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UNITED STATES DEPARTMENT OF AGRICULTURE

DEPARTMENT BULLETIN No. 1279

Washington, D. C.

March 14, 1925

RURAL HIGHWAY MILEAGE, INCOME, AND EXPENDITURES 1921 AND 1922

U. S. DEPT. OF AGRICULTURE
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By

ANDREW P. ANDERSON, Highway Engineer
Bureau of Public Roads

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By ANDREW P. ANDERSON, *Highway Engineer, Bureau of Public Roads*

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GENERAL SUMMARY

The rural public roads of the 48 States, that is, the public roads located outside the limits of incorporated villages, towns, and cities, had on January 1, 1922, a total length of 2,941,294 miles and involved a total disbursement of \$1,036,587,772 during the year 1921. Of our total road mileage 387,760 miles had been improved with some form of surfacing, such as sand-clay, gravel, macadam, or pavement when the year 1922 began.

As totals, these figures are impressive. Our total road mileage is sufficient to encircle the earth at the equator nearly 118 times, while our surfaced mileage is sufficient to gridiron the United States with 75 east and west routes extending from ocean to ocean and an equal number extending north and south from the Canadian border and the Great Lakes to Mexico and the Gulf. These totals help us to

visualize the vastness of our present highway activities and to realize more fully the ever increasing demands that modern traffic is making on our highways.

But while the above totals speak of great accomplishments they also speak with equal force of the vastness of the work still to be done, of the urgent need for still greater efforts which much be made before our highways shall be fully adequate to meet even the present traffic requirements. They voice a call for more funds and for better direction and control in their expenditure, for more definite planning for the future as well as for the present, and for the more general employment of our ablest talent for terms of office which shall be conditioned only on integrity and ability.

Furthermore, while our rural roads amount to the tremendous total of 2,941,294 miles this is only an average of ninety-nine one-hundredths of a mile of road for each square mile of land area, less than 1 mile of road for each 640 acres of land. If our 387,760 miles of surfaced roads were equally distributed over the 48 States they would only amount to thirteen one-hundredths of a mile for each square mile of land area, or but slightly more than 1 mile of surfaced road for every 8 square miles of land area. And while our total rural road expenditures in 1921 amounted to \$1,036,587,772, this is an average of but \$348.57 per square mile of land area, \$352.43 per mile of road and \$9.85 per capita of our 1920 population.

In 1904, the year for which the first rural road survey was made by the Bureau of Public Roads, the motor car had not been seriously thought of as introducing a road problem. Now, only 19 years later, we have about 15,000,000 motor cars and trucks on our roads, although more than 2,000,000 miles, or over two-thirds of the total mileage of our rural roads, is little or no better than it was 20 years ago. These facts tell us most emphatically that the job of building the nation's highways has been but little more than begun. How soon and how well the work will be completed depends entirely on how intelligently and resolutely we dedicate ourselves to the task.

While we still have much to accomplish, the rate of progress during recent years has been gratifying. In 1904 the total income for all rural-road purposes amounted to only \$79,623,617. This included the estimated value of all statute labor or taxes paid in labor, which at that time amounted to slightly more than \$20,000,000 leaving only \$59,527,170 as the actual cash income for rural roads during 1904. By 1914 statute labor, always inefficient and unsatisfactory, had become an almost negligible part of the total highway income which in that year amounted to \$240,263,784. This was an increase of 202 per cent over the total income of 1904, or an increase in the actual cash highway income during the 10-year period of 304 per cent. The increase during the following seven years from 1914 to 1921 has been even greater. The grand total of income for all public road purposes in 1921 amounted to \$1,149,437,896, an increase of 378 per cent in seven years.

In 1904 the Bureau of Public Roads adopted the policy of conducting at intervals an investigation to determine the mileage of improved and unimproved roads, the revenues for road purposes, and other related data. In accordance with this policy investigations were made in the years 1904, 1909, 1914, and 1921. Partial data, secured for 1922, are published as a part of this bulletin. The

results of the 1904 investigation were published in Office of Public Roads Bulletin No. 32, those of 1909 in Office of Public Roads Bulletin No. 41, and those of 1914 in United States Department of Agriculture Bulletins Nos. 386 to 390, inclusive. The present bulletin contains a general summary of the results of the investigations for 1921 and such data as were secured for 1922.

Construction and maintenance of our rural public roads are carried on under all units of government—States, counties, towns, townships, and districts—most of which report to no central authority and have neither maps nor other definite, complete records of the roads over which they exercise control. The fiscal records of many of the lesser units are often of the most primitive character. To secure entirely accurate and fully comparable data is therefore as yet impossible. In general, however, the recent survey revealed a decided improvement in both accounting methods and records of work accomplished. This improvement was especially striking in those States which give the State highway department sufficient authority to coordinate all the highway activities of the State. So great is the value of definite knowledge as to the extent and progress of all highway activities that it is to be hoped that all States will soon adopt such measures as will place in the hands of the respective State highway departments accurate and uniform data covering the entire field of highway activities. Such data are prerequisite to the real solution of many of our highway and transportation problems.

AMOUNT AND SOURCE OF HIGHWAY FUNDS

The present survey is the first attempt to gather definite information both as to the sources from which highway funds are secured and the purposes for which they are paid out. The investigation shows that the gross total of funds actually made available for all rural highway purposes during the year 1921 amounted to \$1,149,-437,896. Of this total \$438,109,273, or 38.1 per cent, was secured from bonds; \$415,680,010, or 36.2 per cent, from general taxes; \$122,626,166, or 10.6 per cent, from motor-vehicle fees and gasoline taxes; \$79,333,226, or 6.9 per cent, from Federal-aid payments received by the various States; and \$93,689,221, or 8.2 per cent, from various other sources, the chief of which were appropriations or allotments from general funds originating from two or more sources. It is estimated that approximately half of this unclassified income originated in general property taxes.

The sums here reported as income for rural road purposes include all moneys received into the various road and bridge funds during 1921 or definitely set aside from 1921 receipts for highway purposes. All balances on hand at the beginning of the year, except those arising from the sale of bonds, as well as all transfers from one highway fund to another and those parts of all strictly revolving fund accounts which did not add to the actual sums available during the year, have been carefully excluded in order that the data may represent as closely as possible the actual income during the year 1921. In practically all cases the fiscal year corresponding most closely to the calendar year 1921 has been used for all fiscal data. Statements of mileage constructed and maintained and other statements of work accomplished refer almost without exception to the calendar year.

In any attempt to ascertain the total annual highway income the principal difficulties are those which attend the decision as to what part of the funds derived from the sale of bonds should be considered as the income of each year. The general practice of the States and other units is to authorize at one time sufficient bonds to pay for highway improvements which may require from two to five years for their completion. The bonds may then be issued and sold as the funds are actually needed or as the market conditions dictate. Sometimes the contractor agrees to accept the bonds at a stipulated price, usually at par, as progress payment on the work. For the purpose of the present investigation the term "income from bonds or from the sale of securities" includes not only the actual receipts from the sale of such bonds during the year 1921, but also all cash balances from previous bond sales on hand at the beginning of 1921, since approximately the same conditions would obtain, so far as funds are concerned, if these bonds had been held until after the beginning of 1921 and then sold.

In every State except North Dakota some of the road moneys were secured from the sale of bonds. Arkansas, West Virginia, and Louisiana secured, respectively, 70.2, 69.1, and 68.1 per cent of their total road income from bonds, while, on the other hand, New Hampshire and Connecticut secured only 2.8 and 3 per cent of their respective total highway revenues from bonds. Certain groups of States also relied largely on bonds for their road moneys. Thus the four States of Arkansas, Louisiana, Oklahoma, and Texas, comprising the west-south-central group, secured 59.3 per cent of their total highway funds from this source. On the other hand, the six States forming the New England group secured only 12.7 per cent of their total road funds from the sale of bonds.

Practically all of the registration and license fees paid during 1921 by the owners or users of motor vehicles found their way into the various road funds. The gross motor vehicles fees, licenses, etc., collected during the registration year 1921 amounted to \$122,478,654 while \$118,942,706 was reported as received from this source by the various road funds. The remainder was, no doubt, largely or entirely devoted to the purchase of tags and administration of the provisions of the law. The taxes on gasoline also yielded to the road funds a total of \$3,683,460 during the year 1921. The owners or users of the motor vehicles, therefore, paid a total of \$122,626,166 directly to the road funds, or 10.6 per cent of the total highway income, including bonds.

If bonds are excluded, the portion of the road revenues secured directly from the motor vehicle registration fees, licenses, and gasoline taxes amounted during 1921 to 17.2 per cent of the total. Revenues secured from these sources are increasing very rapidly. During the fiscal year 1921 only eight States reported receipts to their highway funds secured from taxes on gasoline. By October, 1923, 36 States had written gasoline taxes into their statutes, although in one State, Massachusetts, the law was inoperative until after the next general election. In all these States, with the single exception of North Dakota, at least a portion of this revenue is devoted directly to the highways, and in 27 States all the net yield of the gasoline tax is directly applicable to road work or the funding of highway bond issues.

But not all the revenue paid by or on account of the motor vehicle reaches our road funds; on the contrary, the major portion is diverted to other funds or for other purposes. A very substantial contribution is made to the Federal Government in the form of excise taxes on cars, trucks, tires, parts, etc. This tax is paid into the Federal Treasury and is used for the general support of the Government. In theory, perhaps, a portion of this money may be said to be paid back to the States in Federal aid for roads. The amount thus paid back in the fiscal year 1921 amounted to \$55,974,305, which was less than half of the tax paid. The taxes paid by the motor vehicle as personal property taxes and wheel taxes do not reach, in general, the road funds at all. For 1921 the gross income from motor vehicle registration fees and licenses, gasoline taxes, Federal excise taxes, and personal property and wheel taxes on motor vehicles, was as follows:

State registration fees and licenses.....	\$122, 478, 654
Gasoline taxes.....	5, 302, 260
Federal excise taxes on cars, trucks, tires, parts, etc..	115, 546, 249
Personal property and wheel taxes (approximate)--	56, 100, 000
Total (approximate).....	299, 427, 163

For 1922 the gross receipts from these sources were as follows:

State registration fees and licenses.....	\$152, 047, 823
Gasoline taxes.....	11, 923, 443
Federal excise taxes on cars, trucks, tires, parts, etc..	104, 433, 763
Personal property and wheel taxes (approximate)--	60, 000, 000
Total (approximate).....	328, 405, 029

In all but 16 States motor vehicles are taxed as personal property while many cities and other municipalities levy wheel taxes or special license fees.

HIGHWAY EXPENDITURES

The total disbursements during 1921 by all States, counties, townships, and districts for all highway purposes including interest and payments on highway bonds, amounted to \$1,036,587,772. Of this total \$626,965,373, or 60.5 per cent, was expended for work classed as construction; \$248,593,169, or 24 per cent, for work classed as maintenance; \$36,031,353, or 3.5 per cent, for administration and engineering; \$89,280,946, or 8.6 per cent, for the payment of principal and interest on highway bonds, and \$35,716,931, or 3.4 per cent, for the purchase and repair of machinery and equipment, the purchase of quarries, gravel pits, and all other items or parts of items not properly chargeable to construction, maintenance, or administration for the year 1921.

It seems to be a quite general practice, especially of the counties and towns, to class as construction a large amount of work on earth roads and sometimes on sand-clay and gravel roads which is evidently of such temporary character that it should rightly be classed as maintenance. This accounts at least in part for the large amount of earth road construction reported by a few States. A large portion of this work consists simply of light grading with a road machine.

Expenditures for engineering constitute another item for which fully segregated data could not be secured. In some localities these expenditures were almost invariably included as a part of the expenditures for construction or maintenance.

Complete data as to the payment of principal and interest on highway bonds could not be secured for all the States. In a few States the custom of charging all bond interest to the cost of construction for the period from the time bonds are sold until the construction work on the road is completed, seems to be quite general. In a few other cases the interest payments on highway bonds could not be segregated for other bond and interest payments, due to the fact that these bonds were not designated as highway bonds but simply as general bonds against the municipality in question. It is estimated, however, that these payments which could not be segregated amount to approximately \$5,750,000, so that the grand total of all payments for principal and interest on highway bonds actually reached the approximate total of \$95,000,000, of which approximately \$60,000,000 was for interest and \$35,000,000 for principal payments.

Of the grand total disbursements of \$1,036,587,772, the sum of \$413,241,662 was expended by or under the supervision of the respective State highway departments and \$623,346,110 by the various counties, towns, townships, and districts without any supervision by the State highway departments.

The following statement shows in more detail the expenditures for each of the various purposes, first by the local communities without the supervision or control of the respective State highway departments, and, second, the expenditures by or under the direct supervision of the State highway departments during the year 1921.

HIGHWAY EXPENDITURES, 1921

Without State supervision

Construction, roads and bridges.....	\$316, 225, 470
Unclassified construction (probably largely maintenance).....	18, 766, 090
	<hr/>
	334, 991, 560
Maintenance, roads and bridges.....	174, 066, 423
Engineering and administration.....	17, 149, 498
All other items.....	97, 138, 629
	<hr/>
Total by local communities.....	623, 346, 110

By or under supervision of State highway departments

Construction, roads and bridges.....	291, 973, 813
Maintenance, roads and bridges.....	74, 526, 746
Engineering and administration.....	18, 881, 855
All other items.....	27, 859, 248
	<hr/>
Total by States.....	413, 241, 662

Grand total by States and local communities.....	1, 036, 587, 772
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In 1922 the total expenditures by the States, counties, towns, and districts for the items of construction, maintenance, engineering, and administration amounted to \$898,352,307, of which \$429,896,572 was expended by or under the supervision of the respective State highway departments and \$468,455,735 by the local communities without State supervision. No data were secured for 1922 as to the payments for principal and interest of highway bonds nor as to the various miscellaneous items not chargeable directly to construction

and maintenance, engineering, or administration during the year. In order to make the 1921 disbursements comparable with the data secured for 1922 it is only necessary to deduct the amounts given in the above statement under the heading "All other items." After making these allowances we find that the comparable total for 1921 is \$911,589,895, of which \$385,382,414 was expended by or under the supervision of the respective State highway departments and \$526,207,481 by the local communities without any direct State control or supervision.

HIGHWAY MILEAGE

On January 1, 1922, the total mileage of rural public roads amounted to 2,941,294 miles, of which 387,760 miles, or 13.2 per cent, were improved with some form of surfacing. Of the surfaced mileage 63,339 miles were improved with sand-clay; 199,899 miles with gravel; 58,036 miles with waterbound macadam; 19,309 miles with surface-treated macadam; 10,264 miles with bituminous macadam; 1,601 miles with sheet asphalt; 4,978 miles with bituminous concrete; 15,611 miles with Portland cement concrete; 3,333 miles with brick and 11,390 miles with miscellaneous types of surface. More than half of our surfaced mileage, 51.6 per cent, was therefore of gravel, while the two types of sand-clay and gravel formed 67.9 per cent, and, if we include with the gravel and sand-clay the miscellaneous types, we find that these three types formed 70.8 per cent of our total surfaced road mileage. The macadam formed 22.6 per cent and the pavements only 6.6 per cent of the total surfaced mileage. Of the 25,610 miles of pavements existing at the beginning of 1922, 15,611 miles, or 61 per cent, were of Portland cement concrete. Furthermore, of the 6,228 miles of pavements built during the year 1922, Portland cement concrete formed 4,959 miles, or 79.6 per cent of the total.

Of the individual States, Indiana at the beginning of 1922 had the largest mileage of surfaced roads, a total of 39,857 miles of which, however, 30,801 miles were gravel. Nevada on the other hand had only 168 miles of surfaced roads, but of these 28 miles were paved. California led the States in the mileage of concrete roads with 2,613 miles, followed by Illinois with 1,534 miles of this type. Ohio was easily first in the mileage of brick roads with 1,316 miles followed by Florida with 539 miles. In the mileage of bituminous concrete Oregon was first with 746 miles, closely followed by New Jersey with 715 miles. Of sheet asphalt, California had 585 miles while Florida had 474 miles. Of bituminous macadam New York had 3,740 miles, while Ohio had 1,318 and Massachusetts 1,269 miles of this type. Of waterbound macadam roads Ohio had 14,380 miles and Kentucky 10,624 miles. Of gravel roads Indiana had 30,801 miles and Ohio 14,931 miles. In mileage of sand-clay roads Georgia was first with 14,128 miles and North Carolina second with 12,198.

RESULTS ACCOMPLISHED TO THE CLOSE OF 1922

In 1904 the total mileage of rural roads amounted to 2,151,379 miles, of which 153,530 miles, or 7.14 per cent, were improved with some form of surfacing. By the close of 1921 our rural roads had increased to 2,941,294 miles, of which 387,760 miles, or 13.17 per

cent, were surfaced. Thus, while 789,915 miles had been added to our total highway mileage during the 17 years from 1904 to 1922, only 234,230 miles had been added to our surfaced mileage during the same period. In other words the mileage added to our highways was three and one-third times as great as the mileage added to our surfaced roads. The actual amount of highway improvement which was accomplished during these years, however, is much greater than the above figures would seem to indicate. A large mileage of low-type roads built during the period has been replaced with types more suitable to the present traffic requirements. Light and narrow bridges have been replaced with wider and more substantial structures. Old, narrow roads have been widened and straightened. In 1904 the highest type of surfacing found on our rural roads was water-bound macadam. At the beginning of 1922 a total of 25,610 miles of our rural roads were improved with high-type pavements.

But even when full account is taken of all these improvements and betterments it is still clearly evident that our highway improvements have not kept pace with the increase in the traffic on our highways. In 1904 our highway traffic was almost entirely horse drawn. Prior to 1904 not more than 40,000 motor cars had been manufactured in the United States. A single factory now produces more cars in a single week. The wholesale value of all motor cars manufactured in 1904 was only \$30,864,616, while in 1922 the wholesale value of the motor cars and trucks, as given by the National Automobile Chamber of Commerce, amounted to \$1,789,638,365, or nearly double our total expenditure of \$898,352,307 during the same year for construction, maintenance, engineering, and administration of our rural roads.

During the registration year 1922 there were registered 12,238,375 passenger cars and trucks. From such data as are available in regard to gasoline consumption it may be estimated that the average distance travelled by the typical motor vehicle is about 4,000 miles annually, making a total annual traffic of some 48,000,000,000 vehicle-miles on our public roads and streets. Our total highway expenditures during 1922 were therefore at the rate of approximately 1.9 cents per motor vehicle-mile or slightly more than an average of \$73 per motor car.

During the year 1921 a total of 41,171.7 miles were improved with some form of surfacing, while 34,456.3 miles were thus improved during 1922. While a smaller mileage was improved in 1922 than in the year 1921 the decrease was confined almost entirely to the sand-clay and gravel types which formed 70 per cent of the total mileage built in 1921, but only 64 per cent of the mileage built in 1922.

In 1921 the mileage of surfaced roads built included 7,010.2 miles of sand-clay, 22,008.6 miles of gravel, 3,070.1 miles of waterbound macadam, 993.8 miles of surface-treated macadam, 1,349.2 miles of bituminous macadam, 208.5 miles of sheet asphalt, 1,022.6 miles of bituminous concrete, 4,805.4 miles of Portland cement concrete, 335.8 miles of brick, and 367.5 miles of miscellaneous types, such as shell, cinder, etc. In addition to this surfacing 7,918.7 miles of earth roads were built to a definite grade and provided with permanent drainage structures, while a certain amount of grading and drainage work other than ordinary maintenance was done on an additional 61,885.7 miles of earth roads. Construction work of some kind was therefore done on 110,976.1 miles of rural roads during the year 1921.

Of the individual States, Wisconsin led in 1921 in the construction of sand-clay and gravel roads with 2,859.8 miles, followed by Texas with 2,817.8 miles of these types. Of the macadam types, New York built 1,240 miles and Ohio built 687.2 miles. Of the pavements, Pennsylvania built 745.9 miles and California 609.4 miles. Minnesota built 1,299.9 miles of earth roads to a definite grade and provided with permanent drainage structures, while Iowa built 1,069.5 miles of this type.

The 34,456.3 miles of rural roads surfaced during the year 1922 were divided as follows: Sand-clay, 4,477.5; gravel, 17,479.9; water-bound macadam, 3,358.7; surface-treated macadam, 613.5; bituminous macadam, 1,811.1; bituminous concrete, 1,020.4; Portland cement concrete, 4,958.7; brick, 249.3; and miscellaneous types, 487.2 miles. A total of 8,883.4 miles of earth roads were built to a definite grade and provided with permanent drainage structures.

Of the individual States, during 1922 Michigan constructed the largest mileage of sand-clay and gravel roads, building a total of 2,102.4 miles, while Minnesota was second with 1,910.1 miles of these types. Of the macadam types New York led with 1,061.2 miles, followed by Oregon with 847.5 miles of these types. Of the pavements, Illinois built 786.6 miles, while Pennsylvania built 725 miles of these types during 1922. Iowa built 1,069.7 miles of earth roads to a definite grade and provided them with permanent drainage structures, while Minnesota built 423.7 miles of this type located on the State trunk lines and an additional 1,197.5 miles of somewhat lower standard located on the State-aid or county roads.

HIGHWAY BONDS

During 1921 new highway bond issues were authorized to the extent of \$187,260,200 while the sales of bonds, including those previously authorized, amounted to \$303,572,800. At the close of the year 1921 the grand total of all outstanding highway bonds, so far as could be determined, amounted to \$1,222,312,300, of which \$345,574,100 were State bonds and \$876,738,200 were bonds issued by counties, townships, or districts. Our total outstanding highway indebtedness was, therefore, only about 18 per cent in excess of our highway expenditures for that year. Furthermore, our highway indebtedness has not been increasing as rapidly as have our road expenditures. No definite data are available as to the amount of our highway indebtedness in 1904. At the close of 1914, however, the total outstanding highway bonds amounted to \$344,763,082, while the total highway expenditures for that year were \$240,263,784. Thus, while our highway indebtedness at the close of 1914 exceeded the expenditures by 43 per cent, at the close of 1921 it exceeded the total expenditures by only 18 per cent.

The accompanying tables contain a more detailed summary of the data secured for each of the several States, together with such comparative data as are available from the earlier surveys or other sources. These tables have been made as nearly self-explanatory as possible. The table of contents on the first page of this bulletin outlines briefly the general character of the data contained in each table.

TABLE 1.—*Road mileage, road income, and other related data for the United States in 1921, 1914, 1909, and 1904*

	1921	1914	1909	1904
Total road mileage.....	2,941,294	2,445,761	2,199,645	2,151,379
Surfaced mileage.....	387,760	257,291	190,476	153,530
Percentage surfaced.....	13.2	0.5	8.7	7.1
Total income for all rural road purposes.....	\$1,149,437,896	¹ \$240,263,784	(²)	\$79,623,617
State and local road and bridge bonds outstanding at end of year.....	\$1,222,312,300	\$344,763,082	(²)	(²)
Land area (square miles).....	2,973,714	2,973,830	2,973,830	2,974,099
Population, total for United States.....	³ 105,273,049	⁴ 91,641,197	⁴ 91,641,197	⁵ 75,715,857
Rural population.....	³ 51,406,017	⁴ 49,348,883	⁴ 49,348,883	⁵ 45,197,390
Miles of road per square mile of area.....	0.99	0.82	0.74	0.72
Miles of road per 1,000 of rural population.....	57.2	49.5	44.6	47.6
Surfaced mileage per square mile of area.....	0.130	0.086	0.064	0.052
Surfaced mileage per 1,000 of rural population..	7.54	5.21	3.86	3.39
Road and bridge income per mile of road.....	\$390.79	\$98.22	(²)	\$37.01
Road and bridge income per square mile of area..	\$386.52	\$80.79	(²)	\$26.77
Road and bridge income per capita.....	\$10.92	\$2.62	(²)	\$1.05

¹Income considered as equal to expenditure.²No data available.³1920 census.⁴1910 census.⁵1900 census.

TABLE 2.—Total income for all rural road purposes in 1921. Consolidated data for all States, counties, townships, and districts

Geographic divisions and States	Total	Bonds ¹	Per cent of total	Federal and forest road aid ²	Per cent of total	Motor-vehicle fees ³	Gasoline taxes	Per cent of total	General property taxes	Per cent of total	All other sources	Per cent of total
Totals all States	\$1,149,437,896	\$438,109,273	38.1	\$79,333,226	6.9	\$118,942,706	\$2,683,460	10.6	\$415,081,010	36.2	\$93,681,221	8.2
New England	46,455,284	5,889,745	12.7	2,904,686	6.2	11,629,091	---	25.1	17,428,085	37.5	8,603,677	18.5
Maine	7,890,840	1,766,960	22.4	852,102	10.8	1,004,750	---	12.7	2,279,722	28.9	1,987,216	25.2
New Hampshire	3,882,388	107,316	2.8	240,782	6.2	790,118	---	20.4	1,231,877	31.7	1,512,265	38.9
Vermont	2,143,353	104,472	4.7	135,289	6.3	627,588	---	29.3	1,055,941	49.3	224,083	10.4
Massachusetts	19,293,069	3,335,013	17.3	601,594	3.4	5,023,963	---	26.1	9,139,616	47.5	1,108,833	5.7
Rhode Island	8,324,007	286,106	3.6	338,374	10.7	777,587	---	23.4	866,867	26.1	1,035,019	31.2
Connecticut	9,945,627	293,824	3.0	656,455	6.6	3,405,085	---	34.2	2,854,062	28.7	2,736,201	27.5
Middle Atlantic	168,305,433	59,543,258	35.4	7,441,515	4.4	22,340,418	---	13.3	59,773,811	35.5	19,206,431	11.4
New York	67,359,330	18,355,231	27.2	2,398,461	3.6	9,000,000	---	13.4	436,300,000	53.9	1,305,638	1.9
New Jersey	21,657,834	7,183,444	33.2	509,372	2.4	4,029,971	---	18.6	8,742,024	40.2	1,192,423	5.6
Pennsylvania	79,288,269	34,001,583	42.9	4,533,682	5.7	9,310,447	(*)	11.7	14,731,187	18.6	6,708,370	21.1
East North Central	281,139,024	101,550,318	35.9	11,887,887	4.2	27,432,261	---	9.8	116,541,291	41.7	23,727,267	8.4
Ohio	82,275,668	32,869,752	39.9	3,595,383	4.4	7,044,751	---	8.6	32,268,341	39.2	6,497,441	7.9
Indiana	57,807,614	28,709,037	49.7	1,446,623	2.5	2,305,312	---	4.0	23,455,017	40.6	1,891,625	3.2
Illinois	43,664,784	11,297,671	25.9	3,802,430	8.7	6,862,126	---	15.7	18,350,630	42.0	3,331,918	7.7
Michigan	55,662,357	20,660,357	37.1	599,854	1.1	7,795,926	---	14.0	20,228,619	36.4	6,308,332	11.4
Wisconsin	41,728,601	8,004,232	19.2	2,443,597	5.8	3,424,146	---	8.2	22,238,675	53.3	5,617,951	13.5
West North Central	153,642,716	34,291,178	22.3	14,636,169	9.5	20,574,538	---	13.4	74,403,000	48.5	9,737,231	6.3
Minnesota	40,357,925	8,731,150	21.6	2,986,920	7.4	5,616,114	---	13.9	20,892,168	51.8	2,131,573	5.3
Iowa	37,991,782	9,408,869	24.8	4,308,079	11.3	7,211,922	---	19.0	14,878,638	39.2	2,186,274	5.7
Missouri	16,491,975	3,426,420	20.8	2,304,790	14.0	2,505,354	---	15.2	5,140,186	31.1	3,118,225	18.9
North Dakota	6,715,400	---	---	584,685	8.7	418,525	---	6.2	6,449,252	79.7	362,938	5.4
South Dakota	15,248,292	3,007,644	19.7	1,660,130	10.8	648,528	---	4.3	9,379,484	61.5	562,446	3.7
Nebraska	13,446,782	2,212,434	16.6	1,200,000	9.0	2,820,000	---	21.0	6,448,008	47.9	736,290	5.5
Kansas	23,387,620	7,476,611	32.0	1,601,565	6.8	1,354,095	---	5.8	12,315,864	52.7	639,485	2.7

¹ Includes all receipts from sale of highway bonds during 1921 and all cash from previous bond sales on hand at beginning of the year.² Includes only Federal aid and national forest payments received by the States and credited by them to their respective highway funds during the fiscal year.³ Does not correspond with receipts from motor vehicles during registration year, as shown on Table 17, because of differences in fiscal years and time of transfer to road funds.⁴ Approximate.⁵ Gasoline tax effective Sept. 1, 1921.⁶ Appropriations, \$12,120,000.

