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THE FEDERAL EMERGENCY PROGRAM UNDER THE PWA

Aims

THE administration that came into office in the spring of 1933 adopted expanded public works as one of the major parts of its recovery program. Title II of the National Industrial Recovery Act provided for the creation of a Federal Emergency Administration of Public Works (PWA), and although a portion was assigned to other NRA activities, the sum appropriated by the Act, \$3,300,000,000, included the largest amount ever applied to recovery purposes in any public works scheme. Moreover, the entire amount was to be allotted by June 1935, that is, within two years. In point of fact, six months after the PWA had begun work the entire fund had been allotted, although in part tentatively, and it was announced that additional applications to an equal amount, for which no funds were available, had reached Washington. The principal object of this prompt allotment of the funds was "to increase employment quickly", by restoring consumer purchasing power and the demand for capital and other durable goods.

Provisions, Act of 1933

The method by which the Federal government was to finance the public works program was described in the National Industrial Recovery Act as follows:

Sec. 202. The Administrator, under the direction of the

President, shall prepare a comprehensive program of public works, which shall include among other things the following:

- (a) Construction, repair and improvement of public highways and park ways, public buildings, and any publicly owned instrumentalities and facilities;
- (b) conservation and development of natural resources, including control, utilization, and purification of waters, prevention of soil or coastal erosion, development of water power, transmission of electrical energy, and construction of river and harbor improvements and flood control and also the construction of any river or drainage improvement required to perform or satisfy any obligation incurred . . . through a treaty with a foreign Government heretofore ratified and to restore or develop for the use of any State or its citizens water taken from or denied to them by performance on the part of the United States of treaty obligations heretofore assumed: *Provided*, That no river or harbor improvements shall be carried out unless they shall have heretofore or hereafter been adopted by the Congress or are recommended by the Chief of Engineers of the United States Army;
- (c) any projects of the character heretofore constructed or carried on either directly by public authority or with public aid to serve the interests of the general public;
- (d) construction, reconstruction, alteration, or repair under public regulation or control of low-cost housing and slumclearance projects;
- (e) any (other) project of any character heretofore eligible for loans under subsection (a) of section 201 of the Emergency Relief and Construction Act of 1932, as amended and paragraph (3) of such subsection (a) shall for such purposes be held to include loans for the construction or completion of hospitals the operation of which is partly financed from public funds, and of reservoirs and pumping plants and for the construction of dry docks; and if in the opinion of the President it seems desirable, the construction of naval vessels . . . and of aircraft required therefor and construction of heavier-thanair aircraft and technical construction for the Army Air Corps

and such Army housing projects as the President may approve, and provision of original equipment for the mechanization or motorization of such Army tactical units as he may designate. . . . Provided further, That this title shall not be applicable to public works under the jurisdiction or control of the Architect of the Capitol or of any commission or committee for which such Architect is the contracting and/or executive officer.

Sec. 203 (a) With a view to increasing employment quickly (while reasonably securing any loans made by the United States) the President is authorized . . . through the Administrator or through such other agencies as he may designate or create,

- (1) to construct, finance, or aid in the construction or financing of any public-works project included in the program prepared pursuant to section 202;
- (2) upon such terms as the President shall prescribe, to make grants to States, municipalities, or other public bodies for the construction, repair, or improvement of any such project, but no such grant shall be in excess of 30 per centum of the cost of the labor and materials employed upon such project;
- (3) to acquire by purchase, or by exercise of the power of eminent domain, any real or personal property in connection with the construction of any such project, and to sell any security acquired or any property so constructed or acquired or to lease any such property with or without the privilege of purchase: *Provided*, That all moneys received from any such sale or lease or the repayment of any loan shall be used to retire obligations issued (for financing of the program) in addition to any other moneys required to be used for such purpose;
- ... Provided, That in deciding to extend any aid or grant hereunder to any State, county, or municipality the President may consider whether action is in process or in good faith assured therein reasonably designed to bring the ordinary current expenditures thereof within the prudently estimated revenues thereof.

The provisions of this section and section 202 shall extend to public works in the several States, Hawaii, Alaska, the District of

Columbia, Puerto Rico, the Canal Zone, and the Virgin Islands. . . .

- (c) In the acquisition of any land or site for the purposes of Federal public buildings and in the construction of such buildings provided for in this title, the provisions contained in sections 305 and 306 of the Emergency Relief and Construction Act of 1932, as amended, shall apply.
- (d) The President, in his discretion, and under such terms as he may prescribe, may extend any of the benefits of this title to any State, county, or municipality notwithstanding any constitutional or legal restriction or limitation on the right or power of such State, county, or municipality to borrow money or incur indebtedness.

In substance, Section 203 provided that the Federal government would lend up to 70 per cent on 'reasonable security' and give an outright grant of 30 per cent of the cost of the labor and materials used on any project of the types specified in Section 202. The grant would be given, however, only to states, municipalities or other public bodies. Moreover, a loan would be extended without a grant, or a grant without a loan, provided, in the latter case, that the grant was not merely being substituted for public works expenditures that the applicant would have made in any event. The rate of interest on the local bonds received by the government in exchange for loans was established at 4 per cent. If local bonds carried a higher rate, the difference would be refunded to the local unit. Allotments made to Federal

¹ The phrase "other public bodies" evoked a flood of applications from institutions of a non-profit making or public character. The PWA interpreted the phrase, however, on the basis of the status of the applicant, rather than its functions. That is, the test was whether the applicant was an arm of the state and was controlled by the legislative or executive branch of the state, city or county. It was evident from Congressional debates on the bill that such bodies as counties, irrigation or fire districts, incorporated commissions or authorities were intended, and that there was no expectation of extending gifts of money except to governmental agencies.

agencies or departments were, of course, all in the form of outright grants.

Section 203 (d), concerning the apparent abrogation of constitutional limitations on the debt-incurring powers of states, counties and municipalities, was construed by the PWA only in connection with Section 203 (3). That is, no loans were made in excess of the debt limits of a local government unit, but it was believed that the Federal government could purchase and then lease to applicants who had reached their debt limits or could not borrow for legal reasons the property that was constructed with Federal funds. Such a solution proved very popular with the applicants, but unfortunately for them was nullified by court rulings that the leases, which were to be paid off by local units within the life of the project, were comparable to installment buying and thus constituted the legally-forbidden debt. Even if the arrangements had not proved infeasible legally, the Federal government would have hesitated to extend its functions into even temporary ownership of school buildings, water plants or other public works which normally are in the hands of non-Federal agencies. Only one such project was accepted, that of the Georgia State Prison, which can if necessary be converted to Federal uses without doing violence to the traditions of Federal activity.

Funds could also be loaned to aid in "the financing of such railroad maintenance and equipment as may be approved by the Interstate Commerce Commission as desirable for the improvement of transportation facilities". Loans, but not grants, could be made to private corporations for construction purposes under Section 202 (c), (d) and (e).

In addition to the general provision for loans and grants, Title II made appropriations of part of the funds for specific purposes. The state highway systems received grants totaling \$400,000,000, on terms and with results discussed in Chapter IX. Fifty million dollars were allotted in the Act for national

forest highways, roads, trails, bridges and related projects, roads in Indian reservations and through public lands.

