 1.9	.4	.3	.1	.1	.8	.4	10.8 11.8	7. 0
Aircraft engines and parts	2.4	1.9	1.5	1.4	.4	.3	(5) (5)	(⁵)	1.0	.2	8.8 3.3	6.4
Aircraft propellers and parts Other aircraft parts and equip-	1.8	1.4	.7	1.1	.1	.1						
ment Ship and boat building and repairing	3.0	2.3 13.4	1.7	1. 5 3. 2	(4) . 4	.5	(4)	(⁵) 9. 1	(4)	.3	8.0	6. 3
Railroad equipment Locomotives and parts	5, 8	4.5	1.4	. 9	.1	.1	3. 4 7	3.2	. 9	.3	6.2	5. 0
Locomotives and parts Railroad and street cars	2.7 9.4	2. 2 6. 9	1. 2 1. 7	1.1	.1	.1	6.6	. 6 5. 8	1.0	.4	4.9	4. · 5. ·
Other transportation equipment	4.7	4.0	.8	1.1	. 2	(5)	3.3	2.7	.4	.2	4, 1	1.
instruments and related products	3.5	1.9	1.8	1.1	.2	.3	1.0	.2	.5	.3	4.0	3.
Photographic apparatus Watches and clocks	6.2	1. 0 2. 3	2.6	1.2	(4)	(⁵)	(4) 2.6	.6	(4)	.3	3.7	1.
Professional and scientific instru- ments	3.2	2.2	1.8	1.3	.3	.5	. 6	.1	. 5	.3	4.1	3.8
Miscellaneous manufacturing industries	5.7	4.1	3.1	1.9	.3	.3	1.5	1.6	.8	.3	5. 6	2.9
Jewelry, silverware, and plated ware Nonmanufacturing	3.8	3.2	2, 4	1.7	.2	.2	. 5	1.1	.7	.2	4.2	1.3
Metal mining	3.7 1.8	4. 4 2. 4	2.5	2.7 1.0	.4	.7	.1	.5	.7	.5	4.7 2.6	5. 0
IronCopper	4.5	4.3	3.3	3.3	.3	.4	.1	(5)	.8	.6	5.4	5.8
Lead and zinc	3. 9	3.3	2.3	2.3	.4	.3	. 2	. 5	.8	.2	4.2	4. 2
Anthracite mining	1.8	1.8	1.2	1.2	.1	(5)	.2	.4	.3	.2	2.2	1.4
Bituminous-coal mining.	2.3	1.9	1.5	1.2	.1	.1	. 3	.4	. 4	. 2	2.4	1. 8
Communication: Telephone	(4)	1.3	(4)	1.0	(4)	(5)	(4)	.1	(4)	.2	(4)	1.1
Telegraph	(4) (4)	1.6	(4)	1.0	(4) (4)	(5)	(4) (4)	. 3	(4)	.3	(4)	1.4

 $^{^{1}\,\}mathrm{See}$ footnote 1, table B–1. Data for the current month are subject to revision without notation; revised figures for earlier months will be indicated by footnotes.

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See footnote 2, table A-2.
 See footnote 3, table A-2. Printing, publishing, and allied industries are excluded.

⁴ Not available. ⁵ Less than 0.05.

C: Earnings and Hours

TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees ¹

									M	ining								
•						M	etal								C	oal		
Year and month	Т	otal: M	etal		Iron			Coppe	r	Le	ad and	zine	A	nthrac	ite	В	itumino	ous
	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings															
1948: Average 1949: Average	\$60. 80 61. 55	42. 4 40. 9	\$1.434 1.505	\$58.32 59.06	41. 3 39. 8	\$1.412 1.484	\$65. 81 63. 96	45. 2 42. 3	\$1.456 1.512	\$61.37 64.79	41.3 41.4	\$1.486 1.565	\$66. 57 56. 78	36. 8 30. 2	\$1.809 1.880	\$72.12 63.28	38. 0 32. 6	\$1.898 1.941
1950: January February March April May June July August September October November December	63. 71 62. 81 61. 81 62. 90 63. 11 63. 40 63. 17 64. 48 66. 38 69. 84 69. 92 73. 41	42. 0 41. 9 41. 1 41. 6 41. 6 41. 6 41. 1 41. 9 42. 2 43. 9 43. 0 43. 8	1. 517 1. 499 1. 504 1. 512 1. 517 1. 524 1. 537 1. 539 1. 573 1. 591 1. 626 1. 676	58. 68 59. 62 57. 57 59. 62 59. 33 60. 75 61. 51 60. 97 62. 80 66. 53 63. 77 70. 94	39. 7 40. 5 38. 9 40. 2 39. 9 40. 8 40. 9 40. 7 41. 1 43. 4 41. 6 42. 3	1. 478 1. 472 1. 480 1. 483 1. 487 1. 504 1. 504 1. 528 1. 533 1. 677	71. 96 68. 49 68. 58 68. 13 69. 42 69. 55 67. 95 71. 53 72. 46 75. 68 78. 78 79. 48	45. 4 44. 3 44. 3 43. 9 44. 5 44. 3 42. 9 45. 2 46. 4 46. 1 47. 2	1. 585 1. 546 1. 548 1. 552 1. 560 1. 570 1. 584 1. 593 1. 603 1. 631 1. 709 1. 684	65. 18 63. 38 63. 45 63. 55 63. 71 63. 38 62. 96 64. 73 68. 06 71. 95 73. 01 74. 99	42. 3 41. 7 41. 8 41. 4 40. 5 39. 7 41. 1 41. 2 42. 8 42. 3 42. 9	1. 541 1. 520 1. 518 1. 535 1. 539 1. 565 1. 586 1. 575 1. 681 1. 726 1. 748	44. 60 40. 23 80. 01 57. 25 68. 81 64. 94 68. 59 65. 77 68. 45 75. 59 60. 85 64. 68	23. 9 20. 6 41. 5 29. 0 34. 7 32. 6 34. 8 33. 2 34. 5 37. 2 31. 0 32. 5	1. 866 1. 953 1. 928 1. 974 1. 983 1. 992 1. 971 1. 981 1. 984 2. 032 1. 963 1. 990	47. 36 49. 83 78. 75 72. 79 68. 37 69. 92 69. 68 71. 04 71. 92 72. 99 73. 27 77. 30	24. 5 25. 4 39. 2 36. 0 34. 1 34. 7 34. 6 35. 5 35. 5 36. 1 36. 4 38. 4	1. 933 1. 965 2 009 2. 025 2. 003 2. 014 2. 001 2. 026 2. 022 2. 013 2. 013
1951: January	73. 92	43. 2	1.711	68. 72	40. 4	1.701	82. 68	47.3	1.748	75. 42	43.0	1.754	71. 28	35. 8	1.991	76. 96	37.8	2. 036
		M	lining—	Continu	ied						Co	ntract c	onstruct	tion				
	natural		duction		etallic 1			Contra				N	Nonbuild	ling cor	structio	on		
	natural (exc	roleum gas pro ept con services	duction tract	and	l quarry	ying	S	struction	1		Nonbi		Highw	va y and	street		nonbu nstructi	
1948: Average 1949: Average	\$66.68 71.48	40.0 40.2	\$1.667 1.778	\$55. 31 56. 38	44. 5 43. 3	\$1, 243 1, 302	\$68. 25 70. 81	38. 1 37. 8	\$1.790 1.874	\$66. 61 70. 44	40. 6 40. 9	\$1.639 1.723	\$62. 41 65. 65	41.6 41.5	\$1.500 1.583	\$68. 67 73. 66	40. 0 40. 5	\$1.716 1.820
1950: January February March April May June July August September October November December	76. 24 71. 88 70. 88 74. 41 70. 88 71. 08 75. 59 71. 01 73. 47 77. 67 76. 21 75. 42	41. 8 40. 0 39. 8 41. 2 40. 0 41. 6 40. 3 40. 5 41. 4 40. 6 40. 2	1. 824 1. 797 1. 781 1. 806 1. 772 1. 777 1. 817 1. 762 1. 814 1. 876 1. 877	53. 36 54. 36 55. 37 58. 03 59. 45 60. 39 60. 92 61. 74 62. 51 64. 03 63. 31 62. 19	41. 4 41. 4 41. 6 43. 6 44. 4 44. 9 44. 6 45. 2 45. 1 45. 8 44. 9 43. 7	1. 289 1. 313 1. 331 1. 331 1. 339 1. 345 1. 366 1. 366 1. 386 1. 410 1. 423	68. 01 66. 89 68. 59 70. 93 72. 74 73. 76 74. 06 75. 96 75. 89 77. 92 77. 52 76. 86	35. 2 34. 3 35. 1 36. 6 37. 3 38. 0 37. 9 38. 6 37. 7 38. 5 38. 0 37. 2	1. 932 1. 950 1. 954 1. 938 1. 950 1. 941 1. 954 1. 968 2. 013 2. 024 2. 040 2. 066	65. 56 66. 94 68. 34 71. 41 71. 71 73. 75 73. 70 76. 48 75. 86 77. 65 75. 42 74. 73	37. 4 37. 8 38. 7 40. 9 40. 7 42. 0 41. 5 42. 7 41. 5 40. 9 40. 9	1. 753 1. 771 1. 766 1. 746 1. 762 1. 756 1. 776 1. 791 1. 828 1. 827 1. 844 1. 859	58. 43 61. 96 63. 68 66. 54 68. 06 69. 86 69. 31 73. 88 70. 84 73. 32 70. 91 68. 49	35. 5 37. 3 38. 2 40. 7 41. 0 42. 6 41. 5 44. 0 41. 5 42. 8 41. 2 39. 5	1. 646 1. 661 1. 667 1. 635 1. 660 1. 640 1. 670 1. 707 1. 713 1. 721 1. 734	69. 57 69. 50 70. 76 74. 33 74. 20 76. 84 77. 19 78. 33 79. 72 80. 92 78. 59 78. 56	38. 5 38. 0 38. 9 41. 0 40. 5 41. 6 41. 5 41. 6 41. 5 42. 3 40. 7 40. 6	1. 807 1. 892 1. 819 1. 813 1. 832 1. 847 1. 860 1. 883 1. 921 1. 913 1. 935
1951: January	77. 29	40.7	1.899	62.30	43. 6	1.429	77. 71	37. 2	2. 089	74. 73	39.6	1.887	65. 68	38.1	1.724	79. 79	40. 4	1.975
		-					С			onstruct		ed						
												l-trade o	contracto	ors				
	ALL SALES OF THE SALES	Buildin truction		Gener	al contr	ractors	Total:	Specia	l-trade rs	Plumbi	ing and	heating	Pa de	inting a	and ag	Elec	etrical w	rork
1948: Average 1949: Average	\$68. 85 70. 95	37. 3 36. 7	\$1.848 1.935	\$64. 64 67. 16	36. 6 36. 2	\$1.766 1.855	\$73.87 75.70	38. 0 37. 2	\$1.946 2.034	\$76. 83 78. 60	39. 2 38. 6	\$1.960 2.037	\$69. 77 70. 75	36. 3 35. 7	\$1.925 1.982	\$83. 01 86. 57	39. 8 39. 2	\$2. 084 2. 211
1950: January February March April. May June Lune September October November December	68. 76 67. 00 68. 83 70. 70 72. 93 73. 82 74. 02 75. 99 75. 86 77. 87 78. 07 77. 45	34. 8 33. 7 34. 5 35. 6 36. 5 37. 0 36. 9 37. 6 36. 7 37. 4 37. 3 36. 6	1. 976 1. 988 1. 995 1. 986 1. 998 1. 995 2. 006 2. 021 2. 067 2. 082 2. 093 2. 116	63. 58 61. 60 63. 80 65. 98 67. 87 68. 33 68. 77 70. 87 70. 73 72. 71 72. 94 71. 71	34. 0 32. 8 33. 9 35. 3 36. 1 36. 6 36. 6 37. 2 36. 2 37. 0 36. 8 35. 8	1. 870 1. 878 1. 882 1. 869 1. 880 1. 867 1. 905 1. 905 1. 954 1. 965 1. 982 2. 003	73. 49 71. 00 72. 59 74. 49 76. 95 77. 92 78. 16 79. 72 79. 62 81. 95 82. 00 81. 51	35. 5 34. 3 34. 9 35. 9 36. 8 37. 2 37. 8 37. 0 37. 8 37. 7 37. 1	2. 070 2. 070 2. 080 2. 075 2. 091 2. 089 2. 101 2. 109 2. 152 2. 168 2. 175 2. 197	78. 32 75. 65 78. 02 78. 78 81. 14 82. 64 80. 45 81. 56 83. 67 84. 65 85. 08 85. 80	38. 0 36. 9 37. 6 37. 8 38. 4 39. 0 38. 0 38. 6 38. 4 38. 9 39. 1 38. 7	2. 061 2. 050 2. 075 2. 084 2. 113 2. 119 2. 117 2. 113 2. 179 2. 176 2. 176 2. 217	67. 49 67. 16 66. 30 66. 61 69. 06 69. 15 71. 62 73. 33 72. 89 76. 62 74. 93 73. 60	33. 9 33. 8 33. 5 34. 3 35. 0 35. 3 36. 1 36. 3 35. 8 36. 8 36. 2 35. 4	1. 991 1. 987 1. 979 1. 942 1. 973 1. 959 1. 984 2. 020 2. 036 2. 082 2. 070 2. 079	86. 88 87. 58 83. 62 84. 85 86. 18 87. 55 86. 60 89. 16 92. 38 94. 04 95. 01 96. 15	38. 7 38. 7 37. 0 37. 1 37. 8 38. 4 37. 9 38. 7 38. 7 39. 2 39. 1 39. 6	2. 245 2. 263 2. 260 2. 287 2. 280 2. 280 2. 285 2. 304 2. 387 2. 399 2. 430 2. 428
1951: January	78. 32	36.7	2, 134	72. 27	36.1	2.002	82, 66	37.1	2, 228	86. 01	38. 5	2. 234	73, 92	35.0	2, 112	99. 56	40.0	2, 489

See footnotes at end of table.

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TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees 1—Con.

							Co	ontract o	construc	etion—C	Continue	ed						
							В	ailding o	eonstruc	etion—C	ontinue	ed						
							Spe	cial-trac	le contr	actors—	Continu	ned						
Year and month		special entracto		1	Masonr	у	Plaste	ring and	l lath-	C	arpentr	У	Roofi m	ng and etal wo	sheet- rk		ation and tion wo	
	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings
1948: Average 1949: Average	\$69.65 71.39	36. 9 36. 1	\$1.888 1.979	\$69. 61 68. 72	35. 4 33. 8	\$1.969 2.033	\$78. 52 80. 39	36. 1 34. 9	\$2.175 2.301	\$67. 98 67. 14	37. 9 36. 6	\$1.792 1.837	\$62.47 62.86	36. 5 35. 7	\$1.710 1.759	\$66. 44 69. 66	38. 9 37. 8	\$1.709 1.844
1950: January. February. March. April. May. June. July. August. September. October November. December.	67. 87 64. 12 67. 76 71. 44 74. 46 75. 81 76. 75 78. 57 76. 59 79. 06 79. 07 77. 65	33. 4 31. 6 33. 1 35. 0 36. 2 36. 8 36. 9 37. 7 36. 3 37. 1 37. 0 36. 1	2. 032 2. 029 2. 047 2. 041 2. 057 2. 060 2. 080 2. 084 2. 110 2. 131 2. 137 2. 151	61. 68 54. 29 58. 00 67. 39 70. 98 74. 27 73. 91 76. 50 71. 88 77. 36 80. 53 70. 11	30. 0 26. 1 28. 1 32. 2 33. 8 35. 1 34. 7 36. 0 33. 2 35. 6 37. 3 32. 7	2. 056 2. 080 2. 064 2. 093 2. 100 2. 116 2. 130 2. 125 2. 165 2. 173 2. 159 2. 144	75. 57 75. 44 81. 09 83. 66 88. 86 90. 65 91. 73 93. 11 92. 89 93. 07 87. 49 90. 85	32. 6 32. 2 33. 9 34. 7 35. 7 36. 1 36. 2 36. 4 36. 6 36. 2 34. 9 35. 6	2. 318 2. 343 2. 392 2. 411 2. 489 2. 511 2. 534 2. 558 2. 571 2. 507 2. 552	66. 51 58. 66 63. 49 64. 79 65. 58 67. 40 67. 90 70. 50 71. 17 72. 80 72. 45	35. 7 32. 0 34. 3 36. 5 36. 7 37. 3 37. 7 38. 4 38. 2 37. 4 37. 8	1. 863 1. 833 1. 851 1. 775 1. 787 1. 807 1. 801 1. 863 1. 903 1. 926 1. 974	58. 50 53. 64 57. 99 61. 64 65. 05 65. 70 65. 77 68. 50 65. 99 68. 19 67. 64 66. 11	32. 3 30. 0 31. 9 34. 3 35. 9 36. 6 36. 4 37. 7 36. 2 36. 8 36. 6 35. 6	1. 811 1. 788 1. 818 1. 797 1. 812 1. 795 1. 807 1. 817 1. 823 1. 853 1. 848 1. 857	65. 57 62. 62 67. 69 73. 59 74. 10 74. 74 73. 57 77. 26 75. 01 78. 40 79. 97 81. 27	34. 4 33. 2 35. 7 39. 1 39. 0 39. 4 38. 7 40. 6 38. 0 38. 6 38. 3	1. 906 1. 886 1. 896 1. 892 1. 900 1. 897 1. 901 1. 903 1. 974 2. 031 2. 088 2. 068
1951: January	78. 81	36. 2	2.177	74.75	34. 4	2.173	89. 45	35. 3	2. 534	75. 94	37.1	2. 047	66. 56	35. 2	1, 891	80.66	39.1	2. 063
				1					Manufa	cturing				10.10				
	Total:	Manufa	cturing	Dui	rable go	ods ²	Nond	urable g	goods 3		Ordnar					idred pr	oducts	
											1	-		Food a	nd kin- ucts	Me	at prod	ucts
1948: Average 1949: Average	\$54. 14 54. 92	40. 1 39. 2	\$1.350 1.401	\$57. 11 58. 03	40. 5 39. 5	\$1.410 1.469	\$50. 61 51. 41	39. 6 38. 8	\$1. 278 1. 325	\$57. 20 58. 76	41. 6 40. 0	\$1.375 1.469	\$51.87 53.58	42. 0 41. 5	\$1.235 1.291	\$58. 37 57. 44	43. 3 41. 5	\$1.348 1.384
1950: January February March April May June July August September October November December 1951: January	56. 29 56. 37 56. 53 56. 93 57. 54 58. 85 59. 21 60. 32 60. 64 61. 99 62. 23 63. 84	39.7 39.7 39.7 39.7 39.9 40.5 41.2 41.0 41.3 41.1 41.4	1. 418 1. 420 1. 424 1. 434 1. 442 1. 453 1. 462 1. 464 1. 479 1. 501 1. 514 1. 542	59. 40 59. 47 59. 74 61. 01 61. 57 62. 86 63. 01 64. 33 65. 14 66. 39 66. 34 68. 24	40.0 40.1 40.2 40.7 40.8 41.3 41.1 41.8 41.7 42.1 41.8 42.2	1. 485 1. 483 1. 486 1. 499 1. 509 1. 522 1. 533 1. 539 1. 562 1. 577 1. 687	52. 91 53. 06 53. 04 52. 17 52. 83 53. 92 54. 73 55. 65 55. 30 56. 58 57. 19 58. 44	39. 4 39. 3 39. 2 38. 5 39. 5 39. 5 39. 8 40. 5 40. 1 40. 3 40. 3	1. 343 1. 350 1. 353 1. 355 1. 358 1. 365 1. 375 1. 374 1. 379 1. 404 1. 419 1. 443	60. 70 60. 88 61. 31 61. 43 61. 66 61. 90 64. 92 66. 12 67. 41 68. 64 70. 53 68. 43	40. 2 40. 4 40. 6 40. 6 40. 7 42. 6 42. 6 43. 1 43. 2 43. 4 42. 5	1. 510 1. 507 1. 510 1. 513 1. 515 1. 521 1. 524 1. 552 1. 564 1. 589 1. 625 1. 610	54. 94 54. 05 54. 42 54. 14 56. 01 56. 94 56. 19 56. 36 56. 83 58. 07 59. 81 60. 21	41. 4 40. 7 40. 7 40. 4 41. 0 41. 8 42. 3 41. 9 42. 0 41. 6 41. 9 42. 3	1. 327 1. 328 1. 337 1. 340 1. 339 1. 340 1. 346 1. 341 1. 342 1. 366 1. 386 1. 414	60. 19 55. 99 56. 14 55. 64 57. 10 58. 11 59. 31 57. 92 62. 59 61. 24 65. 49 69. 96	42.9 40.4 40.3 39.8 40.7 41.3 41.8 40.7 41.7 40.8 43.4 45.4	1. 403 1. 386 1. 393 1. 398 1. 403 1. 403 1. 413 1. 423 1. 500 1. 500 1. 504 1. 533
										ng—Con								
							Foo	d and k	indred p	oroducts	s—Cont	inued						
	M	eat pac	king	Sausa	ges and	casings	Da	iry prod	lucts	Conde	ensed an	id evap-	Ice c	ream a	nd ices	Cann	ing and ing	preserv
1948: Average 1949: Average	\$59.15 58.02	43. 4 41. 5	\$1.363 1.398	\$55. 51 57. 44	42. 5 41. 9	\$1.306 1.371	\$52. 26 54. 61	45. 4 44. 8	\$1.151 1.219	\$54. 17 56. 13	46. 3 45. 3	\$1.170 1.239	\$52.33 55.00	44. 8 44. 9	\$1.168 1.225	\$42.63 43.77	38. 2 38. 8	\$1.11 1.12
1950: January February March April May June July August September October November Deember	56. 50 56. 92 56. 22 57. 55 58. 65 60. 01 58. 48 63. 77 62. 23 66. 55	43. 1 40. 3 40. 4 39. 7 40. 5 41. 1 41. 7 40. 5 41. 6 40. 7 43. 3 45. 7	1. 427 1. 439 1. 444 1. 533 1. 529 1. 537	57. 24 56. 91 57. 31 57. 04 60. 67 61. 39 62. 60 60. 69 62. 45 60. 78 65. 58 67. 15	41. 6 41. 3 41. 2 40. 6 43. 0 43. 6 43. 9 42. 8 42. 8 41. 4 43. 2 43. 8	1. 408 1. 426 1. 418 1. 459 1. 468 1. 518	55. 67 54. 88 54. 63 54. 79 55. 02 55. 85 57. 21 56. 57 56. 81 56. 74 56. 62 57. 64	44. 5 43. 8 43. 7 43. 9 44. 3 45. 0 45. 3 45. 0 44. 7 44. 5 44. 1	1. 251 1. 253 1. 250 1. 248 1. 242 1. 241 1. 263 1. 257 1. 271 1. 275 1. 284 1. 304	56. 09 55. 37 55. 57 56. 51 56. 61 58. 02 58. 86 58. 16 58. 59 57. 58 57. 91 59. 20	44. 8 44. 4 44. 6 45. 5 45. 8 46. 9 46. 2 46. 1 45. 7 45. 1 45. 4	1. 252 1. 247 1. 246 1. 242 1. 236 1. 237 1. 274 1. 248 1. 271 1. 260 1. 284 1. 304	55. 93 56. 50 56. 44 56. 10 56. 20 54. 99 57. 49 57. 50 58. 43 58. 74 59. 92	43. 9 44. 0 44. 2 44. 0 44. 5 43. 3 44. 6 44. 2 44. 1 43. 4 43. 8	1. 284 1. 277 1. 275 1. 263 1. 270 1. 289 1. 301 1. 322 1. 332 1. 354	45. 01 45. 94 47. 73 47. 91 47. 18 49. 05 48. 06	38. 2 37. 7 36. 8 36. 3 37. 2 38. 9 41. 4 40. 6 41. 1 40. 5 38. 6 37. 4	1. 18 1. 19 1. 21 1. 22 1. 21 1. 18 1. 15 1. 18 1. 14 1. 21 1. 24 1. 24
1951: January		43. 4			43. 0		59. 23	44.1	1. 343	61. 29	45. 3	1. 353	60.80	43.9			38. 5	1. 29

TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees 1—Con.

								Man	ufacturi	ng—Cor	ntinued							
							Foo	d and k	indred	product	s—Con	tinued						
Year and month	Grain	ı-mill p	roducts	Flo	ur and -mill pr	other	Pr	epared :	feeds	Bak	cery pro	oducts		Sugar		Cane	-sugar r	efining
	Avg. wkly. earn- ings	Avg. wkly. hours		Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings		Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly.	earn-	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings
1948: Average 1949: Average	\$54. 53 56. 94	44.3 43.8	\$1.231 1.300	\$57. 23 58. 91	46.3 44.7	\$1.236 1.318		45. 3 46. 2	\$1. 126 1. 190	\$49.35 51.67	42. 4 41. 7	\$1.164 1.239	\$52.04 56.01	41.8	\$1. 245 1. 321	\$51.74 56.62	42. 0 42. 1	\$1. 235 1. 346
1950: January February March April May June July August September October November December	56. 46 55. 48 56. 83 55. 82 56. 35 58. 47 60. 60 63. 65 61. 34 59. 97 59. 78 62. 72 64. 30	42. 9 42. 0 42. 6 42. 1 42. 4 43. 9 44. 3 45. 4 44. 3 42. 7 43. 8	1. 316 1. 321 1. 334 1. 329 1. 332 1. 368 1. 402 1. 394 1. 395 1. 400 1. 432	60. 03 58. 02 58. 28 56. 16 57. 36 58. 51 61. 86 67. 35 64. 66 60. 85 61. 42 65. 78	44. 3 43. 2 43. 3 42. 1 42. 9 43. 5 44. 6 46. 8 45. 5 43. 5 43. 5	1. 355 1. 343 1. 346 1. 337 1. 345 1. 387 1. 439 1. 421 1. 402 1. 412 1. 449	53. 22 51. 37 54. 86 56. 06 55. 72 57. 63 60. 96 57. 62 59. 14 59. 89 59. 00 60. 47	44. 5 42. 7 44. 6 45. 5 44. 9 46. 7 47. 7 45. 3 45. 7 46. 0 44. 7 45. 4	1. 196 1. 203 1. 230 1. 232 1. 241 1. 234 1. 278 1. 272 1. 294 1. 302 1. 320 1. 332	52. 07 52. 96 52. 75 52. 37 53. 12 53. 21 53. 88 54. 34 53. 85 54. 19 54. 47 55. 37	41. 1 41. 6 41. 5 41. 2 41. 6 41. 9 41. 7 41. 8 41. 2 41. 4 41. 3	1. 267 1. 273 1. 271 1. 271 1. 277 1. 270 1. 292 1. 300 1. 307 1. 309 1. 319	55. 78 55. 44 55. 92 55. 32 57. 59 59. 23 66. 36 64. 64 63. 54 56. 90 61. 10 64. 03	39. 9 39. 8 40. 2 39. 4 41. 4 42. 4 45. 7 45. 3 43. 7 41. 9 45. 7	1. 398 1. 393 1. 391 1. 404 1. 391 1. 397 1. 452 1. 427 1. 454 1. 358 1. 337 1. 395	56. 42 55. 36 56. 84 55. 00 61. 11 62. 12 73. 01 71. 43 69. 01 56. 83 57. 29 68. 57	40. 1 39. 8 40. 6 39. 4 43. 4 43. 9 49. 4 48. 2 45. 7 39. 6 40. 4 45. 5	1. 40° 1. 39° 1. 40° 1. 40° 1. 41° 1. 47° 1. 48° 1. 51° 1. 43° 1. 51° 1. 50°
1801. Vanuary	04, 50	44.5	1.445	67.05	45. 8	1.464	61.42	45. 8	1.341	55.05	41.3	1.333	59. 51	40.1	1.484	62. 54	42.0	1. 489
							Food			oroducts		inned						
	В	eet sug	ar	Confee	ctionery	and lucts		nfection		1	Beverag		Bottle	ed soft	drinks	M	alt liqu	ors
- 1948: Average 1949: Average	\$53.48 56.09	41. 3 42. 3	\$1, 295 1, 326	\$44.00 45.12	40.0 40.0	\$1.100 1.128	\$41.46 42.63	39. 6 39. 8	\$1.047	\$61. 43	41.9	\$1.466	\$46. 26	44.1	\$1.049	\$66.40	42.0	\$1.581
1950: January February March April May June July August September October November December	56. 97 56. 42 54. 68 57. 74 52. 25 54. 29 56. 37 56. 01 58. 04 57. 35 64. 07 61. 42	38. 7 39. 4 38. 7 39. 6 37. 7 39. 2 38. 9 40. 5 40. 9 42. 8 47. 6 44. 7	1. 472 1. 432 1. 413 1. 458 1. 386 1. 385 1. 449 1. 383 1. 419 1. 340 1. 374	45. 59 45. 26 45. 19 43. 77 45. 36 46. 37 45. 98 47. 99 49. 35 49. 00 48. 15 47. 55	40. 2 39. 7 39. 4 37. 9 39. 1 39. 6 38. 8 40. 5 41. 3 41. 0 40. 5 40. 3	1. 124 1. 140 1. 147 1. 155 1. 160 1. 171 1. 185 1. 195 1. 195 1. 189 1. 180	42. 75 42. 60 42. 92 41. 59 43. 56 44. 36 44. 16 45. 82 47. 13 47. 19 47. 10 47. 37	39. 8 39. 3 39. 2 37. 6 39. 0 39. 4 38. 6 40. 3 41. 2 41. 0 41. 1 41. 7	1.071 1.074 1.084 1.095 1.106 1.117 1.126 1.144 1.137 1.146 1.136	64. 21 63. 52 64. 52 65. 16 66. 38 66. 71 68. 96 71. 11 68. 39 67. 86 68. 14 67. 81 68. 23	39.7 40.0 40.1 40.7 41.1 42.0 42.3 41.3 41.2 41.0 40.9	1. 566 1. 600 1. 613 1. 625 1. 631 1. 623 1. 642 1. 681 1. 656 1. 647 1. 662 1. 658 1. 658	48. 40 46. 67 46. 98 46. 72 47. 90 48. 64 51. 29 50. 34 49. 78 49. 53 49. 92 50. 30 50. 54	43. 8 42. 5 42. 4 41. 9 42. 5 43. 2 44. 1 43. 1 42. 7 43. 0 43. 1 42. 7	1. 105 1. 098 1. 108 1. 115 1. 127 1. 126 1. 163 1. 168 1. 155 1. 160 1. 161 1. 167 1. 178	69. 46 68. 52 69. 32 70. 42 72. 19 72. 82 74. 95 77. 86 73. 25 72. 71 72. 48 73. 02 73. 15	41. 1 39. 7 40. 0 40. 1 40. 9 41. 4 42. 2 42. 9 40. 9 40. 8 40. 2 40. 5 39. 5	1. 690 1. 726 1. 733 1. 756 1. 765 1. 776 1. 815 1. 791 1. 782 1. 803 1. 803 1. 852
	00. 40	00.1	1. 101	45, 05	40.0	1, 224	48. 52	41.4 Manus	1.172	71.39 g—Cont	41.1	1.737	50.38	42.8	1.177	76.30	40.5	1.884
-	Food	and kir	ndred p	roducts-	-Contin	nued		14141141	acturm	g—Com		acco m	anufactu	Iron			-	
-	Distill and ble	ed, rect	tified,		llaneous			l: Tobs		C	igarette			Cigars		Tobac	co and	snuff
1948: Average §	54. 92 57. 00	40. 5 39. 2	\$1.356 1.454	\$49. 74 52. 17	42.3 41.9	\$1.176 1.245	\$36. 50 37. 25	38. 1 37. 1	\$0.958 1.004	\$44. 51 46. 33	38. 6 37. 7	\$1.153 1.229	\$32. 71 32. 41	37. 6 36. 7	\$0.870	\$37. 21	37. 7	\$0.987
1950: January	59. 70 58. 67 58. 45 57. 66 57. 47 59. 35 59. 51 66. 00 65. 18 64. 95 65. 31 66. 75	39. 8 38. 5 39. 2 38. 8 38. 7 39. 7 39. 2 41. 8 42. 0 40. 8 41. 6 41. 9	1. 500 1. 524 1. 491 1. 486 1. 485 1. 518 1. 579 1. 552 1. 592 1. 570 1. 593	53. 21 52. 65 53. 71 53. 15 53. 16 54. 82 56. 15 56. 50 56. 16 56. 06 56. 44 57. 08	41. 8 41. 1 41. 6 41. 2 41. 6 42. 2 42. 8 43. 0 42. 6 42. 5	1. 273 1. 281 1. 291 1. 290 1. 278 1. 299 1. 312 1. 314 1. 306 1. 316 1. 328 1. 343	39. 25 38. 48 39. 49 38. 59 39. 67 41. 59 42. 12 43. 37 42. 02 41. 21 42. 45 43. 57	38. 0 36. 2 36. 7 35. 5 36. 7 38. 3 38. 4 39. 5 39. 5 39. 2 38. 3 37. 8 38. 8	1.033 1.063 1.076 1.087 1.081 1.086 1.097 1.098 1.072 1.076 1.123 1.123	49. 15 46. 96 48. 65 48. 41 47. 99 51. 21 52. 50 57. 94 50. 36 45. 10 50. 07 54. 03	39. 1 37. 3 38. 7 38. 0 37. 7 40. 1 40. 6 43. 6 43. 6 39. 5 35. 4 37. 9 40. 2	1. 257 1. 259 1. 257 1. 274 1. 273 1. 277 1. 293 1. 329 1. 275 1. 274 1. 321 1. 344	33. 25 33. 87 33. 71 31. 38 34. 49 35. 49 35. 11 36. 11 37. 57 39. 35 39. 50	36. 5 35. 8 35. 3 33. 0 36. 3 37. 2 36. 8 37. 5 38. 1 39. 0 38. 5	. 884 . 911 . 946 . 955 . 951 . 950 . 954 . 963 . 986 1. 009 1. 026	39, 10 40, 69 40, 04 40, 92 41, 96 40, 88 43, 31 44, 54 45, 77 44, 23 44, 24 42, 97 44, 81	37. 4 36. 3 36. 8 37. 4 35. 7 38. 5 38. 9 39. 7 39. 0 38. 5 36. 6	1.051 1.088 1.103 1.112 1.122 1.145 1.145 1.153 1.134 1.149 1.174
	73. 72	43.7	1. 687	58.88	42.7	1. 379	43. 85	38. 5	1. 123	55. 12	40. 2	1.344	38. 17 37. 80		1.007	44. 81	38. 1	1. 176

TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees 1—Con.