TABLE 2.—Total income for all rural road purposes in 1921. Consolidated data for all States, counties, townships, and districts—Continued

Geographic divisions and States	Total	Bonds	Per cent of total	Federal and forest road aid	Per cent of total	Motor-vehicle fees	Gasoline taxes	Per cent of total	General property taxes	Per cent of total	All other sources	Per cent of total
South Atlantic	\$137,657,698	\$67,406,730	49.0	\$11,267,126	8.2	\$11,126,923	\$734,075	8.6	\$39,213,444	28.4	\$7,909,400	5.8
Delaware	5,487,318	3,157,776	57.6	244,313	4.4	175,471	---	6.8	179,729	3.3	1,530,029	27.9
Maryland	10,725,960	3,524,299	32.9	850,000	7.9	1,600,000	---	14.9	4,498,312	42.0	253,349	2.3
Virginia	17,832,143	5,519,711	30.9	980,806	5.5	1,926,624	---	10.7	5,087,720	32.0	73,717,252	20.9
West Virginia	27,237,475	18,775,066	69.1	1,057,652	3.8	1,938,000	---	7.1	5,418,257	19.8	48,500	0.2
North Carolina	32,841,625	17,640,534	53.6	2,674,070	8.1	2,322,630	506,019	8.6	3,357,346	25.6	1,341,026	4.1
South Carolina	14,261,209	8,146,630	57.2	1,359,453	9.5	692,663	---	4.8	3,749,525	26.3	312,938	2.2
Georgia	17,332,046	4,500,281	26.1	3,610,524	20.4	1,600,000	---	9.3	7,358,512	42.7	202,729	1.5
Florida	11,939,922	6,142,433	51.5	490,308	4.1	671,535	228,056	7.5	3,964,043	33.2	443,547	3.7
East South Central	60,280,684	25,551,347	42.5	5,281,475	8.7	4,670,271	438,116	8.5	20,155,466	33.3	4,184,009	7.0
Kentucky	11,528,264	485,000	4.2	1,482,066	12.9	1,685,769	438,116	18.4	5,380,814	46.7	2,056,499	17.8
Tennessee	16,443,936	8,446,353	51.4	1,685,453	10.3	1,386,378	---	8.4	4,276,784	26.0	648,968	3.9
Alabama	6,593,967	1,878,316	28.3	477,590	7.3	893,136	---	13.6	2,419,786	37.0	900,739	13.8
Mississippi	25,738,917	14,741,678	57.3	1,635,366	6.3	704,988	---	2.7	8,078,082	31.4	577,803	2.3
West South Central	138,504,160	82,127,751	59.3	10,920,721	7.9	7,326,965	170,000	5.4	31,461,989	22.8	6,487,734	4.6
Arkansas	22,886,970	10,060,289	70.2	1,372,205	6.0	856,544	170,000	4.5	4,296,391	18.6	161,541	0.7
Louisiana	23,230,916	15,831,986	68.1	1,424,114	6.1	453,276	---	2.0	4,237,064	18.3	1,284,456	5.5
Oklahoma	19,516,915	5,273,327	27.0	2,345,354	12.0	2,253,000	---	11.6	9,348,121	47.9	287,107	1.5
Texas	72,869,359	44,962,149	61.7	5,788,048	8.0	3,754,139	---	5.1	13,610,393	18.7	4,754,630	6.5
Mountain	61,367,959	19,908,036	32.4	9,731,542	15.8	3,412,764	892,760	7.0	22,292,642	36.5	5,130,215	8.3
Montana	10,181,901	3,330,829	33.2	2,041,172	20.4	546,150	---	5.4	2,392,404	33.8	1,721,346	17.2
Idaho	13,113,443	6,221,802	47.4	1,539,045	11.8	811,398	---	6.2	4,433,160	34.0	78,038	0.6
Wyoming	5,408,879	2,500,000	46.2	1,318,764	24.4	290,000	---	5.4	1,959,663	36.2	1,140,432	21.1
Colorado	8,765,443	700,000	7.9	1,493,369	17.0	820,316	559,472	15.7	5,545,743	63.3	96,543	1.1
New Mexico	4,896,667	830,000	17.0	1,093,208	22.3	188,593	333,288	10.6	2,427,200	49.6	24,369	0.5
Arizona	10,209,916	5,504,825	53.4	816,681	7.9	180,633	(b)	1.8	2,434,201	23.6	1,363,576	13.3
Utah	6,560,366	2,495,580	38.1	862,712	13.2	478,474	---	7.3	2,421,823	36.8	301,777	4.6
Nevada	2,291,344	575,000	25.0	506,591	21.8	97,200	---	4.2	648,439	28.4	404,111	17.6
Pacific	102,084,938	41,840,910	41.0	5,253,105	5.1	10,429,245	1,448,509	11.6	34,410,682	33.7	8,702,257	8.6
Washington	23,800,210	4,914,339	20.6	537,794	2.3	3,375,690	500,000	16.2	12,718,071	53.3	1,814,415	7.6
Oregon	28,532,821	13,908,632	48.8	2,181,957	7.6	2,181,957	948,569	11.0	6,260,046	21.9	3,000,005	10.7
California	49,691,895	23,018,359	46.3	2,533,354	5.1	4,869,660	---	9.8	15,432,565	31.1	3,837,837	7.7

* Approximate.

† Includes \$1,846,310 State appropriations.

‡ Gasoline tax approved Mar. 17, 1921, but no funds credited to State highway fund prior to end of fiscal year, June 30, 1921.

TABLE 3.—Total expenditures for all rural highway purposes in 1921. Consolidated data for all States, counties, townships, and districts

Geographic divisions and States	Total	Construction, roads and bridges	Per cent of total	Maintenance, roads and bridges	Per cent of total	Administra- tion and engineering	Per cent of total	Principal and interest payments, highway bonds	Per cent of total	Purchase and repair of ma- chinery and equipment and general miscellaneous	Per cent of total
Totals all States.....	\$1,036,587,772	\$626,965,373	60.5	\$248,593,169	24.0	\$36,031,353	3.5	\$89,280,946	8.6	\$35,716,931	3.4
New England.....	45,361,397	24,160,353	53.1	17,424,748	38.5	1,279,685	2.8	1,563,680	3.5	932,931	2.1
Maine.....	8,701,911	6,582,554	75.6	1,308,342	15.1	173,064	.8	442,186	5.1	295,765	3.4
New Hampshire.....	3,699,421	1,248,618	33.8	2,291,486	62.0	116,158	.3	285,500	2.3	57,659	1.6
Vermont.....	2,150,484	1,048,747	48.7	1,092,998	50.8	18,739	.5				
Massachusetts.....	19,535,631	9,062,104	46.4	8,318,549	42.6	817,458	4.2	901,294	4.6	436,226	2.2
Rhode Island.....	2,828,234	2,028,813	71.9	439,757	15.5	112,642	4.0	134,700	4.7	112,322	3.9
Connecticut.....	8,445,716	4,189,517	49.5	3,973,616	47.1	231,624	3.0			30,939	.4
Middle Atlantic.....	160,470,634	92,665,541	57.8	40,421,671	25.2	6,586,008	4.1	13,641,129	8.5	7,156,285	4.4
New York.....	57,025,011	31,732,971	55.6	14,031,131	24.6	2,345,952	4.2	6,111,269	10.7	3,280,688	4.9
New Jersey.....	28,096,070	15,973,807	56.8	8,657,498	30.8	951,063	3.4	1,761,120	6.3	752,582	2.7
Pennsylvania.....	73,349,553	41,958,763	57.2	17,733,042	23.6	3,288,993	4.4	5,768,740	7.6	3,600,015	4.8
East North Central.....	267,988,153	153,897,286	57.5	70,202,240	26.2	8,021,674	3.0	28,945,920	10.8	6,861,433	2.5
Ohio.....	76,579,987	42,955,743	56.0	19,780,152	25.9	2,213,498	2.9	10,802,307	14.1	828,287	1.1
Indiana.....	54,502,332	27,606,442	50.7	14,732,391	27.0	1,236,659	2.3	10,360,184	19.0	566,656	1.0
Illinois.....	39,619,448	21,850,575	55.2	12,392,158	31.3	1,515,864	3.8	1,979,717	5.0	1,881,134	4.7
Michigan.....	55,572,618	36,244,828	65.2	10,550,568	19.0	2,153,616	3.9	4,804,124	8.7	1,759,482	3.2
Wisconsin.....	41,713,768	25,239,698	60.5	12,806,971	30.7	902,037	2.1	939,588	2.3	1,825,474	4.4

¹ General administration only. Cost of engineering charged to construction.² Does not include approximately \$15,000 of interest and principal on town bonds charged to construction.³ Includes interest and principal payments on county and town highway bonds.

TABLE 3.—Total expenditures for all rural highway purposes in 1921. Consolidated data for all States, counties, townships, and districts—Con.

Geographic divisions and States	Total	Construction, roads and bridges	Per cent of total	Maintenance, roads and bridges	Per cent of total	Administra- tion and engineering	Per cent of total	Principal and interest payments, highway bonds	Per cent of total	Purchase and repair of ma- chinery and equipment and general miscellaneous	Per cent of total
West North Central.....	\$148,805,686	\$93,060,467	62.4	\$12,570,471	28.7	\$4,068,240	2.7	\$3,740,035	2.5	\$5,420,473	3.7
Minnesota.....	38,779,560	23,816,054	61.5	10,736,693	27.7	909,334	2.3	1,634,658	4.2	1,082,821	4.3
Iowa.....	39,324,553	26,084,193	66.3	10,442,776	26.5	1,132,859	2.9	886,770	5.5	1,664,725	4.2
Missouri.....	16,127,659	8,588,306	53.3	5,401,213	33.8	759,311	4.7	(*)	5.5	432,059	2.7
North Dakota.....	7,247,231	4,328,985	59.6	2,577,366	35.6	264,213	3.7			76,667	1.1
South Dakota.....	14,188,967	7,889,272	55.6	4,959,012	34.9	635,484	2.5	436,802	3.1	547,397	3.9
Nebraska.....	10,527,609	6,291,375	59.8	3,677,566	34.9	184,565	1.8	166,478	1.6	207,625	1.9
Kansas.....	22,670,107	16,068,282	70.9	4,715,845	20.8	461,474	2.0	615,327	2.7	809,179	3.6
South Atlantic.....	106,656,946	65,759,252	61.6	22,003,745	20.6	4,210,398	4.0	9,728,269	9.1	4,955,282	4.7
Delaware.....	6,035,637	4,561,348	75.6	535,610	8.9	240,976	4.0	465,588	7.7	232,115	3.8
Maryland.....	10,298,136	5,337,456	51.8	3,324,353	32.3	196,952	1.9	1,329,552	12.9	109,823	1.1
Virginia.....	13,455,392	8,254,466	61.4	5,045,909	37.5	931,949	6.1	1,101,970	7.1	151,078	1.1
West Virginia.....	10,060,073	7,274,371	72.3	1,426,626	14.2	493,987	4.9	7,679,232	6.8	185,857	1.8
North Carolina.....	29,323,700	16,734,431	57.1	5,989,437	20.4	878,257	2.7	3,705,965	12.6	2,111,610	7.2
South Carolina.....	10,049,281	7,280,309	72.6	1,259,289	12.5	504,021	5.0	154,413	1.5	851,249	8.4
Georgia.....	15,816,594	10,029,427	63.5	2,853,167	18.0	779,485	4.9	1,245,083	7.9	909,432	5.7
Florida.....	9,588,133	6,287,424	65.6	1,569,354	16.4	280,771	2.9	1,046,466	10.9	404,118	4.2
East South Central.....	51,236,234	31,605,008	61.6	11,529,405	22.5	1,771,883	3.5	5,218,206	10.2	1,111,732	2.2
Kentucky.....	12,622,663	7,622,488	60.4	3,665,942	29.0	393,730	3.1	10789,585	6.3	149,918	1.2
Tennessee.....	12,697,447	8,100,059	64.3	2,715,290	21.4	723,784	5.7	11,630,694	5.1	447,600	3.5
Alabama.....	5,607,835	2,935,461	52.3	1,488,065	26.5	210,476	3.8	726,134	13.0	727,099	4.4
Mississippi.....	20,308,289	12,887,000	63.3	3,659,108	18.1	443,893	2.2	3,061,833	15.1	206,455	1.3
West South Central.....	103,820,179	64,136,714	61.8	19,782,473	19.1	4,280,726	4.1	12,981,283	12.5	2,638,983	2.5
Arkansas.....	21,211,014	14,397,819	67.9	3,196,665	15.1	1,279,374	6.0	11,857,208	8.8	479,948	2.2
Louisiana.....	14,022,003	10,479,570	74.8	875,883	6.2	13,293,494	2.1	2,183,843	15.6	189,213	1.3
Oklahoma.....	14,679,891	9,068,249	61.8	3,576,748	24.3	837,330	5.7	748,413	5.1	449,151	3.1
Texas.....	53,907,271	30,191,076	56.1	12,133,177	22.5	1,870,528	3.5	8,191,819	15.1	1,520,671	2.8

Mountain-----	58, 157, 929	39, 108, 845	67. 3	8, 469, 567	14. 5	2, 509, 338	4. 3	4, 751, 676	8. 2	3, 318, 503	5. 7
Montana-----	10, 383, 157	6, 619, 129	63. 8	1, 509, 797	14. 5	648, 167	6. 2	1, 106, 241	10. 7	499, 823	4. 8
Idaho-----	11, 807, 983	8, 263, 361	70. 0	1, 467, 630	12. 4	226, 705	1. 9	1, 020, 946	8. 7	828, 741	7. 0
Wyoming-----	4, 723, 412	3, 197, 397	67. 7	612, 970	13. 0	234, 908	5. 0	396, 200	8. 3	283, 937	6. 0
Colorado-----	9, 048, 821	5, 144, 480	56. 8	2, 651, 055	29. 4	544, 328	6. 0	145, 543	1. 6	563, 415	6. 2
New Mexico-----	4, 239, 005	2, 635, 933	61. 9	510, 302	11. 9	111, 667	2. 6	889, 541	21. 0	111, 562	2. 6
Arizona-----	10, 643, 485	8, 480, 916	79. 7	671, 967	6. 3	490, 237	4. 6	15, 443, 673	4. 2	561, 692	5. 2
Utah-----	5, 174, 714	3, 462, 964	66. 9	787, 730	15. 2	137, 418	2. 7	610, 475	11. 8	176, 127	3. 4
Nevada-----	2, 110, 952	1, 304, 665	61. 8	258, 116	12. 2	115, 908	5. 5	139, 057	6. 6	293, 206	13. 9
Pacific-----	94, 030, 614	62, 565, 907	66. 5	16, 128, 849	17. 2	3, 303, 401	3. 5	8, 710, 748	9. 3	3, 321, 709	3. 5
Washington-----	24, 238, 729	17, 344, 669	71. 5	3, 384, 970	14. 0	732, 835	3. 0	2, 009, 679	8. 3	766, 576	3. 2
Oregon-----	27, 968, 913	23, 891, 963	85. 4	1, 756, 103	6. 3	659, 990	2. 4	1, 492, 792	5. 3	168, 065	6
California-----	41, 822, 972	21, 329, 275	51. 0	10, 987, 776	26. 3	1, 910, 576	4. 6	5, 208, 277	12. 4	2, 387, 068	5. 7

⁴ Interest and principal payments on road and bridge bonds and warrants amounting to approximately \$1,000,000 for interest and \$750,000 for principal were paid from county and township general funds. Data for bonds alone not available.

⁵ Includes cost of gravel pits and railroad crossings.

⁶ State administration and engineering. Local engineering and administration charged to construction and maintenance.

⁷ Does not include approximately \$270,000 of interest charged to construction.

⁸ State engineering charged to construction and maintenance.

⁹ Does not include approximately \$450,000 interest and principal payments charged to "Miscellaneous."

¹⁰ Complete data not available. Total interest and principal payments charged to construction.

¹¹ Complete data for principal and interest payments on highway bonds estimated to have been approximately \$2,000,000 during 1921.

¹² Cost of State engineering and inspection charged to construction.

¹³ State engineering amounting to approximately \$140,000 charged to construction.

¹⁴ Does not include approximately \$400,000 of interest payments charged to construction.

TABLE 4.—*Rural road expenditures, 1922. Consolidated data showing rural road expenditures for construction, maintenance, engineering, and administration for all States, counties, townships, and districts during 1922, together with the approximate highway funds available for 1923*

States and geographic divisions	Expenditures 1922 ¹			Grand total funds available for highways 1923. (Approx.)
	Grand total expenditure	By or under supervision of State highway department	Local expenditures not under control of State highway department	
Totals all states.....	\$898,352,307	\$429,896,572	\$468,455,735	\$943,339,148
New England.....	38,042,405	25,729,507	12,312,898	41,903,856
Maine.....	9,138,497	5,655,599	3,482,898	10,528,060
New Hampshire.....	3,984,233	2,584,233	1,400,000	4,225,796
Vermont.....	2,882,200	2,132,200	750,000	2,850,000
Massachusetts.....	10,600,000	7,000,000	3,600,000	11,000,000
Rhode Island.....	2,358,110	1,758,110	600,000	4,200,000
Connecticut.....	9,079,365	6,599,365	2,480,000	9,100,000
Middle Atlantic.....	156,922,114	85,696,989	71,225,125	138,573,368
New York.....	46,979,587	24,532,621	22,446,966	58,835,260
New Jersey.....	33,231,897	23,965,507	9,266,399	34,738,108
Pennsylvania.....	76,710,630	37,198,861	39,511,769	45,000,000
East North Central.....	229,737,026	98,149,530	131,587,496	245,191,317
Ohio.....	47,615,641	21,815,641	25,800,000	48,000,000
Indiana.....	40,166,942	6,475,234	33,691,708	41,439,877
Illinois.....	48,091,762	26,384,762	21,707,000	56,250,000
Michigan.....	53,951,801	27,354,555	26,597,246	59,451,440
Wisconsin.....	39,910,880	16,119,338	23,791,542	40,000,000
West North Central.....	129,494,436	64,030,213	65,464,223	147,211,800
Minnesota.....	32,196,068	20,575,066	11,621,002	31,736,468
Iowa.....	32,055,518	16,272,363	15,783,155	35,632,386
Missouri.....	18,398,795	6,398,795	12,000,000	35,002,320
North Dakota.....	5,363,534	3,488,534	1,875,000	4,195,000
South Dakota.....	11,650,749	4,860,749	6,790,000	11,095,976
Nebraska.....	8,955,254	3,955,254	5,000,000	9,000,000
Kansas.....	20,874,518	8,479,452	12,395,066	20,549,650
South Atlantic.....	88,951,607	50,592,218	38,359,389	103,098,000
Delaware.....	3,792,395	2,898,008	894,387	3,793,000
Maryland.....	7,408,808	5,181,125	2,227,683	7,275,000
Virginia.....	14,986,038	8,486,038	6,500,000	18,000,000
West Virginia.....	12,300,204	8,702,697	3,597,507	16,055,000
North Carolina.....	23,037,084	12,537,084	10,500,000	28,975,000
South Carolina.....	9,000,696	5,860,884	3,139,812	10,000,000
Georgia.....	8,350,000	3,350,000	5,000,000	9,000,000
Florida.....	10,076,382	3,576,382	6,500,000	10,000,000
East South Central.....	50,161,565	17,553,210	32,608,355	57,653,156
Kentucky.....	13,705,874	5,567,519	8,138,355	12,841,552
Tennessee.....	11,243,309	6,073,309	5,170,000	14,086,604
Alabama.....	7,401,208	3,601,208	3,800,000	9,675,000
Mississippi.....	17,811,174	2,311,174	15,500,000	21,050,000
West South Central.....	89,190,279	26,243,207	62,947,072	91,112,500
Arkansas.....	11,992,958	8,414,296	3,578,662	11,114,500
Louisiana.....	12,584,835	4,456,425	8,128,410	12,100,000
Oklahoma.....	10,389,500	5,149,500	5,240,000	14,898,000
Texas.....	54,222,986	8,222,986	46,000,000	53,000,000
Mountain.....	39,084,473	24,512,104	14,572,369	40,571,275
Montana.....	3,448,930	1,997,830	1,451,100	3,335,000
Idaho.....	4,442,007	2,641,194	1,800,813	3,154,200
Wyoming.....	2,646,359	1,965,458	680,901	2,714,338
Colorado.....	9,722,125	7,192,125	2,530,000	12,095,085
New Mexico.....	4,065,917	3,565,917	500,000	3,900,000
Arizona.....	9,046,515	3,466,960	5,579,555	9,182,355
Utah.....	3,762,556	2,232,556	1,530,000	2,948,600
Nevada.....	1,950,064	1,450,064	500,000	3,241,697
Pacific.....	76,768,402	37,389,594	39,378,808	78,023,876
Washington.....	16,986,499	7,986,499	9,000,000	17,215,000
Oregon.....	15,756,895	10,756,895	5,000,000	14,600,000
California.....	44,025,008	18,646,200	25,378,808	46,208,876

¹ These data include only expenditures for construction, maintenance, engineering and administration and those items usually included under these headings. Payments for interest and principal on highway bonds, purchase and repair of machinery and equipment and other miscellaneous items to the extent which they were not directly chargeable to one or more of the major highway activities for the year 1922 are not included.

TABLE 5.—Total rural road mileage as existing January 1, 1922. Consolidated data for all States, counties, townships, and districts

States and geographic divisions	Total mileage, all types	Total surfaced mileage	Mileage of each type of surfacing										Earth roads		
			Sand-clay	Gravel, chert, shale	Water-bound macadam	Surface-treated macadam	Bituminous macadam	Sheet asphalt	Bituminous concrete	Portland cement concrete	Brick	Wood block		Stone block	Miscellaneous
Totals all States.....	2,941,294	387,760	63,339	199,899	58,036	19,309	10,264	1,601	4,978	15,611	3,333	27	60	11,303	2,553,534
New England.....	83,295	17,725	89	11,590	2,100	959	1,807	7	564	353	9	1	10	236	65,570
Maine.....	21,483	2,953	81	2,662	24	20	124	1	3	37	---	---	---	1	18,530
New Hampshire.....	13,841	1,692	---	1,368	66	123	50	---	29	1	---	---	---	55	12,149
Vermont.....	14,677	3,545	---	3,518	1	---	13	---	5	8	---	---	---	---	11,132
Massachusetts.....	18,868	6,575	8	3,103	1,163	521	1,269	---	280	129	7	1	8	86	12,203
Rhode Island.....	2,274	74	---	145	74	258	140	---	127	6	---	---	2	---	1,520
Connecticut.....	12,152	2,206	---	794	772	37	211	4	120	172	2	---	---	94	9,946
Middle Atlantic.....	186,935	38,946	12	8,039	7,230	6,924	4,137	212	1,366	2,340	572	2	44	8,068	147,989
New York.....	81,878	18,566	---	4,210	5,424	3,600	3,740	1	158	953	232	---	4	244	63,312
New Jersey.....	14,066	6,459	12	3,435	1,110	605	193	74	715	238	13	2	39	23	7,607
Pennsylvania.....	90,991	13,921	---	3,394	696	2,719	204	137	493	1,149	327	---	1	7,801	77,070
East North Central.....	412,753	124,298	4,523	78,651	26,509	4,000	1,910	38	514	5,633	1,733	8	---	779	288,455
Ohio.....	84,219	36,068	501	14,931	14,380	1,860	1,318	10	181	1,060	1,316	---	---	511	48,151
Indiana.....	76,246	39,857	---	30,801	6,917	949	303	20	38	654	173	---	---	---	36,389
Illinois.....	96,326	11,473	84	6,747	2,618	138	63	---	56	1,534	225	8	---	---	84,853
Michigan.....	77,283	17,186	78	13,185	1,715	236	172	---	225	1,294	13	---	---	---	60,097
Wisconsin.....	78,679	19,714	3,860	12,987	879	817	52	8	14	1,091	6	---	---	---	58,965
West North Central.....	759,820	30,223	6,343	20,791	1,603	219	155	10	114	817	157	10	---	4	729,597
Minnesota.....	107,103	16,905	3,975	12,188	169	75	19	9	100	350	10	10	---	---	90,198
Iowa.....	104,082	2,555	---	2,346	---	---	---	---	---	187	51	---	---	---	101,497
Missouri.....	111,520	7,879	1,755	4,510	1,329	56	104	1	11	103	10	---	---	---	103,641
North Dakota.....	106,523	710	14	695	---	---	---	---	---	1	---	---	---	---	105,813
South Dakota.....	115,485	548	26	518	4	---	---	---	---	---	---	---	---	---	114,937
Nebraska.....	86,556	496	276	151	1	24	---	---	3	13	28	---	---	---	86,060
Kansas.....	128,551	1,100	297	383	100	63	32	---	---	163	58	---	---	4	127,451

TABLE 5.—Total road mileage as existing January 1, 1922. Consolidated data for all States, counties, townships, and districts—Continued

States and geographic divisions	Total mileage, all types	Total surfaced mileage	Mileage of each type of surfacing											Earth roads	
			Sand-clay	Gravel, chert, shale	Water-bound macadam	Surface-treated macadam	Bituminous macadam	Sheet asphalt	Bituminous concrete	Portland cement concrete	Brick	Wood block	Stone block		Miscellaneous
South Atlantic.....	365,567	61,178	37,892	11,611	2,943	3,352	992	600	435	1,753	778	-----	6	816	304,389
Delaware.....	3,933	448	-----	50	16	150	32	-----	21	172	7	-----	-----	-----	3,485
Maryland.....	14,772	3,663	-----	922	398	1,186	-----	21	44	493	2	-----	-----	597	11,109
Virginia.....	59,080	7,260	3,400	1,339	782	1,089	277	-----	57	219	1	-----	1	147	51,820
West Virginia.....	35,173	1,367	-----	132	440	103	197	-----	207	137	58	-----	-----	10	33,806
North Carolina.....	68,204	16,755	12,198	3,332	416	189	125	88	207	137	58	-----	-----	4	51,449
South Carolina.....	61,850	5,833	12,108	3,332	416	189	125	88	207	137	58	-----	-----	4	51,449
Georgia.....	94,912	18,339	14,128	3,236	190	30	254	17	79	400	539	-----	-----	5	76,573
Florida.....	27,643	6,438	2,333	1,627	686	605	101	474	-----	20	539	-----	-----	53	21,205
East South Central.....	242,745	41,478	6,632	17,115	15,181	1,966	131	61	80	209	11	6	-----	86	201,267
Kentucky.....	68,704	15,436	70	3,122	10,624	1,414	59	45	10	25	5	5	-----	57	53,268
Tennessee.....	62,546	3,878	-----	5,306	3,985	436	62	5	26	36	-----	1	-----	21	52,668
Alabama.....	58,410	10,420	6,198	3,670	465	34	3	11	28	10	6	-----	-----	1	47,990
Mississippi.....	53,085	3,744	304	5,017	107	82	7	-----	16	138	6	-----	-----	7	47,341
West South Central.....	416,617	23,986	4,902	16,599	666	457	254	55	324	314	22	-----	-----	393	392,631
Arkansas.....	74,866	3,871	150	2,869	320	73	154	12	219	74	-----	-----	-----	-----	70,995
Louisiana.....	39,803	2,771	148	2,449	-----	6	8	-----	3	82	18	-----	-----	132	37,032
Oklahoma.....	134,263	2,461	1,840	491	7	4	2	-----	25	82	1	-----	-----	9	131,802
Texas.....	167,685	14,883	2,704	10,790	339	374	90	43	77	151	3	-----	-----	252	152,802
Mountain.....	306,382	15,539	2,706	11,810	262	64	34	13	114	520	-----	-----	-----	16	290,843
Montana.....	64,732	1,772	15	1,716	5	-----	2	-----	32	13	-----	-----	-----	2	62,960
Idaho.....	31,099	2,982	217	2,537	73	56	22	11	39	32	-----	-----	-----	14	28,117
Wyoming.....	46,528	440	-----	413	12	-----	-----	-----	1	14	-----	-----	-----	-----	46,088
Colorado.....	48,143	4,598	1,070	3,326	131	-----	-----	-----	-----	71	-----	-----	-----	-----	43,545
New Mexico.....	45,549	1,802	674	1,101	-----	-----	-----	-----	35	183	-----	-----	-----	-----	43,747
Arizona.....	21,227	1,233	23	960	29	-----	3	-----	39	152	-----	-----	-----	-----	19,994
Utah.....	23,047	2,544	697	1,631	12	4	7	2	39	152	-----	-----	-----	-----	20,503
Nevada.....	26,057	168	10	126	-----	4	-----	-----	-----	28	-----	-----	-----	-----	25,889
Pacific.....	167,180	34,387	240	23,693	1,542	1,368	844	605	1,467	3,672	51	-----	-----	905	132,793
Washington.....	45,816	12,062	-----	10,377	169	13	108	20	228	920	51	-----	-----	176	33,754
Oregon.....	45,475	8,050	-----	6,230	840	-----	35	-----	746	139	-----	-----	-----	60	37,425
California.....	75,889	14,275	240	7,086	533	1,355	701	585	493	2,613	-----	-----	-----	609	61,614

¹ Includes about 26,000 miles of section lines declared public highways by law but which are not open for general traffic.

TABLE 6.—*Types of surfaced roads, 1914*

State	Macadam	Bitumi- nous macadam	Gravel	Sand- clay	Brick	Portland cement concrete	Miscella- neous	Total surfaced
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Alabama.....	431.00	31.00	2,589.50	1,916.00	-----	1.00	20.00	4,988.50
Arizona.....	11.23	13.50	125.70	45.00	-----	-----	58.00	253.43
Arkansas.....	362.50	4.00	535.00	175.00	-----	21.00	-----	1,097.50
California.....	837.40	877.90	3,563.59	582.25	-----	929.19	3,489.40	10,279.73
Colorado.....	3.00	-----	574.25	450.12	-----	2.25	164.25	1,193.87
Connecticut.....	923.42	128.28	1,057.93	840.27	1.33	24.22	-----	2,975.45
Delaware.....	161.50	35.50	21.00	-----	-----	-----	25.50	243.50
Florida.....	829.16	42.80	42.50	1,163.00	256.24	12.00	484.77	2,830.47
Georgia.....	234.00	87.00	1,073.00	10,778.00	1.72	.40	168.00	12,342.12
Idaho.....	42.50	12.00	168.00	449.00	-----	4.50	3.00	679.00
Illinois.....	1,675.11	121.53	7,052.30	2,467.95	82.92	148.80	57.70	11,606.31
Indiana.....	10,291.29	168.35	20,264.59	150.25	34.75	53.17	-----	30,962.40
Iowa.....	171.30	-----	413.00	23.00	-----	5.77	1.50	614.57
Kansas.....	194.30	-----	151.85	758.50	4.10	1.35	38.75	1,148.85
Kentucky.....	10,628.00	59.03	1,713.50	-----	.25	2.50	-----	12,403.28
Louisiana.....	-----	-----	430.00	1,448.00	-----	-----	189.62	2,067.62
Maine.....	55.36	43.93	1,139.36	2.26	.05	10.51	1,510.89	2,762.36
Maryland.....	488.70	1,042.31	243.95	69.00	-----	189.34	455.96	2,489.26
Massachusetts.....	834.30	1,337.33	6,289.57	-----	-----	-----	44.69	8,505.89
Michigan.....	1,021.19	94.50	5,230.25	1,375.27	-----	107.30	-----	7,828.51
Minnesota.....	120.25	19.00	2,825.25	985.33	.50	17.50	-----	3,967.83
Mississippi.....	86.00	28.50	1,281.10	604.25	-----	14.00	118.50	2,133.35
Missouri.....	1,531.05	59.00	3,671.50	1,442.25	1.00	2.77	5.00	6,712.57
Montana.....	78.00	-----	514.25	14.00	-----	-----	3.00	609.25
Nebraska.....	39.21	1.30	21.00	1,131.10	2.40	7.53	2.00	1,204.54
Nevada.....	2.00	-----	193.00	67.00	-----	-----	-----	262.00
New Hampshire.....	61.87	154.26	1,013.70	270.90	-----	70.7	151.83	1,659.63
New Jersey.....	1,809.24	417.63	2,858.52	561.40	-----	-----	250.67	5,897.46
New Mexico.....	-----	5.00	184.00	72.50	-----	-----	-----	261.50
New York.....	5,717.97	3,168.63	5,802.97	-----	148.53	244.19	553.61	15,635.90
North Carolina.....	1,111.00	9.00	529.00	4,313.50	-----	1.25	40.00	6,003.75
North Dakota.....	-----	-----	955.00	-----	-----	-----	-----	955.00
Ohio.....	12,903.87	1,066.29	15,385.93	211.00	640.41	315.67	46.00	30,569.17
Oklahoma.....	6.70	3.00	6.90	105.00	-----	-----	-----	121.60
Oregon.....	1,000.72	137.25	3,060.15	300.00	-----	28.41	199.87	4,726.40
Pennsylvania.....	1,881.80	1,998.33	1,235.19	-----	1,269.33	-----	7,398.23	9,982.88
Rhode Island.....	352.92	107.40	230.10	-----	-----	-----	3.00	693.42
South Carolina.....	27.50	3.50	85.00	3,101.00	-----	-----	53.50	3,270.50
South Dakota.....	-----	10.00	212.00	129.00	-----	-----	12.00	363.00
Tennessee.....	4,550.50	148.00	2,788.00	613.00	.50	2.00	-----	8,102.00
Texas.....	511.00	181.00	5,258.98	3,490.48	-----	11.25	1,074.08	10,526.79
Utah.....	49.00	15.50	685.75	401.00	-----	2.50	-----	1,153.75
Vermont.....	1.94	-----	1,165.42	-----	-----	-----	274.67	1,442.03
Virginia.....	1,177.89	255.77	822.09	1,511.65	-----	-----	142.17	3,909.57
Washington.....	502.82	165.52	3,924.48	83.50	26.35	79.42	140.00	4,922.09
West Virginia.....	771.92	62.95	20.50	-----	121.10	18.50	70.00	1,064.97
Wisconsin.....	1,408.00	183.00	9,597.00	2,054.00	2.40	83.07	72.00	13,399.47
Wyoming.....	-----	-----	52.50	-----	-----	-----	416.00	468.50
Total.....	64,898.43	10,499.79	116,058.12	44,154.73	1,593.88	2,348.43	17,738.16	257,291.54
Per cent.....	25.22	4.08	45.11	17.16	.62	.91	6.90	100.00

¹ State roads only.