For the purpose of "aiding in the redistribution of the overbalance of population in industrial centers", \$25,000,000

TABLE 19

PWA ALLOTMENTS TO FEDERAL AGENCIES FOR PURPOSES OTHER THAN THE PWA CONSTRUCTION PROGRAM

\$3,300,000,000

TOTAL AMOUNT OF APPROPRIATION

| IDIAL AMOUNT OF APPROPRIATION | | <i>\$3,300,000,000</i> |
|--|---------------|------------------------|
| Executive and Legislative Allotments | | |
| Farm Credit Administration | \$100,000,000 | |
| Tennessee Valley Authority | 50,000,000 | |
| Emergency Conservation Corps | | |
| Purchase of land | 20,000,000 | |
| Current expenses | 301,037,315 | |
| Great Smoky National Park | 1,550,000 | |
| National Recovery Administration | 4,924,000 | |
| Civil Works Administration | 400,000,000 | |
| Federal Emergency Relief Corporation | 1,505,000 | |
| Subsistence Homesteads | 25,000,000 | |
| Public Works Administration | | |
| Administrative expense | 6.812,205 | |
| Administrative reserve | 25,000,000 | |
| Special reserve | 35,000,000 | |
| National Planning Board | 35,000 | |
| National Planning Board (State consultants) | 250,000 | |
| Emergency Housing Corporation | 100,001,000 | |
| Special Allotments | | |
| Central Statistical Office | 20,000 | |
| Electric Home and Farm Authority, Inc. | 1,000,000 | |
| Executive Council | 20,000 | |
| Federal Alcohol Control Commission | 500,000 | |
| General Accounting Office | 506,000 | |
| National Emergency Council | 60,000 | |
| Treasurer, relief of contractors | 100,000 | |
| Interior, Office of Secretary | 14,731 | |
| Surplus Relief Corporation | 25,000,000 | |
| Earmarked for Federal projects, air-conditioning | g 1,000,000 | |
| Virgin Islands | 1,000,000 | |
| Emergency Leasing Corporation | 1,000 | |
| Total Allotments | | \$1,100,336,251 |
| Balance Available for Loans and Grants | | \$2,199,663,749 |

Source: Senate Doc. No. 167, 73rd Cong. 211d Sess., pp. 10-11

were set aside for making loans and otherwise aiding in the purchase of subsistence homesteads, the repayments of such loans to be placed in a revolving fund for homestead purposes. The Division of Subsistence Homesteads subsequently created was not attached to the PWA but was placed under the Department of the Interior.

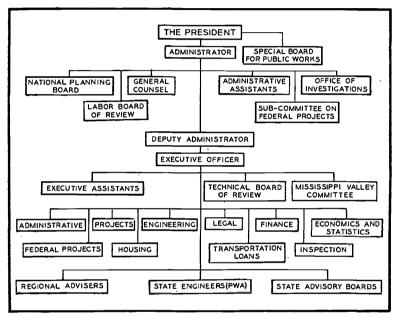
Finally, \$100,000,000 were assigned to the Farm Credit Administration for expenditures in carrying out the Agricultural Adjustment Act. Table 19 shows the distribution of these special grants to Federal agencies, some of which were made by later executive order. Thus, \$1,100,000,000 of the fund were allotted to various sections of the Recovery Administration to carry on projects apart from the regular public works program of construction, leaving about \$2,200,000,000 to be assigned to Federal departments, states, municipalities and other public bodies, private corporations and railroads for construction purposes.

STRUCTURE OF THE PWA

An elaborate organization was promptly set up to handle the allotment of funds. Chart II shows its structure. The duties of the Washington agencies are obvious, for the most part, from their titles. The Division of Inspection has inspectors in each state, whose functions are to watch the performance of public works contracts entered into by local bodies as soon as construction begins. The Division of Investigation was established to guard against irregularities in the distribution of funds. The Technical Board of Review handles "difficult questions of engineering, finance or law", especially relating to very large projects, and controversial matters, chiefly dealing with non-Federal projects, such as appeals from applicants whose requests for funds were rejected, and protests against allotments of funds. The Mississippi Valley

Committee was established to advise the Administration concerning certain projects in the states of the Mississippi River drainage area. The subjects of main interest to the Committee

STRUCTURE OF THE PUBLIC WORKS ADMINISTRATION



are flood control, power development, navigation, irrigation, reforestation and soil erosion, and water conservation in general. It is expected that the Water Flow Committee, composed of the Secretaries of Agriculture, Interior, War and Labor, and appointed to draft a plan for national economic development, will cooperate with this Committee in attacking the problem of coordinated development of the country's chief inland waterway. The State Advisory Boards were made

responsible for (1) stimulating the submission of projects; (2) assembling the essential data from applicants; (3) examining the projects from the point of view of coordinated planning and social desirability; (4) submitting the application to Washington with their recommendations. Each Advisory Board consisted of three members (four in Louisiana and Texas). The State Engineers, appointed by the PWA, are the executive officers of the Advisory Boards and are responsible directly to the Administrator for the analysis and submission to Washington of projects in the states. Ten regional advisers were appointed to assist the National Planning Board in drawing up its comprehensive plan. Both the Regional Advisers and the State Advisory Boards were abolished when the allotment of funds was completed and the PWA turned to the work of transferring funds and supervising construction.

LABOR CONDITIONS

The labor provisions of the act included the usual clauses barring the use of convict labor and giving preference in employment to ex-service men with dependents, citizens, and residents of the political subdivision where the work is carried on. The thirty-hour week was established unless in the opinion of the Government Engineer the work was of an emergency character or there was an insufficient supply of labor in the immediate vicinity of the project, and unless the project was in an isolated district where the employees were boarded and lodged by the contractors. It was required that "the maximum of human labor be used in lieu of machinery wherever practicable and consistent with sound economic and public advantage; and to the extent that the work may be accomplished at no greater expense by human labor than by the use of machinery, and labor of requisite qualifications

is available, such human labor [should] be employed". Such a clause, if enforced, would appear to be in contradiction to the expressed hope of the Administration that public works expenditures would stimulate the materials and machinery industries; it is probable, however, that the factor of expense was given preponderate importance. Certainly no such general use of hand labor as was practiced by the Civil Works Administration was accepted, since the PWA did not intend to provide 'work relief'.

The Special Board for Public Works established wage scales for projects financed from Federal funds as follows.

| REGION ³ | MINIMUM HOURLY WAGE |
|---------------------|---------------------|
| Southern zone | |
| Skilled labor | \$1.00 |
| Unskilled labor | .40 |
| Central zone | |
| Skilled labor | 1.10 |
| Unskilled labor | •45 |
| Northern zone | |
| Skilled labor | 1.20 |
| Unskilled labor | .50 |

Intermediate classes of labor were to be paid the prevailing rates of the district, but not below the zone minima for unskilled labor fixed as above. If the prevailing hourly rate prescribed under collective agreements or understandings between organized labor and employers on April 30, 1933 was above the minimum set for the zone, that agreed wage rate was to be paid for employees on PWA projects.

² Article D, Contract Provisions, Bul. No. 2, PWA.

³ Southern zone: South Carolina, Georgia, Florida, Arkansas, Alabama, Mississippi, Louisiana, Arizona, Oklahoma, Texas, New Mexico.

Central zone: Delaware, Maryland, Virginia, Tennessee, Colorado, Utah, California, North Carolina, West Virginia, Kentucky, Missouri, Kansas, Nevada, District of Columbia.

Northern zone: Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Indiana, Wisconsin, Minnesota, Nebraska, Wyoming, Oregon, South Dakota, Idaho, Ohio, Michigan, Illinois, Iowa, North Dakota, Montana, Washington.

A Board of Labor Review, composed of one labor representative, one representative of employers and a chairman representing the PWA, was established to hear cases arising under the operation of contracts. In the first six months of its existence the Board had few cases, mainly because non-Federal projects were slow in being started, but in the cases it did handle several questions recurred frequently. First, the regulations did not specify the types of labor which fell in the intermediate class-that is, which were not unskilled and which were not classifiable as 'expert mechanics'.4 Second, the PWA rates for skilled and unskilled labor were, for certain sections of the country, claimed to be so high that contracting authorities were anxious about costs. Third, the 'prevailing rate' clause was so phrased as to open the possibility that all public works construction in the United States would have to be brought under union conditions, irrespective of the actual degree of unionization in a zone and the type of work required on a project.

As to the first question, intermediate rates, presumably they could have been fixed on the basis of local custom. But in some cases pressure arose in non-union projects on the part of the contractors, who endeavored to have as many semi-skilled 'helpers', at intermediate rates, and as few skilled mechanics, at skilled rates, as possible. Under union conditions, the organized building trades' limitations on the number of helpers who could serve as journeymen, or 'intermediate grade' workers, fixed the ratio. Certain building trades unions, however, claimed as skilled mechanics workers who, when unorganized, are universally recognized as semi-skilled.