								Manuf	acturin	g—Cont	tinued							
		cco man								Textile	-mill pr	oducts						
** ************************************	Toba	cco sterr	ming	Total	: Textile	e-mill	Yarr	and th	read	v	arn mill	la.	Broad	-woven	fabric	Cotto	n, silk, etic fibe	syn-
Year and mont	an	d redry	ing	I	oroducts			mills		1	aru min	18		mills			ited Sta	
	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings
1948: Average 1949: Average		40. 0 38. 3	\$0.856 .893	\$45. 59 44. 83	39. 2 37. 7	\$1.163 1.189	\$41.49 40.51	38. 1 36. 4	\$1.089 1.113	\$41. 42 40. 55	37. 9 36. 3	\$1.093 1.117	\$46. 13 44. 48	39. 6 37. 5	\$1.165 1.186	\$44.36 42.89	39. 4 37. 2	\$1.126 1.153
1950: January February March April May June July August September October November December	35, 34 39, 58 39, 14 37, 19 40, 11 40, 16 35, 24 39, 26 37, 37 34, 53	41.8 35.3 38.5 38.0 36.5 38.6 39.1 38.1 43.1 41.2 35.6 40.0	.899 1.001 1.028 1.030 1.019 1.039 1.027 .925 .911 .907 .963	47, 36 47, 88 47, 39 45, 51 45, 63 46, 75 47, 27 49, 33 49, 98 52, 58 53, 19 53, 49	39. 4 39. 6 39. 2 37. 8 37. 9 38. 7 39. 0 40. 5 40. 7 40. 6 40. 7 40. 8	1. 202 1. 209 1. 209 1. 204 1. 204 1. 208 1. 212 1. 218 1. 228 1. 295 1. 307 1. 311	43. 67 43. 84 42. 67 40. 80 41. 62 42. 68 43. 24 44. 96 46. 40 49. 33 49. 57 49. 73	39. 2 39. 0 38. 0 36. 4 36. 9 37. 8 38. 2 39. 4 40. 1 40. 2 40. 3 40. 5	1. 114 1. 124 1. 123 1. 121 1. 128 1. 129 1. 132 1. 141 1. 157 1. 227 1. 230 1. 228	43.60 43.88 42.60 40.65 41.77 42.79 43.36 45.34 46.56 49.16 49.61 49.69	39. 0 38. 9 37. 8 36. 1 36. 8 37. 7 38. 1 39. 6 40. 0 40. 0 40. 2 40. 4	1.118 1.128 1.127 1.126 1.135 1.135 1.138 1.145 1.164 1.229 1.234 1.230	48. 16 48. 16 47. 72 45. 81 45. 82 46. 92 47. 52 49. 29 49. 90 53. 17 53. 68 54. 28	40. 0 40. 1 39. 8 38. 4 38. 5 39. 2 39. 5 40. 8 41. 1 40. 9 41. 1 41. 4	1. 204 1. 201 1. 199 1. 193 1. 190 1. 197 1. 203 1. 208 1. 214 1. 300 1. 306 1. 311	47. 04 47. 07 46. 88 44. 66 44. 35 45. 24 45. 90 47. 86 48. 62 52. 29 52. 62 53. 38	40.1 40.2 40.0 38.4 38.3 38.9 39.3 40.7 41.1 41.3 41.4	1. 173 1. 171 1. 172 1. 163 1. 168 1. 168 1. 176 1. 183 1. 266 1. 271 1. 280
1951: January	39, 22	40.1	. 978	54. 14	40.8	1.327	49. 61	40.5	1. 225	49. 29	40. 2	1. 226	54. 57	41.5	1. 315	53. 50	41.8	1. 280
								Manu	facturii	ig—Cor	itinued							
							7	extile-n	nill prod	lucts—(Continu	ed						
	Cot	ton, silk	, synthe	etic fiber	-Cont	inued	Woole	en and v	vorsted	Kı	nitting r	nills		Fu	ıll-fashio	oned hos	siery	
		North			South			1	1			1	Uı	nited St	ates		North	1
1948: Average 1949: Average	\$46.36	38.0	\$1. 220	\$41.92	37.0	\$1.133	\$52.45 51.19	40. 1 38. 9	\$1,308 1,316	\$41.14 41.47	37. 5 36. 8	\$1.097 1.127	\$52, 85 52, 09	38. 8 37. 5	\$1.362 1.389		36. 9	\$1, 46
1950: January-February-MarchAprilAprilJuneJuneJulyAugustSeptember OctoberNovember December	50. 06 49. 57 47. 98 47. 74 48. 27 49. 05 50. 86 51. 56 56. 10	40.6 40.2 39.1 39.0 39.4 39.8 41.0 41.1 41.5 41.6	1. 239 1. 255 1. 348 1. 350	47. 83 51. 25 51. 50			52. 92 52. 51 51. 00 50. 94 51. 94 53. 36 53. 51 54. 21 56. 30 58. 08 58. 32	40.0	1. 333 1. 326 1. 311 1. 313 1. 315 1. 324 1. 331 1. 332 1. 340 1. 440 1. 452 1. 458	41. 73 43. 38 43. 55 40. 60 40. 67 41. 85 42. 77 45. 63 47. 67 47. 91 47. 29	37. 0 39. 2 38. 9 39. 2 38. 7	1. 216 1. 238	51. 53 53. 16 54. 25 49. 02 49. 76 50. 62 52. 06 54. 94 54. 35 57. 87 58. 73 57. 41	36. 6 37. 2 38. 1 35. 6 36. 4 37. 3 38. 0 39. 7 39. 1 39. 5 39. 1	1. 429 1. 424 1. 377 1. 367 1. 357 1. 370 1. 384 1. 390 1. 468 1. 502	55. 65 55. 80 48. 82 49. 90 50. 42 50. 73 55. 06 54. 12 5 58. 52 6 60. 29	35. 4 36. 4 37. 4 37. 3 39. 7 39. 3 39. 3 39. 1	1. 47: 1. 49: 1. 48: 1. 37: 1. 37: 1. 34: 1. 36: 1. 38: 1. 37: 1. 48: 1. 54: 1. 53:
1951: January	(2)	(2)	(2)	(2)	(2)	(2)	58. 40	40.0	1. 460	48. 20	38.1	1, 265	59. 60	38. 4	1.552	(2)	(2)	(2)
				_				Man	ıfacturi	ng—Co	ntinued							
				_				Textile-	nill pro	ducts—	Continu	ed						
		ll-fashion y—Cont					Seam	less hos	iery	-			Kı	nit oute	rwear	Kr	nit unde	rwear
	-	South	h		nited S	T		North	1		South	1		1	1.		T	T
1948: Average 1949: Average		38.2	\$1.317	\$30. 27 31. 45				37.7	\$0.930	\$30.78	35. 1	\$0.877	\$39. 75 40. 96	38.1	1.07			
1950: January—February March.—April.— May — June — July — August—Septembe October — Novembe December	51. 1 53. 0 49. 0 49. 6 50. 8 53. 1 54. 6 57. 1 7 57. 4	4 37.3 2 38.3 9 35.3 1 36.4 2 37.3 9 38.0 3 39.3 8 39.4 8 39.7	3 1.377 7 1.376 7 1.376 4 1.366 2 1.366 6 1.378 7 1.387 7 1.400 6 1.444 2 1.466	34.50 33.29 5 31.78 3 31.17 5 33.13 6 33.36 1 37.11 2 36.98 4 38.08 5 38.31	36. 2 34. 5 32. 8 32. 8 32. 2 34. 3 35. 0 36. 3 37. 5 37. 6	953 965 969 968 968 968 953 974 986 1 1010 1 1010	36. 88 36. 47 35. 90 36. 43 36. 83 35. 88 39. 42 39. 62 40. 33 41. 59	38.1 37.4 36.6 37.1 36.6 37.1 37.1 37.5 38.3 36.8 39.5 39.5 39.1 39.5	. 981 . 983 . 983 . 973 . 998 1. 016 1. 033 1. 053	34. 11 32. 65 31. 01 30. 11 32. 42 32. 42 32. 93 36. 66 36. 40 2. 37. 56	35.9 33.9 1 32.1 1 31.2 33.7 3 34.7 3 37.8 3 37.8 3 37.8 3 37.8 3 37.8 3 37.8 3 37.8 3 37.8 3 37.8 3 37.8	950 963 963 965 965 967 969 97 980 980 980 1005 1005 1005	42.74 43.80 43.05 42.75 42.75 43.42 43.90 42.75 43.42 43.90 42.75 46.43 46.43	38.6 38.6 38.6 38.6 37.9 39.1 39.1 39.1 39.1 39.1 39.1 39.1	9 1.120 2 1.12 9 1.122 7 1.122 9 1.113 3 1.110 0 1.122 1.154 4 1.170	38, 42 38, 40 7 35, 71 8 35, 26 2 36, 30 2 38, 31 7 41, 17 5 42, 63 5 43, 43 0 43, 06	2 37.3 37.1 34.5 34.0 35.0 35.0 4 36.8 7 39.4 40.1 39.7 39.0	1. 03 1. 03 1. 03 1. 03 1. 04 1. 04 1. 06 1. 00 1. 10
1951: January_	(2)	(2)	(2)	38.18	37.0	1.031	(2)	(2)	(2)	(2)	(2)	(2)	47. 50	39.	0 1.21	8 43. 27	7 38. 5	1.1

TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees 1—Con.

Avg. wkly. earnings \$51.00 51.50 52.03 53.37 52.42 50.89 49.25 51.18 50.84 50.84 50.84 50.85 50.96 50.96 50.96 50.96 50.96 50.96 50.96 50.96 50.96 50.96 50.96 50.96 40.96 50.96 50.96 50.96 50.96 40.96 50.96 4	Avg. wkly. hours 41.0 40.3 40.3 41.5 540.7 739.6 38.3 39.8 39.5 542.9 41.4 41.8 41.9 41.7	Avg. hrly. earnings \$1.244 1.278 1.291 1.286 1.288 1.286 1.286 1.306 1.309 1.359 1.392 1.400 1.416	Avg. wkly. earn-ings \$58.13 56.80 60.44 60.80 60.99 59.15 60.61 61.17 59.86 66.82 67.07 66.63	Avg., wkly. hours 42.0 39.5 41.4 41.5 41.5 41.5 41.4 41.5 642.4 42.1 41.8	Avg. hrly. earn-ings \$1.384 1.465 1.466 1.464 1.471 1.474 1.478 1.484 1.513 1.560 1.576 1.593 1.594	Avg. wkly. earnings \$58.09 56.23 61.41 61.62 61.81 60.48 61.99 60.07 61.46 62.19 66.36 66.63 66.46 66.86	Avg. wkly. hours 41. 7 38. 7 41. 3 41. 3 41. 4 40. 4 41. 2 41. 3 40. 7 40. 7 42. 0 41. 8 41. 2 41. 3	Avg. hrly. earnings \$1.393 1.453 1.453 1.497 1.492 1.498 1.500 1.594 1.613 1.619 Infacturit	Avg. wkly. earnings \$47.96 47.89 49.80 50.91 49.75 49.29 49.51.92 53.16 53.37 54.77 55.86 56.68 56.78		\$ Avg. hrly. earn-ings \$ 1, 208 1, 231 1, 245 1, 254 1, 255 1, 270 1, 282 1, 284 1, 305 1, 333 1, 355 1, 365	Avg. wkly. earn-ings \$49.17 49.21 53.44 53.03 44.84 40.02 48.72 52.69 52.19 54.44 50.87 50.48 51.98 60.56	Avg. wkly. hours 36. 5 35. 3 37. 5 37. 4 32. 9 29. 0 34. 6 37. 0 36. 7 38. 1 35. 8 35. 5 36. 1 39. 5	Avg. hrly. earn- ings \$1.347 1.394 1.425 1.418 1.363 1.408 1.402 1.421 1.422 1.429 1.421 1.422 1.429 1.421	fini prod Total othe	Avg. wkly. hours 36. 2 35. 8 36. 0 36. 7 36. 4 35. 2 36. 2 36. 7 36. 8 36. 0 36. 7 36. 8 36. 9 36. 9	rel and
Avg. wkly. earnings \$51.00 51.50 52.03 53.37 52.42 50.89 49.25 51.18 50.84 50.84 50.84 50.85 50.96 50.96 50.96 50.96 50.96 50.96 50.96 50.96 50.96 50.96 50.96 50.96 40.96 50.96 50.96 50.96 50.96 40.96 50.96 4	Avg. wkly. hours 41.0 40.3 40.3 40.3 41.5 40.7 7 40.7 39.6 6 38.3 39.8 42.9 42.6 41.4 41.8 41.9 41.7	\$ Avg. hrly. earn-ings \$ 1. 244 1. 278 1. 291 1. 286 1. 288 1. 285 1. 286 1. 287 1. 306 61. 309 1. 359 1. 392 1. 400 1. 416	Avg. wkly. earn-ings \$58.13 56.80 60.44 60.80 60.99 59.15 60.61 61.17 59.86 66.82 67.07 66.63	Avg. wkly. hours 42.0 39.5 41.4 41.5 41.6 42.4 42.1 41.8	Avg. hrly. earn- ings \$1.384 1.438 1.460 1.465 1.466 1.464 1.471 1.474 1.478 1.513 1.560 1.593 1.594 App	Avg. wkly. earnings \$58.09 56.23 61.41 61.62 61.81 60.48 61.99 60.07 61.46 62.19 66.36 66.63 66.46 66.86	Avg. wkly. hours 41. 7 38. 7 41. 3 41. 3 41. 4 40. 4 41. 2 2 41. 3 40. 1 40. 7 42. 0 41. 8 41. 2 41. 3 Manual other is s, collars, coll	Avg. hrly. earn-ings \$1.393 1.453 1.487 1.492 1.493 1.497 1.501 1.500 1.528 1.510 1.528 1.510 1.613 1.619 Infacturing the second of the secon	Avg. wkly. earnings \$47.96 47.89 49.80 50.91 49.75 49.29 49.95 51.44 51.92 53.16 53.37 54.77 55.88 56.64 56.78	Avg. wkly. hours 39.7 38.9 40.0 40.6 39.8 39.8 40.5 41.4 40.9 40.9 41.3 41.6	\$ Avg. hrly. earn-ings \$ 1, 208 1, 231 1, 245 1, 254 1, 255 1, 270 1, 282 1, 284 1, 305 1, 333 1, 355 1, 365	Avg. wkly. earn-ings \$49.17 49.21 53.44 53.03 44.84 40.02 48.72 52.69 52.19 54.44 50.87 50.48 51.98 60.56	36. 5 35. 3 37. 5 37. 4 32. 9 29. 0 36. 7 38. 1 35. 8 35. 5 36. 1 39. 5	Avg. hrly. earn- ings \$1.347 1.394 1.428 1.363 1.380 1.408 1.422 1.429 1.421 1.422 1.429 1.421 1.422	Avg. wkly. earnings \$42.79 41.89 42.70 44.48 43.50 40.80 41.27 41.89 43.22 46.06 43.09 45.51 44.50 45.93	Avg. wkly. hours 36. 2 35. 8 36. 0 36. 7 36. 4 35. 2 35. 8 36. 2 37. 6 35. 7 37. 3 36. 9 36. 6	Avg. hrly. earnings \$1.182 1.170 1.186 1.212 1.195 1.156 1.177 1.194 1.222 1.207 1.202
wkly.earn-ings \$51.00 -51.50 -52.03 -53.37 -52.42 -50.89 -49.25 -51.18 -50.84 -56.03 -55.76 -56.26 -58.19 -58.66 -59.05 Metasta	wkly.hours 41.0 40.3 40.3 41.5 40.7 39.6 38.3 39.8 39.8 42.9 42.6 41.4 41.8 41.7	hrly. earn- ings \$1. 244 1. 278 1. 291 1. 286 1. 285 1. 285 1. 286 1. 286 1. 306 1. 309 1. 359 1. 392 1. 400 1. 416	wkly.earn-ings \$58.13 56.80 60.44 60.80 60.99 59.15 60.61 61.17 59.86 61.44 62.94 66.46 66.82 67.07 66.63	wkly, hours 42.0 39.5 41.4 41.5 41.6 40.4 41.2 41.5 41.4 41.8 41.8	hrly. earn- ings \$1.384 1.438 1.460 1.465 1.464 1.471 1.474 1.474 1.513 1.560 1.576 1.593 1.594	wkly.earn-ings \$58.09 56.23 61.41 61.62 61.81 60.48 61.99 60.07 61.46 62.19 66.36 66.63 66.46 66.86	wkly. hours 41. 7 38. 7 41. 3 41. 3 41. 4 40. 4 41. 2 2 41. 3 40. 1 40. 7 42. 0 41. 8 41. 2 41. 3 Manual other is s, collain	hrly. earns \$1.393 1.453 1.487 1.492 1.493 1.497 1.501 1.498 1.510 1.528 1.580 1.594 1.613 1.619	wkly. earn- ings \$47. 96 47. 89 49. 80 50. 91 49. 75 49. 29 49. 95 51. 44 51. 92 53. 16 53. 37 54. 77 55. 88 56. 64 56. 78	wkly. hours 39.7 38.9 40.0 40.6 39.8 39.4 39.8 40.5 41.4 40.9 40.9 41.3 41.6	hrly. earn- ings \$1, 208 1, 231 1, 245 1, 254 1, 255 1, 270 1, 282 1, 282 1, 305 1, 353 1, 353 1, 355 1, 365	wkly.earn-ings \$49.17 49.21 53.44 53.03 44.84 40.02 52.69 52.19 54.44 50.87 50.48 51.98 60.56	36. 5 35. 3 37. 5 37. 4 32. 9 29. 0 34. 6 37. 0 36. 7 38. 1 35. 8 35. 5 36. 1 39. 5	hrly. earn- ings \$1.347 1.394 1.425 1.468 1.363 1.380 1.408 1.422 1.429 1.421 1.422 1.429 1.421	wkly.earn- ings \$42.79 41.89 42.70 44.48 43.50 41.27 41.89 43.22 46.06 43.09 45.51 44.50 45.93	wkly. hours 36. 2 35. 8 36. 0 36. 7 36. 4 35. 2 35. 7 35. 7 36. 2 37. 6 35. 7 37. 3 36. 9 36. 6	hrly. earn- ings \$1.182 1.170 1.186 1.212 1.159 1.159 1.159 1.150 1.170 1.194 1.225 1.200 1.255
51. 50 52. 03 53. 37 52. 32 50. 89 49. 25 51. 18 50. 84 50. 84 50. 84 50. 84 50. 84 50. 84 50. 84 50. 84 50. 84 50. 84 50. 84 50. 84 50. 84 50. 84 50. 84 50. 84 50. 84 50. 85 50. 86 50. 80 50. 80 60 60 60 60 60 60 60 60 60 60 60 60 60	40.3 40.3 41.5 40.7 39.6 38.3 39.8 39.5 42.9 41.4 41.8 41.7	1. 278 1. 291 1. 286 1. 288 1. 285 1. 286 1. 286 1. 309 1. 309 1. 359 1. 392 1. 400 1. 416	56. 80 60. 44 60. 80 60. 99 59. 15 60. 61 61. 17 59. 86 61. 44 62. 94 66. 46 66. 82 67. 07 66. 63	39. 5 41. 4 41. 5 41. 6 40. 4 41. 2 41. 5 40. 5 41. 4 41. 6 42. 4 42. 1 41. 8	1. 438 1. 460 1. 465 1. 466 1. 464 1. 471 1. 474 1. 478 1. 513 1. 560 1. 576 1. 593 1. 594	56. 23 61. 41 61. 62 61. 81 60. 48 61. 68 61. 99 60. 07 61. 46 62. 19 66. 36 66. 63 66. 46 66. 86	38.7 41.3 41.4 40.4 41.2 41.3 40.1 40.7 40.7 42.0 41.8 41.2 41.3	1. 453 1. 487 1. 492 1. 493 1. 497 1. 501 1. 510 1. 528 1. 580 1. 594 1. 613 1. 619	47. 89 49. 80 50. 91 49. 75 49. 29 51. 44 51. 92 53. 16 53. 37 54. 77 55. 88 56. 64 56. 78	38. 9 40. 0 40. 6 39. 8 39. 4 39. 8 40. 5 40. 5 41. 4 40. 9 41. 3 41. 8 41. 6	1, 231 1, 245 1, 254 1, 250 1, 251 1, 255 1, 270 1, 282 1, 305 1, 339 1, 353 1, 353 1, 355	49. 21 53. 44 53. 03 44. 84 40. 02 48. 72 52. 69 52. 19 54. 44 50. 87 50. 48 51. 98 59. 13 60. 56	35. 3 37. 5 37. 4 32. 9 29. 0 34. 6 37. 0 36. 7 38. 1 35. 8 35. 5 36. 1 39. 5	1. 394 1. 425 1. 418 1. 363 1. 380 1. 408 1. 424 1. 422 1. 429 1. 421 1. 422 1. 440 1. 497	41. 89 42. 70 44. 48 43. 50 40. 80 41. 27 41. 89 43. 22 46. 06 43. 09 45. 51 44. 50 45. 93	35. 8 36. 0 36. 7 36. 4 35. 2 35. 7 35. 8 36. 2 37. 6 35. 7 37. 3 36. 9 36. 6	1.170 1.186 1.212 1.195 1.156 1.170 1.194 1.225 1.207 1.220 1.255
53. 37 52. 42 50. 89 49. 25 51. 18 50. 84 56. 03 55. 76 56. 26 58. 19 58. 66 59. 05 Mer Sui	41. 5 40. 7 39. 6 38. 3 39. 8 39. 5 42. 9 41. 4 41. 8 41. 9 41. 7	1. 286 1. 288 1. 285 1. 286 1. 286 1. 287 1. 306 1. 309 1. 359 1. 392 1. 400 1. 416	60. 80 60. 99 59. 15 60. 61 61. 17 59. 86 61. 44 62. 94 66. 46 66. 82 67. 07 66. 63	41. 5 41. 6 40. 4 41. 2 41. 5 41. 4 41. 6 42. 6 42. 4 42. 1 41. 8	1. 465 1. 466 1. 464 1. 471 1. 474 1. 478 1. 484 1. 513 1. 560 1. 576 1. 593 1. 594	61, 62 61, 81 60, 48 61, 68 61, 99 60, 07 61, 46 62, 19 66, 36 66, 63 66, 46 66, 86	41.3 41.4 40.4 41.2 41.3 40.7 40.7 40.7 42.0 41.8 41.3	1. 492 1. 493 1. 497 1. 497 1. 501 1. 498 1. 510 1. 528 1. 594 1. 613 1. 619	50. 91 49. 75 49. 29 49. 95 51. 44 51. 92 53. 16 53. 37 54. 77 55. 88 56. 64 56. 78	40. 6 39. 8 39. 4 39. 8 40. 5 40. 5 41. 4 40. 9 41. 3 41. 8 41. 6	1. 254 1. 250 1. 251 1. 255 1. 270 1. 282 1. 284 1. 305 1. 339 1. 353 1. 353	53. 03 44. 84 40. 02 52. 69 52. 19 54. 44 50. 87 50. 48 51. 98 59. 13 60. 56	37. 4 32. 9 29. 0 34. 6 37. 0 36. 7 38. 1 35. 8 35. 5 36. 1 39. 5	1. 418 1. 363 1. 380 1. 408 1. 424 1. 422 1. 429 1. 421 1. 422 1. 440 1. 497	44. 48 43. 50 40. 80 41. 27 41. 89 43. 22 46. 06 43. 09 45. 51 44. 50 45. 93	36. 7 36. 4 35. 2 35. 7 35. 8 36. 2 37. 6 35. 7 37. 3 36. 9 36. 6	1. 212 1. 195 1. 159 1. 156 1. 170 1. 194 1. 225 1. 207 1. 220 1. 255
Mer sui	n's and its and o	boys' coats	Men's	s and bo	App	parel and	Man	ifacturi	ng—Cor	tinued			40.0	1.514	47.45	36. 9	1. 286
\$50.11 46.67	36. 6	coats	nish	ings an	ys' fur-	Shirt	other i	inished			s—Cont	inued					
\$50.11 46.67	36. 6	coats	nish	ings an	ys' fur-	Shirt	s, collar	rs, and	lextne p	products	-Cont	Inued			1		
46. 67		¢1 260		ning				ar	Sepa	arate tro	users	W	ork sh	irts	Wom	en's out	erwear
47. 72	34. 7		\$33.20	36.2		\$33. 50	26.1	\$0.928	\$35.31	35. 7	\$0.989	\$26.49	35. 7	\$0.742	\$51.49	35.1	\$1.46
49. 88 50. 81 47. 46 48. 92 48. 99 49. 22 51. 08 47. 75 51. 77 52. 57 55. 28	35. 4 37. 0 37. 5 35. 5 36. 7 36. 7 36. 9 37. 7 35. 4 37. 9 37. 9	1.345 1.348 1.355 1.337 1.333 1.355 1.349 1.366 1.387 1.474	33. 30 33. 63 35. 64 35. 62 35. 00 35. 29 35. 55 35. 34 37. 18 38. 38 38. 53 38. 58	36. 2 36. 2 36. 4 36. 2 35. 5 35. 9 36. 2 36. 1 38. 0 37. 4 38. 3 37. 7 37. 1	. 920 . 929 . 979 . 984 . 986 . 983 . 982 . 979 . 985 . 994 1. 002 1. 022 1. 040	33. 37 33. 43 35. 19 35. 40 35. 02 34. 81 34. 82 34. 55 36. 71 37. 20 38. 02 39. 35 39. 38	36. 0 35. 6 36. 2 36. 2 35. 7 35. 6 35. 4 37. 5 38. 4 38. 2 37. 4	. 927 . 939 . 972 . 978 . 981 . 975 . 978 . 976 . 979 . 992 . 990 1. 030 1. 053	34. 91 36. 47 39. 26 39. 77 39. 33 39. 31 39. 34 88. 52 40. 08 38. 45 40. 91 40. 32 40. 59	35. 7 36. 8 37. 9 38. 2 38. 0 38. 1 37. 9 37. 4 38. 5 36. 9 38. 7 38. 0 37. 1	. 978 . 991 1. 036 1. 041 1. 035 1. 045 1. 038 1. 030 1. 041 1. 042 1. 057 1. 061 1. 094	27. 44 27. 80 30. 55 30. 43 29. 75 31. 18 30. 66 31. 52 33. 00 33. 03 32. 95 32. 18 33. 12	35. 5 35. 6 35. 4 35. 3 34. 0 35. 8 35. 4 36. 1 37. 8 37. 2 36. 9 35. 6 9	. 773 . 781 . 863 . 862 . 875 . 871 . 866 . 873 . 873 . 888 . 893 . 904 . 920	49. 69 50. 86 52. 63 49. 67 46. 06 45. 57 49. 62 54. 01 46. 43 50. 94 48. 37 51. 96	34. 7 35. 0 35. 9 35. 4 34. 5 34. 6 33. 8 34. 7 36. 2 32. 2 34. 7 34. 6 35. 2	1. 43: 1. 45: 1. 46: 1. 33: 1. 31: 1. 35: 1. 43: 1. 44: 1. 46: 1. 39: 1. 47:
55. 09	37.1	1.485	38, 99	37.1	1.051	38, 90	36.7	1.060	42. 22	37. 7	1.120	33. 52	36.4	. 921	55. 27	36.1	1. 53:
					Anna	ral and					-Contin	ned					
Wor	men's d	resses	Hous	sehold a		Wome	en's suit	s, coats,	Wom	en's an	d chil-	Unde	itwear,	r and except	1	Milliner	У
	34. 8 34. 4	\$1.400 1.372	\$31. 59 32. 23	36. 1 36. 5	\$0.875 .883	\$70.60 66.38	35. 0 33. 8	\$2.017 1.964	\$35.32 35.79	36. 6 36. 6	\$0. 965 . 978	\$34.12 34.08	36.3 36.1	\$0. 940 . 944	\$50. 22 53. 55	34. 8 35. 3	\$1.443 1.51
48. 89 49. 37 49. 44 48. 71 45. 69 45. 53 50. 23 44. 37 47. 66 47. 37	35. 7 35. 3 34. 1 34. 7 35. 7 31. 9 33. 8 34. 2	1.379 1.385 1.380 1.340 1.312 1.407 1.391 1.410 1.385	34. 99 35. 31 32. 92 32. 27 34. 64 35. 28 36. 43 36. 64	37.4 37.5	. 970 . 977 . 972 . 957 . 964 . 974 . 977	66. 97 69. 83 60. 70 51. 19 50. 13 58. 41 66. 46 73. 26 57. 91 66. 25 60. 12 67. 11	32. 6 29. 1 29. 7 33. 9 35. 5 37. 0 30. 1 33. 8 32. 1	1. 930 1. 967 1. 862 1. 759 1. 688 1. 723 1. 872 1. 980 1. 924 1. 960 1. 873 1. 968	36. 58 37. 52 37. 87 36. 22 36. 15 36. 43 37. 13 40. 04 39. 95 41. 76 40. 96 39. 24	36. 8 37. 0 36. 8 35. 2 35. 2 35. 4 36. 3 38. 5 37. 8 39. 1 38. 1 36. 4	1. 029 1. 023 1. 040 1. 057 1. 068 1. 075		37. 6 38. 8 37. 6	1.020 1.035 1.044	55. 11 64. 36 62. 56 44. 91 46. 06 49. 72 50. 62 62. 08 53. 56 53. 27 47. 53 51. 93	36. 4 40. 2 39. 2 30. 7 31. 7 33. 1 33. 7 38. 8 33. 9 35. 0 31. 6	1. 514 1. 600 1. 596 1. 463 1. 503 1. 503 1. 600 1. 580 1. 503 1. 504
	49, 22 51, 08 47, 75 51, 77 55, 28 55, 09 Wo \$48, 72 47, 20 48, 30 49, 37 49, 47 49, 44 45, 69 45, 53 50, 23 41, 37 47, 48, 41 47, 47 48, 41 48, 41 4	Women's d \$48. 72	Women's dresses #48.72	Women's dresses Women's dresses ### 48.72 ### 48.89 ### 48.71	Momen's dresses	### ### ### ### ### ### ### ### ### ##	## ## ## ## ## ## ## ## ## ## ## ## ##	49. 22 36. 9 1. 334 35. 34 36. 1 979 34. 55 35. 4 51. 08 37. 7 1. 355 37. 43 38. 0 985 36. 71 37. 5 47. 75 35. 4 1. 349 37. 18 37. 4 994 37. 20 37. 5 51. 77 37. 9 1. 366 38. 38 38. 3 1. 002 38. 02 38. 4 52. 57 37. 9 1. 387 38. 53 37. 7 1. 022 39. 35 38. 2 55. 28 37. 5 1. 474 38. 58 37. 1 1. 040 39. 38 37. 4 55. 09 37. 1 1. 485 38. 99 37. 1 1. 040 39. 38 37. 4 Man Apparel and other fin Women's dresses Household apparel Women's suit and skir 48. 72 34. 8 \$1. 400 \$31. 59 36. 1 \$0. 875 \$70. 60 35. 0 47. 20 34. 4 1. 372 32. 23 36. 5 883 66. 38 33. 8 48. 30 34. 9 1. 384 31. 38 35. 1 894 66. 97 34. 7 48. 89 35. 4 1. 381 34. 95 37. 1 942 69. 83 35. 5 49. 37 35. 8 1. 379 35. 53 37. 4 950 60. 70 32. 6 49. 44 35. 7 1. 35. 3 1. 380 35. 31 36. 4 970 50. 13 29. 7 48. 71 35. 3 1. 380 35. 31 36. 4 970 50. 13 29. 7 48. 71 35. 3 1. 380 35. 31 36. 4 970 50. 13 29. 7 45. 69 34. 1 1. 340 32. 92 33. 7 977 58. 41 33. 9 45. 69 34. 1 1. 340 32. 92 33. 7 977 58. 41 33. 9 45. 60 33. 4 1. 312 32. 27 33. 2 972 66. 46 35. 5 50. 23 35. 7 1. 407 34. 64 36. 2 957 73. 26 37. 0 44. 37 31. 9 1. 391 35. 28 36. 6 904 57. 91 30. 1 47. 66 33. 8 1. 410 36. 43 37. 4 974 66. 25 33. 8 49. 81 36. 2 1. 415 35. 41 35. 8 989 67. 11 34. 1	## ## ## ## ## ## ## ## ## ## ## ## ##	49. 22 36. 9 1. 334 35. 34 36. 1 9.79 34. 55 35. 4 9.76 88. 52 51. 08 37. 7 1. 355 37. 43 38. 0 .985 36. 71 37. 5 .979 40. 08 47. 75 35. 4 1. 349 37. 18 37. 4 .994 37. 20 37. 5 .979 40. 08 51. 77 37. 9 1. 366 38. 38 38. 3 1. 002 38. 02 38. 4 .990 40. 91 52. 57 37. 9 1. 387 38. 53 37. 1 1. 040 39. 38 37. 4 1. 053 40. 59 55. 28 37. 5 1. 474 38. 58 37. 1 1. 040 39. 38 37. 4 1. 053 40. 59 55. 09 37. 1 1. 485 38. 99 37. 1 1. 051 38. 90 36. 7 1. 060 42. 22 Manufacturing—Cor Apparel and other finished textile property of the standard of th	49. 22 36. 9 1. 334 35. 34 36. 1 379 34. 55 35. 4 376 88. 52 37. 5 37. 4 38. 58 37. 7 1. 355 37. 43 38. 0 .985 36. 71 37. 5 .979 40. 08 38. 5 38. 5 37. 7 37. 5 .979 40. 08 38. 5 38. 3 1. 002 38. 02 38. 4 .990 40. 91 38. 7 38. 5 38. 3 38. 3 1. 002 38. 02 38. 4 .990 40. 91 38. 7 38. 5 37. 7 1. 022 39. 35 38. 2 1. 030 40. 32 38. 0 38. 3 37. 4 1. 053 40. 59 37. 1 38. 58 37. 1 1. 040 39. 38 37. 4 1. 053 40. 59 37. 1 38. 59 37. 1 1. 051 38. 90 36. 7 1. 060 42. 22 37. 7 37. 9 38. 7 38. 8 38. 3 37. 4 38. 59 37. 1 38. 90 36. 7 38. 90 36. 7 38. 90 38. 7 38. 90 38. 7 38. 90 38. 7 38. 90 38. 7 38. 90 38. 7 38. 90 38. 7 38. 90 38. 7 38. 90 38. 7 38. 90 38. 7 38. 90 38. 7 38. 90 38. 90 38. 7 38. 90	49. 22 36. 9 1.334 35. 34 36. 1 979 34. 55 35. 4 976 88. 52 37. 4 1.030 1.	Manufacturing	## ## ## ## ## ## ## ## ## ## ## ## ##	49, 22 36, 9 1, 334 35, 34 36, 1 979 34, 55 35, 4 976 88, 52 37, 4 1, 030 31, 52 36, 1 873 51, 08 37, 7 1, 355 37, 4 38, 0 985 36, 71 37, 5 979 40, 09 38, 5 1, 041 33, 00 37, 8 873 47, 75 35, 4 1, 349 37, 18 37, 4 994 37, 20 37, 5 992 38, 45 36, 9 1, 042 33, 03 37, 2 888 52, 57 37, 9 1, 386 38, 38 38, 38 31, 002 38, 02 38, 4 990 40, 91 38, 7 1, 057 32, 95 36, 9 893 52, 57 37, 9 1, 387 38, 83 37, 7 1, 022 39, 35 38, 2 1, 030 40, 39 37, 1 1, 094 33, 12 36, 0 920 55, 28 37, 5 1, 474 38, 88 37, 1 1, 040 39, 38 37, 4 1, 053 40, 99 37, 1 1, 094 33, 12 36, 0 920 55, 09 37, 1 1, 485 38, 99 37, 1 1, 051 38, 90 36, 7 1, 060 42, 22 37, 7 1, 120 33, 52 36, 4 921 Manufacturing—Continued Apparel and other finished textile products—Continued Women's dresses Household apparel Women's suits, coats, and skirts Women's and childern's undergar ments Undergar ments **48, 72 34, 8 1, 400 \$31, 59 36, 1 \$0, 875 \$70, 60 35, 0 \$2, 017 \$35, 32 36, 6 \$9, 965 \$34, 12 36, 3 \$0, 940 47, 20 34, 4 1, 372 32, 23 36, 5 883 66, 38 33, 8 1, 964 35, 79 36, 6 978 34, 08 36, 1 944 48, 30 34, 9 1, 384 31, 38 35, 1 894 66, 97 34, 7 1, 930 36, 58 38, 8 994 34, 78 36, 5 953 48, 89 35, 4 1, 381 34, 95 37, 1 942 69, 83 35, 5 1, 967 37, 52 37, 0 1, 014 36, 03 36, 5 367 49, 37 35, 8 1, 387 35, 5 37, 4 9, 90 60, 70 32, 6 1, 862 37, 73 36, 8 1, 292 35, 6 36, 0 914 49, 44 35, 7 1, 385 34, 99 36, 6 956 51, 19 29, 1 1, 759 36, 22 35, 2 1, 029 34, 09 34, 3 94 48, 71 35, 3 1, 380 35, 31 36, 4 970 50, 13 29, 7 1, 688 36, 1 36, 22 35, 2 1, 029 34, 09 34, 3 94 49, 37 35, 8 1, 380 35, 31 36, 4 970 50, 13 29, 7 1, 688 36, 1	49, 22 36, 9 1,334 36, 14 36, 1 979 34, 55 36, 4 976 88, 52 37, 4 1,030 31,52 36, 1 8.73 49, 62 51,08 37,7 1,355 37,43 38,0 985 36,71 37,5 979 40,08 38,5 1,041 33,00 37,8 8.73 54,011 47,75 35,4 1,349 37,18 37,4 994 37,20 37,5 992 38,45 36,9 1,042 33,03 37,2 888 46,43 51,77 37,9 1,366 38,38 38,3 1,002 38,02 38,4 990 40,32 38,7 1,057 32,95 36,9 9893 50,94 52,57 37,9 1,387 38,53 37,7 1,022 39,35 38,2 1,030 40,32 38,0 1,061 32,18 35,6 904 48,37 55,28 37,5 1,474 38,58 37,1 1,040 39,38 37,4 1,053 40,59 37,1 1,094 33,12 36,0 920 51,96 55,09 37,1 1,485 38,99 37,1 1,051 38,90 36,7 1,060 42,22 37,7 1,120 33,52 36,4 921 55,27 Manufacturing—Continued Apparel and other finished textile products—Continued Women's dresses Household apparel Women's suits, coats, and skirts Women's and children's undergar undergar undergar undergar corsets	49, 22 36, 9 1,334 35, 34 36, 1 .979 34, 55 35, 4 .976 s8, 52 37, 4 1,030 31,52 36, 1 .873 49,62 34,7 51,08 37,7 1,355 37,43 38,0 .985 36,71 37,5 .997 40,08 38,5 1,041 33,00 37,8 .873 54,01 36,2 47,75 35,4 1,349 37,18 37,4 .994 37,20 37,5 .992 38,45 36,9 1,042 33,00 37,2 .888 46,43 32,2 51,77 37,9 1,387 38,83 37,7 1,022 39,35 38,4 .990 40,91 38,7 1,057 32,25 56,0 .893 50,94 34,7 52,57 37,9 1,387 38,83 37,7 1,022 39,35 38,2 1,030 40,32 38,0 1,061 32,18 35,6 .904 48,37 34,6 55,28 37,5 1,474 38,58 37,1 1,040 39,38 37,4 1,053 40,59 37,1 1,094 33,12 36,0 .920 51,96 35,2 55,09 37,1 1,485 38,99 37,1 1,051 38,90 36,7 1,060 42,22 37,7 1,120 33,62 36,4 .921 55,27 36,1 Manufacturing—Continued **Momen's dresses** Household apparel** **Women's suits, coats, and skirts** **Women's undergar-ments** **Women's undergar-ments** **Women's and childers undergar-ments** **Women's and childers undergar-ments** **Women's and childers undergar-ments** **Women's and childers undergar-ments** **A4,720 34,4 1,372 32,23 36,5 883 66,38 33,8 1,964 35,79 36,6 .978 34,08 36,1 .944 53,55 35,3 48,80 34,9 1,384 31,38 35,1 .894 66,97 34,7 1,300 36,58 37,0 1,014 36,03 36,5 .987 64,36 40,24 48,80 35,4 1,381 34,95 37,1 1,42 69,83 35,5 1,677 37,52 37,0 1,014 36,03 36,5 .987 61,36 49,94 48,77 35,88 1,313 34,95 37,1 1,42 69,83 35,5 1,677 36,22 37,0 1,014 36,03 36,5 .987 64,36 40,24 49,44 35,7 1,312 32,27 33,2 .972 66,46 35,5 1,872 37,5 36,28 37,4 1,027 36,48 36,59 36,60 .999 62,56 39,2 47,66 38,8 34,10 36,48 37,4 36,48 37,4 37,4 36,59 37,4 36,48 37,4 36,59 37,4 36,59 37,4 36,60 39,50 33,60 33,60

TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees 1—Con.