TABLE 7.—Total mileage all rural roads and total mileage surfaced as of 1904, 1909, 1914, and 1921

States	Total road mileage				Miles surfaced				Percentage surfaced			
	1921	1914	1909	1904	1921	1914	1909	1904	1921	1914	1909	1904
Alabama.....	58,410	55,446.00	49,639.00	50,089	10,420	4,988.50	3,263.03	1,720.00	17.84	8.99	6.58	3.43
Arizona.....	21,227	12,075.00	5,987.00	5,987	1,233	253.43	273.00	236.00	5.81	2.09	4.56	3.62
Arkansas.....	74,866	50,743.00	36,445.00	36,445	3,871	1,097.50	1,085.25	236.00	5.17	2.16	2.97	6.64
California.....	75,889	61,039.00	46,663.00	46,663	14,273	10,279.73	8,807.75	8,803.00	18.81	16.84	17.87	18.87
Colorado.....	48,143	39,780.00	29,693.00	30,214	4,598	1,193.87	820.50	1,178.00	9.55	3.00	1.08	5.69
Connecticut.....	12,152	14,061.00	12,583.00	14,088	2,206	2,973.45	3,630.34	2,360.00	18.15	21.16	24.08	16.75
Delaware.....	3,933	3,674.00	3,000.00	3,000	448	233.50	186.44	86.00	11.39	6.62	6.22	2.20
Florida.....	27,643	17,995.00	17,579.00	17,374	6,438	2,836.47	1,732.35	883.50	23.29	15.72	9.97	5.10
Georgia.....	94,912	80,669.00	82,203.00	57,263	18,339	12,342.12	5,978.00	1,634.00	19.32	13.30	7.27	2.86
Idaho.....	31,069	24,396.00	18,403.00	18,163	2,982	679.00	510.50	1,634.00	21.20	9.59	2.78	1.16
Illinois.....	96,326	95,647.00	94,141.00	11,473	31,857	30,962.40	8,914.00	7,924.00	11.91	12.62	4.47	8.42
Indiana.....	76,246	73,347.00	67,996.00	68,306	39,857	30,962.40	24,955.50	23,877.00	52.27	42.60	36.70	34.96
Iowa.....	104,087	104,074.00	102,427.00	102,448	2,585	614.57	2,505.10	1,664.00	2.48	3.59	2.43	1.62
Kansas.....	128,551	111,052.00	98,302.00	101,196	1,100	1,148.85	374.71	273.20	8.61	1.03	3.38	2.27
Kentucky.....	68,704	57,916.00	53,744.00	57,137	15,439	12,403.28	10,114.95	9,486.00	22.47	21.40	18.82	16.60
Louisiana.....	39,803	24,563.00	24,962.00	24,897	2,771	2,067.62	329.50	34.00	6.96	8.42	1.32	1.14
Maine.....	21,483	24,537.00	25,528.00	25,528	2,953	2,762.36	2,703.06	2,323.50	13.75	11.74	10.59	9.10
Maryland.....	14,772	16,459.00	16,773.00	16,773	3,663	2,489.26	2,142.30	1,570.00	24.80	15.10	12.77	9.36
Massachusetts.....	18,868	18,681.00	17,272.00	17,092	6,575	8,505.89	8,463.18	7,843.80	34.85	45.53	49.00	45.89
Michigan.....	77,283	74,190.00	68,906.00	69,296	17,186	7,828.51	6,900.54	7,025.50	22.22	10.55	10.01	10.14
Minnesota.....	107,103	93,517.00	79,323.00	79,324	16,945	3,907.83	5,416.85	6,247.50	15.78	4.24	6.83	7.87
Mississippi.....	53,085	45,779.00	39,619.00	38,698	6,744	2,133.35	342.25	149.00	10.82	4.66	8.86	3.31
Missouri.....	111,720	96,041.00	107,923.00	108,133	7,879	6,712.57	4,755.50	2,733.00	7.06	6.98	4.40	2.53
Montana.....	64,732	39,204.00	23,319.00	22,419	1,772	609.25	95.00	65.00	2.74	1.55	.41	.28
Nebraska.....	86,556	80,772.00	80,338.00	79,462	496	1,204.54	248.55	24.00	.57	1.50	.36	.51
Nevada.....	26,057	12,182.00	12,751.00	12,585	168	262.00	46.00	63.00	.64	2.14	.31	.03
New Hampshire.....	13,841	14,020.00	15,116.00	15,116	1,692	1,659.63	1,448.48	1,293.00	12.22	11.83	9.58	8.55
New Jersey.....	14,066	14,817.00	14,842.00	14,842	6,459	5,897.46	3,377.86	2,492.30	45.92	39.80	22.76	16.32
New Mexico.....	43,949	11,873.00	16,920.00	15,326	1,802	261.50	104.00	2.00	3.96	2.20	.61	.01
New York.....	81,878	79,398.00	79,279.00	73,798	18,566	15,635.90	12,787.36	5,876.00	22.68	19.60	16.13	7.96
North Carolina.....	68,204	50,738.00	48,253.00	49,763	16,755	6,093.75	2,313.00	1,259.00	24.57	11.82	4.79	2.53
North Dakota.....	106,523	68,394.00	61,933.00	61,933	7,710	9,955.00	2,143.00	212.00	67	1.38	.23	.30
Ohio.....	84,219	86,350.00	88,861.00	89,439	36,008	30,593.17	24,106.00	23,460.00	42.83	35.10	27.13	33.79
Oklahoma.....	134,263	107,916.00	71,325.00	69,439	3,401	3,21.60	391.00	18.33	18.33	11	.50	
Oregon.....	45,475	36,819.00	29,475.00	34,258	3,050	4,726.40	2,799.25	2,589.00	17.70	12.83	9.49	7.56
Pennsylvania.....	90,991	91,555.84	87,386.79	93,777	13,921	9,982.88	3,042.07	2,100.80	15.30	10.90	3.84	2.17
Rhode Island.....	2,274	2,170.00	2,361.00	2,361	764	693.42	3,034.76	1,091.50	33.15	31.95	49.14	43.27
South Carolina.....	61,850	42,226.00	32,075.00	41,830	6,908	3,270.50	3,334.75	1,878.00	11.17	7.74	11.02	4.49
South Dakota.....	115,485	96,306.00	56,354.00	59,295	548	363.00	286.00	131.00	47	37	.50	.25
Tennessee.....	62,546	46,050.00	45,913.00	48,989	9,878	8,102.00	5,353.50	4,283.00	15.70	17.69	11.66	8.75
Texas.....	167,085	128,960.00	128,971.00	121,409	14,883	10,526.79	4,896.00	2,128.00	8.88	3.80	1.75	1.75
Utah.....	23,047	8,810.00	8,320.00	7,090	2,544	1,153.75	1,018.00	608.00	11.64	13.09	12.23	8.57

Vermont.....	14, 677	14, 249. 00	14, 408. 00	14, 521	3, 545	1, 442. 03	2, 650. 63	1, 953. 50	24. 15	10. 12	18. 40	13. 45
Virginia.....	59, 080	53, 388. 00	43, 389. 00	51, 812	7, 260	3, 900. 57	1, 902. 75	1, 600. 00	12. 29	7. 32	4. 38	3. 09
Washington.....	45, 816	42, 428. 00	34, 283. 00	31, 998	12, 062	4, 922. 09	4, 520. 68	1, 976. 50	26. 33	11. 61	13. 19	6. 17
West Virginia.....	35, 173	32, 024. 00	32, 109. 00	26, 178	1, 367	1, 064. 97	591. 40	254. 50	3. 89	3. 30	1. 84	1. 97
Wisconsin.....	78, 679	75, 707. 00	61, 090. 00	63, 593	19, 714	13, 339. 47	10, 167. 33	10, 633. 20	25. 09	17. 60	16. 64	16. 72
Wyoming.....	46, 528	14, 797. 00	10, 569. 00	10, 447	440	468. 50	416. 00	153. 00	. 95	3. 10	3. 94	1. 46
Total.....	2, 941, 294	2, 445, 760. 84	2, 199, 645. 14	2, 151, 379	387, 760	257, 291. 54	190, 476. 32	153, 530. 40	13. 17	10. 52	8. 66	7. 14

¹ Includes about 26,000 miles of section lines declared Public Highways by law but which are not open to general traffic.

TABLE 8.—Total mileage of rural roads built during 1921. Consolidated data for all States, counties, townships, and districts

States and geographic divisions	Total mileage surfaced during 1921	Mileage of each type surfaced								Earth roads		Grand total mileage on which construction work was done during 1921		
		Sand-clay	Gravel, chert, shale	Water-bound macadam	Surface-treated macadam	Bituminous macadam	Sheet asphalt	Bituminous concrete	Portland cement concrete	Brick	Miscellaneous		Constructed to definite grade with permanent drainage structures	Partially graded and drained
Totals all States.....	41,171.7	7,010.2	22,008.6	3,070.1	993.8	1,349.2	208.5	1,022.6	4,805.4	335.8	367.5	7,918.7	61,885.7	110,976.1
New England.....	1,250.1	6.2	722.1	56.4	4.8	255.8	1.9	76.4	118.8	.2	7.5	6.6	98.9	1,355.6
Maine.....	340.6	6.2	286.2	.8		30.0	1.5		14.9		1.0		36.2	376.8
New Hampshire.....	86.3		72.2	2.1	.2	3.2		8.0	.6			5.6		91.9
Vermont.....	212.7		205.9			2.6			4.1				60.5	273.2
Massachusetts.....	318.7		77.6	5.3	2.0	151.4	.4	38.2	42.1		1.7		2.2	320.9
Rhode Island.....	91.5		34.4	1.6	1.6	26.3		26.8	2.3		.1			91.5
Connecticut.....	200.3		45.8	48.1	1.0	42.3		3.4	54.8	.2	4.7	1.0		201.3
Middle Atlantic.....	3,321.9	.5	572.9	930.6	125.3	349.2	83.0	118.3	1,103.4	25.8	12.9	4.7	87.8	3,414.4
New York.....	2,051.7		392.6	810.3	121.3	308.4		9.5	405.2	1.0	3.4		5.8	2,051.7
New Jersey.....	325.8		107.7	19.1	2.7	17.9	29.8	43.5	95.6		9.5	4.7	82.0	336.3
Pennsylvania.....	944.4	.5	72.6	101.2	1.3	22.9	53.2	65.3	602.6	24.8				1,026.4
East North Central.....	10,292.1	642.5	6,146.9	995.4	205.9	277.1	11.8	126.6	1,636.6	206.4	42.9	955.4	5,115.8	16,363.3
Ohio.....	1,728.5		483.8	414.1	77.4	195.7	3.8	68.6	273.5	168.7	42.9	21.6	129.3	1,879.4
Indiana.....	1,671.0		1,122.4	275.9	30.0	10.8	8.0	6.9	197.8	19.2				1,671.0
Illinois.....	1,061.1		516.5	54.0	60.0	13.1		1.7	399.0	16.8		206.7	315.0	1,582.0
Michigan.....	2,294.9	77.6	1,729.3	107.3	36.8	35.2		49.4	257.7	1.6				2,418.1
Wisconsin.....	3,536.6	564.9	2,294.9	144.1	1.7	22.3			508.6	.1		727.1	4,548.3	8,812.0
West North Central.....	4,173.5	328.9	3,187.8	25.2	15.5	51.4	2.0	44.0	444.9	72.8	1.0	3,575.9	30,271.9	38,021.3
Minnesota.....	1,831.3	131.3	1,549.3	.7		3.0	1.0	40.3	104.7		1.0	1,299.9	5,442.0	8,573.2
Iowa.....	966.8		798.7						151.5	16.6		1,069.5	291.8	2,928.1
Missouri.....	439.6		322.1	13.8		25.1	1.0	3.7	70.5	3.4		296.5	139.8	875.9
North Dakota.....	95.5	4.0	91.5									110.0	5,816.6	6,022.1
South Dakota.....	284.5		280.3									200.0	10,457.3	10,941.8
Nebraska.....	191.4	119.0	55.8	4.2					2.7	13.9		600.0	5,635.8	6,427.2
Kansas.....	364.4	74.6	90.1	6.5	15.5	23.3			115.5	38.9			2,468.6	2,853.0

	7,341.6	4,576.9	1,387.1	183.7	306.8	213.6	23.2	108.9	439.0	20.6	81.8	436.6	3,197.7	10,975.9
South Atlantic.....														
Delaware.....	80.5		4.5	2.8	3.0	6.2		5.2	58.6	.2				80.5
Maryland.....	290.5		87.7	6.8	27.0			19.9	123.3		19.5		106.3	396.8
Virginia.....	665.7	265.1	90.6	40.4	122.1	96.1	6.3		51.4			68.3	118.8	852.8
West Virginia.....	185.6		26.0	11.6	43.9	28.7		6.0	58.7	4.9	5.8	287.6	282.2	488.2
North Carolina.....	2,148.8	1,256.7	670.0	20.6	39.8	12.7	10.4	67.2	60.4	7.5	3.0	31.0	882.6	3,062.0
South Carolina.....	2,060.5	1,846.4	182.0					1.0	31.1				783.0	2,843.5
Georgia.....	1,368.5	1,987.0	248.3	18.5		43.1	6.5	9.6	55.5			262.3	844.3	2,475.1
Florida.....	541.5	221.7	78.0	83.0	71.0	26.8				8.0	53.0		235.5	777.0
East South Central.....	3,416.6	413.5	2,000.0	608.2	150.1	71.0	16.2	32.3	51.5	9.0	64.8	318.2	2,520.5	6,255.3
Kentucky.....	683.7		254.6	280.3	78.5	8.2	10.5		7.5	3.9	40.2	179.0	206.5	1,069.2
Tennessee.....	715.8		284.1	264.6	63.6	60.8		8.9	13.4		20.4		1,338.5	2,054.3
Alabama.....	626.9	331.2	263.0		6.5	2.0	5.7	17.9	0.6				203.1	832.0
Mississippi.....	1,390.2	82.3	1,198.3	63.3	1.5			5.5	30.0	5.1	4.2	139.2	770.4	2,299.8
West South Central.....	5,590.4	808.6	3,998.9	66.4	112.4	106.1	18.4	169.9	174.4	1.0	134.3	1,387.8	12,037.4	19,015.6
Arkansas.....	1,144.9		813.4	27.0	59.0	66.7	4.5	137.0	37.3			237.8	1,199.0	2,582.3
Louisiana.....	841.3	87.8	732.7		5.7	1.6					13.5	150.0	528.2	1,519.5
Oklahoma.....	433.0	155.6	200.2	2.1				20.7	48.4	1.0	5.0	500.0	2,875.1	3,808.1
Texas.....	3,171.2	565.2	2,252.6	37.3	47.7	37.8	13.9	12.2	88.7		115.8		7,434.5	11,105.7
Mountain.....	2,704.3	228.6	2,150.4	44.7	15.9	6.0	11.2	19.3	220.4		7.8	905.1	6,966.6	10,576.0
Montana.....	302.0		275.4	5.0					21.1			129.5	1,132.8	1,564.3
Idaho.....	798.1	35.7	668.1	37.7	15.1	6.0	11.2	11.3	5.7		7.3	85.5	606.5	1,490.1
Wyoming.....	167.6		157.7					1.3	8.6			150.0	1,355.8	1,673.4
Colorado.....	400.1	179.4	194.0						26.7			175.4	1,764.4	2,339.9
New Mexico.....	378.5	7.0	365.8						5.7			164.4	923.0	1,465.9
Arizona.....	361.0	3.5	224.5					1.1	131.9			120.6	404.1	885.7
Utah.....	229.0	3.0	198.7	2.0	.8			5.6	18.9			70.0	739.0	1,038.0
Nevada.....	68.0		66.2						1.8			9.7	41.0	118.7
Pacific.....	3,031.2	4.5	1,842.5	159.5	57.1	19.0	40.8	326.9	616.4		14.5	328.4	1,589.1	4,998.7
Washington.....	862.3		681.1	13.2					161.5		6.5	64.6	311.5	1,238.4
Oregon.....	1,333.3		1,002.6	110.0		1.5		146.6	66.6		6.0	204.5	662.1	2,199.9
California.....	885.6	4.5	158.8	36.3	57.1	17.5	40.8	180.3	388.3		2.0	59.3	615.5	1,560.4

Nebraska.....	180.0	100.0	54.0	-----	-----	15.0	273.5	6.0	-----	121.0	30.0	29.4	271.9	1,728.1	2,100.0
Kansas.....	271.0	30.0	60.0	-----	-----	-----	-----	15.0	-----	-----	30.0	-----	36.1	1,463.9	1,771.0
South Atlantic.....	4,528.8	2,380.2	747.6	179.4	194.2	-----	273.5	236.5	477.4	-----	10.6	-----	433.6	1,339.1	6,301.5
Delaware.....	79.8	-----	-----	-----	2.5	-----	0.5	4.0	72.8	-----	-----	-----	-----	3.0	82.8
Maryland.....	172.4	-----	39.2	15.0	15.0	-----	14.8	3.8	70.8	-----	-----	13.8	2.9	-----	175.3
Virginia.....	555.0	240.0	16.3	40.0	60.0	-----	90.0	-----	45.0	-----	-----	-----	55.5	114.5	725.0
West Virginia.....	191.2	-----	16.3	27.3	11.7	-----	64.4	8.5	57.6	-----	5.4	-----	159.4	65.7	416.3
North Carolina.....	2,115.9	1,265.7	441.7	42.1	20.0	-----	50.0	143.4	139.6	-----	0.2	13.2	40.0	455.9	2,611.8
South Carolina.....	548.3	410.8	64.5	-----	-----	-----	31.2	41.8	-----	-----	-----	-----	100.0	600.0	548.3
Georgia.....	428.3	300.0	65.9	15.0	85.0	-----	20.0	10.0	15.0	-----	-----	2.4	-----	-----	1,128.3
Florida.....	437.9	163.7	40.0	40.0	-----	-----	33.8	35.6	34.8	-----	5.0	-----	75.8	100.0	613.7
East South Central.....	2,109.9	266.1	1,117.0	400.5	106.4	-----	138.2	3.2	65.7	-----	1.2	11.6	340.1	1,115.0	3,565.0
Kentucky.....	412.6	-----	219.2	125.0	24.2	-----	31.6	-----	12.6	-----	-----	-----	125.9	30.0	568.5
Tennessee.....	726.1	-----	256.3	266.2	73.0	-----	104.8	3.2	11.0	-----	-----	11.6	87.7	500.0	1,313.8
Alabama.....	357.9	224.1	114.3	5.6	9.2	-----	-----	-----	4.7	-----	-----	-----	-----	195.0	1,552.9
Mississippi.....	613.3	42.0	527.2	3.7	-----	-----	1.8	-----	37.4	-----	1.2	-----	126.5	390.0	1,129.8
West South Central.....	3,918.5	420.0	3,048.2	125.0	3.7	-----	97.2	27.7	171.5	-----	5.2	20.0	649.1	6,729.3	11,296.9
Arkansas.....	872.5	-----	753.2	15.0	3.7	-----	58.2	19.7	22.7	-----	-----	-----	204.5	1,049.9	2,126.9
Louisiana.....	746.0	80.0	600.0	-----	-----	-----	6.0	-----	-----	-----	-----	10.0	30.6	579.4	1,306.0
Oklahoma.....	187.0	-----	135.0	110.0	-----	-----	33.0	2.0	44.8	-----	5.2	-----	16.0	201.0	7,603.0
Texas.....	2,103.0	340.0	1,500.0	110.0	-----	-----	-----	6.0	104.0	-----	-----	10.0	400.0	5,100.0	7,603.0
Mountain.....	3,749.6	1,129.4	2,227.7	24.8	2.0	-----	8.6	32.6	310.4	-----	-----	14.1	1,323.7	8,710.8	13,784.1
Montana.....	129.2	-----	122.7	-----	-----	-----	4.4	0.9	1.2	-----	-----	-----	27.9	230.0	387.1
Idaho.....	615.0	43.0	548.6	8.0	-----	-----	0.4	2.0	13.0	-----	-----	-----	147.3	470.0	1,232.3
Wyoming.....	138.1	-----	134.2	-----	-----	-----	-----	3.9	3.9	-----	-----	-----	480.5	574.0	1,192.6
Colorado.....	1,630.9	971.0	604.0	-----	-----	-----	55.9	664.0	55.9	-----	-----	-----	364.0	5,884.0	7,884.9
New Mexico.....	298.6	2.0	270.1	-----	-----	-----	26.5	-----	26.5	-----	-----	-----	142.6	143.9	585.1
Arizona.....	413.5	33.4	184.7	19.1	-----	-----	19.1	162.2	102.2	-----	-----	14.1	150.0	343.0	906.5
Utah.....	442.9	80.0	292.8	16.8	2.0	-----	9.0	42.3	42.3	-----	-----	-----	6.6	1,059.9	1,509.4
Nevada.....	81.4	-----	70.6	-----	-----	-----	3.8	1.6	5.4	-----	-----	-----	4.8	-----	86.2
Pacific.....	2,777.3	-----	895.0	886.0	104.3	-----	113.2	336.3	442.5	-----	-----	-----	509.4	1,120.1	4,406.8
Washington.....	810.6	-----	652.5	-----	15.0	-----	-----	5.5	137.6	-----	-----	-----	58.8	250.0	1,119.4
Oregon.....	978.5	-----	-----	847.5	-----	-----	100.7	30.3	336.0	-----	-----	-----	336.0	396.1	1,710.6
California.....	988.2	-----	242.5	38.5	89.3	-----	113.2	230.1	274.6	-----	-----	-----	114.6	474.0	1,576.8

1 Includes 936.0 miles of State-aid work of somewhat lower standard than the State trunk line work.
 2 Includes 1,197.5 miles of State-aid work of somewhat lower standard than the State trunk line work.
 3 Does not include 738.0 miles of State-aid grading.

TABLE 10.—Highway bonds. Consolidated data for all States, counties, townships, and districts

State	Authorized during 1921		Sold during 1921		Total authorized 1914-1921, inclusive		Total outstanding at end of 1921		Grand total outstanding at end of 1921
	State	Local	State	Local	State	Local	State	Local	
Alabama.....		\$2,254,000		\$2,164,000		\$5,350,500		\$8,758,500	\$8,758,500
Arizona.....		1,625,000		1,625,000		18,463,000		18,501,000	18,501,000
Arkansas.....		6,494,000		7,267,200		57,100,800		50,955,700	50,955,700
California.....		1,338,700		4,482,500		48,674,900		45,888,000	101,258,000
Colorado.....	\$5,000,000		2,000,000		\$55,000,000		\$55,400,000		2,000,000
Connecticut.....		698,500		387,500		5,300,000		2,400,000	2,400,000
Delaware.....		2,700,000		310,000		3,929,000		3,215,000	7,144,000
Florida.....		8,376,500		3,755,000		29,558,300		24,130,200	24,130,200
Georgia.....		1,315,500		2,507,500		18,876,000		15,659,000	15,659,000
Idaho.....		938,500		978,500		18,515,100		16,156,700	19,772,200
Illinois.....		288,000		2,955,300		60,000,000		5,000,000	20,617,300
Indiana.....		13,085,900		27,241,500		20,376,000		62,415,900	62,415,900
Iowa.....		6,223,900		9,386,900		7,899,700		25,677,800	25,677,800
Kansas.....		6,044,600		5,529,600		8,989,000		9,182,400	9,182,400
Kentucky.....		2,313,000		401,600		37,103,100		7,135,800	7,135,800
Louisiana.....		4,579,600		5,228,800		7,514,500		28,571,400	28,571,400
Maine.....		28,000		28,000		160,000		6,439,300	6,439,300
Maryland.....		1,614,900		1,750,000		15,850,000		2,512,900	18,212,900
Massachusetts.....		7,727,300		2,953,700		5,317,000		18,723,300	26,520,800
Michigan.....		7,607,200		5,000,000		50,000,000		35,234,200	53,234,200
Minnesota.....		8,631,300		10,611,000		75,000,000		21,402,600	21,402,600
Mississippi.....		3,137,400		7,038,000		39,997,600		37,912,400	37,912,400
Missouri.....		130,000		3,471,700		22,945,200		14,942,600	14,942,600
Montana.....		1,801,700		1,886,800		10,379,000		9,775,800	9,775,800
Nebraska.....		270,000		2,263,000		3,895,000		2,848,000	2,848,000
Nevada.....		455,000				1,395,000		898,000	1,438,000
New Hampshire.....		107,800		107,300		388,700		345,100	1,570,100
New Jersey.....		4,437,600		4,008,000		16,694,000		25,833,000	25,833,000
New Mexico.....						578,500		1,420,000	1,547,000
New York.....	2,000,000		1,000,000		2,420,000		100,000,000	2,681,100	2,681,100
North Carolina.....			20,000,000		\$45,000,000		21,681,100	45,265,900	55,808,500
North Dakota.....		16,122,000		11,977,900		50,000,000		45,265,900	55,808,500
Ohio.....		17,785,500		19,337,500		95,111,000		70,936,500	70,936,500
Oklahoma.....		2,980,600		2,482,300		13,126,200		11,547,600	11,547,600
Oregon.....	7,000,000		11,722,900		40,380,000		31,700,000	11,191,300	42,891,300

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State*

ALABAMA

Type	State roads		State-aid roads		County roads		All rural roads	
	Total Jan. 1, 1922 ¹	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....					38,236.4		38,236.4	
Partly graded and drained earth.....					5,756.0	205.1	5,756.0	205.1
Earth to definite grade with perma- nent drainage struc- tures.....	3.2		221.3		3,773.2		3,997.7	
Sand-clay.....	183.3	73.9	208.8		5,806.1	257.3	6,198.2	331.2
Gravel.....	106.2	75.0	246.2		3,317.5	188.0	3,669.9	263.0
Waterbound mac- adam.....			41.3		424.0		465.3	
Surface-treated mac- adam.....					34.0	6.5	34.0	6.5
Bituminous mac- adam.....					3.0	2.0	3.0	2.0
Sheet asphalt.....	5.7	5.7			5.0		10.7	5.7
Bituminous concrete.....	17.9	17.9			10.0		27.9	17.9
Portland cement con- crete.....	0.6	0.6			9.9		10.5	0.6
Miscellaneous.....	0.8						0.8	
Total.....	317.7	173.1	717.6		57,375.1	658.9	58,410.4	832.0

¹ Includes only mileage actually taken over and improved by State.

ARIZONA

Type	State roads		County roads		Forest roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	106.8		15,683.8	¹ 55.1			15,790.6	¹ 55.1
Partly graded and drained earth.....	335.6		992.0	349.0			1,327.6	349.0
Earth to definite grade with perma- nent drainage struc- tures.....	756.8	37.5	1,922.8		195.8	83.1	2,875.4	120.6
Sand-clay.....			23.5	3.5			23.5	3.5
Gravel.....	202.0	150.0	744.1	60.9			959.7	¹ 224.5
Waterbound mac- adam.....			29.5				29.5	
Bituminous mac- adam.....			2.5				2.5	
Bituminous concrete.....	1.1	1.1	33.7				34.8	1.1
Portland cement con- crete.....	14.5		168.7	131.9			183.2	131.9
Miscellaneous.....	13.6	13.6						
Total.....	1,430.4	202.2	19,600.6	600.4	195.8	83.1	21,226.8	885.7

¹ New roads laid out but not improved.² Includes the 13.6 miles of State road constructed of volcanic cinders and classed as miscellaneous.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

ARKANSAS

Type	State-aid roads		County roads		Forest roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
Unimproved earth.....	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Partly graded and drained earth.....			45,765.0	¹ 77.5	401.0		46,166.0	¹ 77.5
Earth to definite grade with perman- ent drainage structures.....			22,667.5	1,122.1			22,667.5	1,122.1
Sand-clay.....	520.9	231.3	1,500.0		140.3	6.5	2,161.2	237.8
Gravel.....	1,001.2	324.9	150.2	488.5			150.2	
Waterbound macadam.....			1,867.7				2,868.9	813.4
Surface-treated macadam.....	111.1	13.0	209.1	14.0			320.2	27.0
Bituminous macadam.....	17.4	17.4	55.3	41.6			72.7	59.0
Sheet asphalt.....	95.6	10.0	58.5	56.7			154.1	66.7
Bituminous concrete.....	12.9		12.4	4.5			12.4	4.5
Portland cement concrete.....	22.7		205.6	137.0			218.5	137.0
Total.....	1,781.8	596.6	51.2	37.3			73.9	37.3
			72,542.5	1,979.2	541.3	6.5	74,865.6	2,582.3

¹ New roads laid out but not improved.