The second question, the level of wage rates set by PWA regulations, is familiar in government enterprises and involves the old controversy concerning government competition with private firms in the labor market. The PWA took the position that the wage rates were adjusted to provide a standard of living in decency and comfort, and were fixed to increase purchasing

⁴ Article B (d) of the Contract Provisions specified that the minimum rates fixed by the PWA could not be used to discriminate against assistants, helpers, apprentices, and skilled journeymen mechanics.

power, and defended them on this basis. The relatively high scales in some regions, however, engendered the fear that the PWA program, if economically administered, would absorb the most skilled workers, and that as private construction activity developed it would have to draw from the less skilled group which remained. The problem is examined more fully in Chapter XIV.

The third difficulty was that whereas the agreement with respect to the precedence of prevailing rates, entered into between the Administrator and the building trades unions on August 14, 1933, covered only building construction, the prevailing rate clause of the PWA regulations, as mentioned above, covered all construction projects. The question, therefore, was of the types of project that would be affected by the prevailing rates clause. If, for example, river work had usually been done under nonunion conditions, would rates of wages for land work which prevailed under collective agreements in effect on April 30, 1933 5 apply to river work? In 1931 Congress passed the Bacon-Davis Act, providing that on all public buildings prevailing rates of wages should be paid. There has been much state legislation to the same effect, but considerable vagueness as to what prevailing rates were within the meaning of these statutory definitions, as there was in the regulations of the Special Board for Public Works. The vagueness appeared not only with respect to types of project but also in connection with the degree to which union conditions should be accepted as prevailing over geographical areas which were under jurisdiction of a particular union in theory but not in practice.

PROGRESS OF THE PROGRAM

A statistical account of PWA activities shows the necessity of establishing an elaborate organization. In addition, it reveals the points of difficulty and delay, both of a general and an incidental nature, in carrying out a scheme of unemploy-

⁶ As provided in the agreement of August 14, 1933.

ment relief and business stimulation through public works.

The PWA enumerated the types of project that would be given priority in awarding funds to non-Federal bodies as follows: (1) water works and sewage; (2) school buildings; (3) other 'regenerative' projects (that is, projects tending to stimulate further projects), such as highways, bridges, tunnels, transmission of electrical energy into districts not hitherto served; (4) other projects that are socially necessary and economically sound. These rules of priority were to be applied to both grants and loans. For Federal projects the PWA found the six-year advance estimates of needed construction and maintenance, collected by the Federal Employment Stabilization Board from the various government departments, a useful guide. These projects offered the quickest method of expediting the construction program during the first two months.

Table 20 shows the distribution of awards by type of

TABLE 20
PWA ALLOTMENTS BY TYPE OF PROJECT¹
(in thousands)

| ТҮРЕ | TOTAL | FEDERAL | NON-FEDERAL |
|--------------------------------|-------------|-------------|-------------|
| TOTALS | \$2,175,436 | \$1,380,949 | \$794,487 |
| Highway construction | 504,992 | 463,249 | 41,743 |
| Utilities | 221,864 | 14,780 | 207,083 |
| Railways . | 199,608 | | 199,608 |
| Aircraft and aviation aids | 20,169 | 19,750 | 419 |
| Buildings | 307,401 | 168,803 | 138,598 |
| Structures and bridges | 153,201 | | 153,201 |
| Vessels | 262,384 | 262,384 | |
| Reclamation, irrigation, flood | • | | |
| control and power | 236,940 | 202,136 | 34,804 |
| Water navigation aids | 182,624 | 180,812 | 1,813 |
| Agricultural aids and game | - | | |
| protection | 23,141 | 23,141 | |
| Miscellaneous | 63,112 | 45,894 | 17,218 |

Source: Division of Economics and Statistics, PWA

Excludes allotments for purposes other than public works.

project in Federal and non-Federal groups.6 In the Federal column street and highway allotments far exceed all others, since they include the \$400,000,000 statutory grant. The second largest item is naval vessels, which received a special grant of \$238,000,000. A large part of the Federal engineering projects, as well as ordinance and equipment (amounting to about \$18,000,000 under Miscellaneous), is under the supervision of the Army. The award of funds to Federal projects constituted about 63 per cent of all allotments, owing partly to the advance planning work of the Federal Employment Stabilization Board, and the absence of legal and financial hindrances in the case of Federal applications. The two statutory grants for public roads and to the Navy also influenced this figure heavily. Over 45 per cent of the Federal funds were devoted to Army and Navy construction, including ships and aircraft. In fact, the amounts allotted to these two departments exceeded the total of all allotments to states, municipalities and other public bodies (see Table 21). Many of the projects undertaken by the Army were for river and harbor work; \$7,500,000 were allotted for 100 combat planes, while most of the remainder of the Federal allotments under 'Aircraft and aviation aids' went to the Bureau of Aeronautics of the Navy and the Aeronautics Branch of the Department of Commerce (approximately \$7,500,000 and \$2,500,000 respectively).

Of other large Federal allotments, over \$100,000,000 went to the Department of the Interior for reclamation projects,

⁶ Most figures in this chapter do not include allotments to the Civilian Conservation Corps, the Civil Works Administration, the Tennessee Valley Authority, for housing, or other statutory grants with the exception of grants for Federal-aid highways and other roads. Equipment, maintenance and repairs are, however, generally included. The totals in the tables presented are not always consistent because the tables, while showing in each case the latest data available, were compiled at different times. Withdrawals and reallotments of funds cause slight changes in the figures from time to time, but do not affect the general tenor of the argument.

TABLE 21 DISTRIBUTION OF PWA ALLOTMENTS BY AGENCY

| | AMOUNT | PERCENTAGE | PERCENTAGE OF |
|-------------------------------|----------------|------------------|---------------|
| FEDERAL | (in thousands) | OF FEDERAL | GRAND TOTAL |
| Agriculture 1 | \$56,511 | 4 | 3 |
| Public roads | 400,000 | 29 | 18 |
| Commerce | 9,051 | 1 | 4 |
| Justice | 1,255 | 4 | 4 |
| Labor | 1,943 | 4 | 4 |
| Post Office | 533 | • | 4 |
| State | 4,761 | 4 | 4 |
| Interior | 174,038 | 13 | 8 |
| Treasury | 92,906 | 7 | 4 |
| War | 343,523 | 25 | 16 |
| Navy | 38,266 | 20 | 13 |
| Navy (statutory) ² | 238,000 | 20 | 13 |
| Independent offices | 6,540 | 4 | • |
| District of Columbia | 1,760 | 4 | 4 |
| Total Federal | \$1,369,087 | 100 ⁶ | 62 |
| NON-FEDERAL | | | |
| States and municipalities | \$450,744 | } 67 | 25 |
| Other public bodies | 105,895 |) ' | • |
| Housing 8 | 48,772 | 6 | 2 |
| Private projects ⁸ | 13,618 | 2 | 1 |
| Relief highways | 8,931 | 0 | 4 |
| Railroads | 199,608 | 24 | 9 |
| Total non-Federal | \$827,568 | 100 ⁶ | 37 |
| Grand total allotted | \$2,196,655 | 100 | 1008 |
| | | | |

Source: Division of Economics and Statistics, PWA

¹ Excluding public roads.

2 For warships.

⁸ Later reduced: see text below.

⁴ Less than one-half of one per cent.

⁵ Excluding railroads.

⁶ Actual totals of figures shown are slightly less than 100 because of omission of items marked ⁶.

including the Boulder Dam and All-American Canal in the Southwest, the Grand Coulee Dam in the State of Washington, and the Casper-Alcova irrigation and power project in Wyoming. The large allotment to the Treasury is explained by the fact that it is responsible for the construction of post offices, for which about \$48,000,000 were allotted.