								Manuf	acturing	Cont	inued							
				A	pparel	and oth	er finish	ned text	lle prod	ucts—Co	ontinue	d				prod	oer and ucts (ex irniture	cept
Year and month	Childr	en's ou	terwear		oods an neous a		Othe	er fabric ile prod	eated ucts		rtains a Iraperie		Te	extile ba	gs	wood	Lumbe product furnitu	s (ex-
	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings												
1948: Average 1949: Average	\$36.72 37.06	36. 5 36. 3	\$1.006 1.021	\$42. 21 42. 05	36. 7 36. 0	\$1. 150 1. 168	\$38. 49 39. 74	38. 0 38. 1	\$1.013 1.043							\$51.38 51.72	41. 5 40. 6	\$1. 238 1. 274
1950: January	38. 25 40. 28 38. 76 35. 97 37. 46 38. 08 39. 13 40. 92 38. 12 40. 48 39. 29 39. 78	36. 5 37. 3 36. 5 35. 3 36. 4 36. 6 37. 2 35. 3 37. 0 37. 0 36. 1	1. 048 1. 080 1. 062 1. 019 1. 029 1. 049 1. 100 1. 080 1. 094 1. 062 1. 102	40. 23 40. 50 40. 76 39. 33 41. 70 42. 59 43. 86 45. 84 44. 59 47. 91 46. 05 45. 25	35. 6 36. 1 36. 1 34. 9 35. 7 35. 7 36. 4 38. 2 37. 1 38. 7 37. 5 37. 0	1. 130 1. 122 1. 129 1. 127 1. 168 1. 193 1. 205 1. 200 1. 202 1. 238 1. 228 1. 223	40. 99 40. 84 40. 32 39. 81 40. 77 42. 21 42. 61 43. 43 43. 88 43. 45 42. 86 43. 62	38. 2 38. 1 37. 4 37. 1 37. 4 38. 3 38. 7 39. 0 38. 1 38. 2	1. 073 1. 072 1. 078 1. 073 1. 090 1. 102 1. 101 1. 105 1. 131 1. 114 1. 125 1. 142	\$37, 33 39, 82 38, 31 39, 20	36, 6 38, 4 36, 8 37, 4	\$1,020 1,037 1,041 1,048	\$43.93 44.19 43.30 44.09	39. 4 39. 6 38. 9 39. 3	\$1, 115 1, 116 1, 113 1, 122	48. 02 50. 55 52. 24 53. 36 54. 38 56. 28 56. 27 58. 30 57. 84 58. 83 57. 03 56. 11	39. 2 39. 8 40. 4 40. 7 40. 7 41. 6 41. 1 42. 0 41. 2 41. 9 41. 0 40. 9	1, 225 1, 270 1, 293 1, 311 1, 336 1, 369 1, 388 1, 404 1, 404 1, 391 1, 372
1951: January	41.76	36. 7	1.138	45. 35	36. 4	1. 246	44. 35	38.7	1. 146	39. 60	37.5	1.056	44. 83	39. 5	1.135	54. 94	40. 4	1. 360
								Manu	facturin	g—Cont	inued							
					_	Lumbe	er and v	vood pr	oducts (except f	urnitur	e)—Con	tinued					
		ng camp ntracto			ills and		Un	ited Sta		ills and	South	mills, g	eneral	West		and	ork, pl prefabr ctura ucts	icated
	\$60. 26 61. 31	38.7 39.1	\$1.557 1.568	\$51. 83 52. 37	41. 5 40. 6	\$1. 249 1. 290	\$51.87 53.06	41. 4 40. 6	\$1. 253 1. 307	\$35.66	42.1	\$0.847	\$67.12	38.8	\$1.730	\$54.95 55.06	43.3 41.9	\$1. 269 1. 314
1950: January	50. 23 54. 86 62. 94 65. 31 67. 37 67. 85 68. 04 73. 98 70. 07 70. 31 65. 40 61. 60	37. 4 37. 6 38. 4 39. 2 39. 7 39. 7 39. 4 41. 1 38. 8 38. 8 37. 2 37. 4	1. 343 1. 459 1. 639 1. 666 1. 697 1. 709 1. 727 1. 800 1. 806 1. 812 1. 758 1. 647	47. 38 50. 59 51. 85 53. 10 54. 19 56. 08 55. 95 57. 95 57. 69 58. 56 56. 53 55. 27	38. 3 39. 4 40. 1 40. 5 40. 5 41. 6 40. 9 41. 9 41. 8 40. 7 40. 4	1. 237 1. 284 1. 293 1. 311 1. 338 1. 348 1. 368 1. 407 1. 401 1. 389 1. 368	47. 77 51. 17 52. 31 53. 73 54. 86 56. 95 56. 67 58. 49 59. 34 57. 15 55. 74	38. 0 39. 3 39. 9 40. 4 40. 4 41. 6 40. 8 41. 6 40. 9 41. 7 40. 5 40. 1	1. 257 1. 302 1. 311 1. 330 1. 358 1. 369 1. 389 1. 406 1. 430 1. 423 1. 411 1. 390	35. 34 36. 90 37. 13 37. 97 38. 11 39. 19 38. 98 40. 13 39. 63 41. 25 40. 34 40. 05	40. 9 40. 5 40. 8 41. 5 41. 6 42. 5 42. 1 43. 2 42. 2 43. 6 42. 6 42. 2	.864 .911 .910 .915 .916 .922 .926 .929 .939 .946 .947	58. 34 64. 14 66. 43 67. 82 69. 07 73. 93 72. 74 74. 28 74. 33 74. 82 72. 96 71. 67	34. 4 37. 4 38. 8 39. 0 39. 0 40. 4 39. 3 40. 0 39. 1 39. 4 38. 5 38. 0	1. 696 1. 715 1. 712 1. 739 1. 771 1. 830 1. 851 1. 857 1. 901 1. 899 1. 895 1. 886	56. 14 57. 04 57. 74 59. 00 59. 25 61. 27 59. 85 61. 55 62. 06 63. 71 63. 12 6-2. 15	42. 4 42. 5 42. 9 43. 0 43. 7 42. 9 43. 5 43. 4 44. 0 43. 5 43. 7	1. 324 1. 342 1. 346 1. 372 1. 378 1. 402 1. 495 1. 415 1. 448 1. 451
1951: January	57.84	36. 4	1. 589	54.32	40.0	1. 358	54. 67	39. 7	1. 377	(2)	(2)	(2)	(2)	(2)	(2)	62.73	42.7	1, 469
	-									ng—Con	tinued							
			Lumbe	er and w	ood pro	ducts (e	except fo	ırniture)—Con	tinued				Fur	niture a	nd fixtu	ires	
]	Millwor	k	Wood	len cont	tainers	Wood	en boxe han cig	s, other ar		llaneou product			d: Furn nd fixtu		House	ehold fu	rniture
1948: Average 1949: Average	\$53.40 54.23	43. 2 42. 2	\$1. 236 1. 285	\$41.57 41.90	41. 4 40. 6	\$1.004 1.032	\$42.39 42.48	42. 1 41. 0	\$1.007 1.036	\$44.06 44.16	42. 0 40. 7	\$1.049 1.085	\$48.99 49.48	41. 1 40. 1	\$1. 192 1. 234	\$46.76 47.04	40. 8 39. 8	\$1.146 1.182
1950: January February March April May June July August September October November December	56. 49 57. 56	42.9 42.4 42.7 42.7 42.9 43.7 43.1 43.1 43.4 43.9 43.6 43.4	1. 307 1. 315 1. 323 1. 348 1. 366 1. 359 1. 378 1. 397 1. 408 1. 411 1. 427	41. 27 42. 82 42. 85 43. 81 44. 47 46. 48 47. 68 48. 10 47. 50 48. 74 48. 50 48. 47	39.8 39.5 39.6 39.9 40.1 40.7 41.0 41.5 40.7 41.8 41.7	1. 037 1. 084 1. 082 1. 109 1. 142 1. 163 1. 159 1. 167 1. 166 1. 163 1. 168	41.94 43.05 43.30 44.87 44.79 47.13 48.40 48.57 47.64 49.31 49.16 49.59	40. 4 39. 9 40. 2 41. 2 40. 9 41. 6 41. 8 42. 2 41. 5 42. 8 42. 6 42. 9	1. 038 1. 079 1. 077 1. 089 1. 095 1. 133 1. 158 1. 151 1. 148 1. 152 1. 154 1. 156	43. 85 44. 69 44. 91 45. 33 44. 89 46. 16 46. 88 48. 35 49. 10 49. 80 50. 07 50. 08	40.3 40.3 40.5 40.8 40.3 41.1 41.3 42.3 42.4 42.6 42.5 42.3	1. 088 1. 109 1. 109 1. 111 1. 114 1. 123 1. 135 1. 143 1. 158 1. 169 1. 178 1. 184	51. 13 52. 29 52. 17 51. 67 51. 50 52. 50 52. 03 54. 87 55. 42 56. 27 56. 87 56. 59	41. 1 41. 7 41. 7 41. 3 41. 2 41. 8 41. 0 42. 8 42. 6 42. 6 42. 6	1. 244 1. 254 1. 251 1. 251 1. 250 1. 256 1. 269 1. 282 1. 301 1. 321 1. 335 1. 341	49. 36 50. 87 50. 70 49. 85 50. 14 50. 71 49. 53 52. 91 53. 84 54. 57 55. 30 54. 65	41. 2 41. 9 41. 9 41. 2 41. 4 41. 7 40. 6 42. 7 42. 7 42. 7 42. 7 42. 7	1. 198 1. 214 1. 216 1. 217 1. 218 1. 228 1. 238 1. 267 1. 298 1. 298
1951: January	60. 42	42.4	1. 425	48. 25	41.2	1. 171	49. 23	42.4	1. 161	50. 56	42.2	1. 198	56. 63	41.7	1.358	54, 24	41.5	1.30

TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees 1—Con.

								Manu	facturii	ng—Con	tinued							
				F	urnitur	and fix	tures—	Continu	ed					Pape	er and a	llied pro	ducts	
Year and month	furn	od house liture, e pholster	xcept	Wood	househ	old fur- lstered		ttresses edsprin			er furni nd fixtu		Tota alli	d: Pape	r and ucts	Pulp	o, paper erboard	, and mills
	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings
1948: Average 1949: Average	\$43. 84 43. 68	41. 2 40. 0	\$1.064 1.092	\$50.33 50.18	40. 1 38. 9	\$1. 255 1. 290	\$50.85 51.69	40. 1 39. 7	\$1. 268 1. 302	\$54. 59 55, 47	41.7 40.7	\$1.309 1.363	\$55. 25 55. 96	42.8 41.7	\$1. 291 1. 342	\$59. 88 59. 83	44. 0 42. 4	\$1.361 1.411
1950: January February March April May June July August. September October November December	46. 40 47. 17 47. 52 46. 44 49. 19 49. 97 51. 39 51. 58 51. 12	41. 7 42. 0 42. 3 41. 5 42. 0 42. 2 41. 1 43. 0 43. 4 43. 2 42. 6	1. 105 1. 112 1. 116 1. 118 1. 123 1. 126 1. 130 1. 144 1. 162 1. 184 1. 194 1. 200	52. 78 54. 95 54. 60 54. 42 54. 42 54. 54 52. 87 56. 66 58. 61 60. 49 60. 65 60. 51	40. 2 41. 5 40. 9 40. 7 40. 7 40. 7 39. 9 42. 0 42. 5 42. 2	1. 313 1. 324 1. 335 1. 337 1. 337 1. 340 1. 325 1. 349 1. 379 1. 410 1. 427 1. 434	54. 54 57. 43 57. 03 54. 28 53. 97 55. 57 54. 31 58. 42 59. 59 57. 69 61. 70 60. 61	40.7 41.8 41.6 40.0 39.8 40.8 39.7 42.3 40.8 42.0 41.4	1. 340 1. 374 1. 371 1. 357 1. 356 1. 362 1. 368 1. 381 1. 412 1. 414	56. 13 56. 28 56. 14 56. 52 55. 41 57. 60 58. 86 60. 24 59. 71 61. 24 61. 25 61. 97	41. 0 41. 2 41. 1 41. 5 40. 8 42. 2 42. 1 43. 0 42. 2 42. 5 42. 3 42. 5	1. 369 1. 366 1. 366 1. 362 1. 358 1. 365 1. 398 1. 401 1. 415 1. 441 1. 448 1. 458	57. 56 57. 80 58. 06 58. 20 58. 08 60. 03 61. 36 62. 74 63. 10 63. 27 64. 92 66. 29	42. 2 42. 5 42. 6 42. 3 42. 3 43. 0 43. 3 44. 0 44. 0 44. 1 44. 4	1. 364 1. 360 1. 363 1. 376 1. 373 1. 396 1. 417 1. 426 1. 434 1. 438 1. 472 1. 493	61. 62 61. 71 61. 89 62. 42 61. 82 64. 21 65. 74 66. 99 66. 89 67. 20 69. 00 70. 67	43. 0 43. 4 43. 4 43. 2 43. 2 43. 8 44. 0 44. 6 44. 3 44. 5 44. 4 44. 9	1. 433 1. 422 1. 421 1. 444 1. 43 1. 460 1. 500 1. 510 1. 550 1. 574
1951: January	51. 15	42.2	1. 212	56. 99	39.8	1. 432	61. 46	Manu	facturir	62. 94 ng—Con		1.490	00.00	40.0	1.004	10.00	11.0	1.002
	Par	per and	allied p	roducts-	-Conti	nued						olishing	, and all	lied ind	ustries			
	Pap	erboard ers and	con- boxes	Othe	er paper	r and ucts	Tota pub allie	al: Prin lishing, d indus	ting, and tries	N	ewspap	ers	P	eriodica	als		Books	
1948: Average 1949: Average	\$50.96 52.45	41. 7 41. 2	\$1, 222 1, 273	\$49. 48 51. 07	41.3 40.6	\$1. 198 1. 258	\$66. 73 70. 28	39. 3 38. 7	\$1.698 1.816	\$74.00 78.37	37. 6 37. 3	\$1.968 2.101	\$69. 55 70. 21	40. 6 38. 9	\$1.713 1.805	\$57.43 61.07	38. 7 38. 6	\$1.484 1.585
1950: January February March April May June July August September October November December	53. 57 54. 17 54. 77 54. 73 54. 74 56. 62 57. 70 59. 75 60. 96 61. 18 62. 16 63. 79 62. 64	41. 4 41. 7 42. 0 41. 4 41. 5 42. 6 42. 9 44. 0 44. 3 44. 4 44. 7	1. 294 1. 299 1. 304 1. 305 1. 319 1. 329 1. 345 1. 376 1. 378 1. 400 1. 427	52. 69 53. 03 53. 20 53. 27 53. 35 54. 59 55. 36 56. 79 57. 06 57. 11 59. 07 60. 04	41, 2 41, 4 41, 5 41, 2 41, 2 41, 7 42, 0 42, 7 42, 9 42, 4 42, 9 43, 1	1. 279 1. 281 1. 282 1. 293 1. 295 1. 309 1. 318 1. 330 1. 347 1. 377 1. 393	70. 49 70. 75 72. 14 72. 18 72. 64 72. 72 72. 30 73. 17 74. 48 74. 22 74. 52 76. 38	38. 5 38. 2 38. 6 38. 7 38. 7 38. 7 38. 5 39. 2 39. 0 39. 2 39. 8	1. 831 1. 852 1. 869 1. 870 1. 877 1. 879 1. 878 1. 881 1. 900 1. 903 1. 901 1. 919	76. 43 76. 38 78. 42 79. 88 81. 05 80. 76 79. 20 78. 84 81. 11 81. 07 82. 29 85. 27	36. 5 36. 3 36. 8 37. 1 37. 3 37. 2 36. 6 36. 5 36. 9 36. 8 37. 2 38. 1	2. 094 2. 104 2. 131 2. 153 2. 173 2. 171 2. 164 2. 160 2. 198 2. 203 2. 212 2. 238 2. 206	69. 94 72. 15 74. 12 72. 41 71. 60 71. 92 72. 83 75. 08 79. 98 77. 33 76. 07 76. 38	38. 6 39. 3 39. 7 39. 1 38. 6 39. 0 39. 2 39. 6 41. 1 40. 4 39. 7 39. 7	1. 812 1. 836 1. 867 1. 852 1. 855 1. 844 1. 858 1. 896 1. 946 1. 914 1. 914 1. 924	61. 76 60. 50 62. 79 64. 05 64. 33 64. 11 63. 34 67. 31 64. 70 64. 16 64. 52 66. 50	38. 1 37. 3 38. 5 39. 2 39. 3 39. 5 39. 0 40. 5 39. 5 39. 1 39. 7	1. 62 1. 63 1. 63 1. 63 1. 62 1. 62 1. 66 1. 63 1. 64 1. 65 1. 67
								Manu	facturir	ng—Con	tinued							
		Printing	g, publi	shing, a	nd allie	d indust	ries—C	ontinue	1			Che	emicals	and alli	ed prod	ucts		
	Comm	nercial p	orinting	Lit	hograpl	ning	Other	printir ublishir	g and	Tota and a	l: Cher llied pre	nicals oducts	Indus	trial inc	organic ls		strial or chemica	
1948: Average 1949: Average	\$66.33 69.44	40.3 39.7	\$1.646 1.749	\$64. 15 69. 17	39. 5 39. 3	\$1.624 1.760	\$59, 93 62, 66	39. 3 38. 7	\$1.525 1.619	\$56. 23 58. 63	41. 5 41. 0	\$1,355 1,430	\$62. 13 63. 90	40. 9 40. 6	\$1.519 1.574	\$57.69 60.83	40. 4 39. 5	\$1.42 1.54
1950: January February March April May June July August September October November December	70.80 70.70 71.56 70.88 71.68 71.79 71.95 72.38 73.61 73.78 73.42 75.65	40.0 39.3 39.6 39.4 39.8 39.6 40.1 40.6 39.9 40.1 41.0	1. 770 1. 799 1. 807 1. 799 1. 801 1. 813 1. 817 1. 805 1. 813 1. 849 1. 831 1. 845	69. 03 70. 07 71. 34 71. 58 71. 74 72. 23 73. 11 76. 22 75. 67 76. 09 74. 89 75. 30	38. 5 38. 8 39. 2 39. 2 39. 6 39. 8 41. 2 40. 9 41. 4 40. 9 41. 1	1. 793 1. 806 1. 820 1. 826 1. 807 1. 824 1. 837 1. 850 1. 850 1. 838 1. 831 1. 832	64. 48 64. 77 65. 16 64. 54 63. 39 64. 00 64. 58 65. 82 65. 90 66. 59 67. 16	39. 2 38. 9 38. 9 38. 3 38. 6 39. 0 39. 2 38. 9 39. 5 39. 9 40. 0	1, 645 1, 665 1, 675 1, 659 1, 655 1, 656 1, 679 1, 694 1, 663 1, 669 1, 679	60. 05 59. 96 60. 09 60. 56 61. 18 62. 39 62. 99 63. 48 64. 16 64. 55 65. 52 66. 43	41. 3 41. 1 41. 1 41. 2 41. 2 41. 4 41. 2 41. 6 41. 8 42. 0 42. 0 42. 1	1. 454 1. 459 1. 462 1. 470 1. 485 1. 507 1. 529 1. 526 1. 535 1. 537 1. 560 1. 578	64. 64 65. 12 65. 48 65. 77 65. 85 65. 32 68. 85 68. 97 68. 24 71. 13 71. 91 72. 63	40. 2 40. 7 40. 8 40. 9 40. 7 39. 9 41. 2 41. 6 40. 4 41. 4 41. 4	1. 608 1. 600 1. 605 1. 608 1. 618 1. 637 1. 671 1. 658 1. 718 1. 737 1. 746	63. 63 62. 64 62. 56 63. 12 63. 91 65. 16 66. 02 65. 85 67. 52 67. 98 69. 34 69. 50	40.3 40.0 40.0 40.1 40.5 40.8 40.7 40.7 40.8 40.9 41.2 41.1	1. 577 1. 56 1. 56 1. 57 1. 57 1. 62 1. 61 1. 65 1. 68 1. 69
1951: January	74.02	40.1	1.846	73.75	39.8	1.853	67.44	40.0	1.686	66. 87	41.9	1. 596	73. 21	41.2	1.777	70.06	40.9	1.71

TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees 1—Con.

								Manu	facturin	g—Con	tinued							
							Chem	icals an	d allied	product	s-Con	tinued						
Year and month		cs, excep etic rub		Synt	hetic ru	ibber	Syn	thetic fi	bers	Drugs	and me	dicines	Pain an	ts, pign nd filler	nents,	F	ertilizer	'S
	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings
1948: Average 1949: Average	\$58. 75 60. 36	41. 4 40. 4	\$1.419 1.494	\$62. 88 66. 74	39. 9 39. 8	\$1. 576 1. 677	\$53.05 55.20	39. 5 38. 6	\$1.343 1.430	\$53. 71 56. 60	40. 6 40. 4	\$1.323 1.401	\$58. 40 59. 78	42. 2 41. 0	\$1.384 1.458	\$42.33 44.72	41. 5 41. 6	\$1.020 1.078
1950: January. February. March April. May June. July August September. October. November December	63. 84 61. 96 62. 36 62. 53 63. 37 65. 23 66. 41 65. 07 67. 48 67. 83 69. 20 70. 01	42. 0 40. 9 41. 0 41. 2 42. 0 42. 6 41. 5 42. 6 42. 0 42. 4 42. 1	1. 520 1. 515 1. 521 1. 525 1. 538 1. 553 1. 559 1. 568 1. 584 1. 615 1. 632 1. 663	68. 48 68. 22 68. 93 70. 96 70. 48 70. 78 72. 52 71. 52 72. 58 72. 16 76. 63 77. 60	39. 7 40. 2 40. 5 41. 4 41. 0 40. 7 40. 4 41. 2 40. 3 41. 0 41. 2 41. 7	1. 725 1. 697 1. 702 1. 714 1. 719 1. 739 1. 735 1. 736 1. 801 1. 760 1. 860 1. 861	56. 45 55. 99 55. 97 56. 52 57. 35 57. 76 57. 81 58. 99 59. 94 60. 45 61. 10 61. 45	39. 2 39. 1 39. 0 38. 9 39. 5 39. 4 38. 9 39. 3 39. 2 39. 2 39. 6 39. 8	1. 440 1. 432 1. 435 1. 453 1. 452 1. 466 1. 501 1. 529 1. 542 1. 543 1. 544	57. 37 58. 04 58. 53 58. 67 58. 75 59. 27 58. 47 59. 68 60. 19 61. 12 62. 00 62. 91	40. 6 40. 7 40. 9 40. 8 41. 1 40. 1 40. 6 41. 2 41. 3 41. 5	1, 413 1, 426 1, 431 1, 438 1, 440 1, 442 1, 458 1, 470 1, 461 1, 480 1, 494 1, 516	61. 21 61. 98 62. 38 62. 89 63. 53 64. 91 64. 86 66. 99 67. 35 67. 45 66. 79 66. 78	41. 0 41. 4 41. 7 41. 9 42. 3 42. 9 42. 5 43. 5 43. 2 42. 8 42. 3 42. 0	1. 493 1. 497 1. 496 1. 501 1. 502 1. 513 1. 526 1. 540 1. 559 1. 576 1. 579 1. 590	44. 80 44. 40 44. 84 46. 44 47. 92 49. 52 49. 20 47. 83 48. 18 46. 80 47. 31 48. 76	40.8 40.7 41.1 41.8 41.6 42.0 41.8 41.2 41.5 40.8 41.5	1. 099 1. 091 1. 111 1. 152 1. 177 1. 177 1. 16 1. 16 1. 144 1. 155 1. 177
1951: January	71.82	42.7	1. 682	76. 92	41.0	1.876	61, 66	39. 6	1. 557	63. 58	41.5	1. 532	68.34	42. 5	1.608	49.80	42. 2	1, 18
		a	1	1 . 1	V - 1	14-	G		facturir	ng—Con	tinued	- P				,		
	Vogo	table an	hemical	1	chemic					Tota	l: Prodi			f petrole				
		oils and		alli	ed prod	ucts	Soap	and gly	cerin		leum ar		Petro	oleum re	efining	Coke	and by	roduct
1948: Average 1949: Average	\$50.39 51.12	47. 4 47. 2	\$1.063 1.083	\$57. 90 60. 67	41. 3 40. 8	\$1.402 1.487	\$65. 90 66. 54	42. 0 40. 9	\$1.569 1.627	\$69, 23 72, 36	40. 7 40. 4	\$1.701 1.791	\$72.06 75.33	40. 3 40. 2	\$1.788 1.874	\$58. 56 61. 07	39. 7 39. 3	\$1.47 1.55
1950: January. February. March. April. May. June. July. August. September. October. November. December.	50. 71 50. 82 51. 57 52. 82 53. 87 55. 46 55. 11 55. 03 54. 41 55. 58 56. 75	47. 2 45. 2 44. 5 44. 3 44. 2 43. 9 43. 6 44. 3 45. 9 47. 6 46. 9 46. 9	1. 057 1. 122 1. 142 1. 164 1. 195 1. 227 1. 272 1. 244 1. 199 1. 143 1. 185 1. 210	62. 79 62. 62 62. 87 62. 82 62. 28 63. 38 63. 29 64. 62 66. 13 66. 24 66. 89 68. 62	41. 2 41. 2 41. 3 41. 0 41. 4 41. 1 41. 8 42. 2 41. 9 41. 7 42. 1	1. 524 1. 520 1. 526 1. 521 1. 519 1. 531 1. 540 1. 567 1. 581 1. 604 1. 630	68. 14 68. 51 69. 50 68. 88 68. 74 69. 96 69. 99 74. 08 74. 99 74. 59 75. 85 77. 96	40. 9 41. 1 41. 2 40. 9 40. 7 41. 2 41. 0 42. 7 43. 0 42. 5 42. 4 43. 0	1. 666 1. 667 1. 687 1. 684 1. 689 1. 707 1. 735 1. 744 1. 755 1. 789 1. 813	73. 79 71. 64 71. 54 73. 85 73. 28 74. 37 76. 09 73. 73 76. 77 77. 71 78. 32 79. 10	40. 7 39. 8 39. 7 40. 8 40. 6 41. 0 41. 6 41. 7 41. 6 41. 2 41. 2	1. 813 1. 800 1. 802 1. 810 1. 805 1. 814 1. 829 1. 816 1. 841 1. 868 1. 901 1. 920	77. 41 74. 84 74. 88 77. 11 75. 73 76. 82 78. 93 75. 29 79. 72 80. 93 81. 64 82. 05	40. 7 39. 6 39. 6 40. 5 39. 9 40. 2 41. 0 39. 4 41. 2 41. 1 40. 7	1. 902 1. 890 1. 891 1. 904 1. 898 1. 911 1. 925 1. 911 1. 935 1. 969 2. 006 2. 016	61. 93 61. 17 58. 90 62. 60 61. 85 62. 73 63. 36 63. 12 63. 68 63. 68 63. 60 67. 54	39. 8 39. 8 38. 1 40. 0 39. 8 39. 7 39. 6 39. 8 39. 6 40. 2	1. 55 1. 53 1. 54 1. 56 1. 55 1. 58 1. 60 1. 58 1. 61 1. 58 1. 68
1951: January	56, 69	45. 9	1, 235	69.05	42.0	1. 644	77. 53	42.6	1.820	79.66	41.0	1. 943	82. 95	40.7	2.038	68.69	40.1	1.71
	Prod	ucts of	notro-					Mant	ıfacturii	ng—Cor	itinued					Tanti	ner and	loothow
	leum s	and coal	-Con.				1	1	Rubber	product	S		1				product	
	Other	petrolet al produ	um and icts		tal: Ru product		Tir	es and i tubes	nner	Rul	ber foo	twear		ther rub product			l: Leath ther pro	
1948: Average 1949: Average	\$60. 59 61. 18	44. 1 42. 9	\$1.374 1.426	\$56. 78 57. 79	39. 0 38. 3	\$1.456 1.509	\$62. 16 63. 26	37. 2 36. 4	\$1.671 1.738	\$51.75 48.94	41. 8 38. 6	\$1. 238 1. 268	\$52.47 54.38	40.3 40.1	\$1.302 1.356	\$41.66 41.61	37. 2 36. 6	\$1. 12 1. 13
1950: January February March April May June July August September October November December	58. 94 60. 00 63. 00 67. 44 69. 13 70. 38 71. 82 69. 76 69. 94 69. 15 69. 67	41. 3 41. 3 41. 9 43. 3 45. 2 46. 3 46. 7 47. 5 46. 2 45. 8 44. 9 44. 6	1. 418 1. 427 1. 432 1. 455 1. 492 1. 507 1. 512 1. 510 1. 527 1. 540 1. 562	60. 52 59. 90 59. 70 61. 76 64. 52 65. 08 65. 59 66. 25 66. 58 66. 29 66. 52 68. 81	39. 4 39. 2 39. 3 40. 0 41. 2 41. 4 41. 2 41. 8 41. 9 41. 5 41. 6	1. 536 1. 528 1. 519 1. 544 1. 566 1. 572 1. 592 1. 585 1. 589 1. 582 1. 603 1. 654	67. 70 67. 22 65. 26 69. 23 74. 60 74. 05 75. 22 76. 01 75. 46 73. 12 73. 70 76. 63	38. 4 38. 3 37. 4 39. 0 41. 1 40. 6 40. 4 40. 8 40. 9 40. 2 40. 1	1. 763 1. 755 1. 745 1. 775 1. 815 1. 824 1. 862 1. 863 1. 845 1. 819 1. 838 1. 911	45. 87 43. 06 51. 04 50. 36 50. 20 52. 07 52. 13 53. 93 53. 95 56. 00 54. 52 59. 34	35.7 34.2 40.0 39.5 39.4 40.3 39.7 41.9 41.5 42.2 42.0 42.6	1. 285 1. 259 1. 276 1. 275 1. 274 1. 292 1. 313 1. 287 1. 300 1. 327 1. 298 1. 393	57. 04 56. 43 56. 16 57. 13 57. 92 59. 23 59. 08 60. 13 61. 30 62. 48 62. 71 64. 20	41. 3 41. 1 40. 9 41. 1 41. 7 42. 4 42. 2 42. 8 42. 9 43. 3 42. 6 42. 8	1. 381 1. 373 1. 373 1. 390 1. 389 1. 397 1. 400 1. 405 1. 429 1. 443 1. 472 1. 500	42. 90 44. 08 44. 15 41. 96 41. 56 43. 60 44. 73 46. 49 45. 72 46. 04 47. 22	37. 7 38. 1 37. 9 35. 8 35. 4 37. 2 38. 1 39. 2 38. 1 37. 8 37. 5 38. 3	1. 13 1. 15 1. 16 1. 17 1. 17 1. 17 1. 17 1. 18 1. 20 1. 21 1. 22 1. 23
1951: January	67. 65	43. 2	1, 566	67. 07	40.6	1,652	74.38	38.6	1. 927	57. 67	41.7	1.383	62. 83	42.0	1.496	48. 42	38.8	1. 24

TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees 1—Con.

								Manu	ıfacturiı	ng—Con	ntinued							
		I	eather	and leat	her pro	ducts—0	Continu	ed				Sto	ne, clay	, and gl	ass prod	ducts		
Year and month		Leathe	r	Foot	twear (e			ther leat			l: Stone			ass and product		Gla	ss conta	iners
	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings															
1948: Average 1949: Average	\$53. 26 54. 11	39. 6 38. 9	\$1.345 1.391	\$39. 71 39. 35	36. 6 35. 9	\$1.085 1.096	\$40.49 41.10	37. 7 37. 5	\$1.074 1.096	\$53.46 54.45	40. 9 39. 8	\$1.307 1.368	\$54.06 56.71	39. 2 39. 0	\$1.379 1.454	\$52.05 53.80	39. 7 39. 3	\$1.311 1.369
1950: January February March April May June July August September October November December	55. 34 55. 29 54. 89 54. 44 55. 00 56. 57 56. 73 58. 40 58. 64 59. 44 59. 79 61. 13	39. 0 39. 1 38. 9 38. 5 38. 9 39. 7 40. 5 40. 3 40. 4 40. 7	1. 419 1. 414 1. 414 1. 414 1. 425 1. 429 1. 442 1. 445 1. 475 1. 480 1. 502	40. 77 42. 22 42. 15 39. 18 38. 48 40. 84 42. 53 44. 39 43. 32 42. 76 42. 23 43. 87	37. 4 37. 8 37. 4 34. 7 34. 2 36. 4 37. 7 38. 8 37. 6 36. 0 37. 4	1. 090 1. 117 1. 127 1. 129 1. 125 1. 122 1. 128 1. 144 1. 152 1. 165 1. 173 1. 173	42. 21 42. 90 43. 73 42. 75 42. 58 44. 39 44. 16 45. 70 45. 00 47. 64 47. 96 48. 59	38. 1 38. 2 38. 7 37. 5 36. 9 38. 3 38. 2 39. 5 39. 5 39. 7 39. 5	1. 108 1. 123 1. 130 1. 140 1. 154 1. 159 1. 156 1. 157 1. 181 1. 206 1. 208 1. 230	55. 32 55. 56 55. 70 56. 56 57. 28 58. 12 58. 57 59. 40 60. 88 63. 11 63. 66 63. 49	39.8 40.0 40.1 40.4 40.8 41.1 40.9 41.6 41.5 42.5 42.3	1. 390 1. 389 1. 389 1. 400 1. 404 1. 414 1. 432 1. 428 1. 467 1. 505 1. 508	59. 31 59. 36 59. 35 59. 58 59. 78 59. 74 60. 24 59. 10 61. 31 65. 66 67. 03 65. 57	39. 7 40. 0 40. 1 40. 2 40. 5 40. 2 39. 5 39. 8 39. 0 41. 4 41. 3 40. 8	1. 494 1. 484 1. 480 1. 482 1. 476 1. 486 1. 525 1. 572 1. 586 1. 623 1. 607	55. 28 54. 93 54. 79 55. 42 54. 98 55. 23 55. 40 53. 31 54. 69 61. 19 59. 94 59. 98	39. 6 39. 6 39. 7 40. 1 40. 4 40. 4 39. 6 38. 8 37. 1 40. 9 40. 5	1, 396 1, 387 1, 380 1, 382 1, 361 1, 367 1, 399 1, 374 1, 474 1, 496 1, 480 1, 481
1951: January	61. 50	40.7	1. 511	45. 96	38. 4	1.197	47. 92	38. 9	1. 232	63. 33	41.5	1. 526	66.14	40.7	1.625	61.16	40. 5	1. 510
				-			Stone			g—Cont — product		timund					-	
	Presse	ed and l	olown	Ceme	nt, hyd	raulic	Stru	ictural o	elay		and he		Se	ewer pi	pe		ry and r	
1948: Average 1949: Average	\$47. 61 50. 30	38. 8 38. 6	\$1. 227 1. 303	\$54. 76 57. 49	41. 9 41. 6	\$1.307 1.382	\$49. 57 49. 73	40. 4 39. 0	\$1.227 1.275	\$49.05 49.57	42. 5 41. 8	\$1.154 1.186	\$47. 96 48. 61	40. 0 39. 2	\$1.199 1.240	\$49. 46 48. 85	38. 7 36. 4	\$1.278 1.342
1950: January	51. 39 50. 90 51. 29 49. 87 50. 96 50. 27 49. 93 51. 61 56. 70 58. 24 61. 15 58. 61	38. 9 39. 0 39. 3 38. 6 39. 2 38. 4 38. 0 39. 7 40. 5 41. 1 41. 4 40. 9	1. 321 1. 305 1. 305 1. 292 1. 300 1. 309 1. 314 1. 300 1. 400 1. 417 1. 477 1. 433	57. 55 57. 73 57. 47 58. 88 59. 13 60. 27 61. 30 61. 13 61. 66 61. 59 62. 10 62. 41	40.9 41.5 41.2 41.7 42.0 41.7 42.1 41.8 41.9 42.1 41.8	1. 407 1. 391 1. 395 1. 412 1. 418 1. 435 1. 470 1. 452 1. 475 1. 470 1. 475 1. 493	49. 52 49. 37 49. 90 52. 37 53. 27 54. 09 54. 40 55. 27 56. 00 57. 73 57. 86 57. 83	38.6 38.6 38.8 40.1 40.2 40.7 40.9 41.4 41.3 41.8 41.3	1. 283 1. 279 1. 286 1. 306 1. 325 1. 329 1. 330 1. 335 1. 356 1. 381 1. 401 1. 407	47. 81 47. 14 48. 26 51. 27 54. 16 54. 63 54. 89 55. 71 55. 73 57. 77 57. 51 57. 07	41. 0 40. 5 41. 0 42. 3 43. 4 43. 6 43. 9 43. 2 44. 2 43. 7 43. 5	1.166 1.164 1.177 1.212 1.248 1.253 1.259 1.269 1.307 1.316 1.312	47. 50 46. 78 48. 30 50. 63 49. 96 54. 85 54. 60 53. 85 54. 88 55. 05 54. 14 52. 86	38. 4 38. 0 38. 0 40. 8 38. 4 41. 3 41. 3 40. 4 40. 5 40. 3 39. 2 38. 5	1. 237 1. 231 1. 271 1. 241 1. 301 1. 328 1. 322 1. 333 1. 355 1. 366 1. 381 1. 373	48. 99 50. 00 50. 37 50. 26 50. 46 48. 71 49. 13 52. 59 53. 70 55. 91 57. 47 56. 92	36. 1 36. 9 37. 2 36. 9 37. 1 35. 3 35. 5 38. 0 38. 3 39. 4 39. 8 38. 8	1.357 1.355 1.354 1.362 1.360 1.384 1.384 1.402 1.419 1.444 1.467
1951: January	57.32	40.0	1.433	62. 29	41.2	1. 512	58.18	40.6	1, 433	55. 49	42. 2	1.315	54. 32	38, 8	1.400	56. 53	38.3	1.476
								Manuf	acturin	g—Cont	inued							
		Sto	ne, clay	, and gl	ass pro	ducts—C	Continu	ed				P	rimary	metal in	ndustrie	es		
		ete, gypaster pro		Concr	ete pro	ducts		stone, lass pro			al: Prim l indus			urnaces , and ro mills			n and st oundries	
1948: Average	\$56. 49 57. 77	44. 8 43. 8	\$1.261 1.319	\$56. 92 59. 31	44. 4 43. 8	\$1.282 1.354	\$55. 10 54. 72	41. 0 39. 2	\$1.344 1.396	\$61.03 60.78	40.1 38.3	\$1.522 1.587	\$62.41 63.04	39. 5 38. 3	\$1.580 1.646	\$58. 45 55. 09	40. 7 37. 2	\$1.436 1.481
1950: January February March. April May June July August September October November December	58. 16 58. 55 59. 13 59. 76 60. 75 62. 06 63. 06 64. 44 65. 35 66. 38 65. 57 65. 95	43. 6 43. 9 44. 1 44. 7 45. 2 45. 4 45. 7 46. 0 45. 6 45. 7	1. 334 1. 343 1. 347 1. 355 1. 359 1. 373 1. 389 1. 410 1. 430 1. 443 1. 438 1. 443	56. 80 55. 71 57. 48 59. 25 60. 20 61. 07 60. 78 62. 62 63. 59 64. 09 63. 64 65. 14	42. 2 41. 3 42. 2 43. 5 44. 3 45. 1 44. 2 44. 6 44. 5 44. 6 44. 1 44. 8	1. 346 1. 349 1. 362 1. 362 1. 359 1. 354 1. 375 1. 404 1. 429 1. 437 1. 443 1. 454	55. 33 55. 69 55. 75 56. 22 58. 07 60. 09 60. 17 62. 20 64. 52 65. 79 66. 55 67. 43	39. 3 39. 3 39. 4 39. 4 40. 3 41. 7 41. 3 42. 4 42. 9 43. 2 43. 1 43. 5	1. 408 1. 417 1. 415 1. 427 1. 441 1. 441 1. 457 1. 504 1. 523 1. 544 1. 550	63. 79 63. 48 62. 40 65. 00 65. 57 66. 50 66. 95 67. 36 69. 10 69. 81 70. 14 74. 54	39. 5 39. 6 38. 9 40. 4 40. 5 40. 8 40. 7 41. 1 41. 4 41. 9 41. 8 42. 4	1. 615 1. 603 1. 604 1. 609 1. 619 1. 630 1. 645 1. 639 1. 669 1. 666 1. 678 1. 758	65. 83 64. 81 61. 84 66. 08 65. 86 66. 63 67. 83 67. 37 69. 30 68. 87 69. 03 75. 03	39. 3 39. 3 37. 5 40. 0 39. 7 39. 8 39. 9 40. 1 40. 2 40. 8 40. 8 41. 0	1. 675 1. 649 1. 649 1. 652 1. 659 1. 674 1. 700 1. 680 1. 724 1. 688 1. 692 1. 830	58. 17 59. 11 60. 33 62. 37 63. 19 64. 72 64. 37 66. 07 67. 57 70. 04 69. 23 72. 49	38. 7 39. 2 39. 9 40. 9 41. 3 42. 0 41. 8 42. 6 42. 9 43. 8 43. 0 44. 2	1. 503 1. 508 1. 512 1. 525 1. 530 1. 541 1. 540 1. 551 1. 575 1. 599 1. 610 1. 640
1951: January	64. 40	44. 2	1.457	63.14	43.1	1.465	66. 98	42.8	1.565	74. 96	41.9	1.789	77. 27	41.1	1.880	71.95	43. 5	1. 654

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TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees 1—Con.