CALIFORNIA

Type	State roads		County roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
Unimproved earth.....	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Partly graded and drained earth.....	3,072.2		28,042.3	¹ 24.0	31,114.5	¹ 24.0
Earth to definite grade with permanent drainage structures.....	300.0		29,110.0	591.5	29,410.0	591.5
Sand-clay.....	1,089.1	59.3			1,089.1	59.3
Gravel.....	210.9	18.3	240.0	4.5	240.0	4.5
Waterbound macadam.....	5.3		6,875.7	140.5	7,086.6	158.8
Surface-treated macadam.....	196.1		527.4	36.3	532.7	36.3
Bituminous macadam.....	34.9		1,158.7	57.1	1,354.8	57.1
Sheet asphalt.....	572.9		665.7	17.5	700.6	17.5
Bituminous concrete.....	100.0	28.5	12.3	12.3	585.2	40.8
Portland cement concrete.....	894.1	3.3	393.3	177.0	493.3	180.3
Miscellaneous.....	19.3	96.4	1,718.9	291.9	2,613.0	388.3
Total.....			650.0	2.0	669.3	2.0
	6,494.8	205.8	69,394.3	1,354.6	75,889.1	1,560.4

¹ New roads laid out but not improved.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

COLORADO

Type	State roads		County roads		Forest roads ¹		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
Unimproved earth.....	<i>Miles</i> 297.5	<i>Miles</i>	<i>Miles</i> 19,422.2	<i>Miles</i> ² 288.0	<i>Miles</i> 4,866.9	<i>Miles</i>	<i>Miles</i> 19,719.7	<i>Miles</i> ² 288.0
Partly graded and drained earth.....	4,794.3	-----	17,500.0	1,476.4	2,326.5	40.9	22,294.3	1,476.4
Earth to definite grade with permanent drainage structures.....	1,180.0	175.4	350.0	-----	101.9	50.0	1,530.0	175.4
Sand-clay.....	780.9	99.4	289.8	80.0	-----	-----	1,070.7	179.4
Gravel.....	892.7	104.3	2,433.8	89.7	-----	-----	3,326.5	194.0
Waterbound macadam.....	131.1	-----	-----	-----	-----	-----	131.1	-----
Portland cement concrete ³	70.4	26.7	.6	-----	-----	-----	71.0	26.7
Total.....	8,146.9	405.8	39,996.4	1,934.1	7,331.5	90.9	48,143.3	2,339.9

¹ Included in State or county roads.³ Includes bituminous concrete.² New roads laid out but not improved.

CONNECTICUT

Type	State roads		Town roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
Unimproved earth.....	<i>Miles</i>	<i>Miles</i>	<i>Miles</i> 124.3	<i>Miles</i>	<i>Miles</i> 124.3	<i>Miles</i>
Partly graded and drained earth.....	-----	-----	8,777.7	-----	8,777.7	-----
Earth to definite grade with permanent drainage structures.....	175.4	-----	868.1	1.0	1,043.5	1.0
Gravel.....	334.3	9.7	459.4	36.1	793.7	45.8
Waterbound macadam.....	595.7	31.1	177.0	17.0	772.7	48.1
Surface-treated macadam.....	-----	-----	36.8	1.0	36.8	1.0
Bituminous macadam.....	140.5	34.5	70.4	7.8	210.9	42.3
Sheet asphalt.....	-----	-----	4.0	-----	4.0	-----
Bituminous concrete.....	99.2	1.6	20.4	1.8	119.6	3.4
Portland cement concrete.....	135.4	52.4	37.0	2.4	172.4	54.8
Brick.....	1.4	-----	.8	.2	2.2	.2
Miscellaneous.....	87.4	-----	6.7	4.7	94.1	4.7
Total.....	1,569.3	129.3	10,582.6	72.0	12,151.9	201.3

DELAWARE

Type	State roads		State-aid roads		County roads		All rural roads	
	Total ¹ Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
Unimproved earth.....	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Gravel.....	-----	-----	-----	-----	3,485.9	-----	3,485.9	-----
Waterbound macadam.....	-----	-----	-----	-----	50.0	4.5	50.0	4.5
Surface-treated macadam.....	-----	-----	-----	-----	15.8	2.8	15.8	2.8
Bituminous macadam.....	-----	-----	-----	-----	150.0	3.0	150.0	3.0
Bituminous concrete.....	2.4	-----	11.4	2.0	18.0	4.2	31.8	6.2
Portland cement concrete.....	.7	-----	-----	-----	20.0	5.2	20.7	5.2
Brick.....	124.9	33.4	44.4	23.2	2.5	2.0	171.8	58.6
Total.....	6.4	.2	-----	-----	.5	-----	6.9	.2
Total.....	134.4	33.6	55.8	25.2	3,742.7	21.7	3,932.9	80.5

¹ Includes only mileage actually constructed and taken over by State.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

FLORIDA

Type	State roads		County roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	371.0	-----	16,204.5	¹ 10.0	16,575.5	¹ 10.0
Partly graded and drained earth.....	385.5	-----	3,124.0	225.5	3,509.5	225.5
Earth to definite grade with permanent drainage structures.....	120.0	-----	1,000.0	-----	1,120.0	-----
Sand-clay.....	190.0	47.0	2,142.6	174.7	2,332.6	221.7
Gravel.....	200.0	-----	1,427.4	78.0	1,627.4	78.0
Waterbound macadam.....	-----	-----	686.5	83.0	686.5	83.0
Surface-treated macadam.....	122.0	-----	482.5	71.0	604.5	71.0
Bituminous macadam.....	74.0	-----	26.8	26.8	100.8	26.8
Sheet asphalt.....	90.0	-----	384.0	-----	474.0	-----
Portland Cement concrete.....	-----	-----	20.5	-----	20.5	-----
Brick.....	158.0	-----	381.0	8.0	539.0	8.0
Miscellaneous.....	-----	-----	53.0	53.0	53.0	53.0
Total.....	1,710.5	47.0	25,932.8	730.0	27,643.3	777.0

¹ New roads laid out but not improved.

GEORGIA

Type	State roads		County roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	1,472.3	3.0	47,125.7	¹ 369.7	48,598.0	¹ 372.7
Partly graded and drained earth.....	1,468.0	-----	24,157.1	471.6	25,625.1	471.6
Earth to definite grade with permanent drainage structures.....	950.0	162.3	1,400.0	100.0	2,350.0	262.3
Sand-clay.....	1,584.9	310.6	12,543.2	676.4	14,128.1	987.0
Gravel.....	173.3	64.5	3,063.0	183.8	3,236.3	248.3
Waterbound macadam.....	-----	-----	189.5	18.5	189.5	18.5
Surface-treated macadam.....	-----	-----	30.0	-----	30.0	-----
Bituminous macadam.....	64.7	30.5	189.0	12.6	253.7	43.1
Sheet asphalt.....	13.8	3.6	2.9	2.9	16.7	6.5
Bituminous concrete.....	1.6	1.6	77.7	8.0	79.3	9.6
Portland cement concrete.....	118.7	49.1	280.9	6.4	399.6	55.5
Brick.....	0.5	-----	-----	-----	0.5	-----
Miscellaneous.....	5.1	-----	0.1	-----	5.2	-----
Total.....	5,852.9	625.2	89,059.1	1,849.9	94,912.0	2,475.1

¹ New roads laid out but not improved.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

IDAHO

Type	State roads		County roads		Forest roads		All rural roads	
	Total Jan. 1, 1922 ¹	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....			7,176.4	² 17.0	2,517.0		9,693.4	³ 17.0
Partly graded and drained earth.....			17,612.3	589.5	245.6		17,857.9	589.5
Earth to definite grade with permanent drainage structures.....	444.9	40.9			121.0	44.6	565.9	85.5
Sand-clay.....	25.1		192.1	35.7			217.2	35.7
Gravel.....	598.5	163.5	1,928.2	494.8	9.8	9.8	2,536.5	668.1
Waterbound macadam.....			73.2	37.7			73.2	37.7
Surface-treated macadam.....	11.6	6.5	44.7	8.6			56.3	15.1
Bituminous macadam.....			21.7	6.0			21.7	6.0
Sheet asphalt.....			11.2	11.2			11.2	11.2
Bituminous concrete.....	17.1	9.9	22.3	1.4			39.4	11.3
Portland cement concrete.....	7.0	5.7	5.9				12.9	5.7
Miscellaneous.....			13.5	7.3			13.5	7.3
Total.....	1,104.2	226.5	27,101.5	1,209.2	2,893.4	54.4	31,099.1	1,490.1

¹ Includes only mileage constructed and taken over by State.² Includes 1,895.8 miles on State system but not taken over by State.³ New roads laid out but not improved.

ILLINOIS

Type	State roads		State-aid roads		County roads		All rural roads	
	Total Jan. 1, 1922 ¹	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....					36,108.5		36,108.5	
Partly graded and drained earth.....					46,339.8	315.0	46,339.8	315.0
Earth to definite grade with permanent drainage structures.....	312.1	194.0	592.4	12.7	1,500.0		2,404.5	206.7
Sand-clay.....					84.0		84.0	
Gravel.....	8.9	0.4	62.2	15.8	6,676.0	500.3	6,747.1	516.5
Waterbound macadam.....			15.0		2,603.2	54.0	2,618.2	54.0
Surface-treated macadam.....			12.9		125.3	60.0	138.2	60.0
Bituminous macadam.....	3.3	2.4	25.2		34.0	10.7	62.5	13.1
Bituminous concrete.....	14.8		28.6	0.7	12.4	1.0	55.8	1.7
Portland cement concrete.....	765.3	281.7	626.1	106.3	142.7	11.0	1,534.1	399.0
Brick.....	8.8	3.0	116.1	2.8	100.6	11.0	225.5	16.8
Wood block.....					7.8		7.8	
Total.....	1,113.2	481.5	1,478.5	138.3	93,734.3	963.0	96,326.0	1,582.8

¹ Includes only mileage actually constructed and taken over by State.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

INDIANA

Type	State roads		County and town- ship		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	30.7		8,574.5		8,605.2	
Partly graded and drained earth.....			27,641.4		27,641.4	
Earth to definite grade with permanent drainage structures.....	142.8				142.8	
Gravel.....	1,828.3		28,972.5	1,122.4	30,800.8	1,122.4
Waterbound macadam.....	812.5		6,104.5	275.9	6,917.0	275.9
Surface-treated macadam.....	62.1		886.6	30.0	948.7	30.0
Bituminous macadam.....	29.6		275.7	10.8	305.3	10.8
Sheet asphalt.....			20.0	8.0	20.0	8.0
Bituminous concrete.....	15.1	3.9	23.0	3.0	38.1	6.9
Portland cement concrete.....	228.8	78.8	424.9	119.0	653.7	197.8
Brick.....	41.0		132.4	19.2	173.4	19.2
Total.....	3,190.9	82.7	73,055.5	1,588.3	76,246.4	1,671.0

IOWA

Type	State roads		County roads		Township roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....					6,784.3		6,784.3	
Partly graded and drained earth.....	3,775.6		8,496.0	291.8	80,000.0		92,271.6	291.8
Earth to definite grade with perma- nent drainage struc- tures.....	1,447.8	1,069.5	994.2				2,442.0	1,069.5
Gravel.....	1,155.6	404.0	1,189.9	394.7			2,345.5	798.7
Surface-treated macadam.....	1.0						1.0	
Portland cement concrete.....	185.3	151.5	2.0				187.3	151.5
Brick.....	50.7	16.6					50.7	16.6
Total.....	6,616.0	1,641.6	10,682.1	686.5	86,784.3		104,082.4	2,328.1
Total additional mile- age within towns of 2,500 and less.....							5,029.9	
							109,112.3	

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

KANSAS

Type	All rural roads ¹	
	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	28,772.9	² 0.5
Partly graded and drained earth.....	98,678.4	2,488.1
Sand-clay.....	297.1	74.6
Gravel.....	382.6	90.1
Waterbound macadam.....	100.3	6.5
Surface-treated macadam.....	63.3	15.5
Bituminous macadam.....	32.3	23.3
Bituminous concrete.....	0.3	-----
Portland cement concrete.....	163.0	115.5
Brick.....	57.8	38.9
Miscellaneous.....	3.8	-----
Total.....	128,551.8	2,853.0

¹ No State highway system established in 1921.² New roads laid out but not improved.

KENTUCKY

Type	State roads		County roads		All rural roads	
	Total, Jan. 1, 1922 ¹	Built, 1921	Total, Jan. 1, 1922	Built, 1921	Total, Jan. 1, 1922	Built, 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	105.3	-----	37,372.3	² 9.5	37,477.6	² 9.5
Partly graded and drained earth.....	-----	-----	15,607.2	197.0	15,607.2	197.0
Earth to definite grade, with permanent drainage structures.....	183.1	179.0	-----	-----	183.1	179.0
Sand-clay.....	-----	-----	70.0	-----	70.0	-----
Gravel.....	56.1	19.1	3,066.0	235.5	3,122.1	254.6
Waterbound macadam.....	133.4	58.5	10,490.8	221.8	10,624.2	280.3
Surface-treated macadam.....	235.3	17.0	1,178.3	61.5	1,413.6	78.5
Bituminous macadam.....	8.7	4.2	50.1	4.0	58.8	8.2
Sheet asphalt.....	-----	-----	45.3	10.5	45.3	10.5
Bituminous concrete.....	-----	-----	10.0	-----	10.0	-----
Portland cement concrete.....	23.9	6.4	1.3	1.1	25.2	7.5
Brick.....	3.9	3.9	1.1	-----	5.0	3.9
Wood block.....	-----	-----	4.8	-----	4.8	-----
Miscellaneous.....	43.2	38.2	14.3	2.0	57.5	40.2
Total.....	792.9	326.3	67,911.5	742.9	68,704.4	1,069.2

¹ Includes only mileage actually taken over by the State at close of 1921.² New roads laid out but not improved.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

LOUISIANA

Type	State roads		Parish roads		All rural roads	
	Total, Jan. 1, 1922 ¹	Built, 1921	Total, Jan. 1, 1922	Built, 1921	Total, Jan. 1, 1922	Built, 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	-----	-----	30,315.8	-----	30,315.8	-----
Partly graded and drained earth.....	-----	-----	5,276.4	528.2	5,276.4	528.2
Earth to definite grade, with permanent drainage structures.....	8.0	-----	1,432.0	150.0	1,440.0	150.0
Sand-clay.....	-----	-----	147.6	87.8	147.6	87.8
Gravel.....	² 558.1	382.4	1,890.6	350.3	2,448.7	732.7
Surface-treated macadam.....	-----	-----	5.7	5.7	5.7	5.7
Bituminous macadam.....	1.6	1.6	6.8	-----	8.4	1.6
Bituminous concrete.....	-----	-----	3.0	-----	3.0	-----
Portland cement concrete.....	-----	-----	7.3	-----	7.3	-----
Brick.....	-----	-----	18.0	-----	18.0	-----
Miscellaneous.....	-----	-----	132.5	13.5	132.5	13.5
Total.....	567.7	384.0	39,235.7	1,135.5	39,803.4	1,519.5

¹ Includes only mileage actually constructed and taken over by State.² Includes 28.2 miles of State-aid road.

MAINE

Type	State roads		State-aid roads		Town roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth....	557.7	-----	1,833.6	-----	14,161.2	¹ 16.9	16,552.5	¹ 16.9
Partly graded and drained earth.....	-----	-----	-----	-----	1,968.5	19.3	1,968.5	19.3
Earth to definite grade with permanent drainage structures.....	-----	-----	8.9	-----	-----	-----	8.9	-----
Sand-clay.....	7.3	-----	0.9	-----	72.8	6.2	81.0	6.2
Gravel.....	694.8	57.0	1,465.8	201.2	501.1	28.0	2,661.7	236.2
Waterbound macadam.....	7.5	-----	5.9	-----	10.5	0.8	23.9	0.8
Surface-treated macadam.....	-----	-----	-----	-----	20.2	-----	20.2	-----
Bituminous macadam.....	114.0	29.5	6.1	0.3	3.7	0.2	123.8	30.0
Sheet asphalt.....	-----	-----	-----	-----	1.5	1.5	1.5	1.5
Bituminous concrete.....	-----	-----	-----	-----	3.0	-----	3.0	-----
Portland cement concrete.....	35.7	14.6	-----	-----	1.2	0.3	36.9	14.9
Stone block.....	-----	-----	-----	-----	0.1	-----	0.1	-----
Miscellaneous.....	-----	-----	-----	-----	1.0	1.0	1.0	1.0
Total.....	1,417.0	101.1	3,321.2	201.5	16,744.8	74.2	21,483.0	376.8

¹ New roads laid out but not improved.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

MARYLAND

Type	State roads		County roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....			9,865.8		9,865.8	
Partly graded and drained earth.....			1,243.3	106.3	1,243.3	106.3
Gravel.....	197.6	39.7	724.4	48.0	922.0	87.7
Waterbound macadam.....			398.5	6.8	398.5	6.8
Surface-treated macadam.....	945.2	21.5	240.4	5.5	1,185.6	27.0
Sheet asphalt.....	21.1	6.3			21.1	6.3
Bituminous concrete.....	44.1	19.9			44.1	19.9
Portland cement concrete.....	467.6	120.3	25.3	3.0	492.9	123.3
Brick.....	1.7				1.7	
Miscellaneous.....	73.5		523.7	19.5	597.2	19.5
Total.....	1,750.8	207.7	13,021.4	189.1	14,772.2	396.8

MASSACHUSETTS

Type	State roads		State-aid roads		Town roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922 ¹	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....					4,218.8		4,218.8	
Partly graded and drained earth.....					8,059.0	2.2	8,059.0	2.2
Earth to definite grade with permanent drainage structures.....	12.7		2.7		2.7		15.4	
Sand-clay.....	2.7				5.5		8.2	
Gravel.....	174.3	0.7	570.0	41.5	2,928.7	35.4	3,103.0	77.6
Waterbound macadam.....	63.1				1,099.9	5.3	1,163.0	5.3
Surface-treated macadam.....	364.6		156.0	2.0	156.0		520.6	2.0
Bituminous macadam.....	555.6	56.0	170.4	42.8	712.9	52.6	1,268.5	151.4
Sheet asphalt.....			0.4	0.4	0.4		0.4	0.4
Bituminous concrete.....	179.6	15.8	69.1	10.8	100.4	11.6	280.0	38.2
Portland cement concrete.....	96.7	38.1	12.7	1.9	32.2	2.1	128.9	42.1
Brick.....	0.1				6.7		6.8	
Wood block.....	0.1				1.3		1.4	
Stone block.....	0.7		0.1		7.0		7.7	
Miscellaneous.....					86.0	1.7	86.0	1.7
Total.....	1,450.2	110.6	981.4	99.4	17,417.5	110.9	18,867.7	320.9

¹ Does not include total mileage of town roads which have been constructed with State aid. These roads remain as town roads and are included under column "Town roads."

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

MICHIGAN

Type	State trunk lines		County roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	1,934.9	101.7	34,591.4	21.5	34,591.4	123.2
Partly graded and drained earth.....			23,495.7		25,430.6	
Earth to definite grade with permanent drainage structures.....	75.0				75.0	
Sand-clay.....			77.6	77.6	77.6	77.6
Gravel.....	2,624.0	291.4	10,560.6	1,437.9	13,184.6	1,729.3
Waterbound macadam.....	643.3	50.8	1,071.6	56.5	1,714.9	107.3
Surface-treated macadam.....			236.4	36.8	236.4	36.8
Bituminous macadam.....	78.4	25.2	93.8	10.0	172.2	35.2
Bituminous concrete.....	103.6	24.6	120.5	24.8	224.1	49.4
Portland cement concrete.....	429.4	143.3	864.5	114.4	1,293.9	257.7
Brick.....	6.7	0.4	6.8	1.2	13.5	1.6
Miscellaneous.....	21.5		247.1		268.6	
Total.....	5,916.8	637.4	71,366.0	1,780.7	77,282.8	2,418.1

MINNESOTA

Type	State trunk lines		State-aid roads		County roads		Township roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	452.4		2,707.6		4,399.1	135.0	16,884.3	230.2	24,443.4	265.2
Partly graded and drained earth.....	1,537.9		271.1	271.1	3,157.2	559.8	57,054.5	4,345.9	62,020.7	5,176.8
Earth to definite grade with permanent drainage struc- tures.....	602.9	262.9	2,396.9	1,037.0	160.0		575.0		3,734.8	1,299.9
Sand-clay.....	290.8	1.8	140.1		229.5	11.5	3,314.8	118.0	3,975.2	131.3
Gravel.....	3,707.5	130.5	2,655.4	967.3	2,671.8	229.1	3,153.2	222.4	12,187.9	1,549.3
Waterbound macadam.....	15.3		74.2		24.1	0.7	55.0		168.6	0.7
Surface-treated macadam.....					67.4		7.4		74.8	
Bituminous macadam.....	13.2						6.3	3.0	19.5	3.0
Sheet asphalt.....	1.1						8.0	1.0	9.1	1.0
Bituminous concrete.....	48.9	3.2	29.2	18.0	20.7	19.1	0.8		99.6	40.3
Portland cement concrete.....	215.6	24.9	72.6	68.0	12.6	6.8	49.1	5.0	349.9	104.7
Brick.....	10.1								10.1	
Wood block.....	9.6								9.6	
Miscellaneous.....								1.0		1.0
Total.....	6,905.3	423.3	8,347.1	2,361.4	10,742.4	862.0	81,108.4	4,926.5	107,103.2	8,573.2

¹ New roads laid out but not improved.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

MISSISSIPPI

Type	State roads		County roads		All rural roads	
	Total Jan. 1, 1922 ¹	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	Miles	Miles	Miles	Miles	Miles	Miles
Unimproved earth.....			33,306.2	² 0.5	33,306.2	² 0.5
Partly graded and drained earth.....			13,176.9	769.9	13,176.9	769.9
Earth to definite grade with permanent drainage structures.....	207.5	139.2	650.0		857.5	139.2
Sand-clay.....			364.3	82.3	364.3	82.3
Gravel.....	338.5	221.1	4,678.4	977.2	5,016.9	1,198.3
Waterbound macadam.....	4.3	4.3	102.2	59.0	106.5	63.3
Surface-treated macadam.....			82.1	1.5	82.1	1.5
Bituminous macadam.....			7.1		7.1	
Bituminous concrete.....			16.0	5.5	16.0	5.5
Portland cement concrete.....	17.4	13.6	120.3	16.4	137.7	30.0
Brick.....	5.0	5.0	1.1	0.1	6.1	5.1
Miscellaneous.....	4.2	4.2	3.0		7.2	4.2
Total.....	576.9	387.4	52,507.6	1,912.4	53,084.5	2,299.8

¹ Includes only mileage actually constructed and taken over by State.² New roads laid out but not improved.

MISSOURI

Type	State roads		County roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	Miles	Miles	Miles	Miles	Miles	Miles
Unimproved earth.....			52,818.3		52,818.3	
Partly graded and drained earth.....	5,856.7		43,000.0	139.8	48,856.7	139.8
Earth to definite grade with permanent drainage structures.....	965.6	296.5	1,000.0		1,965.6	296.5
Sand-clay.....			1,755.3		1,755.3	
Gravel.....	578.2	256.1	3,932.0	66.0	4,510.2	322.1
Waterbound macadam.....	115.4	6.8	1,213.8	7.0	1,329.2	13.8
Surface-treated macadam.....			56.0		56.0	
Bituminous macadam.....	25.0	8.1	79.2	17.0	104.2	25.1
Sheet asphalt.....			1.0	1.0	1.0	1.0
Bituminous concrete.....	5.8	0.4	5.6	3.3	11.4	3.7
Portland cement concrete.....	92.3	71.0	10.8		103.1	70.5
Brick.....	3.4	3.4	6.5		9.9	3.4
Total.....	7,642.4	642.3	103,878.5	233.6	111,520.9	875.9

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

MONTANA

Type	State roads		County roads		Major forest roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	187.5	-----	35,264.8	110.0	-----	-----	35,452.3	110.0
Partly graded and drained earth.....	1,608.1	148.7	25,361.7	973.1	-----	-----	26,969.8	1,122.8
Earth to definite grade with permanent drainage structures.....	106.7	100.0	200.0	-----	230.7	29.5	537.4	129.5
Sand-clay.....	-----	-----	15.0	-----	-----	-----	15.0	-----
Gravel.....	620.8	244.8	1,095.5	30.6	-----	-----	1,716.3	275.4
Waterbound mac- adam.....	5.0	5.0	-----	-----	-----	-----	5.0	5.0
Bituminous macadam.....	-----	-----	2.0	-----	-----	-----	2.0	-----
Portland cement con- crete.....	24.7	16.3	7.0	4.8	-----	-----	31.7	21.1
Miscellaneous.....	-----	-----	2.0	0.5	-----	-----	2.0	0.5
Total.....	2,552.8	515.8	61,948.0	1,019.0	230.7	29.5	64,731.5	1,564.3

¹ New roads laid out but not improved.

NEBRASKA

Type	State roads		County, township, and district roads		All rural roads	
	Total, Jan. 1, 1922	Built, 1921	Total, Jan. 1, 1922	Built, 1921	Total, Jan. 1, 1922	Built, 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	906.0	139.7	53,354.3	1150.0	54,260.3	1189.7
Partly graded and drained earth.....	1,800.0	360.8	26,000.0	5,085.3	27,800.0	5,446.1
Earth to definite grade with permanent drainage structures.....	2,000.0	500.0	2,000.0	100.0	4,000.0	600.0
Sand-clay.....	129.6	68.4	146.8	50.6	276.4	119.0
Gravel.....	107.9	43.8	43.5	12.0	151.4	55.8
Waterbound macadam.....	-----	-----	.7	-----	.7	-----
Surface-treated macadam.....	23.5	-----	2.0	-----	23.5	-----
Bituminous concrete.....	.5	-----	-----	-----	2.5	-----
Portland cement concrete.....	11.6	2.7	1.8	-----	13.4	2.7
Brick.....	27.3	13.9	.5	-----	27.8	13.9
Total.....	5,006.4	1,029.3	81,549.6	5,397.9	86,556.0	6,427.2

¹ New roads laid out but not improved.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

NEVADA

Type	State roads		County roads		Forest roads		All rural roads	
	Total, Jan. 1, 1922	Built, 1921	Total, Jan. 1, 1922	Built, 1921	Total, Jan. 1, 1922	Built, 1921	Total, Jan. 1, 1922	Built, 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	1,884.5		22,867.3	125.0	660.2		25,412.0	125.0
Partly graded and drained earth.....			305.3	13.0	78.8	3.0	384.6	16.0
Earth to definite grade with permanent drainage structures.....	92.1	9.7					92.1	9.7
Sand-clay.....	10.4						10.4	
Gravel.....	110.8	64.2	15.1	2.0			125.9	66.2
Surface-treated macadam.....			3.6				3.6	
Sheet asphalt.....	.5						.5	
Portland cement concrete.....	28.0	1.8					28.0	1.8
Total.....	2,126.3	75.7	23,191.8	40.0	739.0	3.0	26,057.1	118.7

¹ New roads laid out but not improved.

NEW HAMPSHIRE

Type	State trunk lines		State roads		State-aid roads		Town roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	166.8						10,550.1		10,716.9	
Partly graded and drained earth.....	169.0						1,000.0		1,169.0	
Earth to definite grade with permanent drainage structures.....	15.3	0.4	51.5		120.4	5.2	76.0		263.2	5.6
Gravel.....	730.5	33.4	76.3		470.7	38.8	90.9		1,368.4	72.2
Waterbound macadam.....	27.6	1.0	1.8		36.2	1.1			65.6	2.1
Surface-treated macadam.....	122.6	.2							122.6	.2
Bituminous macadam.....	47.2	3.2			.9		1.6		49.7	3.2
Bituminous concrete.....	27.9	5.5	1.6	1.6		.9			29.5	8.0
Portland cement concrete.....	1.0	.6							1.0	.6
Miscellaneous.....	54.6								54.6	
Total.....	1,362.5	44.3	131.2	1.6	628.2	46.0	11,718.6		13,840.5	91.9

The trunk lines form the main State system; the "State roads" are located practically entirely within the White Mountains.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

NEW JERSEY

Type	State and State-aid roads		County roads		Township roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	3.3	-----	48.1	-----	5,395.7	¹ 0.3	5,447.1	¹ 0.3
Partly graded and drained earth.....	7.3	-----	6.8	-----	2,140.1	5.5	2,154.2	5.5
Earth to definite grade with permanent drainage structures.....	1.3	4.7	4.7	-----	-----	-----	6.0	4.7
Sand-clay.....	-----	3.0	-----	-----	12.0	-----	12.0	-----
Gravel.....	163.1	.3	842.0	11.1	2,429.4	93.6	3,434.5	107.7
Waterbound macadam.....	57.6	-----	631.9	-----	420.8	18.8	1,110.3	19.1
Surface-treated macadam.....	148.1	4.7	333.7	-----	123.1	2.7	604.9	2.7
Bituminous macadam.....	23.8	13.2	122.9	4.1	46.1	9.1	192.8	17.9
Sheet asphalt.....	9.6	5.0	58.3	11.1	6.3	5.5	74.2	29.8
Bituminous concrete.....	150.4	79.9	517.9	37.0	46.5	1.5	714.8	43.5
Portland cement concrete.....	140.8	-----	85.9	15.7	11.5	-----	238.2	95.6
Brick.....	4.5	-----	8.4	-----	-----	-----	12.9	-----
Wood block.....	-----	1.5	2.1	-----	-----	-----	2.1	-----
Stone block.....	2.5	-----	36.8	4.7	-----	-----	39.3	6.2
Miscellaneous.....	-----	-----	.6	.6	22.5	2.7	23.1	3.3
Total.....	712.3	112.3	2,700.1	84.3	10,654.0	139.7	14,066.4	336.3

¹ New roads laid out but not improved.

NEW MEXICO

Type	State roads		County roads		Forest roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	4,549.5	-----	35,931.1	¹ 233.7	568.7	¹ 1.4	41,049.3	¹ 235.1
Partly graded and drained earth.....	1,912.9	274.6	296.6	413.3	-----	-----	2,209.5	687.9
Earth to definite grade with permanent drainage structures.....	146.2	100.0	138.5	-----	204.0	64.4	488.7	164.4
Sand-clay.....	88.8	-----	585.2	7.0	-----	-----	674.0	7.0
Gravel.....	862.7	299.4	206.9	55.4	31.0	11.0	1,100.6	365.8
Portland cement concrete.....	26.8	5.7	-----	-----	-----	-----	26.8	5.7
Total.....	7,586.9	679.7	37,158.3	709.4	803.7	76.8	45,548.9	1,465.9

¹ New roads laid out but not improved.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

NEW YORK

Type	State highway system ¹		Town roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Partly graded and drained earth.....	63.5	-----	63,311.6	-----	63,311.6	-----
Gravel.....	307.6	18.5	4,146.7	392.6	4,210.2	392.6
Waterbound macadam.....	2,271.3	105.8	5,116.0	791.8	5,423.6	810.3
Surface-treated macadam.....	3,460.2	258.7	1,328.6	15.5	3,599.9	121.3
Bituminous macadam.....	-----	-----	280.1	49.7	3,740.3	308.4
Sheet asphalt.....	139.9	9.5	1.1	-----	1.1	-----
Bituminous concrete.....	850.4	349.6	18.2	55.6	158.1	9.5
Portland cement concrete.....	169.6	1.0	102.6	-----	953.0	405.2
Brick.....	.3	-----	62.4	-----	232.0	1.0
Wood block.....	2.1	-----	1.6	-----	.3	-----
Stone block.....	234.3	3.4	9.6	-----	3.7	-----
Miscellaneous.....	-----	-----	-----	-----	243.9	3.4
Total.....	7,499.2	746.5	74,378.5	1,305.2	81,877.7	2,051.7

¹ Includes only that portion of the State system as designated by law in 1921 which has been actually improved and taken over for State maintenance.