Among non-Federal allotments for projects of a public

character, utilities (sewers and water works) received the largest amounts, followed by buildings and bridges and structures. The small amounts allotted for other types of non-Federal work are in general balanced by large Federal allotments, either because they are for projects usually undertaken by the Federal government or because they are on a scale that necessitated Federal control (for example, reclamation, irrigation, flood control and power).

The railroads hesitated to apply for loans until especially favorable terms had been arranged, but their allotments then rose to the highest figure for any one type of non-Federal allotment. Through the President's intervention a reduction was secured in the price of steel rails, and, with the cooperation of the Federal Coordinator of Transportation, the loans were granted on special terms. To those railroads not in immediate danger of reorganization and possessing reasonable credit on the assumption of recovery, loans were granted for the purchase of rails and fastenings on notes maturing within ten years and subject to amortization in equal annual payments after the first year. These loans were made without collateral in some few instances, provided the credit condition of the railroad seemed favorable. Loans up to 100 per cent of the cost were also made for buying new equipment, through the purchase by the government of equipment-trust certificates, amortizable in semi-annual payments over periods of fifteen or twenty years. For the repair and reconstruction of equipment, the PWA accepted, in return for loans, collateral-trust notes to be paid off in ten years. To enable the Pennsylvania Railroad to complete its electrification program, the PWA agreed to purchase, in addition to equipment-trust certificates, thirty-year serial collateral trust bonds secured by bonds and stocks of subsidiary companies.

For all railroad loans an interest rate of 4 per cent was

established, but interest was to be paid only after the first year. The trustees acting under the trust indentures under which the carriers' securities were issued were to be independent and to have no interlocking relationships with the borrowers. All loans were made with the approval of the Interstate Commerce Commission.

The theory behind the favorable terms accorded the railroads was that they would enable one of the largest buyers of capital goods to make purchases and also to relieve the severe unemployment among railroad shop and maintenanceof-way labor. Moreover, it was argued that since railroads were so largely subject to government regulation through the Interstate Commerce Commission and the Railway Labor Act loans to them were especially safe.

Loans to other types of private corporation were not, as a whole, regarded with favor. First, it was found that many of the projects proposed were not soundly conceived, especially those pertaining to housing; second, they inevitably gave rise to objections from other private enterprises which saw no reason why they too should not 'cash in' at the government's expense; third, the PWA showed a noticeable lack of enthusiasm to giving direct financial aid to private industry through 'pouring money in at the top'. Loans to private corporations (apart from railroads and housing corporations, which will be dealt with later) were therefore few. On January 10, 1934, they amounted to \$13,618,000, and included loans for hospitals, toll bridges, waterfront developments and a few utilities in some of the smaller cities. By the middle of February 1934 the PWA had determined to award to public bodies or railroads alone any surplus funds that might accrue from the rescinding of allotments.

In the light of this attitude towards the private development of public utilities, it is interesting to examine the awards to public bodies for such purposes. The larger power developments for which PWA funds were contributed have already been mentioned; to them should be added the Tennessee Valley project, which is administered by a separate authority, but with PWA funds.

Loans for publicly-owned power and light plants were approved for only 31 projects in 20 states; of these, 17 were considered to be in competition with existing privately-owned plants. Of the 31 projects, 6 were to be built in places of over 25,000 population (2 being additions to existing municipal plants), 10 in places of 10,000 to 25,000 population (6 being additions to existing plants), and 15 in places of less than 10,000 population (6 being additions to existing plants). The influence that they will have upon rate competition is, of course, as important a consideration as the additional service they will provide.

The third type of private enterprise eligible for PWA funds consisted of limited dividend housing corporations. It was expected that money could be lent for socially desirable housing, developed to make adequate provision for population densities, and entirely apart from speculative real estate schemes. No loans were to be granted to the full value of the project; the applicant was to show evidence of a 'tangible equity' in the form of cash, land, materials or services. These standards were high; very few private applications met them. The housing problem in the United States would seem, as yet, to be too complex and undefined to be solvable through the simple expedient of generous financial aid from the Government. Therefore, only \$48,000,000 were lent in preliminary allocations; of this, over \$23,000,000 were later revoked, chiefly because the applicants failed to meet the equity requirements. Even the slum clearance plans, advocated when the Emergency Public Works Hous-

TABLE 22
CLASSIFICATION OF PWA PROJECTS BY SIZE

| | F | E | D E R A | L | N O N | - F | E D E | R A L | \vdash |
|--------------------------|----------|---------|-----------------|----------|----------|----------|---------------|----------|--------------------|
| | NUMBER | PERCENT | - TOTAL | PERCENT- | NUMBER P | ERCENT- | TOTAL | PERCENT- | 王 |
| SIZE OF PROJECT | OF | AGE OF | PROJECT COST | AGE OF | OF | AGE OF | PROJECT COST | AGE OF | $_{\perp}$ |
| | PROJECTS | | IN DOLLARS | TOTAL | PROJECTS | TOTAL | IN DOLLARS | TOTAL | P |
| Under \$49,999 | 9,057 | 68.9 | \$141,533,404 | 10.34 | 858 | 46.o | \$19,475,663 | 1.93 | 8 |
| 50,000 to 99,999 · | 2,093 | 15.9 | 141,286,311 | 10.32 | 323 | 17.3 | 24,073,538 | 2.39 | Ä |
| 100,000 to 499,999 | 1,678 | 12.8 | 307,607,393 | 22.47 | 439 | 23.5 | 99,669,851 | 9.90 | P |
| 500,000 to 999,999 | 126 | 1.0 | 83,889,995 | 6.13 | 89 | 4.8 | 63,927,703 | 6.35 | $\ddot{\varkappa}$ |
| 1,000,000 to 4,999,999 | 153 | 1.2 | 368,049,422 | 26.87 | 118 | 6.3 | 250,409,385 | 24.89 | Ö |
| 5,000,000 to 9,999,999 | 15 | 0.1 | 96,537,241 | 7.05 | 22 | 1.2 | 137,980,824 | 13.71 | G. |
| 10,000,000 to 24,999,999 | 15 | 0.1 | 205,181,579 | 14.99 | 12 | 0.6 | 171,470,000 | 17.04 | 7 |
| 25,000,000 to 49,999,999 | 1 | 0.01 | 25,000,000 | 1.83 | 1 | 1.0 | 29,258,000 | 2.91 | |
| 50,000,000 to 99,999,999 | | | | | 3 | 0.2 | 210,000,000 | 20.87 | Z |
| Total | 13,138 | 100.0 | \$1,369,085,345 | 100.00 | 1,865 | 100.0 \$ | 1,006,264,964 | 100.00 | |

Source: Division of Economics and Statistics, PWA

ing Corporation was established, met a check because of the excessively high prices demanded for land.⁷

The Housing Corporation is, for the present, restricting its activities to loans for house renovation, "exploratory work and to demonstration projects placed where a fortunate combination of need and low land costs makes immediate construction feasible".

Table 22 presents a classification of Federal and non-Federal projects by size. The column 'total project cost in dollars' in the non-Federal group refers to total cost of the projects in that class, including money spent by the applicant, not to total allotments by the PWA. About 8,000 projects to be financed by means of the Federal-aid highway funds, falling in the classification under \$49,999, are included; also naval projects, less than 100 in number, financed under the special grant of \$238,000,000. Although the size of projects as described in this table is only a rough guide, it gives some indication of the length of time required for completion.

Table 23 shows the financing of non-Federal projects according to method—grant or loan. Omitting loans without

TABLE 23
METHOD OF FINANCING NON-FEDERAL PWA PROJECTS
(in thousands)

| | • | , | SPENT BY | |
|----------------------|-----------|-----------|-----------|-------------|
| METHOD | LOANS | GRANTS | APPLICANT | TOTAL |
| Loans without grants | \$248,380 | | | \$248,380 |
| Loans with grants | 433,198 | \$106,386 | | 539,584 |
| Grants without loans | | 39,603 | \$178,697 | 218,300 |
| Totals | \$681,578 | \$145,989 | \$178,697 | \$1,006,264 |

Source: Division of Economics and Statistics, PWA

¹ Including loans to railroads, housing corporations and other private enterprises.