								Manu	facturin	g—Con	tinued									
							Pri	mary m	etal ind	ustries-	-Contin	ued								
Year and month	Gray-	iron fou	ndries	Ма	lleable-i found	iron ries	Stee	el found	ries	and	ary sm refini ferrous	ng of	and	ary sm refini- per, lead	ng of	Prima al	ary refin luminur	ing of		
	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings		
1948: Average 1949: Average	\$57.46 54.38	40. 9 37. 5	\$1.405 1.450	\$59. 19 54. 30	40. 4 35. 7	\$1.465 1.521	\$59. 93 56. 73	40. 6 37. 3	\$1,476 1.521	\$58. 22 60. 36	41. 0 40. 4	\$1.420 1.494	\$57.14 58.99	40. 9 40. 1	\$1.397 1.471	\$58. 95 61. 95	41. 4 41. 3	\$1.424 1.500		
1950: January	57. 74 58. 91 59. 81 62. 03 63. 24 64. 08 63. 88 66. 36 67. 97 70. 26 69. 18 72. 05	39. 2 39. 7 40. 3 41. 3 42. 3 42. 0 43. 2 43. 6 44. 3 43. 4 44. 5	1. 473 1. 484 1. 484 1. 502 1. 513 1. 515 1. 521 1. 536 1. 559 1. 586 1. 594 1. 619	59. 25 59. 25 61. 70 63. 25 63. 28 65. 87 64. 80 66. 32 67. 69 69. 18 69. 28 72. 06	38. 3 38. 6 39. 6 40. 6 41. 9 41. 3 42. 0 42. 2 42. 6 42. 5 43. 7	1. 547 1. 535 1. 558 1. 558 1. 551 1. 572 1. 569 1. 579 1. 604 1. 624 1. 630 1. 649	57. 75 59. 83 60. 61 62. 79 63. 30 65. 65 65. 31 65. 73 66. 08 69. 38 69. 17 72. 52	37. 6 38. 7 39. 1 40. 3 40. 6 41. 5 41. 6 41. 3 42. 8 42. 2 43. 4	1. 536 1. 546 1. 550 1. 558 1. 559 1. 582 1. 570 1. 580 1. 600 1. 621 1. 639 1. 671	62. 07 60. 24 61. 13 61. 61 61. 98 62. 54 62. 83 63. 15 64. 44 66. 40 67. 73 69. 60	41. 3 40. 4 40. 7 40. 8 40. 8 40. 9 40. 3 41. 2 41. 5 41. 0 41. 8	1. 503 1. 491 1. 502 1. 510 1. 519 1. 529 1. 559 1. 544 1. 660 1. 652 1. 665	61. 35 59. 00 59. 79 60. 38 60. 29 61. 44 61. 37 61. 89 63. 18 65. 01 66. 30 68. 10	41. 4 40. 3 40. 7 40. 8 40. 6 40. 8 39. 9 40. 8 41. 0 41. 7 40. 9	1. 482 1. 464 1. 469 1. 480 1. 485 1. 506 1. 538 1. 517 1. 541 1. 559 1. 621 1. 637	61. 16 61. 66 62. 25 62. 03 62. 73 62. 44 63. 06 62. 87 63. 47 67. 23 68. 84 70. 01	40.8 41.0 40.9 40.7 41.0 41.0 40.8 41.0 40.4 41.7	1. 499 1. 504 1. 522 1. 524 1. 530 1. 523 1. 538 1. 541 1. 548 1. 664 1. 679 1. 679		
1951: January	70.68	43. 6	1. 621	71.30	42.8	1. 666	73. 44	43. 0	1.708	71.35	41.7	1.711	70. 21	41. 4	1. 696	69.75	41.1	1. 697		
	Manufacturing—Continu																			
	2000 200 100										lustries—Continued									
	and	Rolling, drawing, and alloying of nonferrous metals			Rolling, drawing, and alloying of copper			Rolling, drawing, and alloying of aluminum			Nonferrous foundries			Other primary metal industries			Iron and steel forgings			
1948: Average 1949: Average	\$57. 81 58. 05	40. 2 38. 7	\$1.438 1.500	\$60. 42 59. 29	40. 8 38. 5	\$1.481 1.540	\$53. 88 56. 21	39. 1 38. 9	\$1.378 1.445	\$59. 96 60. 92	40. 0 39. 0	\$1.499 1.562	\$63. 08 63. 34	40.8 39.1	\$1.546 1.620	\$65. 16 63. 18	40. 8 38. 2	\$1. 597 1. 654		
1950: January. February. March April. May. June. July. August. September. October. November. December.	61. 97 63. 29 64. 29 64. 29 66. 63 67. 75 67. 76 68. 48 65. 21 68. 05 69. 18 72. 97	40. 5 41. 1 41. 4 41. 4 42. 2 42. 8 42. 4 41. 4 41. 8 41. 7 43. 1	1. 530 1. 540 1. 553 1. 553 1. 579 1. 583 1. 598 1. 600 1. 575 1. 628 1. 659 1. 693	64. 53 66. 30 66. 96 67. 61 70. 72 72. 26 73. 46 73. 67 68. 09 70. 22 71. 48 77. 04	41. 1 41. 7 41. 9 42. 1 43. 2 43. 9 44. 2 44. 3 41. 8 42. 1 41. 8 44. 2	1. 570 1. 590 1. 598 1. 606 1. 637 1. 646 1. 662 1. 663 1. 629 1. 668 1. 710 1. 743	57. 37 57. 91 59. 54 58. 53 58. 73 58. 26 57. 02 58. 51 57. 56 63. 59 64. 43 66. 01	39. 4 39. 8 40. 5 40. 2 40. 4 39. 0 39. 8 39. 4 40. 4 40. 6 40. 9	1. 456 1. 455 1. 470 1. 456 1. 461 1. 442 1. 462 1. 470 1. 461 1. 574 1. 587 1. 614	62. 73 62. 29 63. 04 64. 03 65. 36 66. 52 64. 27 66. 36 70. 61 72. 29 72. 80 76. 21	39. 6 39. 5 40. 1 40. 5 40. 9 41. 6 40. 5 41. 4 42. 9 42. 8 42. 8 43. 9	1. 584 1. 577 1. 572 1. 581 1. 598 1. 599 1. 587 1. 603 1. 646 1. 689 1. 701 1. 736	65. 44 67. 28 67. 23 67. 61 69. 68 70. 39 70. 47 71. 95 74. 13 75. 17 76. 65 77. 56	40. 0 40. 8 40. 4 40. 8 41. 6 41. 8 41. 6 42. 2 42. 8 43. 3 43. 5	1. 636 1. 649 1. 664 1. 657 1. 675 1. 684 1. 705 1. 732 1. 736 1. 750 1. 783	64. 89 66. 94 68. 75 68. 80 72. 94 72. 21 73. 08 74. 63 77. 83 80. 29 82. 86 80. 75	38.6 39.4 39.9 40.0 41.8 41.5 41.6 42.6 43.4 44.1 43.3	1. 681 1. 699 1. 723 1. 720 1. 745 1. 740 1. 761 1. 794 1. 827 1. 850 1. 879		
1951: January	68. 92	41.1	1. 677	70. 29	41.2	1.706	65, 61	40. 4	1. 624	72. 67	42.3	1.718	77. 90	42.8	1.820	82. 36	43. 3	1. 902		
	Manufacturing—Continued Primary metal in-																			
		ary me stries—			F	abricate	ed metal	produc	ts (exce	pt ordn	t ordnance, machinery, and transportation equipment					quipme	nt)			
	Wire drawing			Total: Fabricated metal products (except ordnance, machinery, and transportation equipment)			Tin cans and other tinware			Cutlery, hand tools, and hardware			Cutlery and edge			Hand tools				
1948: Average 1949: Average	\$62. 17 63. 66	40. 5 39. 2	\$1.535 1.624	\$56. 68 57. 82	40. 6 39. 6	\$1.396 1.460	\$54. 07 56. 24	40. 9 40. 4	\$1.322 1.392	\$54. 22 54. 82	40. 8 39. 3	\$1.329 1.395	\$51.13 50.84	41.3 40.0	\$1. 238 1. 271	\$56. 07 54. 54	40. 9 38. 6	\$1.371 1.413		
1950: January February March April May June July August September October November	68. 05 71. 06 68. 82 69. 89 70. 39 72. 93 72. 89 74. 25 77. 86 77. 00 78. 80 80. 77	40.6 42.2 40.7 41.6 41.6 42.4 42.6 43.5 44.8 44.2 45.0 44.6	1. 676 1. 684 1. 691 1. 680 1. 692 1. 720 1. 711 1. 707 1. 738 1. 742 1. 751 1. 811	59. 93 59. 68 59. 64 60. 56 60. 89 62. 87 62. 55 64. 79 65. 72 66. 66 66. 20 68. 31	40. 3 40. 3 40. 7 40. 7 41. 5 41. 1 42. 1 42. 1 42. 3 41. 9 42. 4	1. 487 1. 481 1. 480 1. 488 1. 496 1. 515 1. 522 1. 539 1. 561 1. 576 1. 580 1. 611	56. 76 56. 80 56. 98 58. 77 59. 20 60. 94 64. 14 67. 46 63. 90 60. 56 58. 85 62. 41	40. 4 40. 2 40. 3 40. 7 41. 0 41. 8 42. 9 44. 5 43. 0 41. 0 40. 2 41. 8	1. 405 1. 413 1. 414 1. 444 1. 458 1. 495 1. 516 1. 486 1. 477 1. 464 1. 493	57. 55 58. 20 58. 83 58. 79 57. 57 60. 61 59. 57 61. 03 62. 96 64. 99 64. 09 66. 87	40. 5 40. 7 41. 2 41. 2 40. 6 41. 6 41. 6 42. 0 42. 9 42. 0 43. 0	1. 421 1. 430 1. 428 1. 427 1. 418 1. 457 1. 460 1. 467 1. 515 1. 526 1. 555	50. 79 51. 22 53. 07 53. 49 52. 16 54. 41 51. 34 56. 08 57. 14 60. 71 60. 56 62. 91	39. 9 40. 3 41. 2 41. 4 40. 5 41. 6 39. 4 42. 2 42. 2 43. 9 43. 9	1. 273 1. 271 1. 288 1. 292 1. 288 1. 308 1. 303 1. 329 1. 354 1. 383 1. 405 1. 433	55. 92 55. 87 56. 77 57. 32 58. 20 59. 16 59. 38 63. 11 64. 63 67. 31 68. 56	39. 3 39. 1 39. 7 40. 0 40. 5 40. 8 40. 7 42. 1 42. 3 42. 8 42. 9 43. 2	1. 423 1. 429 1. 430 1. 433 1. 437 1. 450 1. 459 1. 545 1. 545 1. 545		
1951: January	82. 43	44. 2	1.865	67. 56	41.6	1. 624	63. 14	41.0	1. 540	65. 24	41.9	1.557	60. 76	42.7	1, 423	68. 64	42.9	1.600		

TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees 1—Con.

								Man	ufacturi	ing—Co	ntinued							
			Fal	oricated	metal p	oroducts	(except	ordnar	ice, mac	hinery,	and tra	nsporta	tion equ	ipment)—Cont	tinued		
Year and month	1	Hardware			ing apport electric sides of the state of th	ric) and		tary wa ibers' si		electr	burners ric heati ing app ot elsew classifie	ing and aratus, here		ricated metal p		0	tural st rnamen netalwo	tal
	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours		Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings									
1948: Average 1949: Average	\$54. 26 56. 28	40. 4 39. 3	\$1.343 1.432	\$57.53 57.04	40.2	\$1.431 1.474	\$60.40 59.79	40.4		\$55. 80 55. 45	40.0		\$58.17 59.90	41.2	\$1.412 1.479	\$57. 68 60. 91	41.2	\$1.400 1.482
1950: January	61. 15 60. 71 58. 87 62. 93 61. 88 61. 91	41.0 41.3 41.6 41.5 40.6 41.9 41.2 41.3 41.9 42.6 41.3 42.7	1. 468 1. 478 1. 470 1. 463 1. 450 1. 502 1. 502 1. 499 1. 533 1. 545 1. 549 1. 582	59. 23 59. 59 60. 20 60. 76 61. 30 62. 11 63. 28 65. 53 66. 83 68. 09 67. 27 68. 71 68. 35	39.7 39.7 40.0 40.0 40.3 40.7 41.2 41.9 42.3 42.4 41.6 42.1	1. 492 1. 501 1. 505 1. 519 1. 521 1. 526 1. 536 1. 564 1. 580 1. 606 1. 617 1. 632	62. 24 63. 54 63. 91 63. 91 65. 27 67. 43 67. 11 72. 41 72. 85 74. 39	40. 0 40. 5 40. 6 40. 4 40. 4 41. 1 41. 7 41. 8 42. 8 43. 1 42. 6 43. 3	1. 556 1. 569 1. 573 1. 582 1. 582 1. 588 1. 617 1. 615 1. 663 1. 680 1. 710 1. 718	57. 14 56. 76 57. 62 58. 63 59. 30 59. 90 60. 20 64. 20 64. 13 65. 20 63. 67 64. 96	39. 6 39. 2 39. 6 39. 8 40. 2 40. 5 40. 9 41. 9 41. 0 41. 3	1. 443 1. 448 1. 455 1. 473 1. 479 1. 472 1. 525 1. 527 1. 556 1. 553 1. 573	60. 30 59. 81 60. 38 61. 31 61. 66 62. 65 61. 39 64. 22 65. 02 65. 93 66. 25 68. 16	40. 2 39. 9 40. 2 40. 6 40. 7 41. 0 40. 1 41. 7 41. 6 42. 1 42. 2 42. 1	1. 500 1. 499 1. 502 1. 515 1. 528 1. 531 1. 540 1. 563 1. 566 1. 570 1. 619	61. 51 61. 01 61. 43 62. 09 62. 25 63. 40 60. 39 63. 63 63. 44 64. 85 65. 80 67. 30	41. 2 40. 7 40. 9 41. 2 41. 6 39. 6 41. 7 41. 3 42. 0 42. 1 41. 7	1. 493 1. 493 1. 502 1. 507 1. 511 1. 524 1. 526 1. 536 1. 544 1. 563 1. 614
			11002	00.00	11.1	1,000	10.00			ng—Con		1.000	68. 64	41.8	1.642	68.10	41.5	1.641
	F	Fabricat	ed meta	al produ	ets (exc	ept ord	nance, r					equipm	ent)—C	ontinue	d	Machinery (except (electrical)		
	Boiler-	shop pr	oducts	Sheet-metal work			Metal stamping, coating, and engraving			Stamped and pressed metal products			Other fabricated metal products			Total: Machinery (except electrical)		
1948: Average 1949: Average	\$58. 79 59. 78	41. 2 40. 2	\$1.427 1.487	\$56. 64 57. 60	40. 6 39. 7	\$1.395 1.451	\$56. 66 58. 54	40.1 39.5	\$1.413 1.482	\$58.39 60.30	40. 3 39. 7	\$1.449 1.519	\$56. 88 58. 38	40. 4 39. 5	\$1.408 1.478	\$60. 52 60. 44	41. 2 39. 5	\$1.469 1.530
1950: January	58. 62 58. 45 58. 79 59. 77 59. 60 61. 22 61. 52 62. 35 64. 38 65. 00 65. 92 68. 24	38. 9 39. 1 39. 3 39. 9 40. 0 40. 6 40. 5 41. 1 41. 4 42. 2 42. 2	1. 507 1. 495 1. 496 1. 498 1. 490 1. 508 1. 519 1. 517 1. 555 1. 570 1. 562 1. 617	58. 93 58. 89 58. 39 58. 76 60. 40 60. 28 61. 04 63. 52 63. 90 65. 77 64. 96 67. 38	39. 9 40. 2 39. 8 40. 0 40. 7 40. 4 41. 6 41. 6 42. 6 41. 8 42. 3	1. 477 1. 465 1. 467 1. 469 1. 484 1. 492 1. 496 1. 516 1. 536 1. 544 1. 554 1. 593	61. 02 60. 67 60. 63 61. 19 61. 55 64. 16 63. 58 65. 69 66. 34 67. 05 66. 77 68. 91	40. 2 40. 5 40. 5 40. 9 40. 6 41. 8 41. 1 42. 0 41. 7 41. 8 41. 5 42. 2	1. 518 1. 498 1. 497 1. 496 1. 516 1. 535 1. 547 1. 564 1. 591 1. 604 1. 609 1. 633	63. 37 62. 35 62. 59 62. 92 63. 55 66. 31 65. 46 67. 86 68. 46 68. 60 68. 64 70. 73	40. 7 40. 7 40. 8 41. 1 41. 0 42. 1 41. 3 42. 2 41. 9 41. 7 41. 6 42. 2	1. 557 1. 532 1. 534 1. 531 1. 550 1. 575 1. 608 1. 634 1. 645 1. 650 1. 676	61. 51 60. 47 59. 14 61. 16 62. 43 64. 82 63. 94 66. 17 67. 32 68. 66 67. 85 70. 27	40. 6 40. 5 39. 8 40. 8 41. 1 42. 2 41. 6 42. 5 42. 5 42. 7 42. 3 42. 9	1. 515 1. 493 1. 486 1. 499 1. 519 1. 536 1. 537 1. 557 1. 554 1. 608 1. 604 1. 638	61. 57 62. 55 63. 34 64. 33 65. 09 66. 35 67. 98 68. 94 71. 00 72. 03 74. 25	39. 8 40. 3 40. 6 41. 0 41. 3 41. 5 41. 6 42. 3 42. 4 42. 9 43. 0 43. 7	1. 547 1. 552 1. 560 1. 569 1. 576 1. 583 1. 595 1. 607 1. 626 1. 655 1. 675 1. 699
1951: January	68. 23	41.5	1.644	66. 58	41.3	1.612	68.06	41.6	1. 636	69. 35	41.4	1. 675	68. 27	41.6	1.641	74.34	43.4	1.713
-								Manu	acturin	g—Cont	inued							
-							Mach	xcept el	ectrical)—Continued									
		gines ar urbines		Agricultural machinery and tractors			Tractors			Agricultural machinery (except tractors)			Construction and mining machinery			Metalworking machinery		
	63. 50 63. 13	40. 5 38. 9	\$1.568 1.623	\$60. 59 61. 11	40. 5 39. 3	\$1.496 1.555	\$62.05 61.86	40. 5 39. 2	\$1.532 1.578	\$58. 62 59. 93	40. 4 39. 3	\$1. 451 1. 525	\$60.33 58.74	42.1 39.8	\$1.433 1.476	\$62. 94 61. 11	42.1 39.5	\$1.495 1.547
February March April May June July August September October November	63. 88 63. 69 63. 96 68. 72 68. 79 68. 70 68. 91 70. 83 70. 81 69. 48 74. 57 78. 95	39. 0 39. 0 39. 0 41. 0 40. 8 40. 7 40. 3 41. 3 41. 0 40. 0 42. 2 43. 5	1. 638 1. 633 1. 640 1. 676 1. 686 1. 710 1. 715 1. 727 1. 737 1. 767 1. 815	61. 58 63. 24 62. 92 62. 96 63. 88 63. 84 63. 88 65. 29 64. 35 64. 82 67. 51 70. 66	39. 1 40. 0 39. 6 39. 7 40. 1 40. 2 40. 1 40. 3 40. 5 39. 5 40. 4 41. 3	1. 575 1. 581 1. 589 1. 586 1. 593 1. 588 1. 593 1. 620 1. 589 1. 641 1. 671 1. 711	61. 92 64. 28 63. 92 64. 68 65. 49 65. 16 65. 08 67. 39 65. 97 65. 27 69. 50 73. 72	38. 8 40. 2 39. 7 40. 1 40. 5 40. 3 40. 5 40. 5 38. 9 41. 1 42. 1	1. 596 1. 599 1. 610 1. 613 1. 621 1. 609 1. 615 1. 664 1. 629 1. 678 1. 691 1. 751	60. 91 61. 93 61. 66 60. 68 61. 77 62. 16 62. 25 62. 36 62. 37 64. 00 64. 69 66. 45	39. 4 39. 8 39. 5 39. 1 39. 7 39. 9 39. 8 40. 0 40. 5 40. 2 39. 4 40. 2	1. 546 1. 556 1. 561 1. 552 1. 556 1. 558 1. 564 1. 559 1. 540 1. 592 1. 642 1. 653	60. 28 61. 36 62. 36 63. 11 63. 70 65. 20 65. 06 66. 60 67. 62 69. 96 70. 31 72. 22	40. 4 40. 8 41. 3 41. 6 41. 8 42. 7 42. 3 42. 8 42. 8 43. 7 43. 4 44. 2	1. 492 1. 504 1. 510 1. 517 1. 524 1. 527 1. 538 1. 556 1. 580 1. 601 1. 620 1. 634	61. 42 63. 86 65. 10 67. 21 68. 57 69. 81 71. 16 73. 42 73. 24 77. 83 78. 23 80. 59	39. 4 40. 6 41. 1 41. 8 42. 3 42. 8 43. 1 44. 2 43. 7 45. 2 45. 3 46. 0	1. 559 1. 573 1. 584 1. 608 1. 621 1. 631 1. 651 1. 666 1. 722 1. 727 1. 752
1951: January	78.16	42. 9	1, 822	71. 76	41.1	1.746	74. 71	41.9	1.783	67. 89	40.1	1.693	72.86	44.0	1.656	80. 75	45.8	1.763

TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees 1—Con.

								Manu	acturin	g—Con	inued							
							Mach	inery (e	xcept el	ectrical	-Cont	inued						
Year and month	Ma	Machine tools			talwork inery (e chine to	except		achine-t		me	eial-indu inery (e talwork achinery	ing		ral indu			ce and s	
	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly, earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings
1948: Average 1949: Average	\$61.57 59.15	42. 2 39. 3	\$1, 459 1, 505	\$62.98 61.85	42.1 39.8	\$1. 496 1. 554	\$65. 21 64. 16	41.8	\$1.560 1.616	\$60. 62 60. 57	42. 3 40. 3	\$1, 433 1, 503	\$59. 78 59. 53	41. 2 39. 5	\$1.451 1.507	\$61. 49 62. 53	41.1	\$1, 496 1, 583
1950: January February March April May June July August September October November December: January	59. 66 61. 86 63. 00 64. 69 65. 46 66. 58 66. 88 71. 16 72. 24 76. 78 77. 51 81. 09	39. 2 40. 3 40. 8 41. 6 41. 8 42. 3 44. 2 44. 1 45. 7 45. 7 46. 9	1, 522 1, 535 1, 544 1, 555 1, 566 1, 574 1, 581 1, 610 1, 638 1, 680 1, 729 1, 734	61. 94 66. 17 67. 10 68. 95 69. 69 70. 10 71. 87 73. 01 71. 64 73. 12 73. 69 76. 47	39. 3 41. 2 41. 6 42. 2 42. 6 42. 9 43. 4 44. 3 42. 9 43. 6 43. 4 44. 1	1. 576 1. 606 1. 613 1. 634 1. 636 1. 634 1. 656 1. 648 1. 670 1. 677 1. 698 1. 734	63. 64 65. 37 66. 95 69. 56 72. 25 74. 34 76. 69 76. 16 75. 64 82. 72 81. 26 82. 07	39. 6 40. 6 41. 1 41. 8 42. 8 43. 6 44. 2 44. 0 43. 9 45. 6 45. 6 45. 9	1, 607 1, 610 1, 629 1, 668 1, 705 1, 735 1, 731 1, 723 1, 814 1, 782 1, 788	61. 45 61. 80 62. 26 62. 65 63. 55 53. 91 63. 92 65. 75 67. 44 69. 49 70. 86 73. 21	40. 4 40. 5 40. 8 41. 0 41. 4 41. 5 41. 4 42. 2 42. 6 43. 0 43. 1 44. 1	1, 521 1, 526 1, 526 1, 528 1, 535 1, 540 1, 544 1, 558 1, 616 1, 644 1, 660	60. 04 59. 93 60. 93 62. 01 63. 89 64. 43 65. 99 66. 65 68. 91 71. 39 72. 23 74. 33	39. 5 39. 4 39. 9 40. 4 41. 3 41. 9 42. 4 42. 8 43. 8 44. 4	1. 520 1. 521 1. 527 1. 535 1. 547 1. 560 1. 575 1. 572 1. 610 1. 630 1. 649 1. 674	63. 84 63. 64 63. 16 63. 60 63. 96 64. 52 65. 85 67. 63 69. 55 70. 89 71. 11 73. 62	39.8 39.9 39.8 40.1 40.5 40.9 41.8 42.0 42.3 42.2 43.0	1. 604 1. 595 1. 587 1. 586 1. 593 1. 610 1. 618 1. 656 1. 676 1. 688 1. 712
	Manufacturing—Continued																	
	Machinery (except electrical)—Continued																	
	Computing machines and cash registers			Typewriters			Service-industry and household machines			Refrigerators and air- conditioning units			Miscellaneous ma- chinery parts			Machine shops (job and repair)		
1948: Average 1949: Average	\$66. 54 67. 87	41. 2 39. 9	\$1.615 1.701	\$55.65 56.04	41. 1 39. 0	\$1.354 1.437	\$58. 98 60. 66	40. 4 39. 7	\$1.460 1.528	\$58. 29 59. 98	39. 9 39. 0	\$1.461 1.538	\$57.62 57.59	40. 1 38. 6	\$1.437 1.492	\$58.77 58.70	40. 2 39. 0	\$1.462 1.505
1950: January February March April May June July August September October November December	68. 84	40. 0 39. 7 40. 0 40. 3 40. 5 40. 8 41. 3 41. 7 42. 2 41. 3 42. 4	1.789 1.825	69. 61 69. 07	38. 7 39. 2 39. 3 39. 7 40. 1 40. 2 41. 3 42. 8 43. 5 43. 4 44. 0 43. 8	1. 446 1. 451 1. 451 1. 468 1. 493 1. 531 1. 547 1. 582 1. 577	63. 24 63. 87 66. 14 65. 88 67. 20 67. 55 67. 17 66. 93 67. 90 70. 60 70. 26 69. 30		1. 669 1. 689 1. 682	1 1000	40. 1 40. 7 41. 9 41. 8 43. 0 42. 3 41. 8 40. 8 39. 7 40. 8 39. 5 39. 1	1, 608 1, 619 1, 623 1, 636 1, 660 1, 690 1, 672	63. 22 65. 21 67. 54 68. 68 70. 46 71. 30 73. 86	44. 2	1. 531 1. 534 1. 530 1. 542 1. 560 1. 578 1. 601 1. 616 1. 639 1. 671	69. 54 72. 96	39.8 40.1 39.8 40.6 41.1 41.6 41.7 42.4 41.8 43.1 42.9 44.3	1.64
	Manufacturing—Continued																	
	Electrical machinery																	
	Total: Electrical machinery			Electrical generating, transmission, dis- tribution, and indus- trial apparatus			transformers and			Electrical equipment for vehicles			Communication equipment			Radios, phonograp television sets, an equipment		
1948: Average 1949: Average					40. 4 39. 5		\$59.55 61.30				39. 7 39. 1						39. 2 39. 5	\$1. 23 1. 28
1950: January February March. April May June. July August. September October November December	58. 26 58. 44 58. 71 59. 28 58. 62 59. 44 60. 15 61. 48 64. 12 64. 33	8 40.4 4 40.5 1 40.6 8 40.8 2 40.4 4 40.6 5 41.0 8 41.4 2 42.1 8 41.8	1. 442 1. 443 1. 446 1. 453 1. 451 1. 464 1. 467 1. 485 1. 523 1. 539	60.04 60.51 60.97 61.85 61.95 62.52 64.25 64.85 67.35 68.48	40. 0 40. 1 40. 3 40. 8 40. 7 40. 6 41. 4 41. 6 42. 2 42. 3	1.501 1.509 1.513 1.516 1.522 1.540 1.552 1.559 1.559 1.596 1.619	61. 16 61. 79 62. 65 63. 19 63. 05 63. 94 65. 30 65. 45 68. 36 69. 13	40. 0 40. 1 40. 6 40. 9 40. 6 40. 7 41. 3 41. 4 42. 2 42. 1	1. 529 1. 541 1. 543 1. 545 1. 553 1. 571 1. 581 1. 581 1. 620 1. 642	63. 73 64. 78 69. 12 66. 40 65. 78 66. 41 67. 33 70. 44 67. 89	40.3 41.3 41.9 43.8 42.0 41.4 41.9 41.9 41.5	1. 523 1. 543 1. 546 1. 578 1. 581 1. 589 1. 585 1. 607 1. 642 1. 636	55. 32 54. 82 54. 23 53. 77 54. 11 54. 43 55. 11 56. 69 2 59. 02 5 58. 83	40.8 40.7 40.5 40.1 40.2 40.5 40.7 41.2 41.8 41.8	1.356 1.347 1.349 1.349 1.346 1.346 1.356 1.376 2.1.376 3.1.412 1.428	52.62 52.54 52.21 51.82 51.93 4 52.37 4 52.89 5 54.44 2 57.03 5 56.32	40. 6 40. 2 40. 1 40. 5 40. 5 40. 9 41. 6 40. 9	1. 29 1. 29 1. 28 1. 28 1. 29 1. 30 1. 33 1. 37 1. 37
1951: January	64. 38	3 41.4	1.555	68. 33	42.0	1.627	69. 47	41.9	1.658	65. 85	40.2	1.638	60.07	41.2	1. 458	57. 55	40.9	1.4

TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees ¹—Con.

						1	Manufac	turing-	-Contin	ued					
	1	Electric	al mach	inery—	Contin	ued			,	Transpo	rtation	equipm	nent		
Year and month		ohone ar oh equip		lam	ical app ps, and eous pr	oliances, l miscel- oducts	Total	: Trans	portation ent	A	utomob	oiles	Aire	raft and	l parts
	Avg. wkly. earn- ings	Avg. wkly. hours		Avg. wkly. earn- ings	Avg. wkly hours		Avg. wkly. earn- ings	Avg. wkly hours	nilly.	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings
1948: Average	\$59. 54 61. 43	40. 7 39. 3	\$1.463 1.563	\$56. 08 56. 52	40. 2		\$61. 58 64. 95	39. 0 39. 2	\$1.579 1.657	\$61. 86 65. 97	38. 4 38. 9	\$1. 611 1. 696	\$61. 21	41.0	\$1.49
1950: January February March April May June July August September October November December	63. 68 63. 63 62. 92 63. 75 64. 23 64. 64 64. 03 65. 44 67. 11 67. 61 70. 39 71. 93	39. 7 39. 5 39. 2 39. 6 39. 6 40. 0 40. 7 40. 8 40. 9 41. 6	1. 604 1. 611 1. 605 1. 618 1. 622 1. 624 1. 617 1. 636 1. 649 1. 657 1. 721 1. 729	59. 09 58. 78 58. 68 60. 34 60. 60 57. 62 60. 30 59. 74 62. 43 65. 71 66. 18 67. 55	40. 5 40. 4 40. 3 40. 8 41. 0 39. 6 40. 5 41. 4 42. 2 42. 1 42. 3	1. 459 1. 455 1. 456 1. 479 1. 478 1. 455 1. 489 1. 475	68. 12 66. 58 67. 46 70. 46 69. 62 72. 53 71. 71 72. 87 72. 39 73. 02 71. 78 75. 02	40. 5 39. 7 40. 2 41. 3 41. 0 42. 0 41. 5 42. 0 40. 9 41. 0 40. 1 41. 4	1. 682 1. 677 1. 678 1. 706 1. 698 1. 727 1. 728 1. 735	70. 14 67. 64 69. 08 73. 77 71. 66 75. 76 74. 35 75. 21 73. 81 75. 21 72. 76 76. 11	40. 9 39. 6 40. 4 42. 2 41. 4 42. 3 40. 6 41. 1 39. 5 40. 9	1. 715 1. 708 1. 710 1. 748 1. 731 1. 770 1. 766 1. 778 1. 818 1. 830 1. 842 1. 861	63. 62 65. 20 65. 69 65. 29 64. 96 65. 61 65. 32 66. 54 71. 18 70. 18 74. 69	40. 6 40. 7 40. 5 40. 8 40. 8 40. 7 41. 2 42. 4 42. 7 41. 9 42. 4 43. 2	1. 56 1. 60 1. 61 1. 61 1. 60 1. 60 1. 62 1. 62 1. 66 1. 67 1. 69 1. 72
1951: January	71. 15	41. 2	1.727	64. 53	41.1	1.570	71. 58	39.9	1. 794	71.02	38. 6	1.840	75. 34	43. 6	1. 72
							Ianufact								
		A 7		Aircra	ft engir	nes and	1	aft pro		Othor		nonto	Chin	- 1 h t	2 . 11.1
		Aircraft			parts	les and		nd par			aircraft equipn			nd boat nd repa	
1948: Average	\$60. 21 62. 69	41. 1 40. 5	\$1.465 1.548	\$63. 40 65. 24	40. 9 40. 7	\$1.550 1.603	\$62. 13 66. 83	39. 7 41. 0	\$1.565 1.630	\$63. 59 65. 08	41. 0 40. 4	\$1.551 1.611	\$60. 68 61. 67	38. 7 38. 0	\$1.568 1.623
1950: January February March April. May June July August September October November December	65. 00 64. 36 64. 24 64. 68 64. 48	40.7 40.6 40.3 40.2 40.6 40.5 40.8 42.6 42.7 42.1 41.5 42.3	1. 588 1. 601 1. 597 1. 598 1. 593 1. 592 1. 593 1. 603 1. 651 1. 643 1. 656 1. 691	65. 00 66. 34 66. 99 66. 10 68. 35 67. 85 70. 92 70. 94 74. 59 69. 48 80. 82 83. 63 82. 71	40. 1 40. 7 41. 1 40. 7 41. 6 41. 5 42. 7 42. 1 43. 8 39. 7 45. 0 45. 1	1. 621 1. 630 1. 630 1. 644 1. 643 1. 635 1. 661 1. 703 1. 750 1. 796 1. 842	68. 88 70. 18 66. 65 67. 06 63. 85 67. 25 71. 87 78. 68 77. 62 81. 17 80. 67 88. 54	42. 0 41. 6 40. 2 40. 3 39. 1 40. 2 42. 2 44. 4 43. 9 44. 6 43. 3 45. 9	1. 640 1. 687 1. 658 1. 664 1. 633 1. 703 1. 772 1. 768 1. 820 1. 863 1. 929	67. 40 67. 81 67. 97 67. 06 67. 73 67. 98 69. 04 68. 22 67. 53 77. 08 75. 91 79. 61	40. 9 41. 0 40. 8 40. 4 40. 9 41. 0 40. 8 39. 7 43. 6 45. 0	1. 648 1. 654 1. 666 1. 660 1. 656 1. 662 1. 672 1. 701 1. 768 1. 741 1. 769	61. 46 61. 16 62. 53 62. 08 63. 21 62. 39 64. 20 64. 84 62. 89 62. 89 64. 47 66. 31	37. 8 37. 5 38. 2 37. 9 38. 4 38. 3 38. 1 39. 2 38. 3 38. 3 38. 7 39. 8	1, 626 1, 631 1, 637 1, 638 1, 646 1, 629 1, 685 1, 654 1, 642 1, 666
•	72.00	10.1	1.002	02. /1	40.1		anufacti	45. 3	1. 922	79. 61	44. 5	1.789	63. 95	38. 5	1.661
					,					ntinued			-	-	
		ouilding epairing			buildin epairin	g and		ad equi			motives parts	and	Railroa	d and a	street-
1948: Average	\$61. 22 61. 88	38. 7 37. 8	\$1.582 1.637	\$51. 59 54. 84	39. 5 40. 5	\$1.306 1.354	\$62. 24 63. 54	40. 0 39. 2	\$1.556 1.621	\$63. 80		\$1.611		40. 2	\$1.513
1950: January February March April May June July August. September October November December	61. 74 61. 55 63. 30 62. 57 64. 02 62. 91 65. 04 65. 62 63. 36 63. 23 65. 08 66. 97	37. 6 37. 3 38. 2 37. 6 38. 2 37. 9 37. 9 39. 2 38. 1 38. 0 38. 6 39. 7	1. 642 1. 650 1. 657 1. 664 1. 676 1. 660 1. 716 1. 674 1. 663 1. 664 1. 686 1. 687	56. 00 54. 79 52. 83 55. 08 55. 34 56. 62 56. 24 55. 70 55. 50 57. 12 56. 54 57. 73	40. 7 40. 2 38. 7 40. 5 40. 9 42. 0 40. 9 40. 1 41. 3 40. 1 40. 6	1. 376 1. 363 1. 365 1. 360 1. 353 1. 348 1. 375 1. 396 1. 384 1. 383 1. 410 1. 422	61. 60 64. 89 64. 21 64. 52 64. 99 64. 56 64. 40 65. 29 68. 72 69. 04 69. 51 72. 42	38. 0 39. 4 39. 2 39. 2 39. 8 39. 2 39. 1 39. 5 40. 4 40. 0 40. 2 40. 8	1. 621 1. 647 1. 638 1. 646 1. 633 1. 647 1. 653 1. 701 1. 726 1. 729 1. 775	63. 29 67. 48 67. 42 67. 46 68. 59 67. 86 68. 64 68. 68 73. 05 74. 74 73. 53 76. 33	39. 3 38. 9 40. 0 40. 2 40. 9 39. 5 40. 4 40. 0 40. 9 41. 0 40. 4 40. 6	1. 666 1. 627 1. 687 1. 677 1. 678 1. 677 1. 718 1. 699 1. 717 1. 786 1. 823 1. 820 1. 880	59. 77 62. 07 60. 93 61. 19 61. 02 61. 58 60. 14 61. 85 64. 12 62. 86 65. 36 67. 98	38. 9 37. 1 38. 7 38. 2 38. 1 38. 5 39. 0 37. 8 39. 0 39. 8 38. 9 40. 1 41. 0	1. 586 1. 611 1. 604 1. 595 1. 606 1. 585 1. 579 1. 591 1. 586 1. 611 1. 616 1. 630 1. 658
1951: January	64. 47	38. 4	1. 679	58. 89	40. 7	1. 447	72. 98	41.3	1. 767	77. 88	41.6	1.872	67. 86	41. 2	1. 647

TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees 1—Con.