NORTH CAROLINA

Type	State roads		County roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	960.3	-----	37,194.2	111.5	38,154.5	111.5
Partly graded and drained earth.....	1,520.9	-----	11,673.2	1770.7	13,194.1	770.7
Earth to definite grade with permanent drainage structures.....	100.0	31.0	-----	-----	100.0	31.0
Sand-clay.....	2,588.2	260.4	9,610.1	996.3	12,198.3	1,256.7
Gravel.....	605.6	102.7	2,726.3	567.3	3,331.9	670.0
Waterbound macadam.....	141.3	18.6	275.2	2.0	416.5	20.6
Surface-treated macadam.....	69.5	7.8	119.8	32.0	189.3	39.8
Bituminous macadam.....	89.6	9.7	35.0	3.0	124.6	12.7
Sheet asphalt.....	76.0	10.4	12.0	-----	88.0	10.4
Bituminous concrete.....	186.5	55.6	20.6	11.6	207.1	67.2
Portland cement concrete.....	117.4	50.9	20.0	9.5	137.4	60.4
Brick.....	38.9	-----	19.3	7.5	58.2	7.5
Stone block.....	-----	-----	.5	-----	.5	-----
Miscellaneous.....	3.0	3.0	.5	.5	3.5	3.5
Total.....	6,497.2	550.1	61,706.7	2,511.9	68,203.9	3,062.0

¹ New roads laid out but not improved.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

NORTH DAKOTA

Type	State roads		County roads		Township roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	3, 284. 8	-----	633. 5	¹ 50. 0	62, 576. 6	¹ 1, 650. 7	66, 494. 9	¹ 1, 700. 7
Partly graded and drained earth.....	1, 568. 7	302. 4	977. 5	195. 5	36, 434. 6	3, 618. 0	38, 980. 8	4, 115. 9
Earth to definite grade with permanent drainage structures.....	337. 6	110. 0	-----	-----	-----	-----	337. 6	110. 0
Sand-clay.....	14. 0	4. 0	-----	-----	-----	-----	14. 0	4. 0
Gravel.....	175. 1	51. 7	429. 3	13. 0	91. 0	26. 8	695. 4	91. 5
Portland cement concrete.....	. 5	-----	-----	-----	-----	-----	. 5	-----
Total.....	5, 380. 7	468. 1	2, 040. 3	258. 5	99, 102. 2	5, 295. 5	106, 523. 2	6, 022. 1

¹ New roads laid out but not improved.

OHIO

Type	State roads		County roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	1, 039. 3	¹ 4. 9	28, 328. 9	¹ 6. 0	29, 368. 2	¹ 10. 9
Partly graded and drained earth.....	945. 0	40. 7	17, 532. 9	77. 7	18, 477. 9	118. 4
Earth to definite grade with permanent drainage structures.....	21. 6	21. 6	283. 8	-----	305. 4	21. 6
Sand-clay.....	-----	-----	501. 0	-----	501. 0	-----
Gravel.....	1, 746. 6	31. 8	13, 184. 1	452. 0	14, 930. 7	483. 8
Waterbound macadam.....	2, 728. 7	65. 8	11, 650. 9	348. 3	14, 379. 6	414. 1
Surface-treated macadam.....	908. 4	1. 6	951. 8	75. 8	1, 860. 2	77. 4
Bituminous macadam.....	801. 6	135. 6	516. 5	60. 1	1, 318. 1	195. 7
Sheet asphalt.....	5. 2	2. 2	4. 6	1. 6	9. 8	3. 8
Bituminous concrete.....	155. 7	56. 9	25. 2	11. 7	180. 9	68. 6
Portland cement concrete.....	745. 1	194. 4	314. 8	79. 1	1, 059. 9	273. 5
Brick.....	1, 038. 7	134. 7	276. 9	34. 0	1, 315. 6	168. 7
Miscellaneous.....	96. 6	22. 7	414. 7	20. 2	511. 3	42. 9
Total.....	10, 232. 5	712. 9	73, 986. 1	1, 166. 5	84, 218. 6	1, 879. 4

¹ New roads laid out but not improved.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

OKLAHOMA

Type	State roads		County roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	5,814.7		185,967.6		191,782.3	
Partly graded and drained earth.....	7,386.1	1,103.5	30,633.3	1,771.6	38,019.4	2,875.1
Earth to definite grade with permanent drainage structures.....	1,000.0	300.0	1,000.0	200.0	2,000.0	500.0
Sand-clay.....	217.5	67.5	1,622.8	88.1	1,840.3	155.6
Gravel.....	222.8	142.8	268.1	57.4	490.9	200.2
Waterbound macadam.....			7.2	2.1	7.2	2.1
Surface-treated macadam.....			3.5		3.5	
Bituminous macadam.....			1.5		1.5	
Bituminous concrete.....	17.6	17.6	7.7	3.1	25.3	20.7
Portland cement concrete.....	29.8	29.4	51.9	19.0	81.7	48.4
Brick.....			1.4	1.0	1.4	1.0
Miscellaneous.....			9.0	5.0	9.0	5.0
Total.....	14,688.5	1,660.8	119,574.0	2,147.3	134,262.5	3,808.1

¹ Includes about 26,000 miles of section lines declared public highways by law but not generally used.

OREGON

Type	State roads		County roads		Forest roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	2,162.0		19,504.0	¹ 25.0			21,666.0	¹ 25.0
Partly graded and drained earth.....	200.0	65.0	6,281.5	572.1			6,481.5	637.1
Earth to definite grade with perman- ent drainage struc- tures.....	229.0	150.0	8,904.0		144.0	54.5	9,277.0	204.5
Gravel.....	751.8	433.8	5,429.9	541.7	48.7	27.1	6,230.4	1,002.6
Waterbound mac- adam.....			817.5	87.8	22.2	22.2	839.7	110.0
Bituminous macadam.....			35.0	1.5			35.0	1.5
Bituminous concrete.....	566.8	124.8	179.6	21.8			746.4	146.6
Portland cement con- crete.....	101.8	51.0	37.4	15.6			139.2	66.6
Brick.....			0.1				0.1	
Wood block.....			0.4				0.4	
Miscellaneous.....			59.0	6.0			59.0	6.0
Total.....	4,011.4	824.6	41,248.4	1,271.5	214.9	103.8	45,474.7	2,199.9

¹ New roads laid out but not improved.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

PENNSYLVANIA

Type	State and State-aid roads		County roads		Township roads		All rural roads	
	Total Jan. 1, 1922 ¹	Built 1921 ²	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....					71,925.7		71,925.7	
Partly graded and drained earth.....	4,062.3				82.0	82.0	4,144.3	82.0
Earth to definite grade with permanent drainage structures.....	1,000.0						1,000.0	
Sand-clay.....					0.5	0.5	0.5	0.5
Gravel.....	321.8				72.6	72.6	394.4	72.6
Waterbound macadam.....			23.0		673.2	101.2	696.2	101.2
Surface-treated macadam.....	2,653.2	1.3	65.7				2,718.9	1.3
Bituminous macadam.....	186.3	13.4	13.0	5.3	4.2	4.2	203.5	22.9
Sheet asphalt.....	135.6	52.0			1.2	1.2	136.8	53.2
Bituminous concrete.....	173.3	19.3	319.8	46.0			483.1	65.3
Portland cement concrete.....	1,051.0	572.4	94.7	26.6	3.6	3.6	1,149.3	602.6
Brick.....	148.6	20.6	172.8	0.4	4.2	3.8	325.6	24.8
Stone block.....	1.3						1.3	
Miscellaneous.....	³ 5.1				⁴ 7,796.3		7,801.4	
Total.....	9,738.5	679.0	689.0	78.3	80,563.5	269.1	90,991.0	1,026.4

¹ Includes 419.8 miles of State-aid roads.² Includes 95.2 miles of State-aid and 96.4 miles of county-aid roads.³ Bridges.⁴ Township roads on which some improvements of more or less indeterminate character have been made, mostly grading and graveling.

RHODE ISLAND

Type	State roads		Town roads		All rural roads	
	Total Jan. 1, 1922 ¹	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....			26.6		26.6	
Partly graded and drained earth.....			1,359.5		1,359.5	
Earth to definite grade with permanent drainage structures.....			134.4		134.4	
Gravel.....	2.4	2.4	142.2	32.0	144.6	34.4
Waterbound macadam.....			73.9		73.9	
Surface-treated macadam.....	155.3	1.6	102.2		257.5	1.6
Bituminous macadam.....	61.9	7.5	77.8	18.8	139.7	26.3
Sheet asphalt.....	1.6				1.6	
Bituminous concrete.....	121.6	25.3	5.6	1.5	127.2	26.8
Portland cement concrete.....	5.5	2.3	.8		6.3	2.3
Stone block.....			2.2	.1	2.2	.1
Total.....	348.3	39.1	1,925.2	52.4	2,273.5	91.5

¹ Includes only mileage actually constructed and taken over by State.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

SOUTH CAROLINA

Type	State roads		County roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	1,352.6		48,041.7		49,394.3	
Partly graded and drained earth.....	208.5	4.0	5,339.0	779.0	5,547.5	783.0
Sand-clay.....	1,407.5	718.9	4,425.5	1,127.5	5,533.0	1,846.4
Gravel.....	307.2	69.2	666.0	112.8	973.2	182.0
Waterbound macadam.....	.7		14.1		14.8	
Bituminous macadam.....	5.9				5.9	
Bituminous concrete.....	21.5	1.0			21.5	1.0
Portland cement concrete.....	54.5	31.1			54.5	31.1
Brick.....	1.0				1.0	
Stone block.....	3.8				3.8	
Total.....	3,363.2	824.2	58,486.3	2,019.3	61,849.5	2,843.5

SOUTH DAKOTA

Type	State roads		County roads		Township roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	1,189.4	139.8	4,479.9	1,111.5	78,907.1	1,945.1	84,476.4	12,096.4
Partly graded and drained earth.....	2,046.4	384.4	9,349.0	2,415.3	15,380.0	5,561.2	26,775.4	8,360.9
Earth to definite grade with permanent drainage structures.....	2,350.4	200.0	1,335.0				3,685.4	200.0
Sand-clay.....	8.5		14.0		3.4		25.9	
Gravel.....	330.5	163.7	128.8	81.1	58.5	35.5	517.8	230.3
Waterbound macadam.....	4.2	4.2					4.2	4.2
Total.....	5,929.4	792.1	15,306.7	2,607.9	94,249.0	7,541.8	115,485.1	10,941.5

¹ New roads laid out but not improved.

TENNESSEE

Type	State roads		County roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	569.3		39,768.5	1,173.5	40,337.8	1,173.5
Partly graded and drained earth.....	1,160.9	156.0	11,168.9	1,009.0	12,329.8	1,165.0
Gravel.....	942.6	29.7	4,363.4	254.4	5,306.0	284.1
Waterbound macadam.....	921.7	14.3	3,063.5	250.3	3,985.2	264.6
Surface-treated macadam.....	165.2		271.2	63.6	436.4	
Bituminous macadam.....	59.8	59.8	2.0	1.0	61.8	60.8
Sheet asphalt.....			5.0		5.0	
Bituminous concrete.....	7.4	7.4	18.5	1.5	25.9	8.9
Portland cement concrete.....	21.6	13.4	14.3		35.9	13.4
Wood block.....			1.0		1.0	
Miscellaneous.....	20.4	20.4	0.8		21.2	20.4
Total.....	3,868.9	301.0	58,677.1	1,753.3	62,546.0	2,054.3

¹ New roads laid out but not improved.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

TEXAS

Type	State roads		County roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	1,991.0	¹ 10.2	89,084.2	¹ 298.9	91,075.2	¹ 309.1
Partly graded and drained earth.....	8,063.1	1,433.4	50,676.6	5,692.0	58,739.7	7,125.4
Earth to definite grade with permanent drainage structures.....	425.0	200.0	2,562.0	300.0	2,987.0	500.0
Sand-clay.....	589.4	185.4	2,174.0	379.8	2,763.4	565.2
Gravel.....	3,719.1	1,180.1	7,071.0	1,072.5	10,790.1	2,252.6
Waterbound macadam.....	97.5	11.5	241.7	25.8	339.2	37.3
Surface-treated macadam.....	285.2	47.7	88.9	-----	374.1	47.7
Bituminous macadam.....	68.3	35.6	22.0	2.2	90.3	37.8
Sheet asphalt.....	25.0	13.9	18.4	-----	43.4	13.9
Bituminous concrete.....	32.5	5.7	44.1	6.5	76.6	12.2
Portland cement concrete.....	138.7	84.4	11.9	4.3	150.6	88.7
Brick.....	-----	-----	3.0	-----	3.0	-----
Miscellaneous.....	174.8	106.3	77.4	9.5	252.2	115.8
Total.....	15,609.6	3,314.2	152,075.2	7,791.5	167,684.8	11,105.7

¹ New roads laid out but not improved.

UTAH

Type	State roads		County roads		Forest roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	100.0	-----	11,695.2	¹ 6.5	1,738.2	-----	13,533.4	¹ 6.5
Partly graded and drained earth.....	1,279.9	44.3	3,366.5	668.4	113.0	19.8	4,759.4	732.5
Earth to definite grade with perma- nent drainage structures.....	888.0	50.0	1,120.0	-----	202.0	20.0	2,210.0	70.0
Sand-clay.....	-----	-----	697.6	3.0	-----	-----	697.6	3.0
Gravel.....	400.9	71.7	1,230.1	127.0	-----	-----	1,631.0	198.7
Waterbound mac- adam.....	-----	-----	12.0	2.0	-----	-----	12.0	2.0
Surface-treated mac- adam.....	-----	-----	3.6	.8	-----	-----	3.6	.8
Bituminous macadam.....	-----	-----	7.2	-----	-----	-----	7.2	-----
Sheet asphalt.....	1.7	-----	-----	-----	-----	-----	1.7	-----
Bituminous concrete.....	21.4	2.6	17.7	3.0	-----	-----	39.1	5.6
Portland cement con- crete.....	106.1	13.6	45.7	5.3	-----	-----	151.8	18.9
Total.....	2,798.0	182.2	18,195.6	816.0	2,053.2	39.8	23,046.8	1,038.0

¹ New roads laid out but not improved.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

VERMONT

Type	State roads		Town roads		All rural roads	
	Total, Jan. 1, 1922	Built, 1921	Total, Jan. 1, 1922	Built, 1921	Total, Jan. 1, 1922	Built, 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	304.0	-----	5,060.0	-----	5,364.0	-----
Partly graded and drained earth.....	852.0	-----	3,181.0	60.5	4,033.0	60.5
Earth to definite grade with permanent drainage structures.....	1,181.3	-----	554.0	-----	1,735.3	-----
Gravel.....	1,905.2	128.5	1,613.0	77.4	3,518.2	205.9
Waterbound macadam.....	.7	.1	-----	-----	.7	.1
Bituminous macadam.....	12.6	2.6	-----	-----	12.6	2.6
Bituminous concrete.....	5.3	-----	-----	-----	5.3	-----
Portland cement concrete.....	8.4	4.1	-----	-----	8.4	4.1
Total.....	4,269.5	135.3	10,408.0	137.9	14,677.5	273.2

VIRGINIA

Type	State roads		State-aid roads ¹		County roads		All rural roads	
	Total, Jan. 1, 1922	Built, 1921	Total, Jan. 1, 1922	Built, 1921	Total, Jan. 1, 1922	Built, 1921	Total, Jan. 1, 1922	Built, 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	1,420.6	-----	-----	-----	46,368.0	-----	47,788.6	-----
Partly graded and drained earth.....	-----	-----	-----	-----	3,859.2	118.8	3,859.2	118.8
Earth to definite grade with permanent drainage structures.....	72.7	3.8	-----	64.5	100.0	64.5	172.7	68.3
Sand-clay.....	871.6	87.1	-----	162.8	2,528.8	178.0	3,400.4	265.1
Gravel.....	345.6	31.5	-----	40.1	993.7	59.1	1,339.3	90.6
Waterbound macadam.....	19.6	-----	-----	40.4	762.4	40.4	782.0	40.4
Surface-treated macadam.....	669.2	94.6	-----	14.2	419.7	27.5	1,088.9	122.1
Bituminous macadam.....	147.6	51.9	-----	2.0	129.2	44.2	276.8	96.1
Bituminous concrete.....	4.8	-----	-----	-----	-----	-----	4.8	-----
Portland cement concrete.....	128.9	41.7	-----	² 15.1	89.7	9.7	218.6	51.4
Brick.....	1.0	-----	-----	-----	-----	-----	1.0	-----
Stone block.....	1.2	-----	-----	-----	-----	-----	1.2	-----
Miscellaneous.....	147.0	-----	-----	-----	-----	-----	147.0	-----
Total.....	3,829.8	310.6	-----	339.1	55,250.7	542.2	59,080.5	852.8

¹ All State-aid mileage included in county roads.² Located in part on State road system.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

WASHINGTON

Type	State roads		County roads		Forest roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
Unimproved earth.....	<i>Miles</i> 539.0	<i>Miles</i> -----	<i>Miles</i> 10,759.4	<i>Miles</i> 1 18.6	<i>Miles</i> -----	<i>Miles</i> -----	<i>Miles</i> 11,298.4	<i>Miles</i> 1 18.6
Partly graded and drained earth.....	592.6	-----	10,000.0	270.5	-----	22.4	10,592.6	292.9
Earth to definite grade with permanent drainage structures.....	314.1	64.6	11,502.3	-----	47.0	-----	11,863.4	64.6
Gravel.....	1,121.9	135.6	9,232.5	542.3	22.7	3.2	10,377.1	681.1
Waterbound macadam.....	74.0	-----	95.4	13.2	-----	-----	169.4	13.2
Surface-treated macadam.....	-----	-----	13.4	-----	-----	-----	13.4	-----
Bituminous macadam.....	53.2	-----	55.0	-----	-----	-----	108.2	-----
Sheet asphalt.....	1.4	-----	18.2	-----	-----	-----	19.6	-----
Bituminous concrete.....	44.9	-----	183.3	-----	-----	-----	228.2	-----
Portland cement concrete.....	310.6	70.2	609.7	91.3	-----	-----	920.3	161.5
Brick.....	7.3	-----	43.2	-----	-----	-----	50.5	-----
Miscellaneous.....	-----	-----	174.5	6.5	-----	-----	174.5	6.5
Total.....	3,059.0	270.4	42,686.9	942.4	69.7	25.6	45,815.6	1,238.4

¹ New roads laid out but not improved.

WEST VIRGINIA

Type	State roads		County roads		All rural roads	
	Total Jan. 1, 1922	Built 1921 ¹	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
Unimproved earth.....	<i>Miles</i> 2,286.2	<i>Miles</i> -----	<i>Miles</i> 26,770.9	<i>Miles</i> 2 5.7	<i>Miles</i> 20,057.1	<i>Miles</i> 2 5.7
Partly graded and drained earth.....	95.2	-----	4,153.9	221.9	4,249.1	221.9
Earth to definite grade with permanent drainage structures.....	300.0	-----	200.0	75.0	500.0	75.0
Gravel.....	38.4	-----	93.7	26.0	132.1	26.0
Waterbound macadam.....	41.2	-----	398.7	11.6	439.9	11.6
Surface-treated macadam.....	50.2	-----	52.2	43.9	102.4	43.9
Bituminous macadam.....	162.2	-----	35.1	28.7	197.3	28.7
Bituminous concrete.....	49.6	-----	7.7	6.0	57.3	6.0
Portland cement concrete.....	191.4	-----	66.8	58.7	258.2	58.7
Brick.....	114.4	-----	55.0	4.9	169.4	4.9
Miscellaneous.....	3.2	-----	6.9	5.8	10.1	5.8
Total.....	3,332.0	-----	31,640.9	488.2	35,172.9	488.2

¹ State road system was not selected until the close of 1921. ² New roads laid out but not improved.

TABLE 11.—*Rural road mileage by types and highway systems as existing January 1, 1922, and mileage of each type built during 1921 in each State—Continued*

WISCONSIN

Type	State trunk lines		State aid and county roads		Township roads		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	-----	-----	4, 230. 1	¹ 116. 7	17, 270. 4	¹ 410. 3	21, 500. 5	¹ 527. 0
Partly graded and drained earth.....	1, 635. 3	-----	3, 535. 3	1, 007. 4	23, 353. 1	3, 013. 9	28, 523. 7	4, 021. 3
Earth to definite grade with permanent drainage structures.....	820. 0	477. 1	2, 520. 0	250. 0	5, 600. 0	-----	8, 940. 0	727. 1
Sand-clay.....	510. 2	68. 3	747. 6	198. 6	2, 601. 9	298. 0	3, 859. 7	564. 9
Gravel.....	3, 144. 1	590. 7	3, 931. 5	763. 6	5, 911. 0	940. 6	12, 986. 6	2, 294. 9
Waterbound macadam.....	161. 2	8. 5	496. 8	58. 0	221. 5	77. 6	879. 5	144. 1
Surface-treated macadam.....	482. 0	1. 7	335. 4	-----	-----	-----	817. 4	1. 7
Bituminous macadam.....	39. 2	22. 3	13. 1	-----	-----	-----	52. 3	22. 3
Sheet asphalt.....	7. 6	-----	-----	-----	-----	-----	7. 6	-----
Bituminous concrete.....	-----	-----	14. 0	-----	-----	-----	14. 0	-----
Portland cement concrete.....	649. 9	285. 0	434. 0	217. 6	7. 3	6. 0	1, 091. 2	508. 6
Brick.....	5. 0	. 1	1. 1	-----	-----	-----	6. 1	. 1
Total.....	7, 454. 5	1, 453. 7	16, 258. 9	2, 611. 9	54, 965. 2	4, 746. 4	78, 678. 6	8, 812. 0

¹ New roads laid out but not improved.

WYOMING

Type	State roads		County roads ¹		Forest roads ²		All rural roads	
	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921	Total Jan. 1, 1922	Built 1921
	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>	<i>Miles</i>
Unimproved earth.....	762. 0	-----	{ 38, 592. 4	-----	{ 1, 226. 1	-----	39, 373. 6	-----
Partly graded and drained earth.....	1, 720. 0	511. 4	{ 4, 679. 4	844. 2	{ 78. 4	-----	6, 519. 5	1, 355. 8
Earth to definite grade with permanent drainage structures.....	195. 6	150. 0	{ 21. 3	19. 9	{ 103. 4	73. 1	195. 6	150. 0
Gravel.....	235. 5	137. 2	{ 156. 3	. 6	-----	-----	413. 1	157. 7
Waterbound macadam.....	-----	-----	11. 6	-----	-----	-----	11. 6	-----
Bituminous concrete.....	1. 3	1. 3	-----	-----	-----	-----	1. 3	1. 3
Portland cement concrete.....	10. 8	5. 8	2. 8	2. 8	-----	-----	13. 6	8. 6
Total.....	2, 925. 2	805. 7	43, 295. 9	866. 9	1, 407. 9	73. 1	46, 528. 3	1, 673. 4
			307. 2	. 8				

¹ Lower figures are roads in Yellowstone Park. ² Forest roads included in State or county roads.

TABLE 12.—*Highway income and expenditures of States, counties and local communities for all rural highway purposes during 1921*

ALABAMA

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$1,878,316	Road and bridge construction.....	\$2,124,074
Taxes.....	2,232,702	Road and bridge maintenance.....	1,476,733
Miscellaneous.....	1,272,993	Administration and engineering....	121,342
County total.....	5,384,011		3,722,149
State:		Payments on highway bonds.....	\$111,918
Transfers from counties.....	187,084	Interest on highway bonds.....	614,216
Federal aid.....	477,590	Purchase and repair of machinery, equipment, etc.....	123,672
Motor vehicle fees.....	893,136		849,806
Miscellaneous.....	38,292	County total.....	4,571,955
State total.....	1,596,102	State:	
Duplication in county miscellaneous.....	410,546	Road and bridge construction.....	811,387
Net total.....	1,185,556	Road and bridge maintenance.....	11,332
Summary:		Administration and engineering....	89,134
Bonds.....	1,878,316		911,853
Taxes.....	2,419,786	Purchase and repair of machinery, equipment, etc.....	124,027
Federal aid.....	477,590	State total.....	1,035,880
Motor vehicle fees.....	893,136	Summary:	
Miscellaneous.....	900,739	Construction and maintenance.....	4,423,526
Grand total.....	6,569,567	Administration and engineering....	210,476
		All other items.....	973,833
		Grand total.....	5,607,835

ARIZONA ¹

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$5,504,825	Road and bridge construction.....	\$6,169,902
Taxes.....	1,549,758	Road and bridge maintenance.....	603,654
Miscellaneous.....	146,545	Administration and engineering....	280,346
County total.....	7,201,128		7,053,902
State:		Payments on highway bonds.....	\$93,467
State road tax.....	884,443	Interest on highway bonds.....	350,206
Federal and forest aid.....	² 816,681	Purchase and repair of machinery, equipment, etc.....	202,428
State appropriation.....	546,403		646,101
State prison fund.....	60,000	County total.....	7,700,003
Motor vehicle fees.....	180,633	State:	
Refunds from counties.....	610,628	Road and bridge construction.....	2,311,014
State total.....	3,098,788	Road and bridge maintenance.....	68,313
Summary:		Administration.....	114,783
Bonds.....	5,504,825	Engineering.....	95,108
Taxes.....	2,434,201		2,589,218
Federal and forest aid.....	¹ 816,681	Payments on indebtedness.....	\$137,421
Motor vehicle fees.....	180,633	Purchase and repair of machinery, equipment, etc.....	221,843
Miscellaneous.....	1,363,576		359,264
Grand total.....	10,299,916	State total.....	2,948,482
		Summary:	
		Construction and maintenance.....	9,152,883
		Administration and engineering....	490,237
		All other items.....	1,005,365
		Grand total.....	10,648,485

¹ Gasoline tax approved March 17, 1921. State data for fiscal year ending June 30, 1921; county data for calendar year. Value of State-owned equipment and materials \$3,000,000.² Includes \$36,916 Federal forest funds reported by counties.³ Does not include about \$400,000 of interest charged against construction.

TABLE 12.—Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued

ARKANSAS

INCOME		EXPENDITURES	
County and district:		State and county:	
County and district bonds.....	\$16,060,289	Road and bridge construction.....	\$14,397,819
County taxes.....	4,266,391	Road and bridge maintenance.....	3,196,665
County share motor vehicle fees		Administration and engineering....	1,279,374
and gasoline tax.....	526,544		18,873,858
Miscellaneous.....	161,541	Interest and payment	
County and district total.....	\$21,014,765	on highway bonds..... ²	\$1,857,208
State:		Purchase and repair of	
State share motor vehicle fees and		machinery, equip-	
gasoline tax.....	1,500,000	ment, etc.....	479,948
Federal aid.....	1,372,205		2,337,156
State total.....	1,872,205	State and county total.....	21,211,014
Summary:		The work of the State highway department was	
Bonds.....	16,060,289	practically limited to allocating State aid and Federal	
Taxes.....	4,266,391	aid to counties and highway improvement districts,	
Federal aid.....	1,372,205	and a general inspection and approval of	
Motor vehicle fees.....	856,544	work before payments were made.	
Gasoline tax.....	170,000	During 1921 the Federal-aid and State-aid work	
Miscellaneous.....	161,541	so supervised involved actual payments of approx-	
Grand total.....	22,886,970	imately \$7,000,000. The State payments for State	
		aid were \$288,384 and State expenditures for the	
		State highway department, \$55,000. All of this is	
		included in above.	

CALIFORNIA

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$17,896,539	Road and bridge construction.....	\$15,608,367
Taxes.....	15,432,565	Road and bridge maintenance.....	8,819,765
Miscellaneous.....	3,580,252	Administration and engineering....	1,127,740
Motor-vehicle fees.....	2,434,800		25,555,872
County total.....	39,344,156	Payments on highway	
State:		bonds.....	\$1,101,720
Bonds.....	5,122,000	Interest on highway	
Motor-vehicle fees.....	2,434,800	bonds.....	2,138,477
Federal aid.....	1,315,201	Purchase and repair of	
Federal forest allotment.....	1,218,153	machinery, equip-	
Miscellaneous.....	257,585	ment, etc.....	1,647,302
State total.....	10,347,739		4,887,499
Summary:		County total.....	30,443,371
Bonds.....	23,018,539	State:	
Taxes.....	15,432,565	Road construction.....	5,168,304
Federal and forest aid.....	2,533,354	Bridge construction.....	142,518
Motor vehicle fees.....	4,869,600	Road and bridge maintenance.....	2,168,011
Miscellaneous.....	3,837,837	Administration.....	153,156
Grand total.....	49,691,895	Engineering.....	236,695
		Field engineering and advance sur-	
		veys.....	291,643
			8,160,327
		Interest on State high-	
		way bonds..... ³	\$1,568,000
		Principal on State high-	
		way bonds.....	400,000
		Purchase of machinery	
		and equipment.....	346,228
		Repair of machinery	
		and equipment.....	340,893
			2,655,121
		State total.....	10,815,448
		Federal forest road:	
		Construction.....	410,086
		Administration and engineering....	101,342
		Machinery and equipment.....	52,725
		Federal forest road total.....	564,153
		Summary:	
		Construction and maintenance.....	32,317,051
		Administration and engineering....	1,910,576
		All other items.....	7,595,345
		Grand total.....	41,822,972

¹ Distribution of motor-vehicle fees and gasoline tax approximate, as law was changed during course of year.

² The payments of interest on highway bonds in some districts were not recorded separately but were included with the expenditures for construction. The sum shown for payments on interest and principal is therefore too small and that for construction too large by an unknown amount.

³ Interest on State highway bonds was assessed against counties prior to July 1, 1921.