⁷ The Housing Corporation secured a ruling which permitted it to give notice of condemnation whenever a project was being delayed by unreasonably high land prices.

⁸ Letter from the Administrator of Public Works; Senate Doc. 167, 73rd Cong., 2nd Sess., p. 3.

grants, which went largely to private enterprises, the proportion of grants to total allotments was 30 per cent, as stipulated in the act. If additional grants had been given, undoubtedly non-Federal projects would have been allotted more quickly. But the PWA felt the necessity of guarding against too liberal awards of grants where loans were not financially feasible, since such a policy would have evoked a general plea of impoverishment on the part of applicants in order to obtain grants.

Tables 24 and 25 reveal the rate of progress in awarding and transferring funds by months, to April 30, 1935, and the employment created. The tables indicate a considerable lag in value of contracts awarded and of day labor work started. The explanation lies partly in the interval intervening between the time of preliminary filing of applications and the execution of bond contracts by the applicants. Applications were approved much more quickly in Washington during the first months of 1934, and the delays then began in the execution of bonds, although this procedure was stimulated in some degree by the threat of withdrawal of allotments if applicants did not act promptly. The remainder of this chapter will discuss the nature of the delays and difficulties that faced the PWA in attempting the expansion of public construction, difficulties which prevented the program from full and prompt accomplishment in spite of the generous terms of the act.9

^{*}As this book goes to press a second huge public works program has just been approved by Congress (April 5, 1935) and the details announced by the President. It appropriates an additional sum of \$4,000,000,000, together with \$880,000,000 in existing balances of the RFC and PWA, to be used "in the discretion and under the direction of the President" to provide "relief, work relief and to increase employment by providing for useful projects". The fund of \$4,000,000,000 is earmarked into eight broad classifications of projects; the remaining \$880,000,000 is to be used by the FERA for relief purposes while the program gets under way. It is interesting to compare the allocation of funds under the two programs, by purpose. It should be noted that both programs include large sums for purposes other than construction. (Note concluded on p. 113)

TABLE 24

PROGRESS ON PWA ALLOTMENTS FOR NON-FEDERAL PROJECTS, JUNE 1933-APRIL 1935 1

CONTRACTS AWARDED AND DAY LABOR WORK STARTED VALUE NON-FEDERAL PROJECTS OF CONTRACTS EYCLUDING ALL OTMENTS AWARDED AND

| | | | | NON-I'LD | ERAL I ROJECTS | OF CONTRACTS | | |
|-----------|-----------------|------------------|-------------|------------|----------------|----------------|-----------|---------------|
| | | | | EXCLUDIN | G ALLOTMENTS | AWARDED AND | NUMBER | |
| | | | | MADE 7 | TO RAILROADS | DAY LABOR | OF MEN | _ |
| | | | | VALUE OF E | STIMATED VALUE | WORK STARTED | AT WORK | PΙ |
| YEAR AND | | TOTAL | | CONTRACTS | OF DAY LABOR | UNDER RAILROAD | (monthly | Þ |
| MONTH 2 | ALLOTMENTS | ESTIMATED COST 3 | TOTAL VALUE | AWARDED | WORK STARTED | ALLOTMENTS 4 | averages) | Ź |
| | (in thousands) | (in thousands) | (i n | t h o | u s a | n d s | 6 / | Ź |
| 1933 | , | ` , | • | | | | | _ |
| June | | | | | | | | Z |
| July | \$88o | \$9 09 | \$213 | \$91 | \$122 | | | က |
| August | 92,236 | 92,280 | 2,408 | 1,783 | 626 | | | ۳ |
| September | 174,30 3 | 190,443 | 7,352 | 5,075 | 2,277 | | 1,168 | ď |
| October | 265,991 | 293,057 | 18,569 | 14,828 | 3,740 | | 3,602 | В |
| November | 482,033 | 533,366 | 27,400 | 22,788 | 4,612 | | 15,929 | |
| December | 660,146 | 731,582 | 53,961 | 46,281 | 7,680 | | 21,993 | |
| | • | | . 500 | • . | • • | | 000 | |
| 1934 | | | | | | | | € |
| January | 818,399 | 964,624 | 129,649 | 67,576 | 8,073 | \$54,000 | 22,546 | 0 |
| February | 817,430 | 960,685 | 184,600 | 91,388 | 9,305 | 83,907 | 31,706 | |
| March | 794,168 | 920,910 | 249,856 | 109,305 | 9,927 | 130,624 | 42,538 | $\overline{}$ |
| April | 778,592 | 927,602 | 299,328 | 131,615 | 10,370 | 157,343 | 64,736 | S |
| May | 762,474 | 913,546 | 333,930 | 158,684 | 11,172 | 164,074 | 93,050 | |
| Iune | 943,630 | 1,154,047 | 369,140 | 190,202 | 12,866 | 166,072 | 121,151 | |
| July | 970,449 | 1,206,332 | 409,527 | 227,722 | 14,494 | 167,310 | 143,228 | |
| August | 993,410 | 1,258,288 | 449,240 | 263,765 | 15,077 | 170,398 | 158,032 | |
| September | 996,938 | 1,271,498 | 475,118 | 289,413 | 15,307 | 170,398 | 154,599 | |
| October | 998,590 | 1,275,185 | 509,989 | 319,376 | 15,772 | 174,841 | 155,944 | |
| November | 986,694 | 1,272,776 | 550,323 | 344,831 | 16,047 | 189,445 | 150,922 | |
| December | 988,112 | 1,283,470 | 574,751 | 368,077 | 16,497 | 190,177 | 123,764 | |
| | | 0.17 | 012.10 | 3-3,011 | | - 3-7-11 | 3,1-4 | |

Source: Division of Economics and Statistics, PWA

¹ All figures, except for employment (last column), are cumulative. Occasional decreases in allotments are due to rescissions.

² As of end of month.
³ Includes money to be supplied by the applicant.

⁴ Separate totals as to contracts and day labor work started not available.

⁵ Estimated.

| PROGRESS ON PWA ALLOTMENT | TS FOR FEDERAL PROJECTS, JUNE 1933-APRIL 1935 1 | |
|---------------------------|---|----------------------------|
| ALLOTMENTS | CONTRACTS AWARDED AND DAY LABOR WORK STARTED TOTAL VALUE OF VALUE OF DAY LABOR VALUE CONTRACTS AWARDED WORK STARTED | MEN AT WORK (monthly |
| (in thousands) | (i n t h o u s a n d s) | averages) |
| \$638,000 688,555 | \$48,336 \$8,404 \$39,932 276,670 106,737 50,042 | 329 0654 |