						M	anufacti	iring—(Continu	ed					
	Tran	nsportat	ion Con.				Ir	strume	nts and	related	produc	ts			
Year and month		transpo quipme			Instru lated pr		Opht	halmic	goods		otograp pparati		Watel	hes and	clocks
	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkiy. hours	Avg. hrly. earn- ings	Avg wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings
1948: Average	\$58. 14 57. 60	40. 8 39. 7	\$1. 425 1. 451	\$53. 45 55. 28	40. 1 39. 6	\$1.333 1.396	\$45. 54 47. 04	39. 7 39. 6	\$1.147 1.188	\$58. 64 59. 91	40. 5 39. 7	\$1.448 1.509	\$48. 84 49, 53	40. 1 39. 0	\$1, 218 1, 270
1950: January. February. March. April. May. June. July. August. September October. November December.	60. 03 58. 13 58. 58 60. 22 61. 06	41. 0 40. 4 39. 2 39. 5 40. 2 40. 9 40. 3 39. 8 46. 0 43. 5 44. 4 44. 6	1. 431 1. 486 1. 483 1. 483 1. 498 1. 493 1. 491 1. 515 1. 606 1. 593 1. 620	56. 49 56. 89 57. 40 57. 52 58. 34 58. 93 58. 98 61. 13 63. 58 64. 77 65. 47 66. 16	39.7 39.9 40.0 40.0 40.4 40.7 40.9 41.7 42.5 42.5 42.3	1. 423 1. 425 1. 435 1. 438 1. 444 1. 448 1. 442 1. 466 1. 524 1. 564 1. 564	46. 88 47. 60 47. 15 47. 63 49. 74 51. 21 52. 17 52. 17 54. 13 54. 50 55. 74	39. 2 39. 6 39. 0 39. 2 40. 6 41. 2 40. 9 41. 6 41. 7 41. 6 42. 1	1. 196 1, 202 1. 209 1. 215 1, 225 1. 243 1. 250 1, 254 1. 254 1. 310 1. 324	61. 60 61. 95 62. 23 63. 05 63. 21 63. 53 63. 32 65. 72 69. 15 69. 22 69. 60 70. 73	40.0 40.1 40.2 40.6 40.7 40.7 40.8 41.7 42.4 42.0 41.8 42.1	1. 540 1. 545 1. 548 1. 553 1. 553 1. 551 1. 552 1. 576 1. 631 1. 648 1. 665 1. 680	49. 86 50. 18 50. 57 50. 01 49. 97 49. 72 51. 25 51. 98 55. 15 58. 06 59. 47 58. 95 55. 06	38. 8 38. 9 38. 9 38. 5 38. 2 38. 1 39. 8 40. 7 41. 8 42. 0 41. 4	1, 285 1, 290 1, 300 1, 290 1, 308 1, 308 1, 314 1, 306 1, 355 1, 380 1, 416 1, 424
1951: January	07.01	41.0	1.000	01.02	11.0				Continu		11.0	1.0/1	00.00	00.0	1, 100
	relat	ruments	ucts-			11/			us manı		ng indu	stries			
		fessiona fic instr		ma	Miscel nufactu ndustri	ring	Jewel	ry, silve plated	erware, ware	Jewelr	ry and i	findings		verware lated wa	
1948: Average	\$54.78 57.01	40. 1 39. 7	\$1.366 1.436	\$50.06 50.23	40.9	\$1, 224 1, 259	\$57. 25 55. 06	43. 6 41. 4	\$1.313 1.330	\$50. 47 51. 33	41. 2 40. 8		\$62.38 58.30	45. 4 42. 0	\$1.374 1.388
1950: January February March April May June July August September October November December	58. 64 58. 71 59. 55 59. 59 60. 42 61. 08 60. 82 63. 11 65. 73 66. 78 67. 57 68. 16	40. 0 40. 1 40. 4 40. 4 40. 8 41. 3 41. 4 42. 1 43. 1 43. 0 42. 9 42. 6	1. 466 1. 464 1. 474 1. 475 1. 481 1. 479 1. 469 1. 525 1. 553 1. 575 1. 600	51. 78 51. 62 51. 82 51. 94 52. 47 52. 69 52. 47 54. 87 56. 04 56. 98 57. 01 57. 38	40. 2 40. 2 40. 2 40. 3 40. 3 40. 3 41. 6 42. 1 42. 3 42. 2 41. 7	1. 288 1. 284 1. 289 1. 292 1. 302 1. 301 1. 302 1. 319 1. 331 1. 347 1. 351 1. 376	59. 98 63. 48 65. 06 65. 19	41. 9 41. 4 42. 0 41. 2 41. 5 41. 3 41. 3 43. 4 44. 8 44. 9 44. 9 43. 8	1. 325 1. 351 1. 363 1. 363 1. 359 1. 356 1. 362 1. 382 1. 417 1. 449 1. 452 1. 439	51. 91 51. 31 52. 09 51. 89 52. 50 51. 55 50. 12 53. 68 57. 06 59. 03 58. 37 57. 35	41. 0 40. 4 40. 6 40. 1 40. 7 40. 4 39. 4 42. 0 43. 5 43. 4 42. 8	1. 270 1. 283 1. 294 1. 290 1. 276 1. 272 1. 278 1. 327 1. 357 1. 345	58. 40 60. 21 61. 42 59. 74 59. 57 59. 74 61. 10 65. 42 69. 56 70. 93 71. 56 68. 19	42. 6 42. 4 43. 1 42. 1 42. 1 42. 7 44. 5 46. 3 46. 2 44. 6	1. 371 1. 420 1. 411 1. 411 1. 411 1. 43 1. 470 1. 531 1. 541
1951: January	67. 15	42.1	1. 595	57.45	41.3	1, 391	62. 14	43.3	1, 435	57. 61	42.9	1.343	65. 97	43. 2	1.52
			IV.	Ianufac	turing-	Contin	ued			Т	ranspo	rtation s	and pub	olic utili	ties
				1			ries—Co	ntinued					1		
	Тоу	s and sr goods			tume je		ma	nufactu	iring	Clas	ss I rail	roads 4		al railwa bus line	
1948: Average		40.1 39.1	\$1.178 1.202	\$45.36 46.06	40. 0 39. 3	\$1.134 1.172		40. 7 40. 0		\$60.34 61.73					
1950: January February March April May June July August September October November December	48. 47 49. 24 49. 88 49. 84 49. 56 49. 27 51. 90 52. 11 53. 42 53. 90	41.4	1. 224 1. 234 1. 250 1. 246 1. 242 1. 241 1. 269 1. 268 1. 281 1. 302	47. 24 47. 24 47. 63 47. 54 47. 58 47. 34 48. 09 50. 55 51. 42 51. 40 52. 66 53. 22	41. 2 40. 6 41. 3	1, 202 1, 215 1, 222 1, 220 1, 220 1, 230 1, 242 1, 248 1, 266 1, 275	52. 59 52. 46 52. 55 53. 45 53. 98 53. 67 55. 62 56. 66 57. 75	42. 0 42. 4 42. 1	1, 305 1, 305 1, 304 1, 323 1, 323 1, 322 1, 337 1, 349 1, 362 1, 361	65. 46 63. 18 64. 54 64. 63	39. 8 41. 6 39. 9 40. 2 41. 9 39. 4 42. 7 40. 8 41. 8	1.567 1.532 1.546 2.1.536 2.1.536 3.1.553 7.1.533 7.1.533 7.1.533 1.560 3.1.544 4.1.561	65. 22 65. 53 65. 90 66. 56 67. 41 67. 47 66. 84 67. 42 67. 77 68. 26	44. 4 44. 4 44. 5 44. 8 45. 3 45. 1 44. 8 45. 1 45. 1 45. 1 45. 3 45. 1 45. 3 45. 1 45. 3 45. 1 45. 3 45. 1	1. 46 1. 47 1. 48 1. 48 1. 49 1. 49 1. 49 1. 49
1951: January	52.75	40.3	1.309	53. 63	40.6	1. 321	58. 56	41.3	1, 418				70. 50	45.9	1.5

See footnotes at end of table.

TABLE C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees ¹—Con.

					Tra	nsportat	ion and	public	utilities	-Conti	inued				
						Commu	ınicatio	n					Other	public i	ntilities
Year and month	Т	elephor	1e 6		chboard g emplo		stallat	onstruction, and ce empl	d main-	Т	'elegrap	h 9	Gas	and ele utilities	
	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings	Avg. wkly. earn- ings	Avg. wkly. hours	Avg. hrly. earn- ings
1948: Average	\$48. 92 51. 78	39. 2 38. 5	\$1. 248 1. 345							\$60. 26 62. 85	44. 7 44. 7	\$1.348 1.406	\$60.74 63.99	41. 8 41. 5	\$1.453 1.542
1950; January February March April May June July August September October November December	53. 69 52. 98 53. 44 53. 72 54. 19 54. 96 54. 71 55. 80 56. 18 54. 04 56. 42	38. 5 38. 6 38. 5 38. 7 38. 9 39. 1 39. 4 39. 3 39. 4 38. 0 39. 1	1. 380 1. 391 1. 376 1. 381 1. 381 1. 386 1. 395 1. 392 1. 409 1. 426 1. 422 1. 443	\$44. 58 45. 82 45. 03 46. 19 46. 20 46. 61 47. 73 47. 90 48. 00 49. 00 44. 93 47. 41	36. 8 36. 7 37. 4 37. 5 37. 8 38. 4 38. 6 38. 4 36. 0 37. 3	\$1. 228 1. 245 1. 227 1. 235 1. 232 1. 233 1. 243 1. 241 1. 250 1. 276 1. 271	\$72. 46 72. 33 70. 55 70. 76 71. 48 72. 28 72. 96 72. 64 76. 02 75. 91 74. 37 77. 95	42. 2 41. 6 41. 8 42. 0 42. 1 41. 7 42. 9 42. 5 41. 5 42. 9	\$1. 713 1. 714 1. 696 1. 701 1. 710 1. 721 1. 733 1. 742 1. 772 1. 786 1. 792 1. 817	62. 84 62. 97 62. 93 64. 13 65. 38 64. 21 64. 13 63. 99 64. 49 64. 74 64. 25 65. 05	44. 1 44. 1 44. 1 44. 6 45. 4 44. 9 45. 0 45. 0 44. 6 44. 8	1. 425 1. 428 1. 427 1. 438 1. 440 1. 430 1. 425 1. 442 1. 446 1. 445 1. 447	66. 09 65. 08 64. 81 65. 17 65. 17 65. 99 66. 52 65. 65 67. 35 67. 93 68. 68 70. 39	41. 7 41. 4 41. 2 41. 3 41. 5 41. 6 41. 5 41. 6 41. 8 41. 8	1. 588 1. 573 1. 573 1. 573 1. 578 1. 599 1. 583 1. 619 1. 624 1. 643 1. 668
1951: January	56, 34	38.8	1.452	47. 78	37.3	1. 281	77. 53	42.6	1.820	64. 57	44. 5	1. 451	70.31	42.1	1.670
	pub	sportation lie utilit continue	ies-						Tr	ade					
	Ot	her pub es—Cor	olic ntinued							R	etail tra	de			
		tric ligh ver utili		Who	olesale t	rade		trade (and dr places)		Gene	eral mer lise stor	chan- es	and	rtment general der hou	mail-
1948: Average	\$61.70 64.91	42.0 41.5	\$1.469 1.564	\$55. 58 57. 55	40. 9 40. 7	\$1.359 1.414	\$43. 85 45. 93	40. 3 40. 4	\$1, 088 1, 137	\$33.31 34.87	36. 6 36. 7	\$0.910 .950	\$37.36 39.31	37. 7 37. 8	\$0. 991 1. 040
1950: January February March April May June July August September October November December	64. 85 64. 97 65. 09 65. 74 68. 13 66. 39 68. 60 69. 18 69. 97	41. 7 41. 5 41. 2 41. 2 41. 3 41. 4 41. 8 41. 6 41. 8 41. 6 41. 9	1. 583 1. 573 1. 574 1. 577 1. 576 1. 588 1. 630 1. 603 1. 649 1. 655 1. 682 1, 708	58. 14 58. 27 58. 56 58. 79 59. 11 59. 93 61. 10 60. 90 60. 93 61. 68 61. 98 63. 60	40.6 40.3 40.3 40.1 40.4 40.6 40.9 40.7 40.9 40.8 41.3	1. 432 1. 446 1. 453 1. 466 1. 463 1. 476 1. 494 1. 489 1. 497 1. 508 1. 519 1. 540	46. 58 46. 26 46. 26 46. 47 46. 94 48. 06 48. 99 48. 48 48. 32 47. 92 47. 86	40. 4 40. 4 40. 3 40. 2 40. 4 40. 9 41. 2 41. 1 40. 4 40. 3 40. 0 40. 7	1. 153 1. 145 1. 148 1. 156 1. 162 1. 175 1. 189 1. 192 1. 200 1. 199 1. 198 1. 176	35. 68 35. 44 35. 04 34. 66 35. 49 36. 60 37. 32 37. 06 36. 11 36. 01 35. 24 35. 81	36. 9 36. 8 36. 5 36. 1 36. 4 37. 2 37. 7 37. 4 36. 4 36. 3 36. 3	. 967 . 963 . 960 . 975 . 984 . 990 . 991 . 992 . 992 . 979 . 940	40. 21 39. 85 39. 57 39. 83 40. 82 41. 86 42. 58 42. 33 42. 03 41. 24 43. 20	37. 9 37. 4 37. 4 37. 8 38. 3 38. 6 38. 2 37. 8 37. 8 40. 6	1. 061 1. 057 1. 058 1. 068 1. 093 1. 103 1. 108 1. 112 1. 109 1. 091
1951: January		42.1	1, 698	63. 44	40.8	1. 555	49. 82	40. 5	1. 230	37. 46	36. 8	1.018	43. 55	38.3	1, 137
							Trade	-Cont	inued						
			1	Retail tr	ade—C	ontinue	d				(Other re	tail trac	le	
	Foo	d and li stores	quor	Auto	omotive sories d	and ealers		oparel a ssories s			rniture liance s			ber and supply	
1948: Average	\$47. 15 49. 93	40. 3 40. 2	\$1.170 1.242	\$56. 07 58. 92	45. 4 45. 6	\$1, 235 1, 292	\$39.60 40.66	36. 5 36. 7	\$1.085 1.108	\$51. 15 53. 30	42.7 43.4	\$1. 198 1. 228	\$49.37 51.84	43. 5 43. 6	\$1.135 1.189
1950: January February March April May June July August September October November December	50. 85 50. 76 50. 93 50. 81 51. 82 53. 37 53. 04 52. 12 51. 80 52. 40	40. 0 40. 1 40. 0 40. 1 40. 1 40. 8 41. 5 40. 4 40. 0 40. 0 40. 3	1, 267 1, 268 1, 269 1, 270 1, 267 1, 270 1, 286 1, 278 1, 290 1, 295 1, 310 1, 313	58, 72 57, 76 59, 22 60, 36 60, 50 62, 29 63, 71 63, 66 63, 52 63, 94 63, 07 63, 52	45. 8 45. 3 45. 8 45. 9 45. 9 45. 7 45. 6 45. 6 45. 9 45. 8	1, 282 1, 275 1, 293 1, 318 1, 318 1, 357 1, 394 1, 396 1, 393 1, 377 1, 387	41. 07 40. 07 39. 64 40. 17 40. 37 40. 92 40. 77 40. 70 40. 98 40. 95 40. 65 42. 00	36. 7 36. 9 36. 5 35. 9 36. 5 36. 8 36. 9 37. 0 36. 2 36. 3 36. 1 37. 0	1. 119 1. 086 1. 086 1. 109 1. 106 1. 112 1. 105 1. 100 1. 132 1. 128 1. 126 1. 135	54. 81 53. 25 53. 30 54. 21 54. 89 55. 67 56. 16 57. 03 58 . 07 57. 68 57. 90 59. 80	43. 6 43. 4 43. 3 43. 4 43. 6 43. 7 43. 5 43. 5 43. 5 43. 5 43. 5 43. 5	1, 257 1, 227 1, 231 1, 249 1, 259 1, 274 1, 291 1, 311 1, 338 1, 326 1, 331 1, 353	51, 58 51, 72 51, 89 52, 84 54, 08 55, 06 55, 55 55, 91 56, 36 56, 93 55, 98 56, 16	43. 2 43. 1 43. 1 43. 6 43. 9 44. 4 44. 3 44. 2 44. 1 43. 6 43. 6	1. 194 1. 200 1. 204 1. 212 1. 232 1. 240 1. 254 1. 265 1. 278 1. 291 1. 284 1. 288
1951: January	53. 24	40.0	1.331	64, 62	45.7	1, 414	43. 25	37.0	1.169	58. 16	43.6	1.334	57. 25	43.7	1, 310

See footnotes at end of table.

Table C-1: Hours and Gross Earnings of Production Workers or Nonsupervisory Employees 1—Con.

		Finance 10						Se	rvice				
Year and month	Banks and trust com- panies	Security dealers and ex- changes	Insurance carriers	Hotels	s, year-ro	und 11		Laundrie	s	Clean	ing and d plants	yeing	Motion- picture produc- tion and distri- bution 10
	Avg. wkly. earnings	Avg. wkly. earnings	Avg. wkly. earnings	Avg. wkly. earnings	Avg. wkly. hours	Avg. hrly. earnings	Avg. wkly. earnings	Avg. wkly. hours	Avg. hrly. earnings	Avg. wkly. earnings	Avg. wkly. hours	Avg. hrly. earnings	Avg. wkly. earnings
1948: Average	\$41.51 43.64	\$66.83 68.32	\$54. 93 56. 47	\$31. 41 32. 84	44.3 44.2	\$0.709 .743	\$34. 23 34. 98	41.9 41.5	\$0.817 .843	\$39.50 40.71	41.1 41.2	\$0.961 .988	\$92. 27 92. 17
1950: January February March April May June July August September October November December	45. 52 45. 37 45. 83 45. 54 45. 42 46. 34 46. 36 46. 75 47. 78 48. 18	75. 78 77. 61 80. 08 83. 53 82. 70 81. 31 79. 88 79. 09 79. 29 84. 94 85. 62 88. 84	57. 78 57. 68 57. 19 58. 16 58. 02 58. 06 59. 09 58. 81 58. 20 58. 91 59. 27 60. 69	33. 06 33. 51 33. 07 33. 26 33. 34 33. 33 33. 51 33. 92 34. 30 34. 67 34. 74 35. 29	43. 9 43. 8 44. 0 44. 1 43. 8 44. 0 43. 8 44. 0 43. 7 44. 0	. 753 . 765 . 755 . 756 . 756 . 761 . 765 . 771 . 783 . 788 . 795 . 802	35. 15 34. 39 34. 56 34. 85 35. 74 36. 33 35. 61 34. 83 35. 79 35. 86 36. 33	41. 5 40. 8 41. 0 41. 7 42. 0 41. 5 40. 6 41. 3 41. 0 40. 8 41. 1	.847 .843 .843 .850 .857 .865 .858 .858 .870 .873 .879	40.75 30.26 40.40 4 0.48 4 3.69 44.03 4 2.02 40.16 42.56 42.15 42.37	41. 2 39. 9 40. 6 40. 4 43. 0 41. 4 40. 0 41. 6 41. 0 41. 2 41. 3	. 989 . 984 . 995 1. 002 1. 016 1. 024 1. 015 1. 004 1. 023 1. 028 1. 025 1. 026	87. 82 88. 94 91. 01 91. 23 94. 03 94. 73 91. 64 90. 70 93. 44 95. 08 95. 68 97. 70
1951: January	49.55	91.43	61.53	34. 94	43.3	. 807	36.61	40. 9	. 895	43.12	41.3	1.044	97.09

¹These figures are based on reports from cooperating establishments covering both full- and part-time employees who worked during, or received pay for, the pay period ending nearest the 15th of the month. For the mining, manufacturing, laundries, and cleaning and dyeing plants industries, data relate to production and related workers only. For the remaining industries, unless otherwise noted, data relate to nonsupervisory employees and working supervisors. All series are available upon request to the Bureau of Labor Statistics. Such requests should specify which industry series are desired. Data for the three current months are subject to revision without notation; revised figures for earlier months will be identified by asterisks the first month they are published.
¹Includes: ordnance and accessories; lumber and wood products (except furniture); furniture and fixtures; stone, clay, and glass products; primary metal industries; fabricated metal products (except ordnance, machinery, and transportation equipment); machinery (except electrical); electrical machinery; transportation equipment; instruments and related products; miscellaneous manufacturing industries.
³Includes: food and kindred products; tobacco manufactures; textile-mill products; apparel and other finished textile products; paper and allied products; printing, publishing, and allied industries; chemicals and allied products; printing, publishing, and allied industries; chemicals and allied products; products of petroleum and coal; rubber products; leather and leather products.

⁴ Data relate to hourly rated employees reported by individual railroads (exclusive of switching and terminal companies) to the Interstate Commerce Commission. Annual averages include any retroactive payments made, which are excluded from monthly averages.

A Data include privately and provided the control of the cont

Data include privately and municipally operated local railways and bus

 Data include privacely and management of the hours and earnings of employees subject to the Fair Labor Standards Act. Beginning with June 1949 the averages relate to the hours and earnings of nonsupervisory employments. ees. Data for June comparable with the earlier series are \$51.47, 38.5 hours, and \$1.337.

Data include employees such as switchboard operators, service assistants,

7 Data include employees such as switchboard operators, service assistants, operating-room instructors, and pay-station attendants.
8 Data include employees such as central office craftsmen; installation and exchange repair craftsmen; line, cable, and conduit craftsmen; and laborers.
9 Data relate mainly to land-line employees, excluding employees compensated on a commission basis, general and divisional headquarters personnel, trainees in school, and messengers.
10 Data on average weekly hours and average hourly earnings are not available.

able.

11 Money payments only; additional value of board, room, uniforms, and tips, not included.

Table C-2: Gross Average Weekly Earnings of Production Workers in Selected Industries, in Current and 1939 Dollars 1

Wass and month	Manufa	cturing	Bitum coal m		Laur	ndries	Wass and month	Manufa	cturing	Bitum coal m		Laun	idries
Year and month	Current	1939 dollars	Current dollars	1939 dollars	Current dollars	1939 dollars	Year and month	Current	1939 dollars	Current	1939 dollars	Current	1939 dollars
939: Average	\$23.86	\$23.86	\$23.88	\$23.88			1950: May	\$57. 54	\$33. 78	\$68.37	\$40.14	\$35.74	\$20.98
941: Average	29. 58	27. 95	30.86	29.16	19.00	17. 95	June	58.85	34. 37	69. 92	40.83	36. 33	21. 22
1946: Average	43.82	31. 27	58. 03	41. 41	30.30	21.62	July	59. 21	34. 22	69. 68	40. 27	35. 61	20. 58
948: Average	54. 14	31.43	72. 12	41.87	34. 23	19.87	August	60.32	34. 58	71.04	40.72	34. 83	19.97
949: Average	54. 92	32. 28	63. 28	37. 20	34. 98	20. 56	September	60.64	34. 52	71.92	40.94	35. 93	20.45
							October	61.99	35.09	72. 99	41.32	35. 79	20. 26
1950: January	56. 29	33. 27	47. 36	27.99	35. 15	20.77	November	62. 23	35. 07	73. 27	41. 29	35. 86	20. 21
February March	56. 37 56. 53	33. 37 33. 37	49. 83 78. 75	29. 50 46. 48	34. 39 34. 56	20. 36 20. 40	December 2	63. 84	35. 49	77.30	42. 97	36. 33	20. 20
April	56. 93	33. 58	72. 79	42. 94	34. 85	20. 40	1951: January 2	63. 67	34. 87	76.96	42.15	36. 61	20. 05

¹ These series indicate changes in the level of weekly earnings prior to and after adjustment for changes in purchasing power as determined from the Bureau's Consumers' Price Index, the year 1939 having been selected for the base period. Estimates of World War II and postwar understatement by

the Consumers' Price Index were not included. See the Monthly Labor Review, March 1947, p. 498. Data from January 1939 are available upon request to the Bureau of Labor Statistics.

Table C-3: Gross and Net Spendable Average Weekly Earnings of Production Workers in Manufacturing Industries, in Current and 1939 Dollars 1

	Gross a	verage		earı earı	average nings	weekly		Gross a	verage	Net sp	endable : earn		weekly
Period	weekly	earnings	Worke no depe	er with endents		er with endents	Period	weekly	earnings		er with endents		er with
	Amount	Index (1939= 100)	Cur- rent dollars	1939 dollars	Cur- rent dollars	1939 dollars		Amount	Index (1939= 100)	Cur- rent dollars	1939 dollars	Cur- rent dollars	1939 dollars
1941: January	47. 50 45. 45 43. 31 23. 86 25. 20 29. 58 36. 65 43. 14 46. 08 44. 39 43. 82	111. 7 199. 1 190. 5 181. 5 100. 0 105. 6 124. 0 153. 6 180. 8 193. 1 186. 0 183. 7 209. 4 226. 9 230. 2	\$25. 41 39. 40 37. 80 37. 30 23. 58 24. 69 28. 05 31. 77 36. 01 38. 29 36. 97 37. 72 42. 76 47. 43 48. 09	\$25.06 30.81 29.04 27.81 23.58 24.49 26.51 27.11 28.97 30.32 28.61 26.92 26.70 27.54	\$26. 37 45. 17 43. 57 42. 78 23. 62 24. 95 29. 28 36. 28 41. 39 44. 06 42. 74 43. 20 48. 24 53. 17 53. 83	\$26. 00 35. 33 33. 47 31. 90 23. 62 24. 75 27. 67 30. 96 33. 30 34. 89 30. 83 30. 12 30. 87 31. 64	1950: January February March April May June July August September October November December 2 1951: January 2	56. 93 57. 54 58. 85 59, 21 60. 32 60. 64 61. 99	235. 9 236. 3 236. 9 238. 6 241. 2 246. 6 248. 2 252. 8 254. 1 259. 8 260. 8 267. 6	\$48. 94 49. 00 49. 13 49. 46 49. 95 51. 03 51. 32 52. 24 52. 50 52. 16 52. 35 53. 64	\$28. 92 29. 01 29. 00 29. 18 29. 33 29. 80 29. 66 29. 96 29. 53 29. 50 29. 89 29. 53	\$54. 70 54. 76 54. 90 55. 23 55. 74 56. 86 57. 16 58. 11 58. 38 59. 20 59. 40 60. 72	\$32.3: 32.4: 32.4: 32.5: 32.7: 33.2: 33.0: 33.3: 33.2: 33.5: 33.4: 33.7(33.1:

¹ Net spendable average weekly earnings are obtained by deducting from gross average weekly earnings, social security and income taxes for which the specified type of worker is liable. The amount of income tax liability depends, of course, on the number of dependents supported by the worker as well as on the level of his gross income. Net spendable earnings have therefore, been computed for 2 types of income-receivers: (1) A worker with no dependents: (2) A worker with 3 dependents.

The computation of net spendable earnings for both factory worker with no dependents and the factory worker with 3 dependents are based upon the gross average weekly earnings for all production workers in manufacturing industries without direct regard to marital status and family composition.

The primary value of the spendable series is that of measuring relative changes in disposable earnings for 2 types of income-receivers. That series does not, therefore, reflect actual differences in levels of earnings for workers of varying age, occupation, skill, family composition, etc. Comparable data from January 1939 are available upon request to the Bureau of Labor Statistics.

2 Preliminary.

Note: Data for series based on 1939 dollars revised beginning January 1950 to conform to the Adjusted Series Consumers' Price Index.

Monthly data for 1950, based on Old Series Consumers' Price Index, are available upon request.

TABLE C-4: Average Hourly Earnings, Gross and Exclusive of Overtime, of Production Workers in Manufacturing Industries 1

	M	anufacturi	ng		able		lurable ods		M	anufacturi	ng		rable ods		urable ods
Period	Gross	Exclu			Ex- clud-		Ex- clud-	Period		Exclu			Ex-		Ex-
	amount	Amount	Index (1939= 100)	Gross	ing over- time	Gross	ing over- time		Gross amount	Amount	Index (1939= 100)	Gross	ing over- time	Gross	ing over- time
1941: Average 1942: Average 1943: Average 1944: Average 1946: Average 1946: Average 1947: Average 1948: Average 1949: Average 1950: January February	\$0. 729 . 853 . 961 1. 019 1. 023 1. 086 1. 237 1. 350 1. 401 1. 418 1. 420	\$0.702 .805 .894 .947 2.963 1.051 1.198 1.310 1.367	110. 9 127. 2 141. 2 149. 6 152. 1 166. 0 189. 3 207. 0 216. 0 218. 0 218. 3	\$0. 808 . 947 1. 059 1. 117 1. 111 1. 156 1. 292 1. 410 1. 469 1. 485 1. 483	\$0. 770 . 881 . 976 1. 029 2 1. 042 1. 122 1. 250 1. 366 1. 434 1. 445 1. 442	\$0. 640 . 723 . 803 . 861 . 904 1. 015 1. 171 1. 278 1. 325 1. 343 1. 350	\$0. 625 . 698 . 763 . 814 2. 858 . 981 1. 133 1. 241 1. 292 1. 307 1. 316	1950: March April May June July August September October November December 1951: January	\$1. 424 1. 434 1. 442 1. 453 1. 462 1. 464 1. 479 1. 501 1. 514 1. 542	\$1. 385 1. 392 1. 399 1. 404 1. 413 1. 408 1. 424 1. 442 1. 456 1. 478	218. 8 219. 9 221. 0 221. 8 223. 2 222. 4 225. 0 227. 8 230. 0 233. 5	\$1, 486 1, 499 1, 509 1, 522 1, 533 1, 539 1, 562 1, 577 1, 587 1, 617	\$1. 443 1. 449 1. 459 1. 465 1. 478 1. 475 1. 508 1. 521 1. 544	\$1. 353 1. 355 1. 355 1. 365 1. 375 1. 274 1. 379 1. 404 1. 419 1. 443	\$1. 31 1. 32 1. 32 1. 32 1. 33 1. 32 1. 33 1. 35 1. 37 1. 39

¹ Overtime is defined as work in excess of 40 hours per week and paid for at time and one-half. The computation of average hourly earnings exclusive of overtime makes no allowance for special rates of pay for work done on holidays. Comparable data from January 1941 are available upon request to the Bureau of Labor Statistics.

² Eleven-month average. August 1945 excluded because of VJ-holiday period.

3 Preliminary.

D: Prices and Cost of Living

TABLE D-1: Consumers' Price Index 1 for Moderate-Income Families in Large Cities, by Group of Commodities

[1935-39=100]

					Fuel	, electricity, a	nd refrigerati	on 3	Tougofum	Miscella-
Year and month	All items ²	Food	Apparel	Rent 2	Total	Gas and electricity	Other fuels	Ice	Housefur- nishings	neous 4
1913: Average	70. 7	79. 9	69. 3	92. 2	61. 9	(5)	(5)	(5)	59. 1	50. 5
1914: July	71. 7	81. 7	69. 8	92. 2	62. 3	(5)	(5)	(5)	60. 8	52.
1918: December	118. 0	149. 6	147. 9	97. 1	90. 4	(5)	(5)	(5)	121. 2	83.
1920: June	149. 4	185. 0	209. 7	119. 1	104. 8	(8)	(5)	(5)	169. 7	100.
1929: Average	122. 5	132. 5	115. 3	141. 4	112. 5	(5)	(5)	(5)	111. 7	104.
1932: Average	97. 6	86. 5	90. 8	116. 9	103. 4	(5)	(5)	(5)	85. 4	101.
1939: Average	99. 4	95. 2	100. 5	104. 3	99. 0	98. 9	99. 1	100. 2	101. 3	100.
August 15	98. 6	93. 5	100. 3	104. 3	97. 5	99. 0	95. 2	100. 0	100. 6	100.
1940: Average	100. 2	96. 6	101. 7	104. 6	99. 7	98. 0	101. 9	100. 4	100. 5	101.
1941: Average	105. 2	105. 5	106. 3	106. 2	102. 2	97. 1	108. 3	104. 1	107. 3	104.
January I	100. 8	97. 6	101. 2	105. 0	100. 8	97. 5	105. 4	100. 3	100. 2	101.
December 15	110. 5	113. 1	114. 8	108. 2	104. 1	96. 7	113. 1	105. 1	116. 8	107.
1942: Average	116. 5	123. 9	124. 2	108. 5	105. 4	96. 7	115. 1	110. 0	122. 2	110.
	123. 6	138. 0	129. 7	108. 0	107. 7	96. 1	120. 7	114. 2	125. 6	115.
	125. 5	136. 1	138. 8	108. 2	109. 8	95. 8	126. 0	115. 8	136. 4	121.
	128. 4	139. 1	145. 9	108. 3	110. 3	95. 0	128. 3	115. 9	145. 8	124.
	129. 3	140. 9	146. 4	(6)	111. 4	95. 2	131. 0	115. 8	146. 0	124.
1946: A verage	139. 3	159. 6	160. 2	108. 6	112. 4	92. 4	136. 9	115. 9	159. 2	128.
June 15	133. 3	145. 6	157. 2	108. 5	110. 5	92. 1	133. 0	115. 1	156. 1	127.
November 15	152. 2	187. 7	171. 0	(6)	114. 8	91. 8	142. 6	117. 9	171. 0	132.
1947: Average December 15	159. 2	193. 8	185. 8	111. 2	121. 1	92. 0	156. 1	125. 9	184. 4	139.
	167. 0	206. 9	191. 2	115. 4	127. 8	92. 6	171. 1	129. 8	191. 4	144.
1948: Average	171. 2	210. 2	198. 0	117. 4	133. 9	94. 3	183. 4	135. 2	195. 8	149.
December 15	171. 4	205. 0	200. 4	119. 5	137. 8	95. 3	191. 3	138. 4	198. 6	154.
1949: Average	169. 1	201. 9	190. 1	120. 8	137. 5	96. 7	187. 7	141.7	189. 0	154.
December 15	167. 5	197. 3	185. 8	122. 2	139. 7	97. 2	191. 6	145.5	185. 4	155.
1950: Average January 15 February 15. March 15. April 15. May 16. June 15. July 15 August 15 September 15 October 15. November 15 December 15	171. 9 168. 2 167. 9 168. 4 168. 5 169. 3 170. 2 172. 0 173. 4 174. 6 175. 6 176. 4 178. 8	204. 4 196. 0 194. 9 196. 6 197. 3 199. 8 203. 1 208. 2 209. 9 210. 0 210. 6 210. 8 216. 3	187. 7 185. 0 184. 9 185. 1 184. 9 184. 7 184. 6 184. 5 185. 7 189. 8 193. 0 194. 3	131. 0 129. 4 129. 7 129. 8 130. 1 130. 6 130. 9 131. 3 131. 6 131. 8 132. 0 132. 5	140.6 140.0 140.1 140.3 138.8 139.1 139.4 140.2 141.2 142.0 142.5	96. 8 96. 7 96. 9 96. 9 97. 0 96. 9 96. 8 96. 9 96. 8 96. 9 96. 8	194. 1 193. 1 192. 5 193. 1 192. 8 187. 6 189. 0 189. 9 192. 9 196. 1 199. 2 200. 8 201. 7	147. 8 145. 5 146. 8 146. 8 146. 8 147. 6 147. 6 148. 1 149. 9 151. 3	190. 2 184. 7 185. 2 185. 3 185. 4 185. 0 184. 8 186. 1 189. 1 194. 2 198. 7 201. 1 203. 2	156. 155. 155. 155. 154. 155. 154. 155. 156. 157. 158.
1951: January 15	181. 5	221. 9	198. 5	133. 2	143. 3	97. 2	202.3	152. 0	207. 4	162.
	181. 6	221. 6	199. 7	126. 0	144. 5	97. 2	201.8	152. 9	208. 9	163.
	183. 8	226. 0	202. 0	134. 0	143. 9	97. 2	204.5	152. 8	209. 7	163.
	184. 2	226. 0	203. 2	126. 8	145. 7	97. 2	204.7	153. 5	£11. 4	164.