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

COLORADO

INCOME		EXPENDITURES	
County:		County:	
Taxes.....	\$3,714,335	Road and bridge construction.....	\$2,107,921
Motor vehicle fees.....	420,316	Road and bridge maintenance.....	2,195,141
Gasoline tax.....	239,472	Engineering.....	90,271
Federal forest funds.....	301,785		
County total.....	4,675,908	Interest on highway loan... \$45,543	4,393,333
State:		Purchase and repair of machinery, equipment, etc.	454,000
Bonds.....	250,000		499,543
Taxes.....	1,479,774	County total.....	² 4,892,876
Federal aid.....	1,191,584	State:	
Motor vehicle fees.....	400,000	Road and bridge construction.....	3,036,559
Gasoline tax.....	320,000	Road and bridge maintenance.....	455,914
Transfers from counties and miscellaneous.....	144,177	Administration.....	118,057
State total.....	4,089,535	Engineering.....	336,006
Summary:			3,946,530
Bonds.....	250,000	Interest on bonds..... \$100,000	
Taxes.....	5,545,743	Purchase and repair of machinery, equipment, etc.	109,415
Federal and forests aid.....	1,493,369		209,415
Motor vehicle fees.....	820,316	State total.....	² 4,155,945
Gasoline tax.....	559,472	Summary:	
Miscellaneous.....	96,543	Construction and maintenance.....	7,795,535
Grand total.....	8,765,443	Administration and engineering.....	544,328
		All other items.....	708,958
		Grand total.....	9,048,821

CONNECTICUT

INCOME		EXPENDITURES	
Towns:		Towns:	
Bonds.....	\$293,824	Road construction.....	\$585,108
Appropriations, etc.....	2,339,208	Bridge construction.....	168,165
Town total.....	2,633,032	Road and bridge maintenance.....	1,616,032
State:		Administration and engineering.....	47,663
State appropriation (one-half of biennial).....	2,381,750		2,416,908
Federal aid.....	656,455	Purchase and repair of machinery, equipment, etc.....	30,959
Motor vehicle fees.....	3,405,085	Town total.....	2,447,867
Refunds from towns and counties.....	514,854	State:	
Rental of equipment.....	103,278	State-aid road construction.....	883,967
Materials.....	78,011	Trunk-line road construction.....	2,063,407
Trolley companies, railroads, etc.....	81,376	Trunk-line reconstruction.....	186,676
Cement sacks.....	58,607	Trunk-line bridge construction.....	488,930
Miscellaneous refunds.....	30,179	State-aid road maintenance.....	287,844
State total.....	7,312,595	Trunk-line road maintenance.....	1,752,774
Summary:		Trunk-line bridge maintenance.....	70,418
Bonds.....	293,824	State toll bridges and ferries.....	59,872
Taxes.....	2,854,062	Administration.....	38,897
Federal aid.....	656,455	Engineering.....	165,064
Motor vehicle fees.....	³ 3,405,085	State total.....	5,997,849
Miscellaneous.....	2,736,201	Summary:	
Grand total.....	9,945,627	Construction and maintenance.....	8,163,133
		Administration and engineering.....	251,624
		All other items.....	30,959
		Grand total.....	8,445,716

¹ Includes about \$351,634 originally raised from county taxes.² This includes national forest road work as follows: Construction \$208,336; engineering \$19,470. Of this construction \$113,828 was on forest roads forming a part of the State highway system and \$94,508 on forest roads forming a part of the county road system.³ Revenues from gasoline tax go into general State fund.

TABLE 12.—Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued

DELAWARE

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$935,304	Road and bridge construction.....	\$1,306,112
Taxes.....	179,729	Road and bridge maintenance.....	491,368
Miscellaneous.....	464,302	Administration and engineering....	96,506
County total.....	1,579,335		1,893,986
State:		Payment on highway	
Bonds.....	1,680,248	bonds.....	\$20,000
Appropriations.....	99,529	Interest on highway bonds.....	200,460
Federal aid.....	244,313	Purchase and repair of machinery, equipment, etc.....	155,908
Motor vehicle fees.....	375,471		376,368
Transfers from counties (bonds)....	542,224	County total.....	2,270,354
Donations to State.....	938,516	State:	
Miscellaneous.....	27,682	Road construction.....	2,849,529
State total.....	3,907,983	Bridge construction.....	260,595
Summary:		Road and bridge maintenance.....	44,242
Bonds.....	3,157,776	Engineering.....	90,062
Taxes.....	179,729	Administration.....	54,408
Federal aid.....	244,313	Purchase of right of way.....	142,360
Motor vehicle fees.....	375,471	Advertising, etc.....	2,752
Miscellaneous.....	1,580,029		3,443,948
Grand total.....	5,487,318	Payments on highway	
		bonds.....	\$98,225
		Interest on highway bonds.....	146,903
		Traffic control.....	12,879
		Purchase and repair of machinery, equipment, etc.....	63,328
			321,335
		State total.....	3,765,283
		Summary:	
		Construction and maintenance.....	5,096,958
		Administration and engineering....	240,976
		All other items.....	697,703
		Grand total.....	6,035,637

FLORIDA

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$6,142,433	Road and bridge construction.....	\$4,888,900
Taxes.....	3,320,670	Road and bridge maintenance.....	1,186,339
Miscellaneous.....	276,013	Administration and engineering....	89,904
County total.....	9,739,116		6,165,143
State:		Payments on highway	
Taxes.....	643,373	bonds.....	\$394,571
Motor vehicle fees.....	671,535	Interest on highway	
Gasoline tax.....	228,056	bonds.....	651,895
Federal aid.....	490,308	Purchase and repair of machinery, equipment, etc.....	273,247
Miscellaneous.....	167,534		1,319,713
State total.....	2,200,806	County total.....	7,484,856
Summary:		State:	
Bonds.....	6,142,433	Road and bridge construction.....	1,398,524
Taxes.....	3,964,043	Road and bridge maintenance.....	383,015
Motor vehicle fees.....	671,535	Administration.....	30,918
Gasoline tax.....	228,056	Engineering.....	159,949
Federal aid.....	490,308		1,972,406
Miscellaneous.....	443,547	Purchase and repair of machinery, equipment, etc.....	130,871
Grand total.....	11,939,922	State total.....	2,103,277
		Summary:	
		Construction and maintenance.....	7,856,778
		Administration and engineering....	280,771
		All other items.....	1,450,584
		Grand total.....	9,588,133

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

GEORGIA

INCOME		EXPENDITURES	
County:		County:	
Road and bridge bonds.....	\$4,500,281	Road and bridge construction.....	\$1,308,356
Taxes.....	7,358,512	Road and bridge maintenance.....	2,636,099
Miscellaneous.....	12,251	Administration and engineering.....	304,505
County total.....	11,871,044		4,248,960
State:		Interest on highway bonds.....	\$766,754
Motor vehicle fees.....	1,600,000	Principal on highway bonds.....	478,329
Federal-aid payments.....	3,610,524	Purchase and repair of machinery, equipment, etc.....	658,954
Sales and rentals of machinery, equipment, etc.....	250,478		1,904,037
State total.....	5,461,002	County total.....	6,152,997
Summary:		State:	
Bonds.....	4,500,281	Road and bridge construction.....	8,721,079
Taxes.....	7,358,512	Road and bridge maintenance.....	217,081
Federal aid.....	3,610,524	Administration.....	206,302
Motor vehicle fees.....	1,600,000	Engineering.....	268,678
Miscellaneous.....	262,729		9,413,119
Grand total.....	17,332,046	Repair of machinery, equipment, etc.....	250,478
		State total.....	9,663,597
		Summary:	
		Construction and maintenance.....	12,882,594
		Administration and engineering.....	779,485
		All other items.....	2,154,515
		Grand total.....	15,816,594

IDAHO

INCOME		EXPENDITURES	
County and district:		County:	
Bonds.....	\$4,221,802	Road and bridge construction.....	\$3,882,649
Taxes.....	2,065,596	Road and bridge maintenance.....	1,313,170
Miscellaneous.....	630,910	Administration and engineering.....	182,503
County and district total.....	6,918,308		5,378,322
State:		Payments on highway bonds.....	\$178,743
Bonds.....	2,000,000	Interest on highway bonds.....	660,203
Taxes.....	463,295	Purchase and repair of machinery, equipment, etc.....	727,400
Federal and forest aid.....	1,539,045		1,566,346
Motor vehicle fees.....	180,483	County total.....	6,944,668
Transfers from counties and districts.....	1,934,269	State:	
Miscellaneous.....	78,038	Road construction.....	3,802,879
State total.....	6,195,135	Bridge construction.....	577,833
Summary:		Road maintenance.....	153,217
Bonds.....	6,221,802	Bridge maintenance.....	1,243
Taxes.....	4,463,160	Administration.....	44,202
Federal and forest aid.....	1,539,045		4,579,374
Motor vehicle fees.....	811,398	Payment on highway bonds.....	\$12,000
Miscellaneous.....	78,038	Interest on highway bonds.....	170,000
Grand total.....	13,113,443	Freight, surplus war materials, etc.....	101,341
			283,341
		State total.....	4,862,715
		Summary:	
		Construction and maintenance.....	9,730,991
		Administration and engineering.....	226,705
		All other items.....	1,849,687
		Grand total.....	11,807,383

¹ Does not include approximately \$4,200,000 of county funds used to match State and Federal aid.² See also Fourth State Highway Report, pages 2, 28, 42a and 94.

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

ILLINOIS

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$6,588,193	Road and bridge construction.....	\$8,563,316
Taxes.....	18,115,139	Road and bridge maintenance.....	12,033,500
Miscellaneous.....	3,130,272	Administration and engineering.....	496,281
County total.....	27,833,604		21,093,097
State:		Payments on highway bonds.....	\$1,531,291
Bonds.....	4,709,478	Interest on highway bonds.....	448,426
Taxes.....	235,500	Purchase and repair of machinery, equipment, etc.....	853,304
Federal aid.....	3,802,430		2,833,021
Motor vehicle fees.....	6,862,126	County total.....	23,926,118
Rental of machinery, etc.....	221,646		
State total.....	15,831,180	State:	
Summary:		Road and bridge construction.....	13,172,154
Bonds.....	11,297,671	State-aid road and bridge construction.....	115,105
Taxes.....	18,350,639	Road and bridge maintenance.....	358,658
Federal aid.....	3,802,430	Administration and engineering.....	1,019,583
Motor vehicle fees.....	6,862,126		14,665,500
Miscellaneous.....	3,351,918	Machinery and equipment.....	\$308,557
Grand total.....	43,664,784	Payment to counties for State-aid work.....	719,273
			1,027,830
		State total.....	15,693,330
		Summary:	
		Construction and maintenance.....	34,242,733
		Administration and engineering.....	1,515,864
		All other items.....	3,860,831
		Grand total.....	39,619,448

INDIANA

INCOME		EXPENDITURES	
County and township:		County and township:	
Bonds.....	\$28,709,037	Road and bridge construction.....	\$24,378,304
Taxes.....	20,589,236	Road and bridge maintenance.....	10,395,415
Miscellaneous.....	1,793,669	Administration and engineering.....	1,001,804
County and township total.....	51,091,942		35,775,523
State:		Interest and payments on highway bonds.....	\$10,360,184
Property taxes.....	2,213,184	Purchase and repair of machinery, equipment, etc.....	256,580
Inheritance tax.....	652,597		10,616,764
Federal aid.....	1,446,623	County and township total.....	46,392,287
Motor vehicle fees.....	2,305,312		
Miscellaneous.....	97,956	State:	
State total.....	6,715,672	Road construction.....	2,827,774
Summary:		Bridge construction.....	400,364
Bonds.....	28,709,037	Road and bridge maintenance.....	4,336,976
Taxes.....	23,455,017	Administration.....	39,816
Federal aid.....	1,446,623	Engineering.....	195,039
Motor vehicle fees.....	2,305,312		7,799,969
Miscellaneous.....	1,891,625	Purchase and repair of machinery, equipment, etc.....	\$307,502
Grand total.....	57,807,614	Purchase of right of way.....	2,574
			310,076
		State total.....	8,110,045
		Summary:	
		Construction and maintenance.....	42,338,833
		Administration and engineering.....	1,236,659
		All other items.....	10,926,840
		Grand total.....	54,502,332

TABLE 12.—Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued

IOWA

INCOME		EXPENDITURES	
County:		County:	
Road bonds.....	\$3,009,975	Road and bridge construction.....	\$10,551,111
Bridge bonds.....	3,217,894	Road and bridge maintenance.....	8,339,410
Taxes.....	14,878,638	Administration and engineering....	582,956
County and township total.....	21,106,507		
State:		Miscellaneous.....	19,473,477
County-State primary road bonds..	3,179,000		¹ 1,575,305
Assessment certificates.....	1,521,435	County, total.....	21,048,782
Motor vehicle fees.....	7,211,922		
Federal aid.....	4,308,079	State:	
Miscellaneous.....	664,839	Road construction.....	14,279,500
State total.....	16,885,275	Bridge construction.....	1,253,582
		Road maintenance.....	2,095,322
Summary:		Bridge maintenance.....	8,044
Bonds.....	9,406,869	Administration and engineering....	549,903
Taxes.....	14,878,638		
Motor vehicle fees.....	7,211,922	Purchase and repair of machinery,	18,186,351
Federal aid.....	4,308,079	equipment, etc.....	89,420
Miscellaneous.....	2,186,274	State total.....	18,275,771
Grand total.....	37,991,782		
		Summary:	
		Construction and maintenance.....	36,526,969
		Administration and engineering....	1,132,859
		All other items.....	1,664,725
		Grand total.....	39,324,553

KANSAS

INCOME		EXPENDITURES	
State and county:		State and county:	
Bonds.....	\$7,476,611	Road and bridge construction.....	\$16,068,282
Taxes.....	12,315,864	Road and bridge maintenance.....	4,715,845
Motor vehicle fees.....	¹ 1,354,095	County administration and engi-	
Federal aid.....	¹ 1,601,565	neering.....	403,865
Miscellaneous.....	639,485	State administration and engineer-	
Grand total.....	23,387,620	ing.....	57,609
		Payments on highway	21,245,601
		bonds.....	\$337,426
		Interest on highway bonds.....	277,901
		Purchase and repair of	
		machinery, equipment,	
		etc.....	809,179
			1,424,506
		State and county total.....	22,670,107
		Summary:	
		Construction and maintenance.....	20,784,127
		Administration and engineering....	461,474
		All other items.....	1,424,506
		Grand total.....	22,670,107

¹ Includes cost of right of way, railroad crossings, gravel pits, channel changes, etc., but does not include payments of approximately \$1,000,000 interest and \$750,000 principal on the various classes of highway indebtedness.

² For period Oct. 1, 1920, to Oct. 1, 1921.

NOTE.—All road work in Kansas is done by counties and townships. The State highway department is largely limited to allocating Federal aid and the necessary inspection and supervision in connection therewith.

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

KENTUCKY

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$485,000	Road and bridge construction.....	\$2,901,894
Taxes.....	4,081,499	Road and bridge maintenance.....	3,334,182
Miscellaneous.....	2,056,499	Administration and engineering....	201,808
County total.....	6,622,998		6,437,884
State:		Payments on highway	
Taxes.....	689,392	bonds.....	\$125,207
Transfers from counties.....	609,923	Interest on highway	
Federal aid.....	1,482,066	bonds.....	¹ 152,704
Motor vehicle fees.....	1,685,769	Purchase and repair of	
Gasoline tax.....	438,116	machinery, equipment,	
		etc.....	149,918
State total.....	4,905,266		427,829
Summary:		County total.....	6,865,713
Bonds.....	485,000	State:	
Taxes.....	5,380,814	Road and bridge construction.....	4,720,594
Federal aid.....	1,482,066	Road and bridge maintenance.....	332,760
Motor vehicle fees.....	1,685,769	Engineering.....	136,583
Gas tax.....	438,116	Administration.....	55,339
Miscellaneous.....	2,056,499		5,245,276
Grand total.....	11,528,264	State-aid debt paid to counties....	² 511,674
		State total.....	5,756,950
		Summary:	
		Construction and maintenance....	11,289,430
		Administration and engineering....	393,730
		All other items.....	939,503
		Grand total.....	12,622,663

LOUISIANA

INCOME		EXPENDITURES	
Parish:		Parish:	
Bonds.....	\$15,147,507	Road and bridge construction.....	\$5,337,659
Taxes.....	4,054,173	Road and bridge maintenance.....	875,883
Motor vehicle fees.....	346,515	Administration and engineering....	200,420
Miscellaneous.....	1,257,972		6,413,962
Parish total.....	20,806,167	Payments on highway	
State:		bonds.....	\$808,315
Bonds, Chef Menteur Highway....	684,479	Interest on highway	
Taxes.....	182,911	bonds.....	1,268,767
Federal aid.....	1,424,114	Purchase and repair of	
Motor vehicle fees.....	106,761	machinery, equipment,	
Miscellaneous.....	26,484	etc.....	183,917
State total.....	2,424,749		2,260,999
Summary:		Parish total.....	8,674,961
Bonds.....	15,831,986	State:	
Taxes.....	4,237,084	State-Federal-aid construction.....	³ 4,961,181
Federal aid.....	1,424,114	State-aid construction.....	180,730
Motor vehicle fees.....	453,276	Administration.....	93,074
Miscellaneous.....	1,284,456		5,234,985
Grand total.....	23,230,916	Payments on highway	
		bonds.....	\$72,685
		Interest on highway	
		bonds.....	34,076
		Purchase and repair of	
		machinery, equipment,	
		etc.....	5,296
			112,057
		State total.....	5,347,042
		Summary:	
		Construction and maintenance....	11,355,453
		Administration and engineering....	293,494
		All other items.....	2,373,056
		Grand total.....	14,022,003

¹ Approximately \$150,000 interest payments included in cost of construction.² Payments to counties for obligations incurred previous to 1921.³ Includes engineering and inspection.

TABLE 12.—Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued

MAINE

INCOME		EXPENDITURES	
Town:		County:	
Bonds.....	\$49,387	Road and bridge construction.....	\$897,240
Taxes.....	721,273	Road and bridge maintenance.....	375,622
Appropriations, etc.....	1,443,055	Administration and engineering.....	9,546
Town total.....	2,213,715		1,282,408
State:		Payments on highway bonds.....	\$4,218
Bonds.....	1,717,573	Interest on highway bonds.....	5,878
Taxes.....	637,403	Purchase and repair of machinery, equipment, etc.....	37,816
Transfers from towns.....	921,046		47,912
Appropriation.....	300,000	County total.....	1,330,320
Federal aid.....	852,192		
Motor vehicle fees.....	1,004,750	State:	State-aid roads
Miscellaneous.....	244,161	Road construction... State roads.....	\$2,799,105
State total.....	5,677,125	Bridge construction.....	\$1,503,327
Summary:		Road maintenance.....	592,738
Bonds.....	1,766,960	Bridge maintenance.....	386,175
Taxes.....	2,279,722		9,706
Federal aid.....	852,192		2,491,946
Motor vehicle fees.....	1,004,750	Total outside of cities.....	3,278,640
Miscellaneous.....	1,987,216		5,770,586
Grand total.....	7,890,840	Road construction... 375,664	163,961
		Bridge construction.....	250,519
		Road maintenance.....	55,804
		Bridge maintenance.....	1,500
			471,784
		Total within cities.....	375,664
			874,448
		General administration.....	163,518
			6,681,552
		Traffic control.....	114,245
		Payments on highway bonds.....	119,000
		Interest on highway bonds.....	213,090
		Purchase and repair of machinery, equipment, etc.....	243,704
			690,039
		State total.....	7,371,591
		Summary:	
		Construction and maintenance.....	7,890,896
		Engineering and administration.....	73,064
		All other items.....	737,951
		Grand total.....	8,701,911

¹ Engineering included in construction and maintenance.

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

MARYLAND

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$1,075,549	Road and bridge construction.....	\$706,597
Taxes.....	2,717,185	Road and bridge maintenance.....	1,664,638
Miscellaneous.....	190,135	Engineering.....	10,828
County total.....	3,982,869		2,382,063
State:		Payments on highway	
Bonds.....	2,448,750	bonds.....	\$73,961
Transfers from counties.....	1,781,127	Interest on highway	
Federal aid.....	850,000	bonds.....	133,454
Motor vehicle fees.....	1,600,000	Purchase and repair of	
Miscellaneous.....	63,214	machinery, equip-	
		ment, etc.....	92,231
State total.....	6,743,091		299,646
Summary:		County total.....	2,681,709
Bonds.....	3,524,299	State:	
Taxes.....	4,498,312	Road construction.....	4,736,500
Federal aid.....	850,000	Bridge construction.....	80,483
Motor-vehicle fees.....	1,600,000	Road and bridge maintenance.....	1,659,715
Miscellaneous.....	253,349		6,476,698
Grand total.....	10,725,960	Administration.....	1 \$34,895
		Engineering.....	1 151,229
		Payments on highway	
		bonds.....	542,000
		Interest on highway	
		bonds.....	580,137
		Purchase and repair of	
		machinery, equip-	
		ment, etc.....	17,592
			1,139,729
		State total.....	7,616,427
		Summary:	
		Construction and maintenance.....	8,661,809
		Administration and engineering.....	196,952
		All other items.....	1,439,375
		Grand total.....	10,298,136

MASSACHUSETTS

INCOME		EXPENDITURES	
County and town:		County and town:	
Bonds.....	\$2,953,651	Road and bridge construction.....	\$4,734,669
Taxes.....	8,521,919	Road and bridge maintenance.....	6,850,226
Miscellaneous.....	194,339	Administration and engineering.....	44,963
County and town, total.....	11,669,909		11,629,858
State:		Purchase and repair of machinery,	
Road loan.....	381,362	equipment, etc.....	41,550
Tax (assessments).....	617,697	County and town, total.....	11,671,408
Appropriations.....	901,294	State:	
Federal aid.....	661,594	Road and bridge construction.....	3,562,131
Motor vehicle fees.....	5,023,963	Road maintenance.....	1,211,724
Miscellaneous.....	13,250	Bridge maintenance.....	24,118
State, total.....	7,599,160	State-aid construction.....	765,304
Summary:		State-aid maintenance.....	232,481
Bonds.....	3,335,013	Administration.....	60,880
Taxes.....	9,139,616	Engineering.....	711,614
Federal aid.....	661,594		6,568,252
Motor vehicle fees.....	5,023,963	Payments on highway	
Miscellaneous.....	1,108,883	bonds.....	\$582,500
Grand total.....	19,269,069	Interest on highway	
		bonds.....	318,794
		Purchase and repair of	
		machinery, equipment,	
		etc.....	394,677
			1,295,971
		State, total.....	7,864,223
		Summary:	
		Construction and maintenance.....	17,380,653
		Administration and engineering.....	817,458
		All other items.....	1,337,520
		Grand total.....	19,535,631

¹ Included in "Road construction" and "Road maintenance."

TABLE 12.—Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued

MICHIGAN

INCOME		EXPENDITURES	
County and township:		County and township:	
Bonds.....	\$15,221,626	Road and bridge construction.....	\$21,542,166
Taxes.....	16,852,278	Road and bridge maintenance.....	10,216,670
Motor vehicle fees.....	3,897,963	Administration and engineering....	1,326,847
Miscellaneous.....	6,328,551		33,085,683
County and township, total.....	42,300,418	Payments on highway	
		bonds.....	\$2,356,450
State:		Interest on highway	
Highway bonds.....	5,448,000	bonds.....	1,658,246
Taxes.....	1,314,282	Purchase and repair of	
Motor vehicle fees.....	3,897,963	machinery, equipment,	
Federal aid.....	599,854	etc.....	1,727,896
Transfers from counties and town-			5,742,592
ships.....	2,062,059		
Interest and miscellaneous.....	39,781	County and township, total.....	38,828,275
State, total.....	13,361,939		
Summary:		State:	
Bonds.....	20,669,626	Trunk-line construction.....	9,713,318
Taxes.....	20,228,619	Trunk-line maintenance.....	1,494,046
Motor vehicle fees.....	7,795,926	Trunk-line bridge construction....	568,870
Federal aid.....	599,854	Trunk-line bridge maintenance....	62,730
Miscellaneous.....	6,368,332	Trunk-line rewards.....	1,182,273
Grand total.....	55,662,357	Construction rewards.....	1,744,155
		Maintenance rewards.....	271,168
		Administration rewards.....	286,427
		Engineering.....	540,342
			15,863,329
		Payments on highway	
		bonds.....	\$565,514
		Interest on highway	
		bonds.....	283,914
		Purchase and repair of	
		machinery, equipment,	
		etc.....	31,586
			881,014
		State, total.....	16,744,343
		Summary:	
		Construction and maintenance....	46,795,396
		Administration and engineering....	2,153,616
		All other items.....	6,623,606
		Grand total.....	55,572,618

NOTE.—State income for fiscal year ending June 30, 1921, except motor vehicle fees which are for 1922.

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

MINNESOTA

INCOME		EXPENDITURES	
County and township:		Township:	
County bonds.....	\$8,731,150	Road and bridge work.....	\$8,463,551
County taxes.....	11,377,773	County:	
Township taxes, etc.....	7,856,595	Road and bridge construction.....	14,552,840
County miscellaneous.....	2,095,777	Road and bridge maintenance.....	4,507,431
County and township total.....	30,061,295	Administration and engineering.....	840,755
State:			128,364,577
Taxes.....	1,657,800	Payments on highway	
Federal aid.....	2,986,920	bonds.....	\$855,868
Motor vehicle fees.....	5,616,114	Interest on highway	
Miscellaneous.....	35,796	bonds.....	778,790
State total.....	10,296,630	Purchase and repair of	
Summary:		machinery, equipment,	
Bonds.....	8,731,150	etc.....	1,300,306
Taxes.....	20,892,168		2,934,964
Motor vehicle fees.....	5,616,114	Township and county total...	31,299,541
Federal aid.....	2,986,920	State:	
Miscellaneous.....	2,131,573	Trunk-line construction.....	3,001,921
Grand total.....	40,357,925	State-aid construction.....	1,297,742
		Trunk-line maintenance.....	2,224,228
		State-aid maintenance.....	505,034
		Administration.....	68,579
			7,097,504
		Purchase of machinery	
		and equipment.....	\$274,086
		Repair of machinery—	
		freight, etc.....	108,429
			382,515
		State total.....	7,480,019
		Summary:	
		Construction and maintenance.....	34,552,747
		Administration and engineering...	909,334
		All other items.....	3,317,479
		Grand total.....	38,779,560

MISSISSIPPI

INCOME		EXPENDITURES	
County and district:		County:	
County and district bonds.....	\$14,741,678	Road and bridge construction.....	\$9,655,000
County taxes.....	8,078,082	Road and bridge maintenance.....	3,659,108
County miscellaneous.....	477,803	Administration and engineering....	175,893
County and district total.....	23,297,563		13,490,001
State:		Payments on highway	
Appropriation.....	100,000	bonds.....	\$1,031,942
Federal aid.....	1,636,366	Interest on highway	
Motor vehicle fees.....	704,988	bonds.....	2,019,891
State total.....	2,441,354	Purchase and repair of	
Summary:		machinery, equip-	
Bonds.....	14,741,678	ment, etc.....	266,455
Taxes.....	8,078,082		3,318,288
Federal aid.....	1,636,366	County total.....	16,808,289
Motor vehicle fees.....	704,988	State:	
Miscellaneous.....	577,803	Federal and State-aid construction..	3,232,000
Grand total.....	25,738,917	Administration and engineering...	268,000
		State total.....	3,500,000
		Summary:	
		Construction and maintenance.....	16,546,108
		Administration and engineering....	443,893
		All other items.....	3,318,288
		Grand total.....	20,308,289

¹ Includes \$8,463,551 for township road and bridge work.

TABLE 12.—Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued

MISSOURI

INCOME		EXPENDITURES	
County and district:		County and district:	
Bonds.....	\$3,426,420	Road and bridge construction.....	\$4,595,654
Taxes.....	4,999,628	Road and bridge maintenance.....	5,461,213
Miscellaneous.....	3,084,477	Administration and engineering....	451,418
County and district total.....	11,510,525		10,518,285
State:		Principal and interest on	
Corporation tax.....	107,738	highway bonds.....	\$886,770
Stamp tax.....	32,820	Purchase and repair of ma-	
Federal aid.....	2,304,790	chinery, equipment, etc.....	5,809
Motor vehicle fees.....	2,505,354		892,579
Miscellaneous refunds.....	33,748	County and district total.....	11,400,864
State total.....	4,984,450	State:	
Summary:		Construction.....	3,992,652
Bonds.....	3,426,420	To counties for road dragging.....	161,422
Taxes.....	5,140,186	Administration and engineering....	186,747
Federal aid.....	2,304,790	Preliminary surveys.....	121,146
Motor vehicle fees.....	2,505,354		4,461,967
Miscellaneous.....	3,118,225	Purchase and repair of machinery,	
Grand total.....	16,494,975	equipment, etc.....	264,828
		State total.....	4,726,795
		Summary:	
		Construction and maintenance....	14,049,519
		Administration and engineering....	759,311
		All other items.....	1,318,829
		Grand total.....	16,127,659

MONTANA

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$3,330,829	Road and bridge construction.....	\$3,574,600
Taxes.....	2,392,404	Road and bridge maintenance.....	1,505,405
Motor vehicle fees.....	273,075	Administration and engineering....	231,890
Miscellaneous.....	100,503		5,311,895
County total.....	6,096,811	Payments on highway	
State:		bonds.....	\$711,352
Receipts from counties.....	1,279,788	Interest on highway bonds.....	394,889
Federal aid.....	2,041,172	Purchase and repair of	
Motor vehicle fees.....	273,075	machinery, equipment,	
Rental of equipment.....	319,471	etc.....	324,651
Miscellaneous oil royalty.....	21,584		1,430,892
State total.....	3,935,090	County total.....	6,742,787
Summary:		State:	
Bonds.....	3,330,829	Construction.....	3,044,529
Taxes.....	2,392,404	Maintenance.....	4,392
Federal aid.....	2,041,172	Administration.....	125,590
Motor vehicle fees.....	546,150	Construction engineering.....	212,689
Miscellaneous.....	1,721,346	Maintenance engineering.....	78,089
Grand total.....	10,031,901		3,465,239
		Purchase and repair of machinery,	
		equipment, etc.....	175,172
		State total.....	3,640,461
		Summary:	
		Construction and maintenance....	8,128,926
		Administration and engineering....	648,167
		All other items.....	1,606,064
		Grand total.....	10,383,157

TABLE 12.—Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued

NEBRASKA

INCOME		EXPENDITURES	
County:		County, township, and district:	
Bonds.....	\$2,242,484	Road and bridge construction.....	\$3,735,000
Taxes.....	4,976,955	Road and bridge maintenance.....	1,562,844
Motor vehicle fees.....	705,279	Administration and engineering....	19,888
Miscellaneous.....	686,290		
County total.....	8,611,008		5,317,732
State:		Payments on highway	
Road tax.....	1,296,053	bonds.....	\$105,053
Bridge tax.....	175,000	Interest on highway bonds.....	61,425
Motor vehicle fees.....	2,114,721	Purchase and repair of	
Federal aid.....	1,200,000	machinery, equipment,	
Miscellaneous.....	50,000	etc.....	207,625
State total.....	4,835,774		374,103
Summary:		County, etc., total.....	5,691,835
Bonds.....	2,242,484	State:	
Taxes.....	6,448,008	Road construction.....	2,381,375
Motor vehicle fees.....	2,820,000	Bridge construction.....	175,000
Federal aid.....	1,200,000	Road and bridge maintenance.....	2,114,722
Miscellaneous.....	736,290	Administration and engineering....	164,677
Grand total.....	13,446,782	State total.....	4,835,774
		Summary:	
		Construction and maintenance....	9,968,941
		Administration and engineering....	184,565
		All other items.....	374,103
		Grand total.....	10,527,609

NEVADA

INCOME		EXPENDITURES	
County:		County:	
Taxes.....	\$444,477	Road and bridge construction.....	\$205,644
Miscellaneous.....	99,595	Road and bridge maintenance.....	224,515
County total.....	544,072	Engineering.....	6,855
State:			437,014
Highway bonds.....	325,000	Payments on highway	
County-State highway bonds.....	1,250,000	bonds.....	\$8,000
Tax.....	203,962	Interest on highway bonds.....	1,930
Transfers from counties.....	189,977	Purchase and repair of	
Federal and forest aid.....	566,591	machinery, equipment, etc....	74,502
Motor vehicle fees.....	97,200		84,432
Donations to State.....	10,040	County total.....	521,446
Tolls.....	11,999	State:	
Rental of equipment.....	80,192	Construction.....	1,099,021
Miscellaneous.....	12,311	Maintenance.....	33,601
State total.....	1,747,272	Administration.....	66,035
Summary:		Engineering.....	43,018
Bonds.....	575,000		1,241,675
Taxes.....	648,439	Payments on highway	
Federal and forest aid.....	566,591	bonds.....	\$100,000
Motor vehicle fees.....	97,200	Interest on highway bonds.....	29,127
Miscellaneous.....	404,114	Purchase of machinery	
Grand total.....	2,291,344	and equipment.....	93,403
		Repair of machinery and	
		equipment.....	125,301
			347,831
		State total.....	1,589,506
		Summary:	
		Construction and maintenance....	1,562,781
		Administration and engineering....	115,908
		All other items.....	432,263
		Grand total.....	2,110,952

¹ \$50,000 for Clark County and \$200,000 for Washoe County.