TABLE 25

| June | φυ <u>σ</u> υ,ουσ | | | | |
|--------------|-------------------|--------------------------|-----------------|----------|-----------|
| July | 688,555 | \$ 48,33 6 | \$8,404 | \$39,932 | 329 |
| August | 922,854 | 256,670 | 196,727 | 59,943 | 9,654 |
| September | 1,233,775 | 409,707 | 272,563 | 137,145 | 52,219 |
| October | 1,293,714 | 59 ⁸ ,753 | 391,464 | 207,289 | 117,257 |
| November | 1,314,782 | 719,973 | 478,136 | 241,837 | 226,880 |
| December | 1,349,937 | 825,062 | 554,590 | 270,473 | 238,575 |
| 1934 | | | | | • |
| January | 1,370,874 | 912,342 | 619,909 | 292,433 | 226,852 |
| February | 1,371,910 | 956,910 | 657,947 | 298,963 | 218,878 |
| March | . 1,381,541 | 1,008,868 | 698,516 | 310,352 | 227,102 |
| April | 1,404,280 | 1,076,724 | 758,272 | 318,452 | 254,126 |
| May | 1,405,993 | 1,114,575 | 784,84 2 | 329,733 | 320,822 |
| June | 1,406,390 | 1,155,645 | 814,294 | 341,351 | . 407,429 |
| J uly | 1,506,596 | 1,184,936 | 831,638 | 353,299 | 475,812 |
| August | 1,507,721 | 1,214,441 | 853,347 | 361,094 | 440,590 |
| September | 1,518,556 | 1,242,287 | 872,751 | 369,537 | 374,075 |
| October | 1,521,273 | 1,268,932 | 884,432 | 384,500 | 303,289 |
| November | 1,542,467 | 1,289,182 | 900,747 | 388,435 | 233,926 |
| December | 1,546,501 | 1,308,865 | 917,099 | 391,766 | 184,110 |
| 1935 | | | | 00 . | • |
| January | 1,556,333 | 1,321,147 | 925,620 | 395,527 | 148,973 |
| February | 1,520,479 | 1,332,693 | 932,790 | 399,904 | 135,134 |
| March | 1,521,343 | 1,343,387 | 941,574 | 401,812 | 138,430 |
| April | 1,522,596 | 1,366,416 | 960,529 | 405,886 | 144,367 |
| 0 D' ' C | | ***** | - 00 | | 11.0 / |

941,574 960,529 1,521,343 1,343,387 Source: Division of Economics and Statistics, PWA ¹ All figures, except for employment (last column) are cumulative. Occasional decreases in allotments are due to rescissions.

YEAR AND

1933 June

MONTH 2

² As of end of month.

PROBLEMS RAISED WITH RESPECT TO THE USE OF PUBLIC WORKS AS A MEANS OF BUSINESS STIMULATION AND REEMPLOYMENT

In spite of the interest aroused in public works projects as a result of the Emergency Relief and Construction Act of 1932, the 1933 appropriation found the local units at first unprepared to submit projects, partly because whatever planning might have been done in the early years of the depression had been curtailed by the dismissal of engineering forces for reasons of economy, and partly because of the financial stringencies that had affected almost all states and cities by 1933. By September, however, both the number and the value of applications filed in Washington and with state engineers had increased sharply. The slower upturn

| (Note | 9 | concluded) |
|-------|---|------------|
| | | |

| 1933 PROGRAM 1 | |
|--|---------------|
| | (in millions) |
| Highways, roads, etc. | \$437 |
| Rivers, harbors, etc. | 393 |
| TVA and housing | 125 |
| Naval construction | 238 |
| Other Federal construction | 544 |
| Loans and grants to states, cities, etc. | 764 |
| Loans to railroads | 200 |
| CWA | 400 |
| CCC | 323 |
| Relief: FERA and AAA | 276 |
| Total | \$3,700 |
| 1935 PROGRAM | |
| Highways, roads, bridges, grade crossings, etc. | \$800 |
| Housing | 450 |
| Reforestation, flood-control, rivers and harbors, et | с. 350 |
| Loans and grants to states, cities, etc. | 900 |
| Rural electrification | 100 |
| Rural relief and rehabilitation, etc. | 500 ` |
| CCC | 600 |
| Work relief for professional workers | 300 |
| FERA | 88o |
| Total | \$4,88o |
| | |

¹ Includes additional \$400,000,000 earmarked one year later for PWA.

in the number of applications approved in Washington reveals the early influx of ineligible projects, as well as the delays incident to the exact interpretation of the act, a task upon which considerable time was spent by the Special Board of Public Works. The gap between the number and value of applications approved and the number and value of bond contracts sent to the applicants by the government was accounted for by the formalities involved in examining a project and the difficulties and delays in preparing bond contracts. 10 By the end of November the value of non-Federal applications alone was more than \$3,000,000,000, but less than half of those sent through the clearing house of state engineers to Washington were finally approved. Projects were examined concurrently by the engineering, legal and financial divisions, and were then sent for final approval to the Special Board of Public Works. The legal and financial divisions were required not only to pass upon the original applications, but also to manage the drawing up of bond contracts after the applications were approved. Tables 24 and 25 show that the Federal projects approved outran the non-Federal by a wide margin, because of the difficulties encountered in financing the non-Federal work. In states where these difficulties could not be readily overcome, Federal projects were begun as far as was feasible. There was some attempt to distribute non-Federal allotments on a basis of 75 per cent weight to population and 25 per cent weight to unemployment. The amount awarded for Federal projects in each state was subtracted before this calculation was made, but at the end of 1933 only 18 states had received Federal and non-Federal allotments that equaled their quotas on this basis.

¹⁰ Administrator Ickes estimated that the interval between an allotment and the first transfer of funds was at least sixty days, of which thirty were spent in drawing up the bond contract.

The extent to which Federal projects directly increased employment is indicated in Table 26. Ten times the number of men on non-Federal work were in Federal employment in December 1933. This is partly accounted for by the larger number of allotments to Federal agencies than to non-Federal applicants, both public and private. The level of employment in non-Federal work in 1934 and 1935 was, however, very much higher, owing in part to the introduction of railroad and relief highway loans.

Actual expenditures of allotments, presented in Table 27, also reveal considerable disparity between Federal and non-Federal activity. Federal expenditures of emergency funds totaled almost \$1,72,000,000 from July 1 to December 31, 1933, while all non-Federal expenditures amounted to only \$48,000,000. On June 30, 1934, at the end of the fiscal year, proportionate expenditures by the Federal agencies were slightly greater, and on April 30, 1935 greater still. Payments for wages and materials on the part of contractors preceded these disbursements, so that the lag in expenditures over the months concerned was not quite as severe as these figures would seem to indicate; nevertheless, the political subdivisions continued to show a decided delay in putting the funds to work. The Federal agencies that have expended their funds relatively rapidly are undoubtedly those which were best prepared to advance their programs, such as the Bureau of Public Roads. Moreover, none was hindered by legal or financial complications of the sort faced by localities; this is also true of the railroads.

Even after non-Federal applications were approved, marked delay was caused by the legal procedure requisite to issue securities in most states. This includes giving public notice of intention to act, the period required being in some instances as long as 90 days. If voting by the citizens is necessary before the securities can be issued, another

TABLE 26

MEN EMPLOYED ON CONSTRUCTION AND NON-CONSTRUCTION PROJECTS FINANCED BY PWA ALLOTMENTS, JULY 1933-MARCH 1935 1

| | JULY | AUGUST | 1 9 SEPTEMBER | 3 3 OCTOBER | NOVEMBER | DECEMBER | 1934. JANUARY | |
|----------------------------------|---------|--------------------------|------------------|----------------|-----------|---------------------|------------------|--------|
| CONSTRUCTION PROJECTS, total | - | | | | | 282,467 | • | PΙ |
| | 329 | 9,654 | 59,030 | 129,417 | 255,498 | | | F |
| Federal, total | 329 | 9,654 | 52,219 | 117,257 | 226,880 | ² 39,575 | 226,852 | |
| Public roads | | | 20,439 | 58,385 | 119,885 | 131,550 | 131,530 | Z |
| Other Federal | 329 | 9,654 | 31,780 | 58,872 | 106,995 | 108,025 | 95,322 | Z |
| Non-Federal, total | | | 1,168 | 3,602 | 15,929 | 21,995 | 22,546 | F |
| Railroads | | | | | | | 302 | ลื |
| Non-Federal housing | | | | | | 75 | 132 | () |
| Other non-Federal | | | 1,168 | 3,602 | 15,929 | 21,918 | | Ą |
| Work relief highways | | | 4,795 | 7,473 | 10,673 | 17,977 | 25,826 | \Box |
| Tennessee Valley Authority | | · | 848 | 1,085 | 2,016 | 2,922 | 3,736 | В |
| Emergency housing | | | • • • • • • • | | | | | Ĕ |
| NON-CONSTRUCTION PROJECTS, | | | | | | | | () |
| total | 317,506 | 309,704 | 246,461 | 299,119 | 1,809,791 | 3,194,112 | 4,239,824 | ≶ |
| Public Works Administration | 142 | 547 | 1,245 | 1,516 | 2,183 | 2,390 | 2,676 | Ö |
| National Recovery Administration | | | 2,248 | 2,084 | 2,000 | 2,160 | | ¥ |
| | 1,255 | 2,057 | | | • | | 2,309 | \Box |
| Civilian Conservation Corps | 316,109 | 307,100 | 242,968 | 294,861 | 344,273 | 321,701 | 331,433 | RKS |
| Civil Works Administration | | | | | 1,460,527 | 2,866,916 | 3,902,304 | 01 |
| All other | | | | 6 58 | 808 | 945 | . 1,102 | |
| GRAND TOTAL | 317,835 | 3 19 ,3 58 | 305,491 | 428,536 | 2,065,289 | 3,476,579 | 4,518,784 | |