¹ The "Consumers' price index for moderate-income families in large cities" formerly known as the "Cost-of-living index" measures average changes in retail prices of selected goods, rents, and services purchased by wage earners and lower-salaried workers in large cities. Until January 1950, time-to-time changes in retail prices were weighted by 1934-36 average expenditures of urban families. Weights used beginning January 1950 have been adjusted to current spending patterns.

Bureau of Labor Statistics Bulletin 699, Changes in Cost of Living in Large Cities in the United States, 1913-41, contains a detailed description of methods used in constructing this index. Additional information on the Consumers' Price Index is given in a compilation of reports published by the Office of Economic Stabilization, Report of the President's Committee on the Cost of Living. See also General Note, below.

Mimeographed tables are available upon request showing indexes for each of the cities regularly surveyed by the Bureau and for each of the major groups of living essentials. Indexes for all large cities combined are available since 1913. The beginning date for series of indexes for individual cities varies from city to city but indexes are available for most of the 34 cities since World

1913. The beginning date for series of indexes for individual cities varies from city to city but indexes are available for most of the 34 cities since World War I.

² The rent component in the old series did not reflect the differences between the rents at which newly constructed or converted dwellings enter the rental market and the rents for comparable existing housing.

Until 1950, no accurate measure of the resulting "new unit bias" was possible; but on the basis of comprehensive housing surveys conducted in early 1950, the Bureau has calculated the effect of the understatement from 1940 to 1950. The improved "rent" and "all items" indexes have been corrected beginning with January 1950. The old indexes have not been corrected. A complete description of the procedures used for estimating this factor and the estimates for each city are included in an article in this issue of the Monthly Labor Review.

3 The group index formerly entitled "Fuel, electricity, and ice" is now designated "Fuel, electricity, and refrigeration." Indexes are comparable with those previously published for "Fuel, electricity, and ice." The subgroup "Other fuels and ice" has been discontinued; separate indexes are presented for "Other fuels" and "Ice."

4 The Miscellaneous group covers transportation (such as automobiles and their upkeep and public transportation fares); medical care (including professional care and medicines); household operation (covering supplies and different kinds of paid services); recreation (that is, newspapers, motion pictures, radio, television, and tobacco products); personal care (barber, and beauty-shop service and toilet articles); etc.

4 Data not available.

5 Data not available 6 Rents not surveyed this month.

GENERAL NOTE:—In tables D-1 through D-6, the indexes beginning with January 1950 are the Consumers' Price Indexes adjusted to incorporate certain improvements, as announced by the Bureau on October 24, 1950. Technical notes describing the adjustments are published in this issue of the Monthly Labor Review (p. 421). The old series of indexes for 1951 are shown in italics for reference.

TABLE D-2: Consumers' Price Index for Moderate-Income Families, by City,1 for Selected Periods [1935-39=100]

						[1939-98	-100]								
City	Feb. 15, 1951	Jan. 15, 1951	Dec. 15, 1950	Nov.15, 1950	Oct. 15, 1950	Sept.15, 1950	Aug. 15, 1950	July 15, 1950	June 15, 1950	May 15, 1950	Apr. 15, 1950	Mar. 15, 1950	Feb. 15, 1950	Jan. 15, 1950	Feb. 15,
Average	183. 8	181.5	178.8	176. 4	175. 6	174. 6	173. 4	172.0	170. 2	169.3	168. 5	168. 4	167. 9	168. 2	184.2
Atlanta, Ga BaltImore, Md Birmingham, Ala Boston, Mass Buffalo, N. Y Chicago, Ill Cincinnati, Ohio Cleveland, Ohio Denver, Colo Detroit, Mich Houston, Tex	187. 5 (3) 189. 8 175. 5 (2) 188. 5 183. 9 186. 2 (3) 186. 2 191. 0	(3) (3) 188. 2 173. 5 180. 8 185. 4 182. 3 (3) 184. 9 184. 2 190. 1	(3) 183.1 183.9 171.2 (3) 183.4 178.4 (3) (3) (3) 181.3 186.1	4 180.7 (2) 180.8 169.7 (3) 180.6 176.1 179.6 (3) 179.8 183.0	(3) (3) 179. 3 169. 5 174. 1 180. 3 176. 1 (3) 178. 1 179. 1 182. 3	(3) 180. 6 179. 7 168. 2 (3) 179. 5 175. 9 (3) (3) 177. 5 182. 2	(3) 176. 8 168. 1 (3) 179. 0 173. 9 176. 5 (3) 175. 9 180. 6	(3) (3) 175. 4 167. 1 171. 5 177. 3 172. 0 (3) 172. 6 175. 0 177. 5	(3) 174. 7 171. 6 165. 5 (2) 175. 1 170. 5 (3) (3) 173. 5 175. 8	171. 7 (3) 170. 5 163. 6 (3) 174. 5 169. 7 171. 1 (3) 172. 1 175. 3	(3) (3) 169. 9 163. 0 167. 4 172. 9 168. 1 (3) 169. 7 170. 7 175. 1	(3) 172. 9 170. 0 162. 9 (3) 173. 0 168. 6 (3) (3) 170. 1 175. 9	170. 8 (3) 168. 2 161. 9 (3) 172. 4 168. 1 170. 3 (3) 169. 5 175. 0	(3) (3) 169. 0 162. 4 166. 6 172. 8 168. 5 (2) 168. 8 169. 7 175. 5	186.7 (3) 189.6 176.4 (3) 189.7 184.7 186.4 (3) 188.0 190.5
Indianapolis, Ind Jacksonville, Fla Kansas City, Mo Los Angeles, Calif Manchester, N. H Memphis, Tem Milwaukee, Wis Minneapolis, Minn Mobile, Ala New Orleans, La New York, N. Y	(3) (3) (3) (184.1 (3) (3) (187.5 (3) (3) (3) 187.9 180.8	184. 4 (3) 175. 6 181. 3 180. 6 (3) (3) (3) (3) (3) (3) (7) (3) (7) (7) (7) (8)	(3) 185. 6 (3) 178. 5 (3) 182. 7 (3) 177. 7 177. 1 (3) 175. 4	(2) (3) (3) 176. 2 (3) (2) 180. 3 (3) (3) 180. 1 173. 2	178. 9 (3) 169. 0 174. 8 176. 6 (3) (3) (3) (3) (3) (2) 172. 4	(3) 181. 7 (3) 173. 2 (3) 179. 2 (3) 179. 2 (3) 172. 8 173. 9 (2) 171. 7	(3) (3) (3) 172. 1 (3) 176. 6 (3) (3) 179. 6 169. 7	174. 4 (3) 166 9 170. 1 172. 1 (3) (3) (3) (3) (3) (6) 169. 8	(3) 176. 3 (2) 169. 3 (3) 172. 7 (3) 169. 1 168. 2 (3) 167. 0	(3) (3) (6) 169. 5 (3) (3) 172. 0 (3) (2) 174. 4 166. 1	171. 4 (3) 163. 2 169. 5 168. 0 (3) (2) (4) (2) (3) 165. 9	(2) 175. 6 (3) 169. 1 (3) 172. 8 (2) 167. 4 167. 4 (3) 165. 5	(3) (3) (6) 168. 9 (3) (6) 168. 6 (3) 173. 5 165. 1	171. 2 (3) 162. 5 169. 4 168. 0 (3) (3) (3) (3) (3) (2) 164. 8	(3) (3) (3) (182.0 (3) (3) (188.1 (3) (2) (188.6 (180.8
Norfolk, Va. Philadelphia, Pa. Philadelphia, Pa. Pittsburgh, Pa. Portland, Maine. Portland, Oreg. Richmond, Va. St. Louis, Mo. San Francisco, Calif. Savannah, Ga. Scranton, Pa. Scettle, Wash Washington, D. C.	187. 1 185. 4 185. 6 (3) (3) (3) (3) (3) (3) (3) 180. 8 188. 3 179. 2	(3) 181. 0 183. 4 (3) 190. 4 179. 8 (3) (3) (3) 189. 2 (3) (3) (3) (3)	(3) 178. 1 180. 2 171. 3 (3) (3) 178. 8 181. 5 (3) (3) (3) (3) (3)	179. 3 174. 1 178. 7 (3) (3) (3) (3) (3) (3) (3) (3) (3) 173. 1 183. 1 173. 5	(3) 173. 8 178. 8 (3) 184. 3 173. 8 (3) (3) 183. 6 (2) (3) (3)	(3) 173. 1 177. 4 168. 1 (3) (3) 174. 0 175. 3 (3) (2) (3) (2) (3) (3)	178. 8 171. 8 176. 0 (3) (3) (3) (3) (3) (3) (3) 171. 2 177. 3 170. 8	(3) 170. 4 172. 9 (3) 179. 3 170. 0 (3) 177. 7 (2) (3) (3)	(3) 169. 1 171. 8 164. 4 (3) (3) 168. 8 172. 4 (3) (2) (3) (3)	173. 6 167. 4 171. 0 (3) (3) (3) (3) (3) (3) (3) (4) 166. 6 174. 4 166. 8	(3) 166. 7 169. 9 (3) 175. 8 164. 7 (3) (3) 173. 4 (3) (3) (3) (3)	(3) 166. 8 169. 5 163. 7 (3) (2) 168. 0 172. 9 (3) (3) (3) (3)	170. 3 165. 9 169. 4 (2) (3) (3) (3) (3) (3) (3) (4) 164. 0 174. 3 166. 0	(3) 166. 4 170. 0 (3) 174. 9 164. 6 (3) (3) 172. 3 (3) (3) (3)	186. 4 185. 5 186. 7 (3) (3) (3) (3) (3) (3) (3) (3) (4) 183. 4 186. 8 179. 3

 $^{^1\,\}mathrm{The}$ indexes are based on time-to-time changes in the cost of goods and services purchased by moderate-income families in large cities. They do not indicate whether it costs more to live in one city than in another. $^2\,\mathrm{See}$ footnote 2, table D-1, p. 494.

³ Through June 1947, consumers' price indexes were computed monthly for 21 cities and in March, June, September, and December for 13 additional cities; beginning July 1947 indexes were computed monthly for 10 cities and once every 3 months for 24 additional cities according to a staggered schedule.

4 Corrected.

Table D-3: Consumers' Price Index for Moderate-Income Families, by City and Group of Commodities ¹

[1935-39=100]

							Fuel, e	electricity	, and refrig	geration				
City	Fo	bod	App	parel	Re	ent	Т	otal	Gas and	electricity	Housefu	rnishings	Miscel	laneous
	Feb. 15, 1951	Jan. 15, 1951	Feb. 15, 1951	Jan. 15, 1951	Feb. 15, 1951	Jan. 15, 1951	Feb. 15, 1951	Jan. 15, 1951	Feb. 15, 1951	Jan. 15, 1951	Feb. 15, 1951	Jan. 15, 1951	Feb. 15, 1951	Jan. 15, 1951
Average	226. 0	221. 9	202.0	198. 5	134. 0	133. 2	143. 9	143.3	97.2	97. 2	209. 7	207.4	163.2	162.
Atlanta, Ga. Baltimore, Md. Baltimore, Md. Birmingham, Ala. Boston, Mass Buffalo, N. Y. Chicago, Ill Cincinnati, Ohio. Cleveland, Ohio. Denver, Colo. Detroit, Mich. Houston, Tex	224. 0 237. 1 220. 8 213. 8 217. 9 232. 9 226. 9 232. 7 229. 0 228. 3 235. 6	223. 4 231. 8 219. 8 209. 1 215. 5 225. 1 223. 7 227. 4 227. 8 223. 7 236. 0	211. 2 (¹) 213. 3 187. 1 (¹) 204. 6 203. 6 203. 2 (¹) 195. 5 218. 6	(1) (1) 210. 7 184. 4 193. 2 202. 3 200. 9 (1) 200. 9 192. 6 216. 8	146. 4 (2) 192. 8 (2) (2) (2) (2) (2) (143. 3 (2) (2) (2) 167. 4	(2) (2) (2) (2) (136. 9 (2) (2) (2) (2) (159. 2 137. 8 (2)	155. 9 147. 6 138. 6 160. 0 153. 8 138. 2 150. 8 150. 0 113. 7 154. 1 98. 6	154. 4 146. 8 137. 6 159. 7 152. 1 137. 5 150. 8 150. 0 113. 3 154. 1 98. 6	83. 3 115. 3 79. 6 117. 2 110. 0 83. 5 101. 2 105. 6 69. 7 90. 4 82. 1	83. 3 115. 5 79. 6 117. 1 110. 0 83. 5 101. 2 105. 6 69. 7 90. 4 82. 1	210. 0 (¹) 198. 4 199. 5 (¹) 195. 7 198. 4 190. 9 (¹) 225. 9 202. 9	(1) (1) 196. 6 197. 7 206. 1 194. 0 194. 1 (1) 241. 5 223. 4 200. 1	168. 5 (¹) 158. 7 158. 3 (¹) 164. 1 162. 9 158. 6 (¹) 173. 3 166. 5	(1) (1) 157. 157. 166. 163. 162. (1) 156. 172. 165.
Indianapolis, Ind	220. 6 231. 5 210. 5 226. 9 218. 9 230. 8 227. 4 217. 9 222. 5 239. 8 227. 0	218. 6 229. 0 208. 5 226. 3 215. 1 227. 6 219. 6 213. 8 220. 4 237. 8 221. 0	(1) (1) (1) (1) 196. 9 (1) (1) 203. 3 (1) (1) 209. 1 200. 6	196. 2 (¹) 194. 0 191. 3 188. 9 (¹) (¹) (¹) (¹) (¹) (¹)	(2) (2) (2) (159. 4 (2) (2) (2) (158. 0 (2) (2) (2) (36. 1 (2)	141.1 (2) 142.5 (2) 126.7 (2) (2) (2) (2) (2) (2) (2) (114.5	163. 9 153. 4 128. 9 98. 7 162. 2 141. 5 149. 7 142. 3 130. 3 113. 2 142. 9	163.9 153.0 129.4 98.7 162.2 141.4 148.7 142.3 130.0 113.2 142.1	86. 6 102. 7 68. 3 93. 0 103. 3 77. 0 99. 2 78. 1 84. 7 75. 1 101. 8	86. 6 102. 7 68. 6 93. 0 103. 3 77. 0 99. 2 78. 1 84. 5 75. 1 101. 8	(1) (1) (1) (201. 6 (1) (1) (210. 5 (1) (1) (205. 6 200. 2	195. 2 (1) 191. 1 199. 9 210. 6 (1) (1) (1) (1) (1) (1) (1) 196. 9	(1) (1) (1) (1) 160. 7 (1) (1) 157. 6 (1) (1) 150. 8 167. 0	168.4 (1) 163.4 159. 155.3 (1) (1) (1) (1) (1) (1) (1) (1)
Norfolk, Va. Philadelphia, Pa. Pittsburgh, Pa. Pittsburgh, Pa. Portland, Maine. Portland, Oreg. Richmond, Va. St. Louis, Mo. St. Louis, Mo. Savannah, Ga. Scranton, Pa. Seattle, Wash. Washington, D. C.	231. 1 222. 2 227. 4 211. 0 247. 4 218. 3 240. 0 235. 3 231. 5 223. 7 231. 7	225. 2 217. 7 222. 4 207. 9 243. 4 215. 6 234. 0 238. 0 229. 8 217. 7 230. 2 221. 2	192. 5 201. 1 232. 5 (1) (1) (1) (1) (1) (1) (1) (1) (2) 210. 5 201. 8 222. 5	(1) 196. 9 227. 0 (1) 196. 5 198. 1 (1) (1) (1) 196. 1 (1) (1) (1) (1)	146. 6 126. 1 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	(2) (2) 123. 7 (2) 144. 9 148. 5 (2) (2) (2) 158. 5 (2) (2) (2)	164. 6 149. 7 149. 9 155. 3 135. 3 148. 3 143. 0 86. 5 156. 6 158. 3 132. 0 149. 1	164. 6 148. 1 148. 8 155. 0 135. 1 148. 3 142. 8 86. 5 156. 4 152. 0 131. 8 147. 4	107. 3 104. 2 114. 2 105. 6 93. 9 102. 2 88. 4 76. 2 108. 6 98. 3 92. 6 105. 5	107. 3 104. 2 114. 2 105. 7 93. 9 102. 2 88. 4 76. 2 108. 6 98. 3 92. 6 105. 5	203. 0 220. 8 214. 7 (¹) (¹) (¹) (¹) (¹) (¹) 185. 7 213. 5 222. 4	(1) 219. 1 213. 9 (1) 203. 1 220. 8 (1) (1) 209. 8 (1) (1) (1)	161. 2 168. 0 159. 9 (1) (1) (1) (1) (1) (1) (1) 150. 5 168. 7 164. 3	(1) 161. (1) 159. 7 (1) 166. 8 152. 4 (1) (1) 165. 7 (1) (1)

 $^{^1}$ Prices of apparel, house furnishings, and miscellaneous goods and services are obtained monthly in 10 cities and once every 3 months in 24 additional cities on a staggered schedule.

 $^{^{2}\,\}mathrm{Rents}$ are surveyed every 3 months in 34 large cities on a staggered schedule.

TABLE D-4: Indexes of Retail Prices of Foods, by Group, for Selected Periods

[1935-39=100]

		Cere-	Meats,		M	eats				D - !			Fruits	and veg	getables			Fats	Suga
Year and month	All foods	and bakery prod- ucts	poul- try, and fish	Total	Beef and veal	Pork	Lamb	Chick- ens	Fish	Dairy prod- ucts	Eggs	Total	Fro- zen ²	Fresh	Can- ned	Dried	Bever- ages	and oils	and sweet
1923: Average	124. 0 137. 4 132. 5 86. 5 95. 2 93. 5 96. 6	82. 6 94. 5 93. 4	79.3	96. 6 95. 4 94. 4	101. 1 99. 6 102. 8	88. 9 88. 0 81. 1		93. 8 94. 6 94. 8	99.6	129. 4 127. 4 131. 0 84. 9 95. 9 93. 1 101. 4	82.3	103. 5		173. 6 226. 2 173. 5 105. 9 95. 1 92. 8 97. 3	124. 8 122. 9 124. 3 91. 1 92. 3 91. 6 92. 4	152. 4 171. 0 91. 2 93. 3	95. 5 94. 9	126. 2 145. 0 127. 2 71. 1 87. 7 84. 5 82. 2	120. 114. 89. 100.
1941 : Average	105. 5 113. 1 123. 9 138. 0 136. 1 139. 1 140. 9	97. 9 102. 5 105. 1 107. 6 108. 4 109. 0 109. 1	111.1 126.0	106. 5 109. 7 122. 5 124. 2 117. 9 118. 0 118. 1	114. 4 123. 6 124. 7	100. 1 103. 2 120. 4 119. 9 112. 2 112. 6 112. 6		102. 1 100. 5 122. 6 146. 1 151. 0 154. 4 157. 3	124. 5 138. 9 163. 0 206. 5 207. 6 217. 1 217. 8	112. 0 120. 5 125. 4 134. 6 133. 6 133. 9 133. 4	138. 1 136. 5 161. 9	110. 5 130. 8 168. 8 168. 2 177. 1		104. 2 111. 0 132. 8 178. 0 177. 2 188. 2 196. 2	97. 9 106. 3 121. 6 130. 6 129. 5 130. 2 130. 3	118.3 136.3 158.9 164.5 168.2	124.7	94. 0 108. 5 119. 6 126. 1 123. 3 124. 0 124. 0	126. 127. 126. 126.
June November	159. 6 145. 6 187. 7	125. 0 122. 1 140. 6	161.3 134.0 203.6	150. 8 120. 4 197. 9	150. 5 121. 2 191. 0	148. 2 114. 3 207. 1	163. 9 139. 0 205. 4	162.8	236, 2 219, 7 265, 0	165. 1 147. 8 198. 5		183. 5		190. 7 196. 7 182. 3	140. 8 127. 5 167. 7		139. 6 125. 4 167. 8	152. 1 126. 4 244. 4	143. 136. 170.
1947: Average	193.8	155. 4	217.1	214.7	213. 6	215. 9	220.1	183. 2	271.4	186. 2	200. 8	199.4		201. 5	166, 2	263, 5	186. 8	197. 5	180.
1948: Average	210. 2	170.9	246. 5	243. 9	258. 5	222. 5	246. 8	203. 2	312, 8	204. 8	208. 7	205, 2		212. 4	158.0	246. 8	205. 0	195. 5	174.
1949; Average	201. 9	169.7	233. 4	229.3	241.3	205. 9	251.7	191.5	314.1	186. 7	201.2	208.1		218.8	152.9	227. 4	220.7	148. 4	176.
1950: Average January February March April May June July August September October November December December January June September October November December December Sanuary September October November December September September December September Septem	204. 5 196. 0 194. 9 196. 6 197. 3 199. 8 203. 1 208. 2 209. 9 210. 0 210. 6 210. 8 216. 3	169. 1 169. 1 169. 3 169. 8 169. 8 171. 5 176. 9 177. 2	222. 0 229. 3 231. 1 240. 2 246. 5 255. 7 260. 7 261. 0 253. 3	242. 0 217. 9 220. 2 224. 1 224. 6 238. 4 246. 7 257. 4 259. 6 260. 2 252. 0 249. 6 253. 8	241. 8 244. 6 246. 4 258. 7 268. 6 277. 2 282. 2 281. 7 279. 6 279. 2	183. 6 188. 3 185. 4 202. 8 209. 1 225. 9 225. 0 228. 3 209. 3	234.3 238.6 246.5 251.9 262.1 268.1 269.0 266.9 264.2 259.4 264.1	158. 9 164. 9 180. 6 187. 8 184. 4 185. 1 189. 8 202. 3 199. 2 187. 2 180. 1	301. 9 294. 1 301. 8 297. 5 293. 7 295. 9 297. 3 302. 8 311. 4 328. 8 336. 6	184. 2 183. 6 182. 4 179. 6 178. 3 177. 8 180. 7 184. 3 186. 9 191. 9	140. 8 149. 5 149. 8 143. 7 148. 4 163. 3 182. 2 192. 1 206. 2 205. 4	204. 8 199. 3 195. 1 198. 9 202. 2 209. 3 211. 5 193. 4 186. 0 189. 8		206. 1 217. 2 208. 7 202. 0 208. 1 213. 6 224. 3 227. 7 196. 9 183. 9 187. 7 195. 9 207. 3	146.0 143.3 142.7 142.6 142.3 142.0 142.7 145.7 147.6 151.6 153.2 155.3	223. 9 222. 1 221. 5 221. 6 222. 9 222. 9 222. 9 227. 6 229. 8 236. 1 242. 2	299. 5 303. 3 308. 5	135. 2 133. 6 134. 3 135. 6 137. 7 140. 1 141. 8 153. 9 154. 8 152. 9 152. 9	174. 174. 175. 185. 185. 184. 184.
1951: January February	221. 9 226. 0		263. 6 270. 1	265. 5 271. 2		210. 2 215. 2									160. 6 165. 1		340. 6 342. 7	171. 5 176. 5	

¹ The Bureau of Labor Statistics retail food prices are obtained monthly during the first three days of the week containing the fifteenth of the month, through voluntary reports from chain and independent retail food dealers. Articles included are selected to represent food sales to moderate-income families.

The indexes besed on retail prices of 50 foods through 1000 and 50 foods.

The indexes, based on retail prices of 50 foods through 1949 and 59 foods from January 1950 to date are computed by the fixed-base-weighted-aggregate method, using weights representing (1) relative importance of chain and independent store sales, in computing city average prices; (2) food purchases

by families of wage earners and moderate-income workers, in computing city indexes; and (3) population weights, in combining city aggregates in order to derive average prices and indexes for all cities combined. Indexes of retail food prices in 56 large cities combined, by commodity groups, for the years 1923 through 1948 (1935–39=100), may be found in Bulletin No. 965, "Retail Prices of Food, 1948," Bureau of Labor Statistics, U. S. Department of Labor, table 3, p. 7. Mimeographed tables of the same data, by months, January 1935 to date, are available upon request.

2 December 1950=100.

Table D-5: Indexes of Retail Prices of Foods, by City

[1935-39=100]

						[1935-39=	=100]								
City	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Feb.
	1951	1951	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1951
United States	226.0	221.9	216.3	210.8	210.6	210,0	209.9	208. 2	203.1	199.8	197.3	196.6	194.9	196.0	226.0
Atlanta, Ga Baltimore, Md Birmingham, Ala Boston, Mass Bridgeport, Conn	224. 0	223. 4	217. 0	208. 3	208. 6	210. 2	210. 1	202. 0	195. 4	193. 8	194. 1	195. 6	190. 1	192. 5	225. 4
	237. 1	231. 8	226. 4	220. 5	221. 2	221. 8	222. 0	220. 4	215. 6	210. 0	207. 1	207. 1	205. 0	206. 6	237. 7
	220. 8	219. 8	212. 3	203. 0	202. 7	206. 4	201. 5	199. 8	192. 2	191. 8	189. 9	189. 2	183. 0	186. 4	218. 7
	213. 8	209. 1	204. 1	201. 5	201. 9	200. 1	202. 9	202. 0	196. 1	190. 6	186. 6	187. 9	185. 4	186. 6	214. 3
	224. 1	220. 9	214. 6	209. 1	210. 8	206. 8	208. 4	210. 0	204. 0	199. 8	197. 4	196. 9	192. 6	195. 5	224. 8
Buffalo, N. Y	217. 9	215. 5	207. 5	205. 7	204. 0	202. 6	203. 5	204. 9	199. 0	193. 9	192. 3	191. 6	189. 4	189. 8	218.8
Butte, Mont.	222. 5	220. 7	215. 8	212. 2	212. 0	209. 4	209. 1	204. 9	203. 0	198. 5	196. 7	194. 5	193. 9	194. 1	224.3
Cedar Rapids, Iowa I	230. 6	229. 2	225. 9	220. 2	220. 6	219. 2	218. 8	211. 9	208. 6	205. 5	201. 1	201. 0	200. 3	200. 3	233.4
Charleston, S. O	213. 2	208. 9	203. 2	195. 5	196. 7	198. 9	199. 9	192. 8	188. 0	186. 1	185. 6	186. 8	183. 3	185. 3	213.0
Chicago, Ill	232. 9	225. 1	221. 6	214. 8	215. 0	214. 7	217. 0	214. 8	208. 4	206. 0	201. 1	201. 1	198. 6	199. 9	234.0
Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dallas, Tex Denver, Colo	226. 9	223. 7	215. 9	210. 7	212. 6	214. 2	213. 2	210. 2	205. 1	202. 0	197. 7	198. 2	197. 0	197. 4	226.9
	232. 7	227. 4	220. 9	217. 8	219. 1	217. 5	218. 3	216. 6	211. 2	205. 7	203. 1	201. 8	201. 7	202. 6	232.5
	206. 7	200. 7	197. 4	191. 1	192. 5	193. 2	194. 0	189. 9	183. 9	182. 1	179. 5	179. 2	177. 5	177. 2	208.5
	228. 7	225. 9	221. 1	213. 1	213. 5	215. 6	214. 2	207. 2	201. 5	199. 8	197. 1	197. 0	197. 9	198. 4	228.8
	229. 0	227. 8	223. 6	216. 0	215. 1	212. 2	214. 8	209. 6	205. 9	203. 0	199. 0	199. 0	196. 6	196. 8	226.6
Detroit, Mich	228. 3	223. 7	217. 2	213. 5	212. 5	209. 7	208. 8	208. 0	202. 9	198. 7	194. 9	192. 8	190. 8	191. 8	230.9
	220. 8	216. 0	211. 4	206. 2	207. 6	205. 6	207. 7	207. 2	200. 7	195. 6	193. 7	192. 7	190. 8	191. 9	223.2
	235. 6	236. 0	227. 5	222. 1	222. 3	223. 3	221. 9	212. 8	208. 1	206. 3	206. 6	209. 2	206. 0	207. 7	237.8
	220. 6	218. 6	214. 9	208. 8	208. 6	210. 3	208. 8	203. 4	198. 1	196. 1	193. 3	192. 7	191. 2	192. 3	222.5
	226. 4	223. 1	216. 0	211. 6	213. 9	213. 9	213. 2	206. 0	201. 0	201. 2	199. 9	198. 7	196. 7	199. 9	226.4
Jacksonville, Fla Kansas City, Mo Knoxville, Tenn. ¹ Little Rock, Ark Los Angeles, Calif	231. 5	229. 0	223. 1	215. 3	215. 2	219. 1	218. 1	211. 4	205. 8	202, 8	201. 5	202. 3	199. 0	200. 7	232. 2
	210. 5	208. 5	203. 2	198. 1	196. 2	195. 8	194. 9	195. 0	189. 2	187, 2	184. 7	183. 5	182. 8	183. 6	211. 4
	253. 1	248. 6	243. 6	235. 0	235. 8	238. 5	238. 5	227. 9	223. 1	220, 6	219. 3	218. 8	216. 7	216. 7	253. 5
	225. 2	222. 7	217. 1	211. 7	210. 9	211. 5	210. 7	204. 2	200. 1	196, 8	195. 6	196. 0	195. 0	196. 4	226. 5
	226. 9	226. 3	218. 0	212. 1	210. 9	207. 8	208. 6	204. 4	201. 6	201, 3	201. 6	199. 5	198. 9	201. 4	222. 9
Louisville, Ky.	214. 5	210.0	203. 3	198. 0	198. 0	199. 4	197. 8	197. 6	192. 0	187. 8	183. 1	184.1	183.0	183. 7	215.6
Manchester, N. H.	218. 9	215.1	210. 1	207. 4	208. 8	206. 2	207. 3	206. 3	200. 6	196. 2	192. 6	193.3	190.4	191. 6	220.8
Memphis, Tenn	230. 8	227.6	224. 0	218. 3	220. 1	221. 5	219. 4	213. 6	208. 3	205. 8	203. 4	204.8	202.9	203. 1	229.0
Milwaukee, Wis	227. 4	219.6	216. 3	213. 0	212. 3	212. 3	213. 7	212. 7	206. 6	204. 2	198. 9	199.0	196.4	196. 3	228.3
Minneapolis, Minn	217. 9	213.8	206. 8	202. 1	200. 7	199. 1	200. 7	196. 8	194. 1	191. 3	187. 1	187.2	187.5	189. 1	219.0
Mobile, Ala Newark, N. J New Haven, Conn New Orleans, La New York, N. Y	222. 5	220. 4	213. 2	208. 8	207. 4	210. 2	212.6	204. 7	200. 1	199. 8	199. 7	198. 7	194. 8	196. 4	222.9
	225. 5	220. 2	215. 3	209. 1	208. 2	206. 3	206.3	206. 8	203. 3	198. 3	195. 7	193. 9	191. 0	192. 4	222.6
	220. 0	214. 0	208. 7	203. 6	205. 4	203. 6	203.8	204. 5	199. 8	194. 9	192. 3	192. 3	190. 1	190. 6	220.4
	239. 8	237. 8	228. 2	220. 7	221. 5	225. 2	227.0	218. 5	212. 9	210. 8	211. 3	209. 8	207. 4	209. 6	240.2
	227. 0	221. 0	216. 1	211. 3	210. 2	210. 6	207.2	209. 2	203. 7	200. 3	198. 7	197. 2	195. 9	195. 9	226.0
Norfolk, Va. Omaha, Nebr. Peoria, Ill. Philadelphia, Pa. Pittsburgh, Pa.	231. 1	225. 2	214. 8	210. 8	211. 8	216. 3	217. 6	210. 3	205. 9	202. 1	199. 1	198. 7	195. 1	194. 8	231.7
	216. 4	213. 7	209. 8	203. 6	202. 3	203. 5	203. 9	199. 6	197. 2	195. 5	190. 2	190. 0	188. 6	189. 8	218.1
	236. 5	233. 4	226. 9	224. 4	225. 0	224. 2	224. 3	221. 2	216. 8	211. 9	208. 3	207. 4	206. 5	205. 9	239.3
	222. 2	217. 7	212. 9	206. 7	207. 9	208. 8	208. 1	205. 9	201. 4	195. 5	193. 6	193. 4	190. 2	191. 3	220.2
	227. 4	222. 4	218. 0	213. 8	215. 9	214. 6	213. 3	211. 1	207. 5	205. 1	201. 0	198. 5	198. 4	199. 7	226.4
Portland, Maine Portland, Oreg Providence, R. I Richmond, Va Rochester, N. Y	211. 0	207. 9	202. 9	198. 1	198. 9	197. 7	198. 0	198. 9	193. 0	189. 2	188. 2	190.3	186. 7	187. 3	212.3
	247. 4	243. 4	234. 9	230. 7	228. 7	228. 5	227. 5	224. 2	219. 1	216. 6	212. 9	211.3	212. 1	210. 4	246.7
	230. 8	225. 1	219. 3	213. 7	214. 4	213. 6	214. 4	213. 5	207. 9	203. 0	199. 6	198.8	197. 0	198. 3	233.2
	218. 3	215. 6	210. 3	201. 6	202. 0	202. 9	202. 9	200. 7	195. 2	191. 1	189. 0	189.3	187. 9	188. 3	219.3
	216. 2	212. 2	206. 1	202. 6	204. 5	202. 0	201. 7	203. 4	196. 4	193. 7	189. 6	191.2	190. 0	190. 7	216.0
St. Louis, Mo	240. 0	234. 0	229. 7	221. 2	220. 2	220. 4	220. 8	220. 1	210. 2	207. 2	202. 6	204. 7	202. 8	204. 6	240.8
St. Paul, Minn	212. 9	210. 5	202. 8	198. 4	196. 9	195. 3	195. 7	194. 4	192. 5	189. 7	186. 3	187. 0	186. 6	186. 4	212.7
Salt Lake City, Utah	225. 6	222. 2	217. 2	212. 4	211. 4	210. 9	210. 1	202. 8	202. 2	199. 2	196. 2	196. 8	198. 8	198. 7	225.5
San Francisco, Calif	235. 3	238. 0	229. 0	219. 3	217. 0	214. 3	217. 3	215. 9	211. 1	210. 4	210. 8	210. 5	211. 9	214. 3	236.8
Savannah, Ga	231. 5	229. 8	223. 0	214. 9	215. 9	217. 9	219. 5	211. 6	206. 3	203. 6	200. 0	200. 0	195. 6	197. 0	232.8
Scranton, Pa	223. 7	217. 7	212. 1	207. 1	207. 2	208. 9	209. 8	209. 5	204. 2	199. 6	194. 0	194. 7	191, 4	192, 4	223. 4
Seattle, Wash	231. 7	230. 2	225. 7	221. 8	218. 0	214. 1	214. 6	211. 4	208. 6	206. 9	205. 6	204. 4	205, 3	205, 8	229. 7
Springfield, Ill	238. 2	233. 7	231. 7	223. 1	222. 1	218. 6	219. 8	218. 6	211. 8	207. 5	202. 7	201. 8	200, 7	200, 9	237. 8
Washington, D. C	223. 3	221. 2	216. 7	208. 9	208. 9	207. 0	207. 4	205. 8	201. 9	196. 9	194. 4	194. 7	194, 0	194, 4	223. 3
Wichita, Kans.!	235. 9	231. 1	230. 0	218. 4	219. 0	218. 9	220. 4	214. 0	209. 4	207. 6	204. 6	206. 9	205, 0	205, 9	238. 1
Winston-Salem, N. C.!	221. 3	217. 6	214. 1	205. 7	207. 5	207. 8	207. 4	200. 8	197. 3	193. 1	192. 6	193. 7	189, 2	191, 0	222. 7

¹ June 1940—100.