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

NEW HAMPSHIRE

INCOME		EXPENDITURES	
Town:		Towns:	
Bonds.....	\$107,316	Road and bridge construction.....	¹ \$211,208
Taxes.....	1,231,877	Road and bridge maintenance.....	1,109,878
Miscellaneous.....	890		1,321,086
Town total.....	1,340,083	Purchase and repair of machinery, equipment, etc.....	18,106
State:		Town total.....	1,339,192
Appropriations.....	355,000	State:	
Federal aid.....	240,782	Road construction.....	² 886,268
Motor vehicle fees.....	790,118	Bridge construction.....	² 151,143
Town and city funds to State.....	1,156,405	Road and bridge maintenance.....	² 1,181,607
State total.....	2,542,305	Administration.....	16,158
Summary:			2,235,176
Bonds.....	107,316	Payment on highway bonds.....	\$75,000
Taxes.....	1,231,877	Interest on highway bonds.....	10,500
Federal aid.....	240,782	Purchase and repair of ma- chinery, equipment, etc.....	39,553
Motor vehicle fees.....	790,118		125,053
Miscellaneous.....	1,512,295	State total.....	2,360,229
Grand total.....	3,882,388	Summary:	
		Construction and maintenance.....	3,540,104
		Administration.....	16,158
		All other items.....	143,159
		Grand total.....	3,699,421

¹ Includes about \$15,000 bond interest and principal payments² Distributed as follows:

	State roads	State-aid roads	Trunk lines
Road construction	\$27,625	\$312,842	\$545,801
Bridge construction	19,678	131,465	
Maintenance.....	66,219	271,254	844,134
Total.....	93,844	603,774	1,521,400

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

NEW JERSEY

INCOME		EXPENDITURES	
County and township:		County and township:	
Bonds.....	\$7,483,444	Road and bridge construction.....	\$7,529,280
Taxes.....	5,172,898	Road and bridge maintenance.....	2,768,036
Miscellaneous.....	688,352	Administration and engineering...	262,316
County and township total.....	13,044,694		10,559,632
State:		Payments on highway	
Road tax.....	3,569,726	bonds.....	\$816,265
State-aid appropriation.....	500,000	Interest on highway	
Federal aid.....	509,372	bonds.....	944,855
Motor vehicle fees.....	4,029,971	Purchase and repair of	
Miscellaneous.....	4,071	machinery, equipment,	
		etc.....	167,084
State total.....	8,613,140		1,928,204
Summary:		County and township total...	
Bonds.....	7,183,444		12,487,836
Taxes.....	8,742,624	State:	
Motor vehicle fees.....	4,029,971	Road construction.....	5,496,204
Federal aid.....	509,372	Bridge construction.....	329,266
Miscellaneous.....	1,192,423	Road maintenance.....	1,776,692
Grand total.....	21,657,834	Bridge maintenance.....	269,755
		State-aid road construction.....	2,282,873
		State-aid road maintenance.....	3,843,015
		State-aid to townships.....	210,000
		Administration.....	208,905
		Engineering.....	479,842
		Purchase of right of way.....	126,184
			15,022,736
		Purchase of toll road.....	\$70,000
		Purchase of machinery.....	198,886
		Expense, motor vehicle	
		department.....	299,420
		Repair of machinery,	
		equipment, etc.....	17,192
			585,498
		State total.....	15,608,234
		Summary:	
		Construction and maintenance....	24,631,305
		Administration and engineering....	951,063
		All other items.....	2,513,702
		Grand total.....	28,096,070

TABLE 12.—Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued

NEW MEXICO

INCOME		EXPENDITURES	
County:		County:	
Road and bridge taxes.....	\$614, 220	Road and bridge construction.....	\$297, 954
County total.....	614, 220	Road and bridge maintenance.....	196, 198
		Administration and engineering.....	28, 537
State:			522, 689
Bonds.....	830, 000	Payments on highway	
Taxes.....	1, 090, 115	bonds.....	\$11, 629
County road tax to State.....	546, 343	Interest on highway bonds.....	1, 112
Special district taxes to State.....	176, 531	Purchase and repair of	
Federal and forest aid.....	1, 093, 208	machinery, equipment,	
Motor vehicle fees.....	188, 593	etc.....	10, 913
Gasoline tax.....	333, 288		23, 654
Miscellaneous.....	24, 369	County total.....	546, 343
State total.....	4, 282, 447		
Summary:		State:	
Bonds.....	830, 000	Construction.....	2, 161, 214
Taxes.....	2, 427, 209	Maintenance.....	314, 104
Federal and forest aid.....	1, 093, 208	Construction special district roads..	176, 765
Motor vehicle fees.....	188, 593	Administration.....	183, 130
Gasoline tax.....	333, 288		2, 735, 213
Miscellaneous.....	24, 369	Payments on highway	
Grand total.....	4, 896, 667	bonds.....	\$848, 000
		Interest on highway bonds.....	28, 800
		Purchase and repair of	
		machinery, equipment,	
		etc.....	87, 372
		Miscellaneous.....	13, 277
			977, 449
		State total.....	3, 712, 662
		Summary:	
		Construction and maintenance.....	3, 146, 235
		Administration and engineering.....	111, 667
		All other items.....	1, 001, 103
		Grand total.....	4, 259, 005

NEW YORK

INCOME		EXPENDITURES	
Town:		Town:	
Taxes, etc.....	\$19, 575, 155	Road and bridge construction.....	\$12, 185, 000
State aid to towns.....	2, 321, 266	Road and bridge maintenance.....	5, 426, 789
Town total.....	21, 896, 421		17, 611, 789
State:		Purchase and repair of machinery,	
Highway bonds.....	18, 355, 231	equipment, snow removal, etc.....	2, 556, 235
Appropriations.....	19, 213, 981	Town total.....	20, 168, 024
Federal aid.....	2, 398, 461	State:	
Transfers from counties.....	4, 212, 083	Road and bridge construction.....	19, 546, 171
Transfers from cities and villages	704, 074	Road and bridge maintenance.....	8, 604, 342
Town and village taxes (State		Administration.....	310, 616
roads).....	416, 861	Engineering, construction.....	1, 560, 966
Miscellaneous.....	162, 218	Engineering, maintenance.....	474, 370
State total.....	45, 462, 909		30, 496, 465
Summary:		Payments on highway	
Bonds.....	18, 355, 231	bonds.....	\$2, 669, 991
Taxes.....	36, 300, 000	Interest on highway	
Federal aid.....	2, 398, 461	bonds.....	3, 441, 278
Motor vehicle fees.....	9, 000, 000	Purchase and repair of	
Miscellaneous.....	1, 305, 638	machinery, equip-	
Grand total.....	67, 359, 330	ment, etc.....	247, 453
			6, 358, 722
		State total.....	36, 855, 187
		Summary:	
		Construction and maintenance.....	45, 764, 102
		Engineering and administration.....	2, 345, 952
		All other items.....	8, 914, 957
		Grand total.....	57, 025, 011

¹ State engineering amounting to about 5.4 per cent, or \$140,000, included in construction.

² Includes State's share of motor vehicle fees.

³ Approximate.

⁴ Includes \$991,441 for town machinery and equipment, \$93,099 for snow removal, and \$1,471,695 for interest and principal on highway bonds and other miscellaneous items.

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

NORTH CAROLINA

INCOME		EXPENDITURES	
County and township:		County and township:	
Bonds.....	\$9,656,824	Road and bridge construction.....	\$6,098,829
Taxes.....	8,357,346	Road and bridge maintenance.....	3,087,432
Miscellaneous.....	1,093,457	Administration and engineering....	579,370
County and township total.....	19,107,627		9,765,631
State:		Payments on highway	
Highway bonds.....	7,983,710	bonds.....	\$1,301,123
Federal aid.....	2,674,070	Interest on highway	
Motor vehicle fees.....	2,322,630	bonds.....	1,907,207
Gasoline tax.....	506,019	Purchase and repair of	
Transfers from counties.....	247,569	machinery, equip-	
State total.....	13,733,998	ment, etc.....	1,249,937
Summary:			4,458,272
Bonds.....	17,640,534	County and township total.....	14,223,903
Taxes.....	8,357,346	State:	
Federal aid.....	2,674,070	Construction.....	¹ 10,635,602
Motor vehicle fees.....	2,322,630	Maintenance.....	¹ 2,902,005
Gasoline tax.....	506,019	Administration.....	202,887
Miscellaneous.....	1,341,026		13,740,494
Grand total.....	32,841,625	Interest on highway	
		bonds.....	\$497,630
		Purchase of toll road.....	56,007
		Trucks and cars.....	458,114
		Purchase and repair of	
		machinery, equip-	
		ment, etc.....	347,552
			1,359,303
		State total.....	15,099,792
		Summary:	
		Construction and maintenance....	22,723,868
		Administration and engineering....	782,257
		All other items.....	5,817,575
		Grand total.....	29,323,700

NORTH DAKOTA

INCOME		EXPENDITURES	
County and township:		Township:	
Township taxes.....	\$2,350,007	Road and bridge work.....	\$2,277,198
County taxes.....	2,999,245	County:	
County and township total.....	5,349,252	Road and bridge construction.....	2,667,802
State:		Road and bridge maintenance.....	1,168,103
Appropriations.....	362,938	Administration and engineering....	70,363
Motor vehicle fees.....	418,525		6,183,466
Federal aid.....	584,685	Purchase and repair of machinery,	
State total.....	1,366,148	equipment, etc.....	33,762
Summary:		County and township total.....	6,217,228
Taxes.....	5,349,252	State:	
Federal aid.....	584,685	State-aid road construction.....	121,640
Motor vehicle fees.....	418,525	Bridge construction.....	462,345
Miscellaneous.....	362,938	State-aid maintenance.....	209,263
Grand total.....	6,715,400	Administration.....	99,816
		Engineering.....	94,034
			987,098
		Purchase and repair of machinery,	
		equipment, etc.....	42,905
		State total.....	1,030,003
		Summary:	
		Construction and maintenance....	6,906,351
		Engineering and administration....	264,213
		All other items.....	76,667
		Grand total.....	7,247,231

¹ Includes engineering.

TABLE 12.—Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued

OHIO

INCOME		EXPENDITURES	
County and township:		County and township:	
Bonds.....	\$32,869,752	Road and bridge construction.....	\$32,544,803
County taxes.....	20,790,782	Road and bridge maintenance.....	15,508,100
Township taxes.....	6,008,426	Administration and engineering.....	1,599,667
Motor vehicle fees, county share.....	3,456,355		49,652,570
County and township miscellaneous.....	1,477,709	Payments on highway bonds.....	\$6,620,476
County and township total.....	69,603,024	Interest on highway bonds.....	4,181,831
State:		Purchase and repair of machinery, equipment, etc.....	577,650
Taxes.....	5,469,133		11,379,957
Motor vehicle fees.....	3,588,396	County and township total.....	61,032,527
Federal aid.....	3,595,383	State:	
Miscellaneous.....	19,732	Road construction.....	9,583,526
State total.....	12,672,644	Bridge construction.....	827,414
Summary:		Road maintenance.....	4,200,921
Bonds.....	32,869,752	Bridge maintenance.....	71,131
Taxes.....	32,268,341	Administration.....	167,671
Motor vehicle fees.....	7,044,751	Engineering.....	300,522
Federal aid.....	3,595,383	Surveys.....	154,607
Miscellaneous.....	6,497,441		15,305,792
Grand total.....	82,275,668	Purchase and repair of machinery, equipment, etc.....	241,668
		State total.....	15,547,460
		Summary:	
		Construction and maintenance.....	62,735,895
		Administration and engineering.....	2,213,498
		All other items.....	11,630,594
		Grand total.....	76,579,987

OKLAHOMA

INCOME		EXPENDITURES	
County and township:		County and township:	
Bonds.....	\$5,273,327	Road and bridge construction.....	\$4,676,380
Taxes.....	5,135,454	Road and bridge maintenance.....	3,576,748
Miscellaneous.....	287,107	Administration and engineering.....	454,330
County and township total.....	10,695,888		8,707,458
State:		Payments on highway bonds.....	\$295,323
One-fourth-mill tax.....	440,244	Interest on highway bonds.....	453,090
Motor vehicle fees.....	2,263,006	Purchase and repair of machinery, equipment, etc.....	449,151
Federal aid.....	2,345,354		1,197,564
Transfers from counties and townships.....	3,772,423	County and township total.....	9,905,022
State total.....	8,821,027	State:	
Summary:		Road and bridge construction.....	4,391,869
Bonds.....	5,273,327	Administration.....	200,000
Taxes.....	9,348,121	Engineering.....	183,000
Federal aid.....	2,345,354	State total.....	4,774,869
Motor vehicle fees.....	2,263,006	Summary:	
Miscellaneous.....	287,107	Construction and maintenance.....	12,644,997
Grand total.....	19,516,915	Administration and engineering.....	837,330
		All other items.....	1,197,564
		Grand total.....	14,679,891

¹Consists almost entirely of assessments against abutting property and transfers from various funds.

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

OREGON

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$2,950,673	Road and bridge construction.....	\$7,333,668
Taxes.....	5,250,360	Road and bridge maintenance.....	1,221,581
Motor vehicle fees.....	555,000	Administration and engineering....	430,101
Miscellaneous.....	2,063,894		8,985,350
County total.....	10,819,927	Payments on highway bonds.....	\$167,956
State:		Interest on highway bonds.....	343,159
Bonds.....	10,957,359	Purchase and repair of machinery, equipment, etc.....	226,627
Federal aid.....	2,181,957		737,742
State tax, market roads.....	1,009,686	County total.....	9,723,092
Motor vehicle fees.....	1,629,275	State:	
Gasoline tax.....	948,509	Construction.....	11,272,783
Transfers, counties and railroads....	651,088	Post-road construction.....	4,689,441
Miscellaneous.....	335,023	Forest-road construction.....	418,098
State total.....	17,712,897	Maintenance.....	534,522
Summary:		Engineering (surveys, etc.).....	151,749
Bonds.....	13,908,032	Administration.....	229,889
Taxes.....	6,260,046		17,296,482
Federal aid.....	2,181,957	Interest on highway bonds.....	\$981,677
Motor vehicle fees.....	2,184,275	Road signs.....	9,987
Gasoline tax.....	948,509	Purchase and repair of machinery, equipment, etc.....	30,830
Miscellaneous.....	3,050,005	Total.....	1,022,494
Grand total.....	28,532,824	Credits.....	73,155
			949,339
		State total.....	18,245,821
		Summary:	
		Construction and maintenance....	25,648,066
		Administration and engineering....	659,990
		All other items.....	1,660,857
		Grand total.....	27,968,913

¹ Income as originally reported on form which nearly corresponds with their printed report.² All State expenditures taken from page 105 of the Fifth Biennial Report, Oregon State Highway Commission.

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

PENNSYLVANIA

INCOME		EXPENDITURES	
Township:		County and township:	
Bonds.....	\$4,509,488	Road and bridge construction.....	\$10,180,468
Taxes.....	11,546,834	Road and bridge maintenance.....	9,080,058
Miscellaneous.....	¹ 1,179,779	Administration and engineering....	552,584
Township total.....	17,236,101		19,813,110
County:		Interest and payment	
Bonds.....	2,721,535	on highway bonds....	\$4,294,296
Taxes.....	3,184,353	Purchase and repair of	
Miscellaneous.....	685,338	machinery, equip-	
County total.....	6,591,226	ment, etc.....	2,230,291
State:			6,524,587
Highway bonds.....	26,773,560	County and township total... ³	26,337,697
Highway appropriations.....	12,120,000	State:	
Motor vehicle fees.....	9,310,447	Road construction.....	29,440,629
Federal aid.....	4,533,682	Bridge construction.....	344,400
Miscellaneous.....	249,738	State-aid construction (county	
Transfers from counties, town-		share).....	4,993,266
ships, etc.....	2,473,515	Maintenance.....	8,652,984
State total.....	55,460,942	Administration.....	1,629,887
Summary:		Engineering.....	1,106,522
Bonds.....	34,004,583	County map and route surveys....	17,130
Taxes.....	14,731,187		46,184,318
Federal aid.....	4,533,682	Interest on highway	
Motor vehicle fees.....	² 9,310,447	bonds.....	\$1,474,440
Miscellaneous.....	16,708,370	Purchase of turnpikes.....	148,759
Grand total.....	79,288,269	Purchase of supplies.....	245,362
		Purchase and repair of	
		machinery, equip-	
		ment, etc.....	915,521
		Traffic control.....	42,956
			2,827,038
		State total.....	49,011,856
		Summary:	
		Construction and maintenance....	62,691,805
		Administration and engineering....	3,288,993
		All other items.....	9,368,755
		Grand total.....	75,349,553

¹ Includes \$451,779, township rewards from State.² Gasoline tax not in effect until Sept. 1, 1921; total receipts \$835,326, none of which was available for highways until 1922.³ Of this total \$18,362,532 consisted of expenditures by the townships.

TABLE 12.—Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued

RHODE ISLAND

INCOME		EXPENDITURES	
Town:		Towns:	
Appropriations.....	\$567,576	Road and bridge construction and maintenance.....	\$607,726
Town total.....	567,576	Purchase and repair of machinery, equipment, etc.....	8,000
State:		Town total.....	
Bridge bonds.....	286,160		615,726
Tax, (0.3 mills).....	299,291	State:	
Appropriations.....	912,730	Road construction.....	1,277,214
Motor vehicle fees.....	777,587	Bridge construction.....	143,873
Federal aid.....	358,374	Road maintenance.....	429,429
Donations.....	100,000	Bridge maintenance.....	10,328
Motor vehicle fines.....	17,289	Administration.....	13,500
Rental of equipment.....	5,000	Engineering.....	99,142
State total.....	2,756,431		1,973,486
Summary:		Payment on highway bonds.....	\$38,680
Bonds.....	286,160	Interest on highway bonds.....	96,020
Taxes.....	866,867	Rental of equipment.....	7,000
Federal aid.....	358,374	Purchase of machinery and equipment.....	32,041
Motor vehicle fees.....	777,587	Repair of machinery and equipment.....	65,281
Miscellaneous.....	1,085,019		239,022
Grand total.....	3,324,007	State total.....	2,212,508
		Summary:	
		Construction and maintenance.....	2,468,570
		Administration and engineering.....	112,642
		All other items.....	247,022
		Grand total.....	2,828,234

SOUTH CAROLINA

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$8,146,630	Road and bridge construction.....	\$3,795,000
Taxes.....	12,539,915	Road and bridge maintenance.....	987,375
Miscellaneous.....	166,306	Administration and engineering.....	331,998
County total.....	10,852,851		5,114,373
State:		Payments on highway bonds.....	\$96,203
Appropriation.....	130,085	Interest on highway bonds.....	58,210
Federal aid.....	1,359,453	Purchase and repair of machinery, equipment, etc.....	339,337
Motor vehicle fees.....	692,663		993,750
Transfers from counties.....	1,772,188	County total.....	
Miscellaneous.....	16,547		6,108,123
State total.....	3,970,936	State:	
Summary:		Road construction.....	2,908,878
Bonds.....	8,146,630	Bridge construction.....	576,431
Taxes.....	3,749,525	Road and bridge maintenance.....	271,914
Federal aid.....	1,359,453	Administration.....	40,209
Motor vehicle fees.....	692,663	Engineering.....	131,814
Miscellaneous.....	312,938		3,929,246
Grand total.....	14,261,209	Purchase and repair of machinery, equipment, etc.....	11,912
		State total.....	3,941,158
		Summary:	
		Construction and maintenance.....	8,539,598
		Administration and engineering.....	504,021
		All other items.....	1,005,662
		Grand total.....	10,049,281

¹ Includes \$562,578 county bonds which were transferred to State to meet Federal aid.

² Does not include approximately \$450,000 of bond interest charged against "miscellaneous expenditures" and included with "Purchase and repair of machinery equipment, etc."

TABLE 12.—Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued

SOUTH DAKOTA

INCOME		EXPENDITURES	
County and township:		Township:	
Township taxes.....	\$2,852,534	Road and bridge work.....	\$2,850,367
County taxes.....	6,331,625	County:	
County miscellaneous.....	410,067	Road and bridge construction.....	¹ 4,086,713
County motor-vehicle fees.....	648,528	Road and bridge maintenance.....	2,108,645
County and township total.....	10,242,754		6,195,358
State:		Payments on highway	
Highway bonds.....	3,007,644	bonds and warrants.....	\$102,408
Tax (one-tenth mill).....	195,325	Interest on highway bonds	
Federal aid.....	1,650,130	and warrants.....	303,144
Revolving fund.....	105,771		405,552
Miscellaneous.....	46,608	County and township total.....	² 9,451,277
State total.....	5,005,478	State:	
Summary:		Construction and maintenance.....	3,919,584
Bonds.....	3,007,644	Administration.....	210,468
Taxes.....	9,379,484	Engineering.....	165,530
Federal aid.....	1,650,130	Purchase of pipes and culverts.....	76,448
Motor-vehicle fees.....	648,528		4,372,030
Miscellaneous.....	562,446	Interest on highway bonds.....	\$31,250
Grand total.....	15,248,232	Purchase, and repair of ma-	
		chinery equipment, etc.....	334,410
			365,660
		State total.....	4,737,690
		Summary:	
		Construction and maintenance.....	12,848,284
		Administration and engineering.....	³ 350,484
		All other items.....	984,199
		Grand total.....	14,188,967

TENNESSEE

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$7,359,603	Road and bridge construction.....	\$3,355,000
Taxes.....	3,518,634	Road and bridge maintenance.....	1,889,441
Miscellaneous.....	556,836	Administration and engineering.....	212,246
County total.....	11,435,073		5,456,687
State:		Payments on highway	
Taxes.....	758,150	bonds.....	⁴ \$169,512
Motor-vehicle fees.....	1,386,378	Interest on highway	
Federal aid.....	1,685,453	bonds.....	⁴ 481,142
County bond funds transferred to		Purchase and repair of	
State.....	1,086,750	machinery, equipment,	
Miscellaneous.....	92,132	etc.....	262,205
State total.....	5,008,863		912,859
Summary:		County total.....	6,369,546
Bonds.....	8,446,353	State:	
Taxes.....	4,276,784	Construction.....	4,805,059
Motor vehicle fees.....	1,386,378	Maintenance.....	825,849
Federal aid.....	1,685,453	Administration and engineering.....	511,538
Miscellaneous.....	648,968		6,142,446
Grand total.....	16,443,936	Purchase and repair of machinery,	
		equipment, etc.....	185,455
		State total.....	6,327,901
		Summary:	
		Construction and maintenance.....	10,875,349
		Administration and engineering.....	723,784
		All other items.....	1,098,314
		Grand total.....	12,697,447

¹ Includes county administration and engineering amounting to approximately \$117,025.² Includes township road work amounting to \$2,850,367.³ State administration and engineering on State roads; engineering work for counties amounting to \$19,514, included under "All other items."⁴ Complete data as to payments of principal and interest not available. Total payments for principal and interest on highway bonds are estimated to have amounted to approximately \$2,000,000.

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

TEXAS

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$44,962,149	Road and bridge construction.....	\$13,691,076
Taxes.....	13,610,393	Road and bridge maintenance.....	12,133,177
Motor vehicle fees.....	1,852,562	Administration and engineering.....	1,710,528
Miscellaneous.....	4,550,630		27,534,781
County total.....	64,975,734	Payments on highway	
State:		bonds and warrants..	\$4,265,235
Motor vehicle fees.....	1,901,577	Interest on highway	
Federal aid.....	5,788,048	bonds and warrants..	3,926,584
Refunds from counties, etc.....	204,000	Purchase and repair of	
State total.....	7,893,625	machinery, equip-	
		ment, etc.....	1,405,671
			9,597,490
Summary:		County total.....	37,132,271
Bonds.....	44,962,149	State:	
Taxes.....	13,610,393	Construction.....	16,500,000
Federal aid.....	5,788,048	Administration and office engineer-	
Motor vehicle fees.....	3,734,139	ing.....	160,000
Miscellaneous.....	4,734,630		16,660,000
Grand total.....	72,869,359	Purchase and repair of machinery,	
		equipment, etc.....	115,000
		State total.....	16,775,000
		Summary:	
		Construction and maintenance.....	42,324,253
		Administration and engineering....	1,870,528
		All other items.....	9,712,490
		Grand total.....	53,907,271
		Work on State highway system:	
		Construction by State.....	16,500,000
		Construction by counties.....	4,904,724
		Maintenance by counties.....	2,603,750
			24,008,474
		Work on county highway systems:	
		Construction.....	8,786,352
		Maintenance.....	9,519,427
			18,305,779

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

UTAH

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$1,280,932	Road and bridge construction.....	\$997,027
Taxes.....	1,611,758	Road and bridge maintenance.....	397,935
Miscellaneous.....	180,785	Administration and engineering....	37,774
County total.....	3,073,475		1,432,736
State:		Interest and payment on	
State road bonds.....	1 1,214,648	highway bonds.....	\$205,475
State road tax in counties.....	810,065	Purchase and repair of	
Federal and forest aid.....	862,712	machinery, equipment,	
Motor vehicle fees.....	478,474	etc.....	145,188
Miscellaneous.....	120,992		350,663
State total.....	3,486,891	County total.....	1,783,399
Summary:		State:	
Bonds.....	2,495,580	Road construction.....	2,181,617
Taxes.....	2,421,823	Bridge construction and maintenance.....	116,591
Federal and forest aid.....	862,712	Road maintenance.....	273,204
Motor vehicle fees.....	478,474	Forest road work.....	284,320
Miscellaneous.....	301,777	Administration.....	42,831
Grand total.....	6,560,366	Engineering.....	56,813
			2,955,376
		Interest and payment on	
		highway bonds.....	\$405,000
		Purchase and repair of	
		machinery, equipment,	
		etc.....	30,939
			435,939
		State total.....	3,391,315
		Summary:	
		Construction and maintenance.....	4,250,694
		Engineering and administration.....	137,418
		All other items.....	786,602
		Grand total.....	5,174,714

VERMONT

INCOME		EXPENDITURES	
State and town:		Town:	
Town bonds.....	\$100,472	Road construction.....	\$106,196
Town taxes.....	917,194	Road maintenance.....	1,092,998
State tax (5 per cent).....	138,747	Town total.....	1,199,194
Motor vehicle fees.....	627,588		
Federal aid.....	135,289	State:	
State appropriation.....	224,063	Road construction.....	799,775
State and town total.....	2,143,353	Bridge construction.....	142,776
		General administration.....	8,739
Summary:		State, total.....	951,290
Bonds.....	100,472	Summary:	
Taxes.....	1,055,941	Construction and maintenance.....	2,141,745
Motor vehicles.....	627,588	General administration.....	8,739
Federal aid.....	135,289	Grand total.....	2,150,484
Miscellaneous.....	224,063		
Grand total.....	2,143,353		

1 State also received \$155,791 of county bonds for construction of State roads.

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

VIRGINIA

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$5,519,711	Road and bridge construction.....	\$3,593,383
Taxes.....	4,313,339	Road and bridge maintenance.....	3,314,068
Miscellaneous.....	944,945	Administration and engineering.....	208,446
County total.....	10,777,995		7,115,897
State:		Payment on highway bonds.....	\$529,621
State road tax.....	1,374,381	Interest on highway bonds.....	572,349
Road appropriation.....	1,525,810	Purchase and repair of machinery, equipment, etc.....	151,078
Convict labor appropriation.....	320,500		1,253,048
Miscellaneous refunds and transfers.....	842,001	County total.....	8,371,145
Federal aid.....	980,806		
Motor vehicle fees.....	1,926,624	State:	
Miscellaneous.....	84,026	Road construction.....	4,435,124
State total.....	7,054,148	Bridge construction.....	223,779
Summary:		Resurfacing.....	542,351
Bonds.....	5,519,711	Maintenance.....	1,189,490
Taxes.....	5,687,720	Administration and engineering.....	563,036
Federal aid.....	980,806	Field engineering.....	160,467
Motor vehicle fees.....	1,926,624	State total.....	7,114,247
Miscellaneous.....	2,717,282		
Grand total.....	17,832,143	Summary:	
		Construction and maintenance.....	13,300,395
		Administration and engineering.....	931,949
		All other items.....	1,253,048
		Grand total.....	15,485,392

WASHINGTON

INCOME		EXPENDITURES	
County and district:		County:	
County bonds.....	\$4,914,339	Road and bridge construction.....	\$9,614,337
County and district taxes.....	8,933,472	Road and bridge maintenance.....	1,563,037
Miscellaneous.....	1,789,415	Administration and engineering.....	315,013
County and district total.....	15,637,226		11,492,387
State:		Payments on highway bonds.....	\$1,064,110
Taxes.....	3,005,211	Interest on highway bonds.....	945,569
Motor vehicle fees.....	3,375,600	Purchase and repair of machinery, equipment, etc.....	766,576
Gasoline tax.....	500,000		2,776,255
Federal and forest aid.....	537,794	County total.....	14,268,642
Transfers from counties.....	779,388		
Miscellaneous.....	25,000	State:	
State total.....	8,222,993	Construction, "State Roads".....	6,069,675
Summary:		Construction, "Permanent Highways".....	1,386,157
Bonds.....	4,914,339	Maintenance, "State Roads".....	1,450,000
Taxes.....	12,718,071	Construction, forest roads.....	274,500
Federal and forest aid.....	537,794	Maintenance, "Permanent Highways".....	371,933
Motor vehicle fees.....	3,375,600	Administration.....	75,079
Gasoline tax.....	500,000	Engineering.....	342,743
Miscellaneous.....	1,814,415	State total.....	9,970,087
Grand total.....	23,860,219	Summary:	
		Construction and maintenance.....	20,729,639
		Administration and engineering.....	732,835
		All other items.....	2,776,255
		Grand total.....	24,238,729

¹ Of this, \$865,904 was distributed to counties as State aid.² Includes \$1,846,310 of State appropriations.³ Includes \$865,904 of State-aid funds to which counties must have added at least as much.