Source: Division of Economics and Statistics, PWA

| CONSTRUCTION PROJECTS, total Federal, total Public roads Other Federal Non-Federal, total Railroads Non-Federal housing Other non-Federal Work relief highways Tennessee Valley Authority Emergency housing | FEBRUARY 285,431 218,878 122,340 96,538 31,706 13,537 98 18,071 29,966 4,881 | MARCH 297,040 227,102 119,590 107,512 42,538 22,303 215 20,020 20,656 6,744 | APRIL 340.993 254,126 137,410 116,716 64,737 34,141 503 30,093 13,527 8,603 | 1 9 3 4 MAY 437,791 320,822 175,030 145,792 93,050 48,983 796 43,271 14,750 9,169 | JUNE 558,297 407,429 247,390 160,039 121,151 60,755 1,024 59,372 21,127 8,570 | JULY 659,557 475,812 298,700 177,112 143,228 63,243 1,185 78,800 30,960 9.557 | AUGUST 639,074 440,590 267,700 172,890 158,032 63,049 1,339 93,644 29,564 10,888 | THE |
|---|--|---|---|--|---|---|--|-------------|
| NON-CONSTRUCTION PROJECTS, total Public Works Administration National Recovery Administration Civilian Conservation Corps Civil Works Administration All other GRAND TOTAL Monthly averages based on weekly repor- | 3,791,246 2,863 2,565 321,631 3,462,981 1,206 4,076,677 | 2,519,154 2,897 2,834 247,944 2,264,241 1,238 2,816,194 | 373,930 3,057 3,173 314,486 51,985 1,229 714,923 | 343,999 3,435 3,704 335,624 1,236 781,790 | 343,192 3,608 3,782 334,538 1,264 901,489 | 344,641 3,796 3,894 335,940 1,011 | 407,364 3,908 3,859 398,661 936 1,046,438 | PWA PROGRAM |

TABLE 26 (cont.) MEN EMPLOYED ON CONSTRUCTION AND NON-CONSTRUCTION PROJECTS FINANCED BY PWA ALLOTMENTS JULY 1933-MARCH 1935 1

| | | , | 555 | 333 | | | | |
|----------------------------------|-----------|---------|----------|----------|---------|----------|---------|---------------|
| | 1934 | | | | 1935 | | PI | |
| | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | JANUARY | FEBRUARY | MARCH | F- |
| CONSTRUCTION PROJECTS, total | 568,123 | 494,102 | 422,988 | 342,711 | 278,541 | 254,951 | 278,880 | ANN |
| Federal, total | 374,075 | 303,289 | 233,926 | 184,110 | 148,973 | 134,856 | 144,766 | F |
| Public roads | 218,127 | 154,149 | 99,394 | 66,582 | 43,940 | 27,543 | 33,097 | $\overline{}$ |
| Other Federal | 155,948 | 149,140 | 134,532 | 117,528 | 105,033 | 107,313 | 111,669 | Z |
| Non-Federal, total | 154,599 | 155,944 | 150,922 | 123,764 | 98,987 | 91,792 | 101,150 | Ç |
| Railroads | 52,023 | 44,077 | 33,493 | 28,472 | 20,085 | 20,164 | 16,625 | Н |
| Non-Federal housing | 1,755 | 2,106 | 2,553 | 2,277 | 1,961 | 2,130 | 2,390 | ب |
| Other non-Federal | 100,821 | 109,761 | 114,876 | 93,015 | 76,941 | 69,498 | 82,135 | 8 |
| Work relief highways | 27,577 | 22,545 | 23,375 | 21,866 | 17,866 | 15,524 | 19,411 | L |
| Tennessee Valley Authority | 11,872 | 12,215 | 12,721 | 12,800 | 12,399 | 12,572 | 13,394 | IC |
| Emergency housing | • • • • • | 109 | 44 | 171 | 316 | 207 | 159 | 2 |
| NON-CONSTRUCTION PROJECTS, | | | | | | | | ₹ |
| total | 372,877 | 406,370 | 402,839 | 384,463 | 407,403 | 395,428 | 370,310 | ORKS |
| Public Works Administration | 4,204 | 4,468 | 4,902 | 5,176 | 5,390 | 5,627 | 5,778 | \varkappa |
| National Recovery Administration | 3,752 | 3,787 | 3,877 | 3,994 | 4,099 | 4,304 | 4,986 | $\overline{}$ |
| Civilian Conservation Corps | 363,974 | 397,164 | 393,098 | 374,322 | 396,946 | 384,513 | 358,548 | S |
| Civil Works Administration | 3-3,374 | 337,204 | 393,090 | 3/4/3 | | 304,913 | 390,940 | |
| All other | 947 | 951 | 962 | 971 | 968 | 984 | 998 | |
| GRAND TOTAL | 941,000 | 900,472 | 825,827 | 727,174 | 685,944 | 650,379 | 649,190 | |
| | | | | | | | · · | |

¹ Monthly averages based on weekly reports.

TABLE 27

EXPENDITURE OF PWA FUNDS [ULY 1933-APRIL 1935 (in thousands)

| (1) | (2) | (3) | (4) | (5) | (6) |
|-----------------------------|-----------|-------------|-----------|----------|-------------|
| • • | | | TOTAL, | JULY 1, | |
| | | | FISCAL | 1934- | |
| | JULY-DEC | . JAN.–JUNF | | APRII. | JULY 1933- |
| PURPOSE | 1933 | 1934 | 1933-341 | 30, 1935 | APRIL 1935 |
| Tennessee Valley Authority | \$1,457 | \$9,580 | \$11,037 | \$28,420 | \$39,457 |
| Public highways | 119,077 | 148,805 | 267,882 | 280,393 | 548,275 |
| Boulder Canyon project | 7,538 | 11,907 | 19,445 | 20,444 | 39,889 |
| River and harbor work | 17,165 | 55,285 | 72,450 | 125,025 | 197,475 |
| Subsistence homesteads | | 2,330 | 2,330 | 3,267 | 5,597 |
| All other ² | 26,725 | 105,359 | 132,084 | 271,240 | 403,324 |
| Total direct expenditures | 171,962 | 333,266 | 505,228 | 728,789 | 1,234,017 |
| Loans to railroads | | 70,739 | 70,739 | 74,312 | 145,051 |
| Loans and grants to states, | | | | | |
| municipalities, etc. | 48,098 | 30,500 | 78,598 | 88,990 | 167,588 |
| Grand total | \$220,060 | \$434,505 | \$654,565 | | \$1,546,656 |

Source: Daily Statements of United States Treasury

month may pass. Finally the bids for the work must be advertised for a given period before they are accepted. In certain states, municipalities and other public bodies did not have legal powers that would permit them to receive loans from the PWA; in such cases the PWA encouraged the passage of special enabling legislation by the state legislatures that would make loans possible. Bond closings after the bond contracts had been executed were also a source of difficulty. For example, if bonds are dated January 1 and contracts are not closed until January 2, accrued interest must be paid for the extra day or the contract may be ruled invalid. The most favorable circumstances for bond closings are not easy to arrange when numerous closings are involved.