TABLE D-6: Average Retail Prices and Indexes of Selected Foods

	Aver- age						In	dexes 19	35-39=	100					
Commodity	Feb. 1951	Feb. 1951	Jan. 1951	Dec. 1950	Nov. 1950	Oct. 1950	Sept. 1950	Aug. 1950	July 1950	June 1950	May 1950	Apr. 1950	Mar. 1950	Feb. 1950	Jan. 1950
Cereals and bakery products: Cereals: Flour, wheat	Cents 51.4 20.7 9.6 18.2	199. 0 193. 9 202. 8 101. 5	196.3 192.5 200.5 100.7	192.5 191.7 197.8 101.0	191.3 190.9 197.9 98.6	192. 4 187. 4 204. 0 97. 5	192, 9 182, 7 205, 4 96, 8	192.6 177.2 205.9 95.5	190. 6 177. 1 190. 9 92. 4	190. 5 176. 5 181. 9 93. 1	190. 2 177. 0 179. 9 93. 0	189. 2 176. 9 176. 6 92. 8	188. 1 177. 0 176. 3 92. 4	187. 7 177. 4 176. 2 92. 4	187.3 177.8 177.7 92.5
Bakery products: Bread, whitepound_ Vanilla cookiesdo Layer cake ' \$do Meats, poultry, and fish: Meats:	17.1 15.7 49.5 48.7	155. 2 183. 0 211. 6 105. 8	154. 5 182. 2 209. 8 103. 1	153.4 172.0 201.7 100.0	152, 5 171, 9 202, 8	150.3 171.9 201.3	146.8 171.5 201.6	146. 1 171. 1 197. 0	145.8 166.2 193.3	145.8 163.9 191.7	145. 9 164. 1 191. 6	145. 9 164. 1 189. 8	146. 2 163. 9 189. 8	146. 2 163. 9 190. 1	146. 4 163. 8 189. 9
Beef: Round steak	107. 4 85. 0 73. 0 64. 2 66. 6	317. 6 294. 2 323. 2 105. 7 217. 5	312.3 288.0 315.0 104.4 212.1	297. 6 273. 3 298. 1 100. 0 201. 0	286. 4 266. 0 286. 9	287. 1 265. 3 287. 4	288. 2 270. 2 289. 7	293.3 271.7 291.3	295. 9 272. 1 290. 1	287. 9 264. 1 279. 2	274. 7 255. 3 262. 6	256.6 241.4 247.4 167.8	253. 4 239. 3 249. 2	250. 1 237. 5 246. 0	252. 1 238. 8 245. 1
Veal: Cutletsdo Pork	123, 5	308.0	300, 2	286.7	281, 1	281.0	280.1	277.8	275.3	271. 2	265.1	258.5	262.5	261.4	255, 8
Chops	67.5	235.6 178.0 229.7 187.5	228. 1 175. 9 224. 9 186. 7	216.6 171.9 212.7 184.5	221.8 174.8 204.9 183.6	229. 9 183. 9 210. 7 184. 8	261. 2 184. 3 233. 6 183. 1	253. 5 181. 7 236. 4 179. 6	268. 6 171. 4 229. 7 164. 8	243.5 161.9 215.8 160.5	238. 0 157. 4 206. 6 152. 5	206.6 154.1 193.6 149.3	210. 0 155. 1 198. 0 152. 2	200.7 154.7 195.3 150.2	186. 9 154. 7 192. 8 153. 2
Legdo Poultrydo Frying chickens:		284.1 193.2	277. 9 184. 3	273.3 179.3	268. 4 180. 1	263. 5 187. 2	268. 4 199. 2	271. 2 202. 3	273.3 189.8	272. 4 185. 1	266. 2 184. 4	255. 9 187. 8	250. 5 180. 6	242. 4 164. 9	238, 1 158, 9
New York dressed 6_do Dressed and drawn 6_do Fish:	48.8 62.0														
Fish (fresh, frozen) 7do Salmon, pink16 ounce can	(8) 62.0	283.7 501.1	283. 0 493. 7	279.5 484.5	278.5 473.1	277.1 446.9	276. 2 381. 1	272.8 357.9	270.0 344.8	268. 4 344. 1	264. 9 346. 4	269. 4 347. 4	273.6 351.5	259. 1 365. 4	272. 2 355. 9
Dairy products: Butter. pound. Cheese, American process. do. Milk, fresh (delivered). quart. Milk, fresh (grocery) do. Ice cream	82. 4 59. 8 22. 7 21. 4	226. 1 264. 3 184. 8 186. 7	228.0 254.9 183.5 185.7	209. 7 232. 4 179. 0 180. 6	205.0 230.3 178.3 181.1	204.1 228.5 177.4 180.3	198. 9 229. 0 170. 6 174. 2	197. 9 228. 2 167. 5 170. 0	195.6 226.3 164.2 165.7	195. 4 226. 2 160. 4 162. 0	196. 0 228. 0 160. 8 162. 9	197.6 229.0 162.0 165.1	200. 7 230. 1 165. 3 168. 4	201.6 230.6 167.0 169.7	201. 8 231. 1 167. 9 170. 2
Milk, evaporated14½ ounce can Eggs: Eggs, freshdozen Fruits and vegetables:	31. 4 14. 3 62. 8	105.4 201.0 179.8	104. 2 194. 1 191. 5	100. 0 183. 7 249. 4	183. 0 205. 4	182. 8 206. 2	181, 1 192, 1	177. 8 182. 2	173. 9 163. 3	174. 2 148. 4	174.3 143.7	174. 5 149. 8	175. 1 149. 5	174.9 140.8	175. 1 152. 3
Frozen fruits and vegetables: Strawberries 4	59. 4 24. 0 25. 0	101.3 102.4 99.9	100.8 102.0 99.1	100. 0 100. 0 100. 0											
Fresh fruits: Applespound_ Bananasdo Oranges, size 200dozen	11.0 16.5 49.4	206. 4 274. 0 173. 4	204. 4 266. 5 153. 3	195.3 271.0 166.5	187. 0 266. 4 176. 3	190.3 261.4 191.0	229. 5 247. 1 175. 4	237.5 263.8 174.0	340.6 268.6 182.9	301.1 271.9 172.8	256.3 274.6 168.0	220. 1 274. 7 173. 9	204. 9 278. 2 177. 8	187. 5 278. 2 176. 5	178.6 273.1 156.8
Fresh vegetables: Pound Cabbage	26.3 15.9 14.1 15.7 7.2 64.8 9.8 33.3	244.8 425.2 258.7 189.3 173.2 177.6 189.7 218.7	303. 5 239. 6 206. 0 164. 3 144. 0 172. 3 182. 5 254. 7	310.6 158.5 203.8 167.6 133.1 163.8 177.5 193.6	228. 4 125. 6 203. 1 173. 3 128. 9 154. 0 161. 2 167. 9	154. 5 126. 5 177. 0 159. 2 133. 8 163. 5 159. 3 131. 6	160. 1 134. 3 180. 2 155. 8 148. 7 178. 8 184. 8 86. 1	143. 7 142. 5 181. 2 150. 7 174. 0 202. 0 216. 0 117. 5	165. 6 158. 7 195. 1 138. 9 197. 4 216. 3 198. 5 215. 4	151. 0 174. 3 181. 7 167. 3 187. 1 219. 3 209. 4 208. 3	210. 0 174. 0 178. 3 189. 6 161. 9 207. 7 219. 0 154. 1	199. 5 168. 6 175. 3 159. 5 145. 2 198. 4 211. 7 175. 8	180. 2 178. 7 177. 3 156. 5 157. 4 194. 9 210. 4 142. 3	215. 2 169. 6 184. 9 172. 2 187. 1 195. 2 206. 0 156. 9	274. 9 173. 9 202. 6 220. 1 216. 9 196. 5 205. 6 165. 3
Canned fruits: Peaches No. 2½ can Pineapple do	33, 2 38, 8	172.8 178.5	172.1 177.5	168. 2 176. 1	166.7 176.0	164.6 175.7	158.3 175.0	151. 5 174. 8	142. 4 172. 7	140. 1 172. 0	138. 2 171. 9	138. 4 173. 1	139. 1 173. 7	140. 1 173. 6	141. 8 174. 2
Corn	20. 1 18. 7 21. 9 9. 9	161. 8 209. 1 119. 7 100. 8	159. 5 191. 2 119. 5 100. 2	154.3 176.3 117.8 100.0	150. 5 172. 0 117. 2	147.8 169.1 117.3	141.4 164.4 116.0	139. 5 163. 9 114. 8	137.5 161.5 112.9	138. 4 161. 6 114. 3	137.3 161.7 113.5	138.9 160.1 114.6	139. 7 159. 4 114. 8	142. 2 157. 9 114. 0	144. 1 158. 2 113. 1
Dried fruits, prunespound Dried vegetables, navy beans_do Beverages:	27. 5 17. 4	271. 4 234. 9	268. 0 231. 8	264. 6 226. 7	261. 4 218. 8	253.4 214.0	242. 0 210. 7	238. 2 209. 4	235.7 203.9	237.8 202.7	236.7 203.4	235. 3 202. 1	233.3 203.1	232. 1 204. 5	232. 5 206. 9
Coffeedo Cola drink 4Carton of 6 Fats and oils:	86. 4 28. 3	343. 5 107. 9	340. 7 107. 8	331. 4 100. 0	332.5	343. 2	336.1	328.1	303.6	294. 9	298.4	306.9	310.9	304.0	298.9
Lard pound Shortening, hydrogenated do. Salad dressing pint Margarine pound Uncolored 12 do.	25. 8 40. 8 39. 6	173.3 197.4 164.2 199.5	166.3 191.2 161.4 193.9	149. 5 175. 1 152. 9 179. 9	142. 0 169. 4 148. 9 173. 0	142.6 169.0 148.4 173.8	156.1 168.2 148.1 174.5	157. 9 166. 1 146. 9 173. 7	118.7 157.2 142.0 164.2	116. 0 155. 6 142. 1 161. 1	112. 5 151. 8 140. 2 160. 5	109.3 148.4 138.9 160.1	110. 3 147. 2 137. 6 156. 4	109. 7 146. 2 138. 0 154. 5	113. 1 148. 8 138. 3 155. 3
Colored ¹³ do Sugar and sweets: Sugar 5 pounds Grape jelly ⁴ 12 ounces	37. 5 50. 3 24. 0	187.6 100.5	187.3 100.3	186. 5 100. 0	186.8	187.3	188, 5	188.7	177.0	175.3	175.5	176.1	177.8	178 9.	179.8

¹ Specification changed to 13 ounces in December.
2 July 1947=100.
3 February 1943=100.
4 December 1950=100.
5 Priced in 46 cities.
6 Priced in 46 cities.
7 1938-39=100.
8 Average price not computed.
9 Specification revised in November 1950.
10 October 1949=100.

¹¹ No. 303 canned fancy grade peas introduced in April 1950 in place of No. 2 can standard.
12 Priced in 18 cities beginning January 1951, 19 cities July through December 1950. Priced in 56 cities before that date.
13 Priced in 37 cities July through December 1950 and in 38 cities beginning January 1951.

TABLE D-7: Indexes of Wholesale Prices, by Group Commodities, for Selected Periods [1926=100]

Year and month	All com- modi- ties 2	Farm products	Foods	Hides and leather prod- ucts	Tex- tile prod- ucts	Fuel and light- ing mate- rials	Metals and metal prod- ucts ²	Build- ing mate- rials	Chemicals and allied prod- uets	House- fur- nish- ing goods	Mis- cella- neous com- modi- ties	Raw mate- rials	Semi- manu- fac- tured articles	Manu- fac- tured prod- ucts ²	All com- modi- ties ex- cept farm prod- ucts ²	All com- modi- ties ex- cept farm prod- ucts and foods 1
1913: Average	69. 8	71. 5	64. 2	68. 1	57. 3	61. 3	90. 8	56. 7	80. 2	56. 1	93. 1	68. 8	74. 9	69. 4	69. 0	70. 0
1914: July	67. 3	71. 4	62. 9	69. 7	55. 3	55. 7	79. 1	52. 9	77. 9	56. 7	88. 1	67. 3	67. 8	66. 9	65. 7	65. 7
1918: November	136. 3	150. 3	128. 6	131. 6	142. 6	114. 3	143. 5	101. 8	178. 0	99. 2	142. 3	138. 8	162. 7	130. 4	131. 0	129. 9
1920: May	167. 2	169. 8	147. 3	193. 2	188. 3	159. 8	155. 5	164. 4	173. 7	143. 3	176. 5	163. 4	253. 0	157. 8	165. 4	170. 6
1929: Average	95. 3	104. 9	99. 9	109. 1	90. 4	83. 0	100. 5	95. 4	94. 0	94. 3	82. 6	97. 5	93. 9	94. 5	93. 3	91. 6
1932: Average	64. 8	48. 2	61. 0	72. 9	54. 9	70.3	80. 2	71. 4	73. 9	75. 1	64. 4	55. 1	59. 3	70. 3	68. 3	70. 2
1939: Average	77. 1	65. 3	70. 4	95. 6	69. 7	73.1	94. 4	90. 5	76. 0	86. 3	74. 8	70. 2	77. 0	80. 4	79. 5	81. 3
August	75. 0	61. 0	67. 2	92. 7	67. 8	72.6	93. 2	89. 6	74. 2	85. 6	73. 3	66. 5	74. 5	79. 1	77. 9	80. 1
1940: Average	78. 6	67. 7	71. 3	100. 8	73. 8	71.7	95. 8	94. 8	77. 0	88. 5	77. 3	71. 9	79. 1	81. 6	80. 8	83. 0
1941: Average	87. 3	82. 4	82. 7	108.3	84. 8	76. 2	99. 4	103. 2	84. 4	94. 3	82. 0	83. 5	86. 9	89. 1	88. 3	89. 0
December	93. 6	94. 7	90. 5	114.8	91. 8	78. 4	103. 3	107. 8	90. 4	101. 1	87. 6	92. 3	90. 1	94. 6	93. 3	93. 7
1942: Average	98. 8	105. 9	99. 6	117.7	96. 9	78. 5	103. 8	110. 2	95. 5	102. 4	89. 7	100. 6	92. 6	98. 6	97. 0	95. 5
1943: Average	103. 1	122. 6	106. 6	117.5	97. 4	80. 8	103. 8	111. 4	94. 9	102. 7	92. 2	112. 1	92. 9	100. 1	98. 7	96. 9
1944: Average	104. 0	123. 3	104. 9	116.7	98. 4	83. 0	103. 8	115. 5	95. 2	104. 3	93. 6	113. 2	94. 1	100. 8	99. 6	98. 5
1945: Average	105. 8	128. 2	106. 2	118. 1	100.1	84. 0	104.7	117.8	95. 2	104. 5	94. 7	116.8	95. 9	101.8	100.8	99. 7
August	105. 7	126. 9	106. 4	118. 0	99.6	84. 8	104.7	117.8	95. 3	104. 5	94. 8	116.3	95. 5	101.8	100.9	99. 9
1946: Average June November 1947: Average 1948: Average 1950: Average 1950: Average February March April May June July August September October November December	121. 1 112. 9 139. 7 152. 1 165. 1 155. 0 161. 5 152. 7 152. 9 157. 3 162. 9 166. 4 169. 5 169. 1 171. 7	148. 9 140. 1 169. 8 181. 2 188. 3 165. 5 170. 4 159. 1 159. 4 159. 3 164. 7 165. 9 176. 0 177. 6 180. 4 177. 8 183. 7	130. 7 112. 9 165. 4 168. 7 179. 1 161. 4 166. 1 156. 7 155. 5 155. 3 159. 9 162. 1 171. 4 174. 6 177. 2 172. 5 175. 2	137. 2 122. 4 172. 5 182. 4 188. 8 180. 4 191. 9 179. 0 179. 6 179. 4 181. 0 182. 6 187. 2 195. 6 202. 9 208. 5 211. 6 218. 8	116. 3 109. 2 131. 6 141. 7 149. 8 140. 4 148. 0 138. 2 137. 3 136. 1 136. 8 142. 6 149. 5 158. 3 163. 1 166. 7 171. 2	90.1 87.8 94.5 108.7 134.2 131.7 133.3 131.5 131.2 132.7 133.4 135.4 135.6	115. 5 112. 2 130. 2 145. 0 163. 6 170. 2 173. 6 168. 6 168. 5 168. 7 171. 9 172. 4 174. 3 176. 7 178. 6 180. 4 184. 8	132.6 129.9 145.5 179.7 199.1 193.4 206.0 192.8 194.2 194.8 198.1 202.1 207.3 213.9 219.6 218.9 217.8	101. 4 96. 4 118. 9 127. 3 135. 7 118. 6 122. 7 115. 2 116. 3 117. 1 116. 4 114. 5 118. 1 122. 5 128. 6 132. 2 135. 0 139. 6	111. 6 110. 4 118. 2 131. 1 144. 5 145. 3 153. 2 145. 5 145. 8 146. 6 146. 9 148. 7 159. 2 163. 8 166. 9 169. 9	100. 3 98. 5 106. 5 115. 5 120. 5 112. 3 120. 9 110. 0 110. 7 114. 7 114. 7 119. 0 124. 3 127. 4 131. 3 140. 5	134.7 126.3 153.4 165.6 178.4 163.9 172.4 162.8 162.5 166.3 167.7 175.8 179.1 181.8 180.2 184.5	110.8 105.7 129.1 148.5 158.0 150.2 156.0 144.3 144.1 143.9 145.6 148.4 152.9 159.2 165.7 169.3 173.0 178.1	116.1 107.3 134.7 146.0 159.4 151.2 156.8 149.1 148.9 149.4 152.2 153.5 158.0 161.2 164.0 163.5 165.9	114. 9 106. 7 132. 9 145. 5 159. 8 152. 4 159. 2 151. 1 151. 0 151. 2 153. 7 155. 2 159. 8 163. 7 166. 9 168. 9 172. 3	109. 5 105. 6 120. 7 135. 2 151. 0 147. 3 153. 2 145. 9 146. 1 147. 6 148. 8 151. 5 159. 2 161. 5 163. 7 166. 6
1951: January February	°180.1	° 194. 2	182.3	° 234. 8	178.3	136. 4	187. 4	° 226. 2	°144. 4	° 174. 7	142. 4	°192.6	185. 0	° 173. 1	° 176. 8	° 170.3
	183.6	202. 6	187.7	238. 9	180.9	138. 1	187. 9	228. 1	147. 2	175. 3	142. 7	199.0	187. 0	175. 5	179. 2	171.8

1 BLS wholesale price data, for the most part, represent prices in primary markets. They are prices charged by manufacturers or producers or are prices prevailing on organized exchanges. The weekly index is calculated from 1-day-a-week prices; the monthly index from an average of these prices. Monthly indexes for the last 2 months are preliminary. The indexes currently are computed by the fixed base aggregate method, with weights representing quantities produced for sale in 1929-31. (For a detailed description of the method of calculation see "Revised Method of Calculation of the Bureau of Labor Statistics Wholesale Price Index," in the Journal of the American Statistical Association, December 1937.) Mimeographed tables are available, upon request to the Bureau, giving monthly indexes for major groups of commodities since 1890 and for subgroups and economic groups since 1913. The weekly wholesale price indexes are

available in summary form since 1947 for all commodities; all commodities less farm products and foods; farm products; foods; textile products; fuel and lighting materials; metals and metal products; building materials, and chemicals and allied products. Weekly indexes are also available for the subgroups of grains, livestock, and meats.

2 Includes current motor vehicle prices beginning with October 1946. The rate of production of motor vehicles in October 1946 exceeded the monthly average rate of civilian production in 1941, and in accordance with the announcement made in September 1946, the Bureau introduced current prices for motor vehicles in the October calculations. During the war, motor vehicles were not produced for general civilian sale and the Bureau carried April 1942 prices forward in each computation through September 1946.

• Corrected.

Table D–8: Indexes of Wholesale Prices, by Group and Subgroup of Commodities [1926=100]

						[1926=	100]							1	-
Group and subgroup	19	951						1950						1946	1939
	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	June	Aug.
All commodities 2	183. 6	° 180. 1	175.3	171.7	169. 1	169. 5	166. 4	162. 9	157. 3	155. 9	152.9	152. 7	152.7	112.9	75.
Farm products	202. 6 192. 0 238. 2 268. 0 94. 3 182. 8 117. 0	° 194. 2 186. 6 222. 2 250. 6 84. 7 ° 178. 2 116. 5	187. 4 180. 9 204. 9 231. 8 74. 5 177. 4 149. 5	183. 7 172. 1 197. 3 222. 6 74. 9 177. 4 148. 2	177. 8 165. 3 198. 7 223. 8 77. 1 167. 4 141. 0	180. 4 166. 5 211. 3 237. 5 85. 3 164. 4 128. 8	177. 6 167. 7 217. 3 243. 8 90. 2 155. 3 110. 1	176. 0 173. 5 215. 8 242. 5 87. 6 151. 8 103. 8	165. 9 169. 3 197. 5 222. 4 77. 2 145. 0 91. 3	164. 7 172. 3 194. 6 218. 5 79. 6 143. 7 85. 4	159. 3 169. 6 178. 0 197. 9 84. 0 144. 2 90. 7	4159. 4 165. 4 180. 3 199. 7 89. 7 144. 2 94. 6	159. 1 161. 3 179. 9 200. 6 81. 4 144. 9 87. 3	140. 1 151. 8 137. 4 143. 4 (3) 137. 5 97. 3	61. 51. 66. 67. (3) 60. 47.
Foods Dairy products Cereal products Fruits and vegetables Meats, poultry, fish r Meats r Poultry r Other foods	187.7 173.0 166.8 142.4 255.2 274.8 107.0 159.0	182.3 171.5 163.5 136.1 242.7 261.5 98.2 157.7	179. 0 164. 4 157. 7 • 138. 0 233. 7 251. 9 92. 3 161. 5	175. 2 164. 1 154. 1 140. 4 223. 4 240. 5 90. 8 158. 9	172. 5 160. 8 153. 8 129. 5 223. 7 240. 8 90. 2 156. 4	177. 2 154. 7 155. 5 131. 0 241. 0 259. 5 99. 0 158. 7	174. 6 148. 0 154. 9 132. 0 240. 2 258. 3 103. 5 154. 1	171. 4 141. 8 151. 2 137. 0 240. 7 260. 1 97. 9 145. 1	162. 1 135. 9 145. 6 140. 5 223. 7 241. 4 91. 5 133. 1	159. 9 138. 0 146. 0 139. 2 217. 1 234. 0 90. 0 130. 9	155. 3 141. 1 145. 9 137. 6 200. 6 214. 7 89. 9 129. 3	155. 5 144. 8 145. 6 134. 9 200. 0 213. 6 92. 7 129. 8	156. 7 147. 5 144. 8 138. 2 201. 6 216. 3 86. 8 129. 6	112. 9 127. 3 101. 7 136. 1 110. 1 116. 6 (3) 98. 1	67. 67. 71. 58. 73. 78. (3)
Hides and leather products Shoes Hides and skins Leather Other leather products	238. 9 225. 0 320. 6 229. 1 188. 0	c 234. 8 c 219. 2 318. 8 224. 8 188. 0	218. 8 209. 4 277. 5 213. 8 173. 9	211. 6 204. 0 269. 3 204. 9 164. 9	208. 5 200. 3 266. 3 201. 3 164. 9	202. 9 194. 8 264. 7 196. 8 151. 3	195. 6 191. 4 238. 2 192. 3 151. 3	187. 2 185. 8 219. 8 185. 3 143. 1	182. 6 184. 8 202. 1 180. 6 143. 1	181. 0 185. 0 194. 4 179. 3 143. 1	179. 4 184. 3 187. 2 179. 1 143. 1	179. 6 184. 3 190. 4 177. 9 143. 1	179. 0 184. 3 188. 2 176. 6 143. 1	122. 4 129. 5 121. 5 110. 7 115. 2	92. 100. 77. 84. 97.
Textile products	180. 9 163. 9 240. 4 115. 3 43. 1 89. 2 225. 5 243. 8	178. 3 161. 6 239. 1 115. 2 43. 1 87. 6 217. 4 238. 5	171. 2 155. 4 236. 1 113. 7 43. 0 75. 0 195. 3 229. 6	166. 7 151. 4 231. 7 111. 4 42. 7 69. 0 192. 5 210. 4	163. 1 147. 7 225. 7 109. 2 42. 5 65. 3 188. 9 207. 3	158. 3 146. 7 221. 6 105. 3 41. 7 64. 9 178. 7 191. 3	149. 5 145. 2 206. 8 101. 2 41. 3 65. 6 157. 7 181. 5	142. 6 144. 3 190. 7 99. 2 40. 7 60. 3 150. 9 168. 5	136. 8 143. 8 173. 8 97. 7 39. 9 49. 3 148. 3 164. 5	136. 1 143. 8 172. 0 97. 7 39. 9 49. 3 146. 2 164. 6	136. 4 144. 2 172. 8 97. 7 39. 9 49. 1 146. 1 165. 8	137. 3 143. 5 176. 5 98. 0 39. 9 49. 1 146. 3 166. 9	138. 2 143. 1 178. 4 98. 6 39. 9 50. 1 147. 2 170. 3	109. 2 120. 3 139. 4 75. 8 30. 2 (³) 112. 7 112. 3	67. 81. 65. 61. 28. 44. 75. 63.
Fuel and lighting materials. Anthracite	138. 1 156. 5 197. 5 234. 1 (3) (3) (3) 119. 4 187. 9	136. 4 145. 8 193. 2 232. 8 (3) 90. 0 119. 4 187. 4	135. 6 145. 7 193. 2 232. 7 65. 7 90. 2 118. 0 184. 8	135. 6 144. 7 193. 3 232. 5 65. 5 90. 5 118. 1 180. 4	135. 4 143. 9 193. 3 231. 1 65. 2 88. 9 118. 0 178. 6	135. 1 142. 8 193. 1 225. 6 65. 6 89. 0 117. 8	134. 4 142. 1 192. 5 225. 6 65. 5 88. 1 116. 8	133, 4 141, 0 191, 9 225, 6 67, 0 88, 3 115, 5	132. 7 140. 1 192. 1 225. 6 67. 0 87. 3 113. 9	132. 1 139. 2 192. 6 225. 6 66. 6 87. 2 112. 6 169. 7	131. 2 142. 6 193. 4 225. 6 67. 8 86. 8 109. 5 168. 7	131. 5 141. 9 198. 5 224. 7 67. 9 88. 3 108. 6 168. 5	131.3 139.3 196.7 223.7 69.6 87.4 109.4 168.6	87. 8 106. 1 132. 8 133. 5 67. 2 79. 6 64. 0 112. 2	72. 72. 96. 104. 75. 86. 51.
Metals and metal products ² Agricultural machinery and equipment ^r Farm machinery ^r . Iron and steel. Steel mill products. Semi-finished. Finished. Motor vehicles ^r Passenger cars. Trucks. Nonferrous metals. Plumbing and heating ^r . Plumbing ^r .	156. 9 159. 3 185. 5 186. 2 196. 2 184. 9 178. 9 187. 1 142. 9 191. 1 183. 7 139. 4	156. 1 ° 158. 4 185. 6 186. 1 196. 2 184. 9 178. 8 187. 1 ° 142. 2 187. 9 183. 7 ° 139. 4	154. 6 157. 1 182. 1 183. 2 196. 2 181. 6 178. 4 187. 1 140. 6 182. 5 183. 6 139. 3	153. 2 155. 7 174. 0 172. 8 185. 4 171. 2 176. 9 187. 1 133. 9 181. 7 182. 5	152. 0 154. 5 173. 2 172. 7 185. 4 171. 1 176. 8 187. 0 133. 9 173. 3 177. 2 132. 0	150. 3 152. 7 172. 2 172. 2 172. 5 185. 4 170. 9 176. 5 186. 6 133. 9 166. 1 166. 9 125. 4	145. 5 147. 7 171. 0 172. 3 185. 4 170. 6 176. 1 186. 4 133. 1 156. 3 164. 6 123. 9	143. 9 146. 2 169. 8 172. 3 185. 4 170. 6 175. 1 185. 2 133. 0 150. 6 156. 5 116. 9	143. 7 146. 0 169. 4 172. 2 185. 4 170. 4 175. 1 185. 2 133. 0 148. 4 156. 3 116. 7	143. 7 146. 0 168. 5 171. 8 184. 9 170. 1 175. 1 185. 2 133. 0 136. 3 156. 4 116. 6	143. 4 145. 8 168. 9 171. 7 184. 7 170. 1 175. 1 185. 2 132. 7 128. 9 154. 7	143. 1 145. 6 169. 0 171. 7 184. 7 170. 0 175. 1 185. 2 132. 8 127. 2 151. 9	143. 1 145. 7 108. 8 171. 7 184. 7 170. 0 175. 6 185. 7 133. 0 128. 1 148. 7	104. 5 104. 9 110. 1 112. 2 108. 9 112. 8 135. 5 142. 8 104. 3 99. 2 106. 0	93. 94. 95. 98. 96. 99. 92. 95. 77. 74. 79.
Building materials Brick and tile. Cement† Lumber Paint, paint materials r Prepared paint r Paint materials r Plumbing and heating r Plumbing f Structural steel. Othes bldg, materials.	228. 1 181. 7 147. 1 359. 8 164. 0 153. 3 178. 9 183. 7 139. 4 204. 3 198. 2	° 226, 2 ° 181, 6 ° 147, 2 ° 356, 8 162, 1 152, 1 176, 2 183, 7 ° 139, 4 204, 3 ° 195, 8	° 221. 4 179. 9 141. 2 348. 4 ° 154. 9 ° 147. 3 166. 2 183. 6 139. 3 204. 3 193. 8	217. 8 178. 5 140. 8 347. 6 148. 2 143. 6 156. 1 182. 5 137. 3 191. 6 189. 4	218. 9 178. 1 140. 2 358. 4 145. 7 142. 4 152. 1 177. 2 132. 0 191. 6 186. 6	219.6 168.7 136.3 371.5 145.9 142.4 152.4 166.9 125.4 191.6 182.5	213. 9 167. 8 135. 5 357. 6 142. 4 141. 3 146. 2 164. 6 123. 9 191. 6 178. 7	207. 3 107. 4 135. 3 338. 0 138. 6 141. 3 156. 5 116. 9 191. 6 177. 4	202. 1 164. 3 134. 9 322. 6 137. 7 138. 5 139. 5 156. 3 116. 7 191. 6 175. 0	198. 1 163. 9 134. 9 310. 8 136. 8 138. 5 137. 6 156. 4 116. 6 191. 6 172. 7	194. 8 163. 4 134. 9 299. 4 136. 7 138. 5 137. 3 154. 7 (4) 191. 6 172. 0	194. 2 163. 3 134. 9 295. 9 138. 2 138. 5 140. 5 151. 9 (4) 191. 6 172. 2	192. 8 163. 2 134. 9 292. 1 139. 0 138. 5 142. 2 148. 7 (4) 191. 6 171. 1	129. 9 121. 3 102. 6 176. 0 108. 6 99. 3 120. 9 106. 0 (4) 120. 1 118. 4	89. 90. 91. 90. 82. 92. 71. 79. (1)
Chemicals and allied prod- ucts	147. 2 139. 0	° 144, 4 138, 1	139. 6 136. 1	135. 6 134. 3	132. 2 131. 6	128. 6 125. 4	122. 5 122. 1	118. 1 119. 3	114. 5 117. 3	116. 4 116. 5	117. 1 116. 4	116. 3 115. 4	115. 2 114. 7	96. 4 98. 0	74. 83.
tical materials Fertilizer materials Mixed fertilizers Oils and fats	185. 4 118. 1 108. 3 217. 3	184.6 117.3 • 108.3 200.4	175. 1 115. 6 107. 4 180. 9	163. 8 112. 0 104. 7 171. 5	161. 1 111. 2 103. 1 160. 3	153. 4 111. 4 103. 1 163. 9	135. 0 112. 1 103. 1 141. 5	129. 1 110. 1 103. 0 125. 7	122. 7 108. 4 103. 3 111. 9	122. 3 116. 8 103. 3 122. 2	122. 0 117. 4 103. 5 127. 5	121. 9 117. 3 103. 5 125. 6	121. 4 116. 9 103. 5 120. 9	109. 4 82. 7 96. 6 102. 1	77. 65. 73.
Housefurnishing goods Furnishings Furniture '	175. 3 187. 0 163. 0	° 174.7 ° 186.2 162.7	169. 9 180. 2 159. 2	166. 9 176. 6 156. 7	163. 8 173. 7 153. 5	159. 2 168. 1 149. 9	153. 9 162. 8 144. 6	148. 7 156. 2 141. 0	146. 9 154. 2 139. 4	146. 6 154. 1 138. 9	145. 8 152. 6 138. 8	145. 5 152. 2 138. 6	145. 2 151. 8 138. 4	110. 4 114. 5 108. 5	40. 85. 90. 81.
Miscellaneous Tires and tubes r Cattle feed. Paper and pulp. Paperboard. Paper. Wood pulp. Rubber, crude Other miscellaneous. Soaps and detergents r	142. 7 82. 8 229. 6 196. 5 221. 0 174. 2 272. 5 147. 3 137. 6 162. 5	142. 4 82. 8 226. 3 196. 5 221. 1 174. 2 272. 1 148. 4 137. 1 157. 8	140. 5 82. 5 224. 4 189. 0 214. 0 173. 3 222. 6 146. 1 136. 6 152. 3	137. 6 82. 3 211. 4 178. 7 193. 0 16+. 5 222. 6 150. 5 134. 7 144. 4	131. 3 78. 1 199. 6 173. 4 184. 3 159. 4 222. 6 131. 5 130. 5 143. 2	127. 4 77. 4 203. 8 167. 1 171. 6 157. 3 201. 8 114. 7 127. 8 140. 0	124. 3 75. 0 205. 6 163. 9 165. 5 154. 5 201. 5 106. 1 125. 4 130. 5	119. 0 68. 7 240. 5 159. 9 152. 8 152. 0 203. 1 78. 4 121. 7 122. 0	114. 7 67. 0 213. 2 155. 6 146. 6 150. 3 186. 9 63. 4 120. 7 122. 1	114. 7 65. 8 235. 5 155. 4 146. 5 150. 3 184. 8 58. 4 120. 5 122. 8	112. 6 65. 0 215. 6 155. 4 146. 5 150. 3 185. 0 48. 7 120. 3 122. 9	110. 7 64. 3 193. 7 155. 5 147. 3 150. 3 184. 3 41. 3 120. 4 122. 9	110. 0 64. 3 177. 3 155. 6 147. 3 150. 5 183. 8 41. 1 120. 4 123. 0	98. 5 65. 7 197. 8 115. 6 107. 3 154. 1 46. 2 101. 0 101. 3	73. 59. 68. 80. 66. 83. 69. 34. 81. 78.

¹ See footnote 1, table D-7. ² See footnote 2, table D-7. ³ Not available. ⁴ Index based on old series not available. Revised series first used in index_in May 1950. ⁶ Corrected. ⁷ Revised. [†]Revised indexes for dates prior to August 1949 available upon request.

E: Work Stoppages

TABLE E-1: Work Stoppages Resulting From Labor-Management Disputes ¹

	Number of	f stoppages	Workers involv	red in stoppages	Man-days idle during month or year		
Month and year	Beginning in month or year	In effect dur- ing month	Beginning in month or year	In effect dur- ing month	Number	Percent of estimated working time	
1935-39 (average)	2, 862		1, 130, 000		16, 900, 000	0. 2	
945	4, 750		3, 470, 000		38, 000, 000	.4	
946	4, 985		4, 600, 000		116, 000, 000	1.4	
947	3, 693		2, 170, 000		34, 600, 000	.4	
948	3, 419		1,960,000		34, 100, 000	.3	
949	3,606		3, 030. 000		50, 500, 000	. 5	
1950	4, 843		2, 410, 000		38, 800, 000	.4	
950: February	206	358	56, 500	527, 000	8, 590, 000	1.3	
March	298	453	85, 200	566, 000	3, 870, 000	. 5	
April	407	605	159,000	294, 000	3, 280, 000	.4	
May	485	723	354,000	508, 000	3, 270, 000	.4	
June	483	768	278,000	373, 000	2, 630, 000	.3	
July	463	732	224, 000	389,000	2, 750, 000	.3	
August	635	918	346, 000	441,000	2, 660, 000	.3	
September	521	820	270, 000	450,000	3, 510, 000	.4	
October	550	801	197, 000	330, 000	2, 590, 000	.3	
November	329	605	200,000	308, 000	2, 050, 000	.2	
December	218	423	61, 100	114, 000	912, 000	.1	
951: January 2	400	550	185, 000	215, 000	1, 200, 000	.1	
February 2	400	600	220,000	300,000	1,700,000	.5	

¹ All known work stoppages, arising out of labor-management disputes, involving six or more workers and continuing as long as a full day or shift are included in reports of the Bureau of Labor Statisties. Figureson "workers involved" and "man-days idle" cover all workers made idle for one or more

shifts in establishments directly involved in a stoppage. They do not measure the indirect or secondary effects on other establishments or industries whose employees are made idle as a result of material or service shortages.

³ Preliminary.

F: Building and Construction

TABLE F-1: Expenditures for New Construction ¹

[Value of work put in place]

						1	Expendi	tures (i	n millio	ns)					
Type of construction		1951						19	950					1950	1949
	Mar.3	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Total	Total
Total new construction 4	\$2, 122	\$1,933	\$2,068	\$2, 235	\$2, 554	\$2,750	\$2,816	\$2, 799	\$2,676	\$2, 535	\$2, 282	\$1,988	\$1,750	\$27, 715	\$22, 594
Private construction Residential building (nonfarm) New dwelling units Additions and alterations Nonhousekeeping 5 Nonresidential building (nonfarm)6 Industrial Commercial	848 775 57 16 396	1,501 820 750 53 17 383 135 121	1,571 901 830 54 17 376 128 122	1, 686 980 900 62 18 392 125 138	1,885 1,126 1,035 73 18 401 119 147	2,006 1,237 1,135 84 18 379 111 135	2,072 1,306 1,195 94 17 352 101 121	2,074 1,310 1,200 93 17 332 90 114	1, 998 1, 253 1, 145 93 15 325 84 116	1,883 1,171 1,065 92 14 306 78 110	1, 689 1, 035 940 82 13 274 73 92	1, 482 882 800 70 12 248 70 76	1, 313 741 675 55 11 249 69 77	20, 648 12, 500 11, 425 900 175 3, 767 1, 059 1, 282	16, 20 8, 29 7, 28 82 18 3, 22 97 1, 02
Warehouses, office and loft buildings	44	46	47	47	46	42	39	35	31	28	26	24	25	398	32
Stores, restaurants, and garages. Other nonresidential building Religious Educational Social and recreational Hospital and institutional? Miscellaneous Farm construction Public utilities. Railroad Telephone and telegraph Other public utilities. All other private 8 Public construction Residential building ? Nonresidential building (other than military or naval facilities)	128 35 26 16 32 19 83 246 20 36 190 5	75 127 36 27 17 31 16 74 219 15 31 173 5 432 29	755 1266 377 288 188 300 133 69 220 222 229 169 5 497 29	91 129 39 30 20 29 11 66 243 24 34 185 5 5	101 135 40 30 22 30 13 74 277 28 40 209 7 669 31	93 133 39 29 23 30 12 88 295 29 40 226 7 7 744 30	82 130 38 28 23 29 12 106 301 30 43 228 7 7 744 28	79 128 37 26 24 30 111 116 305 30 45 230 111 725 27	85 125 35 25 23 30 12 113 296 29 45 222 11 678 24	82 118 33 23 21 30 11 108 285 28 42 215 13 652 28	666 1099 30 21 199 299 100 267 27 41 1199 13 593 28	52 102 28 20 17 27 10 88 253 26 40 187 11 506 28	52 103 28 21 17 27 10 79 235 21 38 176 9 437 28	884 1, 426 407 298 247 342 132 1, 087 3, 182 310 470 2, 402 112 7, 067 341	700 1, 222 366 266 266 200 133 1, 292 3, 314 355 533 2, 433 76 6, 399 356
military or naval facilities)	39 115 39 36 34	198 30 108 31 29 29 65 49	214 34 110 37 33 27 105 52	209 29 110 37 33 25 155 55	221 30 112 40 39 26 240 59	230 31 114 42 43 28 290 62	214 22 108 40 44 22 310 60	205 19 102 40 44 16 305 58	196 18 98 37 43 10 275 56	191 16 94 39 42 10 250 55	187 17 90 40 40 8 210 54	178 13 87 40 38 9 145 52	170 11 84 40 35 8 100 49	2, 310 220 1, 158 470 462 180 2, 425 655	2, 05 17 93 47 46 13 2, 12 61
prises II. Conservation and development. All other public I2.	58	8 49 5	10 54 6	11 60 6	17 67 8	20 76 8	20 82 8	21 85 8	18 91 8	17 92 9	15 82 9	13 73 8	11 62 9	185 875 96	200 790 9.

¹ Joint estimates of the Bureau of Labor Statistics, U. S. Department of Labor, and the Building Materials Division, U. S. Department of Commerce. Estimated construction expenditures represent the monetary value of the volume of work accomplished during the given period of time. These figures should be differentiated from permit valuation data reported in the tabulations for building authorized (tables F-3 and F-4) and the data on value of contract awards reported in table F-2.
² Preliminary.
² Revised.
⁴ Includes major additions and alterations.
⁴ Includes hotels, dormitories, and tourist courts and cabins.
⁶ Expenditures by privately owned public utilities for nonresidential building are included under "Public utilities."

 ⁷ Includes Federal contributions toward construction of private nonprofit hospital facilities under the National Hospital Program.
 8 Covers privately owned sewer and water facilities, roads and bridges, and miscellaneous nonbuilding items such as parks and playgrounds.
 9 Includes nonhousekeeping public residential construction as well as housekeeping units.
 10 Covers all construction, building as well as nonbuilding.
 11 Covers primarily publicly owned airports, electric light and power systems, and local transit facilities.
 12 Covers public construction not elsewhere classified, such as parks, playgrounds, and memorials.

Table F-2: Value of Contracts Awarded and Force-Account Work Started on Federally Financed New Construction, by Type of Construction 1

						Val	ue (in th	ousands							
					I	Building					Cons	servation velopme	and		
Total new	Air					Non	nresident	ial					Divor	High-	All
struc- tion 2	ports 3	Total	Resi- den- tial	Total	Edu-	Ho	spitals a	nd al	trative non		Total	Rec- lama- tion	har- bor, and	ways	other 6
					tional4	Total	Vet- erans	Other	gen- eral ⁵	den- tial			control		
990, 410 1, 609, 208 1, 586, 604 2, 316, 467 5, 931, 536 7, 871, 986 2, 877, 044 1, 861, 449 1, 092, 181 1, 502, 701 1, 473, 910 1, 906, 466	(7) (7) (7) \$4, 753 137, 112 499, 427 579, 176 243, 443 110, 872 41, 219 15, 068 25, 075 55, 577	2, 068, 337 1, 438, 849 806, 917 617, 132 454, 593 543, 118 878, 231	63, 465 17, 239 31, 809 231, 071 244, 671 322, 248 565, 247 405, 537 117, 504 60, 535 452, 204 47, 198 46, 800	497, 929 327, 328 644, 733 438, 151 1, 293, 239 4, 099, 883 5, 661, 631 1, 662, 800 1, 321, 345 746, 382 164, 928 393, 899 495, 920 831, 431	(8) (8) (5) (8) (8) (8) (8) (8) (8) (8) 47, 750 1, 424 1, 041	(\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$)	(\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$)	(\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$)	29, 926 88, 856	201, 274 387, 863	189, 710 133, 010 303, 874 225, 423 197, 589 199, 684 217, 795 155, 737 112, 415 72, 150 290, 163 307, 695 494, 871 497, 557	73, 797 59, 051 175, 382 115, 612 69, 028 41, 880 150, 708 101, 270 66, 679 30, 765 149, 870 75, 483 147, 732	115, 913 73, 959 128, 492 109, 811 128, 561 157, 804 67, 087 54, 467 45, 736 41, 385 140, 293 232, 212 347, 139	511, 685 360, 865 372, 238 355, 701 , 364, 048 446, 903 347, 988 161, 852 111, 805 100, 969 534, 653 659, 645	270, 650 151, 968 256, 554 331, 508 79, 808 363, 391 500, 149 247, 678 87, 508 70, 926 45, 680 26, 902 45, 440 56, 759
133, 535 257, 834 325, 997 142, 768 272, 671 171, 714	4, 212 7, 233 12, 262 4, 818 3, 385 1, 902 3, 413 790	40, 410 45, 058 45, 051 34, 148 71, 383 143, 870 37, 979 134, 548 82, 101 36, 718 131, 881 75, 084	672 9	42, 523 40, 449 29, 650 65, 138 120, 853 37, 158 134, 499 81, 655 36, 046 131, 872	635 0 18 30 0 10 140 0 0 60	8, 192 12, 651 26, 663 21, 352 23, 649 64, 985 22, 756 43, 544 56, 125 15, 004 16, 600 42, 150	428 5, 477 9, 612 1, 204 1, 045 14, 814 202 25, 492 26, 500 8, 737 7, 387 23, 069	50, 171 22, 554 18, 052 29, 625	13, 658 10, 564 2, 018 969 538 4, 333 5, 308	12, 039 7, 331 27, 801 45, 304 12, 374 89, 846 24, 992 16, 709 109, 904	39, 899 89, 536 80, 530 22, 115 52, 304 20, 679 12, 914 42, 186	3, 083 22, 546 18, 778 61, 537 26, 603 6, 822 12, 375 10, 179 1, 091 5, 677	61, 796 21, 121 27, 999 53, 927 15, 293 39, 929 10, 500 11, 823 36, 509	34, 465 29, 000 41, 646 52, 099 83, 769 80, 348 75, 448 79, 020 63, 035 49, 910 38, 100 63, 629	2, 966 7, 663 3, 177 5, 913 8, 987 2, 408 3, 414 3, 997 661 9, 306
112, 191 203, 476 151, 822 209, 410 327, 028 145, 157 133, 914 171, 590 236, 225 140, 268 546, 429	2, 899 7, 997 5, 556 3, 258 3, 066 2, 929 2, 709 1, 535 3, 382 1, 266 867	142, 524 22, 558 468, 863	127 1, 036 3, 406 1, 493 5, 223 634 33 1, 284 200 233 730	35, 316 25, 691 56, 374 49, 920 117, 080 45, 776 26, 217 75, 191 142, 324 22, 325 468, 133	138 20 70 0 1,430 616 174 0 19 2 17	31, 177 11, 595 33, 915 18, 734 14, 314 14, 254		14, 338 14, 259 34, 026 23, 170 11, 395 20, 958 18, 091 13, 638	1, 052 3, 457 2, 364 2, 474 25, 187 2, 172 1, 732 1, 532 1, 226 1, 846	3, 450 2, 313 18, 143 19, 888 48, 808 11, 811 12, 716 39, 744 122, 345 6, 163	25, 537 101, 266 19, 063 67, 473 76, 898 13, 474 15, 516 16, 084 19, 537 32, 497	7, 087 69, 797 2, 763 7, 726 43, 620 10, 531 8, 364 9, 762 13, 471 1, 753	18, 450 31, 469 16, 300 59, 747 33, 278 2, 943 7, 152 6, 322 6, 066 30, 744	42, 357 61, 026 63, 453 80, 618 110, 963 77, 869 83, 292 72, 300 55, 531 81, 135	5, 95; 6, 46; 8, 3, 97; 6, 648; 13, 79; 4, 47; 2, 6, 14; 5, 19; 15, 25; 2, 81;
	new construction 2 \$1, 478, 073 1, 533, 439 990, 410 1, 609, 208 1, 593, 536 7, 871, 986 2, 877, 044 1, 602, 181 1, 902, 181 1, 902, 183 1, 902, 181 1, 903, 818 97, 047 101, 298 182, 992 133, 555 257, 834 325, 997 142, 788 272, 671 171, 714 103, 616 222, 263 112, 191 203, 476 237, 028 145, 157 133, 914 171, 590 236, 225 140, 268 546, 428	\$1, 478, 073 (7) (7) (7) (8) (8) (8) (8) (8) (9) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	New Construction Ports New Construction New	New construction Ports Total Resident Total Total Resident Total Total Total Resident Total Total Total Total Total Total Resident Total T	Total Resident Total Total Total Resident Total Total Resident Total Total Resident Total Total Total Resident Total Total	Total new construction 2	Total new construction 2 \$1, 478, 073 (7) \$442, 782 \$7, 833 \$434, 949 (8) (5) (7) \$41, 533, 439 (7) \$611, 394 \$63, 465 \$497, 929 (9) (9) (7) \$44, 671 \$17, 239 \$327, 328 (8) (9) (7) \$44, 671 \$17, 239 \$327, 328 (8) (9) (7) \$44, 672 \$17, 239 \$327, 328 (8) (9) (9) \$1, 609, 208 (7) \$676, 542 \$31, 809 \$644, 733 (8) (8) (9) \$2, 313, 511 (8) (9) \$2, 313, 511 (8) (9) \$2, 313, 511 (8) (9) \$2, 313, 511 (8) (9) \$2, 313, 513 (9) (9) \$3, 313, 513 (9) (9) \$3, 313, 313 (9) \$44, 674 (11, 203, 239) (9) (8) (9) \$3, 313, 313 (9) \$44, 674 (11, 203, 239) (9) (9) (9) (9) (10) \$44, 671 (11, 203, 239) (9) (10) \$44, 671 (11, 203, 239) (10) (10) \$44, 674 (11, 203, 239) (10) (10) \$44, 674 (11, 203, 239) (10) (10) \$44, 674 (11, 203, 239) (10) (10) \$44, 674 (11, 203, 239) (10) (10) \$44, 674 (11, 203, 239) (10) (10) \$44, 674 (11, 203, 239) (10) (10) \$44, 674 (11, 203, 239) (10) (10) \$44, 674 (11, 203, 239) (10) (10) \$44, 674 (11, 203, 239) (10) (10) \$44, 674 (11, 203, 239) (10) (10) \$44, 674 (11, 203, 239) (10) (10) \$44, 674 (11, 203, 248, 409) (10) \$44, 674 (11, 203, 248,	Total new construction 2 **Total Ports ** Total Resident Total Cational** **Total Resident Total Cational** **Total Cation	Total new construction 2 Air ports Total Residential Total Educational 4 Total Educational 4 Total Educational 4 Total Educational 4 Total Total Educational 4 Total Educational 4 Total Total Educational 4 Total Educational 4 Total Total Total Total Total Educational 4 Total Total Total Total Total Total Total Educational 4 Total Total	Total new construction Air Total Residential Total Educational Total Tot	Total new construction Air ports Total Residential Total Education Total Total Total Education Total T	Total new construction Air ports Total Resistruction Property Total Resistruction Property P	Total new construction Ports Total Residential Total Education Total Total	Total new construction Total Resistration Total Eduction Total Eduction Total Total Eduction Total Eduction Total Eduction Total Eduction Total Eduction Total Total Eduction Total Total Eduction Total Eduction Total Total Eduction Total Total Eduction Total Total Total Total Total Total Total Total Eduction Total Tot	Total new construction Ports Total Residential Ports Ports

Excludes projects classified as "secret" by the military. Data for Federal-aid programs cover amounts contributed by both owner and the Federal Government. Force-account work is done not through a contractor, but directly by a government agency, using a separate work force to perform non-maintenance construction on the agency's own properties.
 Includes major additions and alterations.
 Excludes hangars and other buildings, which are included under "Other nonresidential" building construction.
 Includes educational facilities under the Federal temporary re-use educational facilities program.
 Includes post offices, armories, offices, and customhouses. Includes contract awards for construction at United Nations Headquarters in New York City, the principal awards having been for the Secretariat Building

⁽January 1949: \$23,810,000), for the Meeting Hall (January 1950: \$11,238,000), and for the General Assembly Building (June 1950: \$10,704,000).

⁶ Includes electrification projects, water-supply and sewage-disposal systems, railroad construction, and other types of projects not elsewhere classified.

⁷ Included in "All other." 8 Unavailable,

Onavailable,
 Preliminary,
 Revised,
 Includes primarily construction projects for the Atomic Energy Commission,
 Includes primarily steam-electric generating projects for the Tennessee Valley Authority,

TABLE F-3: Urban Building Authorized, by Principal Class of Construction and by Type of Building 1

			Valuation	(in thous	sands)				Numb	er of new	dwelling eeping o	g units— nly	House-
		Ne	w resider	itial build	ing]				
Matal all		Houseke	eping		D-11/1		New non-	Addi- tions,					Pub-
classes 2							dential building	tions,	Total	1-fam- ily	2-fam- ily 3	Multi-	licly fi- nanced
	Total	1-family	2-fam- ily ³	Multi- family 4	units	ing 5		repairs				ny •	
4, 743, 414 5, 563, 348 6, 972, 784	2, 114, 833 2, 885, 374 3, 422, 927 3, 724, 924	2, 361, 752 2, 745, 219 2, 845, 399	103, 042 151, 036 181, 493	181, 531 372, 586 496, 215	355, 587 42, 249	43, 369 29, 831 38, 034 39, 785	1, 458, 602 1, 713, 489 2, 367, 940 2, 408, 445	771, 023 892, 404 1, 004, 549 937, 493	430, 195 502, 312 516, 179 575, 286	358, 151 393, 606 392, 532 413, 543	15, 747 24, 326 33, 423 36, 306 26, 431 33, 302	75, 283 87, 341 135, 312	98, 310 5, 833 15, 114 32, 194
576, 563 855, 825 923, 723 1, 056, 835 1, 045, 894 1, 065, 117 1, 097, 651 848, 041 870, 325 707, 673	589, 643 606, 346 438, 852	243, 486 283, 452 442, 046 481, 674 534, 758 518, 444 512, 594 501, 489 375, 214 363, 263 297, 465 291, 219	13, 308 12, 782	59, 783 80, 090 77, 982 89, 340 80, 050 59, 728 87, 529 50, 330 52, 033 32, 678	1, 506 9, 197 14, 677 28, 041 4, 584 41, 997 36, 510 37, 237 14, 460 29, 261	2, 972 9, 018 4, 725 22, 184 5, 093 7, 935 8, 690 6, 599 4, 406 5, 546	208, 538 238, 650 261, 512 308, 910 313, 522 330, 836 266, 006 329, 426 250, 616	113, 391 112, 020	49, 596 53, 141 79, 190 81, 188 88, 814 82, 934 79, 473 79, 140 58, 172 55, 210 44, 588 44, 697	36, 026 40, 234 59, 787 63, 382 69, 377 66, 885 64, 586 61, 740 46, 498 43, 761 36, 244 34, 810	2, 306 2, 375 4, 235 3, 237 3, 859 2, 828 3, 118 2, 992 2, 236 2, 313 2, 056 1, 747	10, 532 15, 168 14, 569 15, 578 13, 221 11, 769 14, 408 9, 438 9, 136 6, 288	177 1, 135 1, 766 3, 271 513 4, 590 4, 041 4, 154 1, 619 2, 940
	\$2,707,573 4,743,414 5,563,348 6,972,784 7,396,274 10,408,292 576,563 855,825 923,723 1,056,835 1,045,894 1,065,117 1,097,651 848,041 870,325 707,673	\$2,707,573 \$598,570 4,743,414 2,114,833 5,563,348 2,885,374 10,408,292 5,803,912 579,262 320,227 576,563 355,115 855,825 543,323 923,723 577,702 1,056,835 644,098 1,045,894 613,915 1,065,117 589,643 1,097,651 606,346 848,041 438,852 870,325 870,325 428,078 321,335	Total all classes 2 Total all classes 3 Total 1-family \$2,707,573 \$598,570 \$478,658 4743,414 \$2,114,833 1,830,260 \$472,784 3,422,927 2,745,219 7,396,274 3,724,924 2,845,399 10,408,292 5,803,912 4,845,104 579,262 320,227 243,486 576,563 355,115 283,452 855,825 543,323 442,046 923,723 577,702 481,674 1,056,835 644,098 534,758 1,045,894 613,915 518,444 1,065,117 589,643 512,594 1,097,651 606,346 501,489 848,041 438,852 375,214 870,325 428,078 363,263 707,673 341,333 597,465	Total all classes 2 Total all classes 2 Total 1-family 2-family 3 \$2,707,573 \$598,570 \$478,658 \$42,629 \$4,743,414 \$2,114,833 \$1,830,260 \$103,042 \$6,972,784 \$3,422,927 \$2,745,219 \$181,493 7,396,274 \$3,724,924 \$2,845,399 \$132,365 \$10,408,292 \$5,803,912 \$4,845,104 \$179,214 \$579,262 \$320,227 \$243,486 \$11,452 \$576,563 \$35,115 \$283,452 \$11,880 \$855,825 \$543,323 \$442,046 \$21,187 \$923,723 \$577,702 \$481,674 \$18,046 \$1,045,894 \$613,915 \$518,444 \$1,621,197 \$10,076,5117 \$589,643 \$512,594 \$17,328 \$48,041 \$438,852 \$375,214 \$13,308 \$48,041 \$438,852 \$375,214 \$13,308 \$707,673 \$341,335 \$297,465 \$11,192	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Privately financed dwelling units Privately financed dwelling units Total 1-family 2-fam- illy Multi- family units	Total all classes 2	New residential building Housekeeping Privately financed dwelling units Publicly financed units Publicly financed dwelling units Publicly financed dwelling units Publicly financed units Publicly f	New residential building Housekeeping Privately financed dwelling units Publicly financed units Publicly financed dwelling units Publicly financed dwelling units Publicly financed units Publicly financed dwelling units Publicly financed	Total all classes 2 Privately financed dwelling units Publicly financed dwelli	Total all classes Privately financed dwelling units Publicly financed units Publicly financed dwelling units Publicly financed dwelling units Publicly financed units Public financed un	Total all classes 2 Housekeeping	New residential building

¹ Building for which building permits were issued and Federal contracts awarded in all urban places, including an estimate of building undertaken in some smaller urban places that do not issue permits.

The data cover federally and nonfederally financed building construction combined. Estimates of non-Federal (private and State and local government) urban building construction are based primarily on building-permit reports received from places containing about 85 percent of the urban population of the country; estimates of federally financed projects are compiled from notifications of construction contracts awarded, which are obtained from other Federal agencies. Data from building permits are not adjusted to allow for lapsed permits or for lag between permit issuance and the start of construction. Thus, the estimates do not represent construction actually started during the month.

Urban, as defined by the Bureau of the Census, covers all incorporated places of 2,500 population or more in 1940, and, by special rule, a small number of unincorporated civil divisions.

2 Covers additions, alterations, and repairs, as well as new residential and nonresidential building.

3 Includes units in 1-family and 2-family structures with stores.

4 Includes units in multifamily structures with stores.

5 Covers hotels, dormitories, tourist cabins, and other nonhousekeeping residential buildings.

6 Revised.

7 Preliminary

⁷ Preliminary.

Table F-4: New Nonresidential Building Authorized in All Urban Places,¹ by General Type and by Geographic Division ²

							Valua	tion (in t	housand	s)					
Geographic division and type of new nonresi- dential building	1951						19	50 3						1950 3	1949
	Jan. 4	Dec. 3	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Total	Total
West North Central. South Atlantic East South Central. West South Central. Mountain. Pacific	20, 627 37, 526 11, 347 34, 999 6, 678 39, 265	42, 103 17, 797 37, 650 10, 826 60, 882 8, 610 49, 468	40, 313 21, 064 25, 316 7, 905 28, 016 8, 929 51, 845	95, 545 25, 098 26, 447 16, 440 34, 900 6, 955 39, 708	62, 556 24, 489 31, 628 8, 407 30, 808 13, 453 36, 014	71, 914 27, 800 42, 836 13, 430 43, 115 15, 286 53, 731	63,031 24,731 35,380 16,478 43,248 8,430 51,795	40, 841 35, 010 16, 438 33, 131 10, 813 31, 280	59, 978 24, 910 35, 008 8, 889 28, 827 7, 310 36, 970	69, 232 22, 422 29, 360 11, 134 22, 876 7, 353 30, 133	47, 328 15, 939 27, 538 10, 638 22, 513 16, 307 30, 496	28, 423 10, 674 22, 434 10, 505 16, 359 5, 740 24, 498	24, 003 6, 976 27, 196 12, 994 23, 528 3, 077 23, 218	262, 737 375, 803 144, 084 388, 201 112, 265 459, 155	492, 38 203, 40 311, 54 133, 37 270, 40 104, 11 348, 59
Industrial buildings 5 New England Middle Atlantic. East North Central. South Atlantic. East South Central. West South Central. West South Central. West South Central. Mountain. Pacific. Commercial buildings 6 New England. Middle Atlantic. East North Central. West North Central. West North Central. West North Central. West South Central. West South Central. West South Central. West South Central. West North Central. West South Central. West South Central. West South Central. West South Central. West North Central. East South Central. West South Central. West South Central. West North Central. West South Central.	36, 675 1, 415 11, 703 8, 566 3, 168 2, 266 3, 168 1, 832 2, 612 440 4, 673 103, 099 17, 582 18, 072 5, 809 17, 325 7, 065 16, 115 2, 424 4, 556 10, 470 24, 816 11, 277 13, 783 1, 653 7, 393 2, 937 12, 871 13, 967 13, 967 48 653 0 6, 195 451 1, 928 9, 507 323	1, 062 5, 705 8, 074 1, 696 1, 495 1, 972 903 788 4, 985 119, 091 7, 244 14, 622 15, 107 4, 208 3, 014 14, 569 3, 014 14, 569 3, 014 14, 569 3, 7, 959 14, 077 6, 796 15, 096 15, 096 17, 552 3, 756 23, 643 9, 226 809 2, 495 527 1, 621 826 3866	1, 653 2, 586 9, 619 5, 149 963 1, 456 1, 677 190 3, 936 95, 985 2, 115 22, 236 15, 383 3, 620 14, 682 15, 6401 6, 673 13, 191 3, 860 9, 257 4, 164 9, 593	44, 892 1, 755 7, 281 23, 745 3, 977 1, 168 2, 388 4, 182 117, 952 5, 343 5, 343 11, 877 8, 335 11, 877 8, 335 11, 877 11, 687 11, 877 8, 335 11, 877 11, 687 11, 277 11, 687 11, 277 11, 697 11, 297 11, 297 11, 297 11, 719 11, 719	1, 143 1, 033 946 1, 815 846 3, 983 93, 691 5, 700 14, 293 18, 152 10, 336 10, 280 4, 055	4, 762 11, 948 2, 906 1, 619 1, 000 2, 332 4, 042 124, 698 3, 270 18, 846 24, 797 10, 984 17, 216 130, 167 11, 839 13, 704 24, 964 10, 417 11, 949 6, 803 14, 980 4, 929 24, 522 24, 522 24, 522 5, 9, 954	2, 223 1, 297 1, 888 2, 025 9, 161 2, 751 96, 505 5, 170 13, 096 20, 370 7, 720 12, 397 5, 255 16, 006 3, 948 12, 543 136, 091 11, 743 136, 091 11, 743 19, 772 26, 598 7, 002 17, 873 8, 236 22, 370 2, 888 19, 611 1, 566 1, 211 1, 566 1, 211 1, 561 10, 885 573 0 10, 885 11, 318	3, 927 1, 109 3, 288 417 1, 420 2, 990 97, 177 4, 767 16, 498 20, 683 8, 813 13, 016 5, 662 11, 668 12, 645 12, 645 12, 645 11, 921 9, 439 14, 177 3, 280 13, 10, 311 10, 311 11, 079 14, 149 16, 149 16, 149 17, 149 18, 149	5, 219 6, 955 2, 200 7778 2334 691 288 3, 302 90, 895 6, 327 10, 780 11, 678 14, 060 11, 262 3, 662 11, 469 114, 538 14, 911 18, 855 24, 911 8, 857 16, 37 16, 16 17 18, 16 18, 16 16 17 18, 18, 16 18, 16 18, 16 18, 16 16 17 18, 16 18, 16 16 17 18, 16 16 17 18, 16 16 17 18, 16 18, 16	2, 734 6, 217 1, 209 1, 201 1, 708 1, 664 1, 330 2, 363 8, 198 8, 241 13, 227 15, 242 10, 371 10, 904 3, 512 10, 431 3, 639 9, 631 107, 971 1, 5, 632 10, 797 42, 280 7, 273 1, 946 6, 093 542 734 1, 377 1, 377 311 966 70 1, 130 5, 404	4, 338 11, 261 16, 952 8, 2099 11, 642 3, 395 10, 144 5, 560 14, 187 87, 787 6, 487 9, 544 20, 153 5, 101 13, 469 5, 155 8, 798 9, 787 9, 293 1, 702 96 110 234 477 155 581 5, 515	4,7066 984 984 982 885 7844 90 2,191 55,617 1,380 10,039 9,930 3,464 10,387 2,833 6,290 4,070 7,154 4,41 71,427 15,233 7,827 9,967 4,488 8,320 6,382 6,382 1,142 21,122 4,159 0 0 1,823 0 71 566 1,682 5,153	1909 3,516 4,455 709 416 1,262 1,285 6,245 62,088 1,780 2,454 62,088 1,780 2,454 62,088 1,780 1,78	13, 999 155, 679 110, 829 17, 019 13, 385 17, 800 15, 469 39, 284 11, 122, 583 53, 675 212, 645 201, 314 94, 104 139, 990 46, 076 175, 129 47, 481 152, 160 1, 260, 078 107, 541 169, 036 275, 029 105, 603 179, 635 62, 529 146, 688 43, 296 170, 721 134, 894 2, 584 40, 178 9, 513 4, 896 15, 008 9, 279 8, 268 3, 240 41, 928 106, 164	77, 03 15, 68 19, 17 8, 73 6, 85 4, 37 24, 99 752, 81 36, 66 127, 04 147, 62 52, 90 106, 03 36, 02 25, 58 119, 89 1, 018, 63 43, 77 179, 46 201, 80 100, 28 103, 66 71, 11 115, 62 122, 99 153, 10 4, 86 59, 92 122, 99 153, 10 4, 86 56 57, 91 57, 91 58, 15 59, 50 50 50 50 50 50 50 50 50 50
Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. Mountain. Pacific. All other buildings 10. New England. Middle Atlantic. East North Central. West North Central. South Atlantic. East South Central. West South Central. West South Central. West South Central. Mountain. Pacific.	323 64, 576 750 8422 111 903 388 1, 998 12, 078 364 1, 278 2, 348 477 1, 785 786 1, 781 388 2, 871	279 5,358 3,260 323 1,766 647 4,310 1,996 9,270 439 777 1,060 597 1,818 1,000 597 1,818 356 2,735	1, 322 206 1, 534 340 7 254 125 3, 211 16, 036 2, 148 3, 474 2, 663 2, 177 321 1, 267	101 554 10, 279 266 835 70 433 180 1, 457 21, 807 1, 085 2, 258 6, 084 2, 501 833 454 4, 040 986 3, 566	759 607 2, 233 105 370 543 338 1, 536 19, 247 947 1, 899 7, 825 2, 111 835 755 1, 329 2, 779	2, 769 1, 263 1, 830 606 240 225 170 361 2, 490 27, 416 9, 323 7, 993 2, 176 3, 088 511 3, 647 2, 163 4, 536	491 2, 908 1, 759 622 1, 281 147 3, 246 24, 236 92, 5, 738 7, 056 1, 580 605 2, 759	248 325 1,111 1,207 623 257 799 474 1,359 18,152 776 2,636 4,729 1,870 1,656 3,240 1,055 2,846	49 1, 385 2, 348 318 592 221 1, 239 41 488 22, 890 1, 086 6, 223 2, 765 1, 489 554 3, 884 697 3, 786	569 1, 333 424 760 540 80 812 406 480 17, 023 1, 124 1, 792 4, 512 1, 674 1, 164 1, 102 1, 730 962 2, 962	236 532 2,287 319 366 308 663 2 2,2449 385 1,360 2,245 1,408 910 516 1,580 594 3,451	187 307 2, 112 977 765 0 292 73 440 8, 483 3,223 1,002 1,531 501 617 375 1,916 309 1,909	430 823 3611 149 204 638 3, 982 2, 049 10, 238 283 1, 185 871 237 1, 144 3, 393 1, 192 327 1, 704	6, 478 16, 868 26, 585 9, 314 7, 658 3, 316 13, 646 2, 702 19, 597 207, 247 9, 109 22, 177 52, 285 25, 451 16, 493 9, 529 26, 670 10, 077 35, 456	16, 01: 27, 65i 22, 300 11, 33: 23, 28i 7, 22: 11, 944 2, 566 26, 055 131, 82: 7, 814 18, 33: 35, 46(13, 63: 9, 077 4, 02: 27, 326

¹ Building for which permits were issued and Federal contracts awarded in all urban places, including an estimate of building undertaken in some smaller urban places that do not issue permits. Sums of components do not always equal totals exactly because of rounding.

² For scope and source of urban estimated, see table F-3, footnote 1.

³ Revised.

⁴ Preliminary.

⁵ Includes factories, navy yards, army ordnance plants, bakeries, ice plants, industrial warehouses, and other buildings at the site of these and similar production plants.

⁶ Includes amusement and recreation buildings, stores and other mercantile buildings, commercial garages, gasoline and service stations, etc.

⁷ Includes churches, hospitals, and other institutional buildings, schools,

Includes churches, nospitals, and other histotechia.
 Includes Federal, State, county, and municipal buildings, such as post offices, courthouses, city halls, fire and police stations, jails, prisons, arsenals, armories, army barracks, etc.
 Includes railroad, bus and airport buildings, roundhouses, radio stations, gas and electric plants, public comfort stations, etc.
 Includes private garages, sheds, stables and barns, and other building not elsewhere classified.

TABLE F-5: Number and Construction Cost of New Permanent Nonfarm Dwelling Units Started, by Urban or Rural Location, and by Source of Funds 1

		Numb	er of new d	welling un	its started				Estimat	ed construc	tion cost
	All units		Priv	ately finar	nced	Pub	licly fina	nced			
Total non- farm	Urban	Rural non- farm	Total non- farm	Urban	Rural non- farm	Total non- farm	Urban	Rural non- farm	Total	Privately financed	Publicly financed
937, 000 93, 000 706, 100 141, 800 670, 500 849, 000 931, 600 1, 025, 100	752, 000 45, 000 434, 300 96, 200 403, 700 479, 800 524, 900 588, 800	185, 000 48, 000 271, 800 45, 600 266, 800 369, 200 406, 700 436, 300	937, 000 93, 000 619, 500 138, 700 662, 500 845, 600 913, 500 988, 800	752,000 45,000 369,500 93,200 395,700 476,400 510,000 556,600	185, 000 48, 000 250, 000 45, 500 266, 800 369, 200 403, 500 432, 200	0 0 86,600 3,100 8,000 3,400 18,100 36,300	0 0 64, 800 3, 000 8, 000 3, 400 14, 900 32, 200	0 0 21,800 100 0 3,200 4,100	\$4, 475, 000 285, 446 2, 825, 895 495, 054 3, 769, 767 5, 642, 798 7, 203, 119 7, 702, 971	\$4, 475, 000 285, 446 2, 530, 765 483, 231 3, 713, 776 5, 617, 425 7, 028, 980 7, 374, 269	\$295, 13 11, 82 55, 99 25, 37 174, 13 328, 70
169, 800 50, 000 50, 400 69, 400 279, 200 95, 500 96, 100 99, 000 102, 900 278, 100 104, 300 78, 300	94, 200 29, 500 28, 000 36, 700 157, 300 49, 500 53, 900 53, 900 171, 600 55, 900 62, 400 165, 700 60, 000 49, 000	75, 600 20, 500 22, 400 32, 700 121, 900 38, 800 41, 500 42, 800 43, 100 40, 500 112, 400 44, 300 38, 800 29, 300	159, 400 46, 300 47, 800 65, 300 267, 200 91, 200 91, 200 92, 700 96, 600 100, 600 272, 300 101, 900 77, 000	84, 100 25, 800 25, 500 32, 800 147, 800 46, 700 50, 600 50, 500 164, 500 50, 100 54, 300 50, 100 57, 700 47, 800	75, 300 20, 500 22, 300 32, 500 119, 400 38, 300 40, 500 125, 400 42, 300 40, 500 112, 100 44, 200 38, 700 29, 200	10, 400 3, 700 2, 600 4, 100 12, 000 4, 200 4, 500 8, 100 2, 400 2, 300 5, 800 2, 400 2, 100 1, 300	10, 100 3, 700 2, 500 3, 900 9, 500 2, 800 3, 300 7, 100 3, 200 1, 600 2, 300 5, 500 2, 300 1, 200	300 (7) 100 2,500 500 900 1,100 1,000 800 (7) 300 100	1, 287, 228 374, 020 382, 778 530, 430 2, 120, 637 666, 969 719, 701 2, 222, 103 710, 341 743, 389 768, 373 2, 073, 003 776, 674 723, 097 573, 232	1, 189, 640 340, 973 357, 270 491, 397 2, 007, 563 637, 170 692, 063 678, 330 2, 153, 937 682, 863 722, 208 748, 866 2, 023, 129 756, 712 704, 220 562, 197	97, 588 33, 04' 25, 50' 39, 03' 113, 07' 29, 79' 41, 37' 68, 16i 27, 47' 21, 18' 19, 50' 49, 87' 19, 96' 18, 87' 11, 03'
278, 900 78, 700 82, 900 117, 300 426, 800 133, 400 144, 300 406, 900 144, 400 141, 900 120, 600 284, 800 102, 500 87, 300 95, 000	167, 800 48, 200 51, 000 68, 600 247, 000 78, 800 85, 500 82, 700 238, 200 84, 200 83, 600 70, 400 59, 400 53, 100	111, 100 30, 500 31, 900 48, 700 179, 800 54, 600 61, 600 168, 700 58, 300 50, 200 43, 100 34, 200 (*)	276, 100 77, 800 82, 300 116, 000 420, 700 131, 300 145, 800 143, 600 393, 900 137, 800 116, 300 263, 800 100, 900 82, 800 80, 100	165, 600 47, 300 50, 800 67, 500 241, 500 77, 000 82, 300 82, 200 225, 500 79, 600 66, 300 57, 800 48, 600	110, 500 30, 500 31, 500 48, 500 179, 200 54, 300 61, 400 168, 400 60, 200 58, 200 50, 000	2,800 900 600 1,300 6,100 2,100 3,300 4,600 4,100 4,100 21,000 1,600 4,500 14,900	2, 200 900 200 1, 100 5, 500 1, 800 3, 200 4, 600 4, 000 4, 100 	600 0 400 200 600 300 100 200 300 (7) 100 200 (7) (9)	2, 162, 636 589, 997 637, 753 934, 886 3, 564, 158 1, 993, 920 1, 233, 672 1, 236, 566 3, 564, 509 1, 253, 102 1, 267, 746 1, 043, 661 2, 515, 714 916, 663 769, 386 829, 665	2, 138, 565 581, 497 632, 690 924, 379 3, 511, 204 1, 075, 644 1, 204, 978 1, 230, 582 3, 446, 722 1, 210, 745 1, 230, 238 1, 005, 739 2, 332, 834 902, 190 724, 876 705, 768	24, 07 8, 500 5, 06 10, 500 52, 95- 18, 27 28, 69- 5, 98- 117, 78' 42, 35' 37, 500 37, 92' 182, 886 14, 47' 44, 51' 123, 89'
	937, 000 93, 000 93, 000 706, 100 141, 800 670, 500 931, 600 1, 025, 100 169, 800 50, 400 69, 400 95, 500 96, 100 99, 500 102, 900 279, 200 88, 300 95, 500 102, 900 278, 100 104, 300 95, 500 107, 78, 700 104, 300 107, 78, 700 104, 300 107, 700 104, 300 107, 700 104, 300 107, 700 104, 300 107, 700 104, 300 107, 700 104, 300 107, 700 104, 300 107, 700 104, 300 107, 700 104, 300 107, 700 104, 300 107, 700 108, 700 109, 700 10	Total non-farm 937, 000 752, 000 93, 000 45, 000 706, 100 434, 300 141, 800 60, 200 670, 500 403, 700 1025, 100 588, 800 169, 800 94, 200 50, 000 29, 500 50, 400 28, 000 69, 400 36, 700 157, 300 88, 300 49, 500 50, 600 29, 500 50, 600 29, 500 50, 400 53, 900 95, 400 53, 900 95, 500 53, 900 95, 500 50, 500 50, 500 60, 700 75, 300 88, 300 49, 500 102, 900 62, 400 278, 100 104, 300 60, 000 95, 500 102, 900 62, 400 278, 100 104, 300 60, 000 95, 500 102, 900 62, 400 278, 100 104, 300 60, 000 95, 500 100, 90, 500 100, 90, 500 100, 90, 500 100, 90, 500 100, 90, 500 100, 90, 500 100, 90, 50, 500 100, 90, 50, 500 100, 90, 50, 500 100, 90, 50, 500 100, 90, 50, 500 100, 90, 50, 500 117, 300 60, 500 117, 300 60, 500 117, 300 60, 500 117, 300 60, 500 117, 300 60, 500 117, 300 60, 500 117, 300 60, 500 117, 300 60, 500 117, 300 60, 500 117, 300 60, 500 117, 300 60, 500 117, 300 60, 500 117, 300 60, 500 117, 300 60, 500 117, 300 60, 500 117, 300 60, 500 117, 400 82, 500 144, 400 82, 700 141, 900 83, 600 70, 400 824, 800 70, 400 85, 500 150, 500	Total non-farm	Total non-farm Urban non-farm Porty non-farm Urban non-farm non-fa	Total non-farm	Total non-farm	Total non-farm	Total non-farm	Total non-farm	Total non- farm	Total non- farm

¹ The estimates shown here do not include temporary units, conversions, dormitory accommodations, trailers, or military barracks. They do include prefabricated housing units.

These estimates are based on building-permit records, which, beginning with 1945, have been adjusted for lapsed permits and for lap between permit issuance and start of construction. They are based also on reports of Federal construction contract awards and beginning in 1946 on field surveys in non-permit-issuing places. The data in this table refer to nonfarm dwelling units started, and not to urban dwelling units sauthorized, as shown in table F-3.

All of these estimates contain some error. For example, if the estimate

All of these estimates contain some error. For example, if the estimate of nonfarm starts is 50,000, the chances are about 19 out of 20 that an actual enumeration would produce a figure between 48,000 and 52,000.

² Private construction costs are based on permit valuation, adjusted for understatement of costs shown on permit applications. Public construction costs are based on contract values or estimated construction costs for individual products. tion costs are based on contract values or estimated individual projects.

Depression, low year.

Recovery peak year prior to wartime limitations.

Last full year under wartime control.

Housing peak year.

Less than 50 units.

⁷ Less than 8 Revised. 9 Not available. Preliminary.

CE?