All this legal framework is the outcome of many years of

¹ Sum of Columns 2 and 3. ² CWA, CCC and Emergency Housing expenditures excluded.

experience in the necessity of checks to unlimited spending by local authorities, but it inevitably involves difficulties in the lending of funds by the Federal government. The PWA also encountered serious financial as well as legal difficulties in the way of lending public funds to local bodies. The financial situation of many local governments by 1933 was such that neither the PWA nor the taxpayers were willing to allow them to incur new debt. Mounting tax delinquencies, defaults and unbalanced budgets impeded a large-scale borrowing program (see Ch. VI-VIII and XI). Experience has shown that under present conditions, while non-Federal projects will in time provide considerable employment, they cannot in general under existing laws be forwarded promptly and speedily. The interpretation of 'reasonable security', which was a more liberal phrase than the term 'fully and adequately secured' in the Emergency Relief and Construction Act of 1932, was still held to mean that only legally-binding obligations could be contracted in accordance with the definition of such obligations in the various states. Test suits were sometimes necessary to determine the binding character of an obligation offered in exchange for a loan.11

An increase in tax delinquencies, if traceable to the depression and not to poor city management, was not considered a threat to reasonable security, nor were records of defaults if due to bank failures or other emergency causes. The Finance Division established a formula whereby loans having a 'better-than-even' chance of being repaid were deemed to be reasonably secured; if the chance seemed only 'even', the amount of employment and purchases of materials involved were considered a balancing factor in making a

¹¹ The possible effect on the bond market of the large volume of governmentheld municipal securities, which can be resold by the PWA, is discussed in Ch. X.

final decision on a loan. The fact that these individual decisions were necessary is one more indication that financial stringencies almost stifled the entire program.

Loans were refused if the applicant appeared unable to carry its existing and proposed indebtedness without serious burden on tax payers. The effect of this policy was that if any city was not already heavily loaded with debt, it was likely to become so, whereas if the city was already in a serious financial condition, no help could be offered by the PWA. The opinion was prevalent in certain influential quarters that the good to be done through non-Federal projects was therefore limited under the act, and the main effort to combat depression had to be made through Federal activities.

The question may be raised, however, whether these delays deserved the criticism to which they were subjected. The majority were unavoidable, in the sense that they grew out of the superimposition of a new method of finance and, to some degree, a new industry, on a rigid legal and financial framework developed through long years of lawmaking and institutional growth. As a means of relieving unemployment on a large scale, the public works program could not quickly succeed because the revision of the economic and financial pattern of the nation could not be carried sufficiently far. As a means of stimulating industry by purchases of materials and machinery it is impossible to judge, with the inadequate data available at present, what the effects have been. The rapidity with which such stimulation is produced, and its extent, depend in part on the size of stocks already on hand. while the degree of stimulation depends in turn on the price structure. Finally, so-called delays which arose from the attempt to introduce careful examination and avoid irregularities were part of a general effort to effect reform coincidentally with recovery, and could not be eliminated without sacrificing the former aim.

THE NATIONAL PLANNING BOARD

The Administration committed itself to the belief that the orderly planning and control of public works was essential to an efficient and socially desirable use of government money for this purpose. No statement was made in the act concerning the possible utilization of public works as a stabilizing factor, but the first stipulation in Title II required that a comprehensive program of public works be formulated, which presumably could be used in the future towards this end. The comprehensive program was put in the hands of the National Planning Board of the PWA. Its functions, as stated, were to engage in research concerning the potential development of public works in relation to social and economic needs and to draw up a comprehensive plan for regional areas in cooperation with national, state and local agencies. It was also expected that the National Planning Board would advise concerning projects submitted to the PWA in the light of their social and economic desirability in the national economy as a whole. It was, however, impossible for the National Planning Board to submit such a comprehensive plan or to judge projects in strict relation to it in time to produce a definite guide to the allocation of funds.

The financial requirements for a loan or grant also precluded allotments primarily on the basis of a national, coordinated plan of public works, since applications had to be rejected where there was no prospect that the local body would be able to sustain the repayments. The government was not prepared to turn over the money entirely in the form of grants, or to effect the expenditures entirely through Federal agencies, since the latter could not undertake to extend their activities into areas which they had hitherto not entered on any wide scale.

For these reasons, the burden of deciding on the future place of a given project in the comprehensive plan of public works fell partly on the PWA itself, while it was awarding the funds, and was worked out with the advice of the Planning Board rather than with reference to a plan already formulated. The extent to which 'social and economic desirability' was a factor in the award of funds is described earlier in this chapter.

Meanwhile, the Planning Board carried on the duties prescribed for it under Title II. Among its activities until June 1934, when it became the National Resources Board, were the following:

(1) Advice to the Administrator of Public Works, in the form of statements, tables and charts pertaining to possible criteria for geographic allocations of funds. The Board recommended an average of figures on population, unemployment, relief funds, and families receiving aid in each state as a test of the desirability of any given distribution of public works funds throughout the states. It was recognized that such an average would have two serious weaknesses, the first perhaps temporary: (a) adequate statistics were not available on any of the four elements making up the average except population; (b) distribution of funds by states ignores the fact that about 60 per cent of the cost of public works is probably for materials and transportation, and these materials must often be obtained at some distance from the location of the project. No close correlation between the allocation of funds in a certain region and the stimulation of the materials industry in the region could be hoped for. However, by making use of a Federal Employment Stabilization Board study on the distribution by states of the 'materials dollar' in 1929, the Planning Board was able to apply its recommended test to the actual allocation of funds as of October 17, 1933. In view of the

financial and legal requirements which necessarily influenced the actual allocations, the smallness of the excesses and deficits shown at this date for each state in relation to the recommended test is noteworthy. As the allocation of funds continued, the possibility of using the test appeared to diminish. In October over \$1,000,000,000 had been allotted to Federal agencies to be spent in the various states, and about \$250,000,000 to non-Federal agencies. The excesses of allotments for each state over the quota recommended by the Planning Board ranged from zero to only 3 per cent: the deficiencies from zero to 2 per cent. Two months later Federal allotments had reached \$1,357,000,000 and non-Federal \$605,000,000; twenty states which had deficiencies in October had had their allotments raised, three which showed an excess had had them lowered, but one still had a deficiency. while twenty-five formerly having an excess maintained that position.

The Board also collected materials pertaining to types of public project as allotments were made, in order to assist in maintaining an appropriate balance among different types of work in different areas.

- (2) Future planning among both Federal government agencies and cities, states and regions. The Planning Board secured \$250,ooo for the employment of consultants to state and regional planning boards if and when they were set up, provided certain conditions as to permanence, representation and genuine activity on the part of these boards were met. Preliminary reports, which may deal primarily with land use and transportation studies and a tentative ten-year program of public works, are required not later than six months after the consultant is appointed. By January 1, 1934 fifteen State Planning Boards had been established under this provision. A regional division was also made: twelve district chairmen were appointed to assist in the coordination of state planning units, official or voluntary, and to act as liaison officers between the states and the Planning Board. The individual regions were developed on the basis of common primary drainage, land use and transportation interests.
 - (3) Research on (a) the general field of national planning,

(b) a program for continuous public works planning. The three main aspects of the problem, physical, economic and administrative, are being investigated, first by analyzing the factual material already available, and second by developing from the present situation a program of national and coordinated planning.

The National Planning Board was converted by Executive Order on June 30, 1934 into the National Resources Board consisting of the following members: the Secretary of the Interior (chairman), of War, of Agriculture, of Commerce, and of Labor, the Federal Emergency Relief Administrator, and the three original members, Frederic A. Delano, Wesley C. Mitchell and Charles E. Merriam. It was charged by the President to draw up a plan for the use of the country's land and water resources.¹²

¹² Its report, National Planning and Public Works in Relation to Natural Resources and including Land Use and Water Resources with Findings and Recommendations, was presented to President Roosevelt on November 28, 1934.