TABLE 12.—Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued

WEST VIRGINIA

INCOME		EXPENDITURES	
County:		County:	
Bonds.....	\$3,775,066	Road and bridge construction.....	\$5,565,000
Taxes.....	5,418,257	Road and bridge maintenance.....	1,426,626
Miscellaneous (State aid, etc.).....	1,503,152	Administration and engineering.....	325,987
County total.....	10,696,475		7,317,613
State:		Payments on highway	
Highway bonds.....	15,000,000	bonds.....	\$326,307
Motor vehicle fees.....	1,938,000	Interest on highway	
Federal aid.....	1,057,652	bonds.....	2 352,925
State total.....	17,995,652	Purchase and repair of	
		machinery, equip-	
		ment, etc.....	185,857
			865,089
Summary:		County total.....	8,182,702
Bonds.....	18,775,066	State:	
Taxes.....	5,418,257	Road and bridge construction.....	1,275,613
Motor vehicle fees.....	1,938,000	State-aid construction.....	433,758
Federal aid.....	1,057,652	Administration.....	63,000
Miscellaneous.....	48,500	Engineering.....	105,000
Grand total.....	27,237,475	State total.....	1,877,371
		Summary:	
		Construction and maintenance.....	8,700,997
		Administration and engineering..	493,987
		All other items.....	865,089
		Grand total.....	10,060,073

WISCONSIN

INCOME		EXPENDITURES	
County and township:		Township:	
County bonds.....	\$8,004,232	Road and bridge work.....	\$7,401,032
County taxes.....	9,247,790	County:	
County miscellaneous.....	4,731,955	Road and bridge construction.....	12,653,827
Township taxes, etc.....	8,267,869	Road and bridge maintenance.....	* 6,488,944
County and township total.....	30,251,846	Administration and engineering....	418,046
State:			19,560,817
Tax.....	1,700,000	Payments on highway-	
Appropriation.....	885,000	way bonds.....	\$644,410
Motor vehicle fees.....	2,627,122	Interest on highway	
Federal aid.....	2,443,597	bonds.....	295,178
Transfers from counties.....	3,023,016	Purchase and repair of	
Rentals, machinery and equipment	450,836	machinery, equipment	
Reimbursements for engineering...	319,864	etc.....	1,395,455
Miscellaneous.....	27,320		2,335,043
State total.....	11,476,755	County total.....	21,895,860
Summary:		County and township total....	29,296,892
Bonds.....	8,004,232	State:	
Taxes.....	22,238,675	Construction, trunk lines.....	8,524,708
Federal aid.....	2,443,597	Construction, State-aid.....	660,131
Motor vehicle fees.....	3,424,146		9,184,839
Miscellaneous.....	5,617,951	Maintenance, trunk lines \$2,318,027	
Grand total.....	41,728,601	Administration.....	164,127
		Engineering.....	319,864
			11,986,857
		Purchase and repair of machinery,	
		equipment, etc.....	430,019
		State total.....	12,416,876
		Summary:	
		Construction and maintenance....	38,046,669
		Administration and engineering...	902,037
		All other items.....	2,765,062
		Grand total.....	41,713,768

1 State highway bonds sold late in year.

2 Data incomplete. Total payments, approximately \$950,000.

TABLE 12.—*Highway income and expenditures of States, counties, and local communities for all rural highway purposes during 1921—Continued*

INCOME		EXPENDITURES	
County:		County:	
Taxes, etc.....	\$1,853,463	Road and bridge construction.....	\$643,009
County total.....	1,853,463	Road and bridge maintenance.....	280,718
		Administration and engineering.....	41,021
State:			964,748
Bonds.....	700,000	Purchase and repair of machinery, equipment, etc.....	59,887
Taxes.....	106,200	County total.....	1,024,635
Federal aid.....	999,079	State:	
Federal forest funds.....	215,185	Construction.....	2,326,052
Motor vehicle fees.....	290,000	Maintenance.....	326,203
Oil royalties.....	284,409	Administration.....	115,588
State appropriations.....	200,000	Engineering.....	57,771
Donations.....	234,306		2,825,614
From counties for rental of equipment.....	125,189	Payments on highway bonds.....	\$290,000
Miscellaneous.....	296,548	Interest on highway bonds.....	106,200
State total.....	3,450,916	Purchase and repair of machinery, equipment, etc.....	224,050
Federal, Yellowstone Park.....	104,500		620,250
Summary:		State total.....	3,445,864
Bonds.....	700,000	Construction and maintenance	
Taxes.....	1,959,663	Yellowstone Park.....	117,564
Federal funds.....	1,318,764	Federal forest road construction.....	110,772
Motor vehicle fees.....	290,000	Federal forest road maintenance.....	6,049
Miscellaneous.....	1,140,452	Federal forest road engineering.....	20,528
Grand total.....	5,408,879	Forest roads total.....	137,349
		Summary:	
		Construction and maintenance.....	3,810,367
		Administration and engineering.....	234,903
		All other items.....	680,137
		Grand total.....	4,725,412

TABLE 13.—*Showing highway expenditures per square mile of area, per mile of rural road, per capita, and miles of rural road per square mile of land area*

States	Total expenditures, 1921, for all rural highway purposes	Total land area	Expenditure per square mile of area	Total mileage of rural road, 1921	Expenditure per mile of road	Population, 1920 census	Expenditure per capita	Mileage of road per square mile of land area
		Sq. miles		Miles				Miles
Alabama.....	\$5,607,835	51,279	\$109.35	58,410	\$96.00	2,348,174	\$2.39	1.14
Arizona.....	10,648,485	113,810	93.56	21,227	501.65	334,162	31.87	.19
Arkansas.....	21,211,014	52,525	403.83	74,866	283.32	1,752,204	12.11	1.43
California.....	41,822,972	155,652	268.70	75,889	551.11	3,426,861	12.20	.49
Colorado.....	9,048,821	103,658	87.29	48,143	187.96	939,629	6.63	.46
Connecticut.....	8,445,716	4,820	1,752.22	12,152	695.01	1,380,631	6.12	2.52
Delaware.....	6,035,637	1,965	3,071.57	3,933	1,534.61	223,003	27.07	2.00
Florida.....	9,588,133	54,861	174.77	27,643	346.86	968,470	9.90	.50
Georgia.....	15,816,594	58,725	270.10	94,912	167.12	2,895,832	5.48	1.62
Idaho.....	11,807,383	83,354	141.65	31,099	379.67	431,866	27.34	.37
Illinois.....	39,619,448	56,043	706.65	96,326	411.31	6,485,280	6.11	1.72
Indiana.....	54,502,332	36,045	1,512.06	76,246	714.82	2,930,390	18.60	2.12
Iowa.....	39,324,553	55,586	707.45	104,082	377.82	2,404,021	16.36	1.87
Kansas.....	22,670,107	81,774	277.23	128,552	176.35	1,769,257	12.81	1.57
Kentucky.....	12,622,663	40,181	314.14	68,704	183.73	2,416,630	5.22	1.71
Louisiana.....	14,022,003	45,409	308.79	39,803	352.29	1,798,509	7.80	.87
Maine.....	8,701,911	29,895	291.08	21,483	405.06	768,014	11.33	.72
Maryland.....	10,298,136	9,941	1,035.93	14,772	697.14	1,449,661	7.10	1.49
Massachusetts.....	19,535,631	8,039	2,430.10	18,868	1,035.38	832,356	5.07	2.34
Michigan.....	55,572,618	57,480	968.82	77,283	719.08	3,668,412	15.15	1.34
Minnesota.....	38,779,560	80,858	479.60	107,103	362.08	2,387,125	16.25	1.32
Mississippi.....	20,308,289	46,362	438.04	53,085	382.56	1,790,618	11.34	1.14
Missouri.....	16,127,659	68,727	234.66	111,521	144.62	3,404,055	4.74	1.62
Montana.....	10,383,157	146,201	71.20	64,732	160.40	548,889	18.92	.44
Nebraska.....	10,527,609	476,808	137.06	86,556	121.63	1,296,372	8.12	1.13
Nevada.....	2,110,952	109,821	19.22	26,057	81.01	77,407	27.27	.24
New Hampshire.....	3,699,421	9,031	409.63	13,841	267.28	443,083	8.35	1.53
New Jersey.....	28,096,070	7,514	3,725.77	14,066	1,998.15	3,155,900	8.90	1.87
New Mexico.....	4,259,005	122,003	34.77	45,549	93.50	360,350	11.82	.37
New York.....	57,025,011	47,654	1,196.65	81,878	696.36	10,385,227	5.49	1.72
North Carolina.....	29,323,700	48,740	601.64	68,204	429.94	2,559,123	11.46	1.40
North Dakota.....	7,247,231	70,183	103.26	106,523	68.03	646,872	11.20	1.52

TABLE 13.—*Showing highway expenditures per square mile of area, per mile of rural road, per capita, and miles of rural road per square mile of land area—Contd.*

States	Total expenditures, 1921, for all rural highway purposes	Total land area	Expenditure per square mile of area	Total mileage of rural road, 1921	Expenditure per mile of road	Population, 1920 census	Expenditure per capita	Mileage of road per square mile of land area
		<i>Sq. miles</i>		<i>Miles</i>				<i>Miles</i>
Ohio.....	\$76,579,987	40,740	\$1,879.72	84,219	\$909.30	5,759,394	\$13.30	2.07
Oklahoma.....	14,679,891	69,414	211.48	134,262	108.53	2,028,283	7.24	1.93
Oregon.....	27,968,913	95,607	292.54	45,475	615.04	783,389	35.70	2.48
Pennsylvania.....	75,349,553	44,832	1,680.71	90,991	828.10	8,720,017	8.64	2.03
Rhode Island.....	2,828,234	1,067	2,650.64	2,274	1,243.73	604,397	4.68	2.13
South Carolina.....	10,049,281	30,495	329.54	61,849	162.48	1,683,724	5.97	2.03
South Dakota.....	14,188,967	76,868	184.59	115,485	122.86	636,647	22.29	1.50
Tennessee.....	12,697,447	41,687	304.59	62,546	203.01	2,337,885	5.43	1.50
Texas.....	53,907,271	262,398	205.44	167,685	321.48	4,663,228	11.56	.64
Utah.....	5,174,714	82,184	62.96	23,047	224.53	449,396	11.51	.28
Vermont.....	2,150,484	9,124	235.69	14,677	146.52	352,428	6.10	1.61
Virginia.....	15,485,392	40,262	384.62	59,080	262.11	2,309,187	6.71	1.47
Washington.....	24,238,729	66,836	362.66	45,816	529.04	1,356,621	17.87	.69
West Virginia.....	10,060,073	24,022	418.79	35,173	286.02	1,463,701	6.87	1.46
Wisconsin.....	41,713,768	55,256	754.92	78,679	530.18	2,632,067	15.85	1.42
Wyoming.....	4,725,412	97,594	48.42	46,528	101.56	194,402	24.31	.48
Totals and averages.....	1,036,587,772	2,973,830	348.57	2,941,294	352.43	105,273,049	9.85	.99

TABLE 14.—*Total income for all rural highway purposes. Consolidated data for all States, counties, townships, and districts for the years 1904, 1914, and 1921*

States	Total revenue applied to roads and bridges		
	1921	1914	1904
Alabama.....	\$6,569,567	\$3,949,019.00	\$1,576,434.27
Arizona.....	10,299,916	982,721.22	109,309.43
Arkansas.....	22,886,970	1,522,696.20	1,395,342.80
California.....	49,691,895	19,171,984.66	2,157,396.36
Colorado.....	8,765,443	1,937,546.23	707,223.63
Connecticut.....	9,945,627	3,640,962.75	1,195,125.01
Delaware.....	5,487,318	511,628.00	90,802.88
Florida.....	11,939,922	2,280,255.09	577,577.10
Georgia.....	17,332,046	3,688,172.25	2,080,872.33
Idaho.....	13,113,443	1,371,468.59	311,588.00
Illinois.....	43,664,784	8,734,712.77	4,210,950.23
Indiana.....	57,807,614	14,233,985.93	4,335,108.00
Iowa.....	37,991,782	10,187,507.32	3,106,607.50
Kansas.....	23,387,620	5,544,048.00	1,232,817.45
Kentucky.....	11,528,264	2,474,621.00	2,148,689.03
Louisiana.....	23,230,916	1,777,572.12	951,872.86
Maine.....	7,890,840	2,642,006.79	1,472,393.70
Maryland.....	10,725,960	6,000,652.03	873,470.50
Massachusetts.....	19,269,069	6,091,875.30	2,871,222.47
Michigan.....	55,662,357	9,261,998.00	3,179,787.88
Minnesota.....	40,357,925	6,458,940.07	1,961,629.24
Mississippi.....	25,738,917	3,960,377.00	1,675,485.45
Missouri.....	16,494,975	5,513,048.71	2,368,972.79
Montana.....	10,031,901	2,888,400.61	404,097.81
Nebraska.....	13,446,782	1,796,277.69	878,547.40
Nevada.....	2,291,344	245,013.65	46,875.85
New Hampshire.....	3,882,388	1,590,464.11	872,606.35
New Jersey.....	21,657,834	7,208,287.08	3,274,811.25
New Mexico.....	4,896,667	536,398.82	165,651.56
New York.....	67,359,330	23,231,964.02	5,692,514.82
North Carolina.....	32,841,625	5,215,490.78	1,358,687.00
North Dakota.....	6,715,400	2,402,383.52	550,340.72
Ohio.....	82,275,668	14,334,245.98	5,706,083.61
Oklahoma.....	19,516,915	2,112,680.80	774,775.59
Oregon.....	28,532,824	5,310,466.76	796,375.97
Pennsylvania.....	79,288,269	10,424,580.00	4,887,265.68
Rhode Island.....	3,324,007	446,496.05	405,010.85
South Carolina.....	14,261,209	1,024,480.37	745,701.50
South Dakota.....	15,248,232	1,217,809.42	383,283.07
Tennessee.....	16,443,936	2,370,560.16	1,621,777.15
Texas.....	72,869,359	9,920,079.11	4,138,157.49
Utah.....	6,560,366	803,070.63	218,675.78
Vermont.....	2,143,353	1,023,941.01	567,397.33
Virginia.....	17,832,143	3,224,528.82	687,751.06
Washington.....	23,560,219	7,944,717.38	1,436,070.19
West Virginia.....	27,237,475	2,483,747.00	893,285.28
Wisconsin.....	41,728,601	9,880,240.50	2,181,262.38
Wyoming.....	5,408,879	669,661.16	345,931.73
Total.....	1,149,437,896	240,263,784.46	79,623,616.33

TABLE 15.—*Highway bonds for rural road and bridge purposes outstanding January 1, 1915, and January 1, 1922. Consolidated data for all States, counties, townships, and districts*

State	Outstanding Jan. 1, 1915			Outstanding Jan. 1, 1922		
	Total State and local bonds	State bonds	Local bonds	Total State and local bonds	State bonds	Local bonds
Alabama.....	\$5,418,000.00	-----	\$5,418,000.00	\$8,758,500	-----	\$8,758,500
Arizona.....	295,000.00	-----	295,000.00	18,501,000	-----	18,501,000
Arkansas.....	1,467,066.00	-----	1,467,066.00	50,955,700	-----	50,955,700
California ¹	32,277,000.00	\$18,000,000	14,277,000.00	101,258,000	\$55,400,000	45,858,000
Colorado.....	90,500.00	-----	90,500.00	2,000,000	2,000,000	-----
Connecticut.....	7,000,000.00	7,000,000	(²)	400,000	-----	400,000
Delaware.....	1,280,000.00	-----	1,280,000.00	7,144,000	3,929,000	3,215,000
Florida.....	5,959,199.00	-----	5,959,199.00	24,130,200	-----	24,130,200
Georgia.....	127,500.00	-----	127,500.00	15,659,000	-----	15,659,000
Idaho.....	1,339,000.00	505,000	834,000.00	19,772,200	³ 3,615,500	16,156,700
Illinois.....	798,761.55	-----	798,761.55	20,617,300	5,000,000	15,617,300
Indiana.....	43,095,357.34	-----	42,095,357.34	62,415,900	-----	62,415,900
Iowa.....	1,960,780.00	-----	1,960,780.00	25,677,800	-----	25,677,800
Kansas.....	(²)	(⁴)	(²)	9,182,400	-----	9,182,400
Kentucky.....	705,000.00	-----	705,000.00	7,135,800	-----	7,135,800
Louisiana.....	1,588,835.00	-----	1,588,835.00	28,571,400	-----	28,571,400
Maine.....	785,000.00	785,000,000	(²)	6,439,300	6,264,500	174,800
Maryland.....	12,853,700.00	12,410,000	443,700.00	18,212,900	15,700,000	2,512,900
Massachusetts.....	10,305,522.82	8,699,500	1,606,022.82	26,820,800	8,097,500	18,723,300
Michigan.....	10,389,029.43	-----	10,389,029.43	55,234,200	20,000,000	35,234,200
Minnesota.....	1,411,889.00	-----	1,411,889.00	21,402,600	-----	21,402,600
Mississippi.....	8,327,172.00	-----	8,327,172.00	37,912,400	-----	37,912,400
Missouri.....	522,500.00	-----	522,500.00	14,942,600	-----	14,942,600
Montana.....	2,224,050.72	-----	2,224,050.72	9,775,800	-----	9,775,800
Nebraska.....	(²)	(²)	(²)	2,848,000	-----	2,848,000
Nevada.....	38,000.00	-----	38,000.00	1,438,000	600,000	838,000
New Hampshire.....	675,000.00	675,000	(²)	570,100	225,000	345,100
New Jersey.....	14,011,337.00	-----	14,011,337.00	25,833,000	-----	25,833,000
New Mexico.....	157,000.00	(⁵)	157,000.00	2,001,100	1,420,000	581,100
New York.....	76,822,088.00	65,000,000	11,822,088.00	121,681,100	100,000,000	21,681,100
North Carolina.....	8,955,300.00	-----	8,955,300.00	55,808,500	10,552,600	45,255,900
North Dakota.....	(²)	(²)	(²)	-----	-----	-----
Ohio.....	31,175,968.53	(²)	31,175,968.53	70,936,500	-----	70,936,500
Oklahoma.....	1,440,000.00	-----	1,440,000.00	11,547,600	-----	11,547,600
Oregon.....	1,615,000.00	-----	1,615,000.00	42,891,300	31,700,000	11,191,300
Pennsylvania.....	27,547,659.00	-----	27,547,659.00	⁶ 50,000,000	50,000,000	(⁷)
Rhode Island.....	1,800,000.00	1,800,000	(²)	2,952,000	2,600,000	352,000
South Carolina.....	460,000.00	(⁴)	460,000.00	13,081,000	3,500,000	13,081,000
South Dakota.....	(²)	(⁴)	(²)	3,649,000	-----	149,000
Tennessee.....	6,898,277.00	-----	6,898,277.00	28,693,500	-----	28,693,500
Texas.....	14,615,017.00	-----	14,615,017.00	96,517,900	-----	96,517,900
Utah.....	541,500.00	260,000	281,500.00	11,785,200	7,000,000	4,785,200
Vermont.....	(²)	(²)	(²)	-----	-----	-----
Virginia.....	5,650,994.93	-----	5,650,994.93	14,936,300	-----	14,936,300
Washington.....	1,555,000.00	190,000	1,365,000.00	20,547,900	-----	20,547,900
West Virginia ⁸	1,303,000.00	-----	1,303,000.00	37,727,900	15,000,000	22,727,900
Wisconsin.....	281,078.00	-----	281,078.00	10,201,600	-----	10,201,600
Wyoming.....	(²)	(⁴)	(²)	3,745,000	2,970,000	775,000
Total.....	344,763,082.32	115,324,500	229,438,582.32	1,222,312,300	345,574,100	\$76,738,200

¹ All data is for fiscal year ending June 30, 1921, except that for total outstanding State bonds which is for calendar year.

² No bonds reported.

³ Outstanding Sept. 30, 1922.

⁴ Constitution prohibits the State participating in works of internal improvement.

⁵ In 1912 legislature authorized \$500,000 State bonds, but none sold until 1915.

⁶ State bonds only.

⁷ No data.

⁸ Up to July 1, 1915.

TABLE 16.—Total combined car and truck registrations, 1913 to 1921 inclusive

States	1913	1914	1915	1916	1917	1918	1919	1920	1921
Alabama	5,300	8,672	11,634	21,636	32,873	46,171	58,898	74,637	82,366
Arizona	3,613	5,040	7,753	12,300	19,890	23,905	28,979	34,601	35,611
Arkansas	3,553	5,642	8,021	15,000	28,693	41,458	49,450	59,082	67,408
California	¹ 100,000	123,504	163,797	232,440	306,916	407,761	477,450	583,623	680,614
Colorado	13,000	17,756	28,894	43,296	87,460	83,244	104,865	129,255	145,739
Connecticut	23,200	27,786	41,121	56,048	74,645	86,067	102,410	119,134	134,141
Delaware	2,440	3,050	5,052	7,102	10,700	12,955	16,152	18,300	21,413
District of Columbia	4,000	4,833	8,009	13,118	15,493	30,490	35,400	34,161	40,625
Florida	² 3,000	² 3,368	² 10,850	² 20,718	² 27,000	54,186	55,400	73,914	97,957
Georgia	² 20,000	20,915	25,000	46,025	70,324	104,676	137,000	146,000	131,976
Idaho	2,113	3,346	7,071	12,999	24,731	32,289	42,220	50,861	51,294
Illinois	94,656	131,140	180,832	248,429	340,292	389,620	478,438	568,924	663,348
Indiana	45,000	66,500	96,915	139,065	192,194	227,160	227,255	333,067	400,342
Iowa	70,299	106,087	145,109	198,587	254,462	278,313	364,043	437,378	461,084
Kansas	34,550	49,374	72,520	112,122	159,343	189,163	228,600	294,159	289,539
Kentucky	7,210	11,766	19,500	31,500	47,420	65,884	90,008	112,683	126,802
Louisiana	¹ 10,000	¹ 12,000	11,380	17,000	28,394	40,000	51,000	73,000	77,885
Maine	11,022	15,700	21,545	30,972	41,499	44,572	53,425	62,907	77,527
Maryland	14,217	20,213	31,047	44,245	60,943	74,666	95,634	102,841	136,249
Massachusetts	62,600	77,246	102,633	136,809	174,274	193,497	247,182	274,498	360,732
Michigan	54,366	76,389	114,845	160,052	247,006	262,125	325,813	412,717	476,452
Minnesota	46,000	67,862	93,269	³ 46,000	⁴ 54,000	204,458	259,741	324,166	323,475
Mississippi	3,850	5,694	9,669	25,000	36,600	48,400	59,000	68,486	65,039
Missouri	38,140	54,468	76,462	103,587	147,528	188,040	244,363	297,008	346,437
Montana	5,916	10,200	14,540	25,105	42,749	51,053	59,324	60,650	58,785
Nebraska	13,411	16,385	59,000	101,200	148,101	173,374	200,000	219,000	238,704
Nevada	1,091	1,487	2,009	4,919	7,160	8,159	9,305	10,464	10,821
New Hampshire	8,237	9,571	13,449	17,508	22,267	24,817	31,625	34,680	42,039
New Jersey	51,360	62,961	81,848	109,414	141,918	155,519	190,873	227,737	272,994
New Mexico	1,898	3,090	5,100	8,228	14,086	17,647	18,082	22,100	22,559
New York	134,495	168,223	255,242	314,222	406,016	459,288	566,511	676,205	812,031
North Carolina	10,000	14,677	21,000	33,904	55,950	72,313	109,017	140,860	148,627
North Dakota	15,187	17,347	24,908	40,446	62,993	71,678	82,885	90,840	92,644
Ohio	86,156	122,504	181,332	252,431	346,772	412,775	511,031	621,390	720,634
Oklahoma	² 3,000	13,500	25,032	52,718	100,199	121,500	144,500	212,880	221,300
Oregon	13,975	16,447	23,585	33,917	48,632	63,324	83,332	103,790	118,198
Pennsylvania	80,178	112,854	160,137	230,578	325,153	394,186	482,117	570,164	689,589
Rhode Island	10,295	12,331	16,362	21,406	37,046	36,218	44,833	50,477	54,608
South Carolina	10,000	14,000	15,000	¹ 25,000	38,332	55,492	70,143	93,843	89,836
South Dakota	14,457	20,929	28,724	44,271	67,158	90,521	104,628	120,395	119,274
Tennessee	¹ 10,000	⁵ 19,769	⁶ 7,618	¹ 30,000	¹ 48,000	¹ 63,000	80,422	101,852	117,025
Texas	¹ 32,000	¹ 40,000	¹ 40,000	¹ 125,000	192,961	251,118	331,310	427,693	467,616
Utah	4,000	2,253	9,177	13,507	24,076	32,273	35,236	42,616	47,485
Vermont	5,913	¹ 8,475	¹ 11,499	15,671	21,633	22,553	26,807	31,625	37,265
Virginia	9,022	13,984	21,357	35,426	55,661	72,228	94,100	115,470	139,200
Washington	24,178	30,253	38,823	60,734	91,337	117,278	148,775	173,920	185,359
West Virginia	5,144	6,159	13,279	20,571	31,300	38,750	50,203	60,664	93,940
Wisconsin	34,346	53,161	79,741	115,645	158,637	196,253	236,290	293,298	341,841
Wyoming	1,584	2,428	3,976	7,125	12,523	16,200	21,371	23,926	26,866
Total	1,258,062	1,711,339	2,445,666	3,512,996	4,983,340	6,146,617	7,565,446	9,231,941	10,463,295

¹ Estimated.² State registration only.³ Cars registered during 1916 only. Total in State approximately 138,000.⁴ Cars registered during 1917 only. Total approximately 160,000.⁵ Total cumulative registrations, annual registration not required.⁶ Cars registered during 1915 only. Total approximately 26,000.

TABLE 17.—*Total motor vehicles and license revenues for years 1903-1921*

State	1903	1904	1905	1906	1907	1908	1909
Alabama ¹							
Arizona							
Arkansas ¹							
California ¹							
Colorado ²			\$7,857	\$11,240	\$15,830	\$16,970	\$19,048
Connecticut							
Delaware ¹					11,686	61,747	57,567
Florida					1,586	2,175	5,472
Georgia ¹							
Idaho							
Illinois					17,541	13,329	30,827
Indiana ¹							
Iowa							
Kansas							
Kentucky							
Louisiana							
Maine			1,472	1,298	1,708	2,248	3,342
Maryland							
Massachusetts	\$17,684	\$19,162	24,490	33,085	92,091	121,488	169,974
Michigan ¹				8,352	12,798	5,882	8,291
Minnesota ¹							
Mississippi							
Missouri ¹					13,168	11,123	20,503
Montana							
Nebraska							17,054
Nevada							
New Hampshire							
New Jersey				55,000	56,473	82,000	280,828
New Mexico							
New York	\$9,181	14,249	25,953	35,463	44,580	53,736	81,773
North Carolina ¹							
North Dakota							
Ohio							46,577
Oklahoma							
Oregon					708	2,103	3,815
Pennsylvania				42,460	59,604	75,646	103,410
Rhode Island			1,684	2,146	2,330	31,108	50,266
South Carolina ¹							\$850
South Dakota			365	450	700	841	2,102
Tennessee ¹							2,102
Texas							
Utah							1,952
Vermont							25,218
Virginia ¹							
Washington ¹			688	1,494	2,746	3,184	8,554
West Virginia ¹				1,718	2,075	3,000	3,150
Wisconsin							
Wyoming							
Total	26,865	33,411	62,509	192,706	335,624	486,380	942,675

¹ Revenues not applicable to roads.² No State registration.³ 1901 receipts, \$954; 1902, \$1,082.

TABLE 17.—*Total motor vehicles and license revenues for years 1903-1921—Contd.*

State	1910	1911	1912	1913	1914	1915
Alabama ¹		\$55,000	\$64,489	\$83,000	\$113,202	\$180,744
Arizona		7,400	12,323	27,545	34,077	45,579
Arkansas ¹		7,750	15,000	17,411	56,420	80,551
California ¹	\$30,495	50,445	¹ 50,000	75,000	1,338,785	2,027,432
Colorado ²		47,000	¹ 50,000	60,833	80,047	120,801
Connecticut	159,174	230,925	¹ 250,000	316,667	406,623	536,970
Delaware ¹	9,399	13,279	17,988	24,735	35,672	55,596
District of Columbia				13,228	20,147	29,396
Florida		2,900	10,052	⁴ 6,000	⁴ 6,736	60,000
Georgia ¹	6,900	13,674	12,000	12,000	104,575	125,000
Idaho				35,160	58,580	121,259
Illinois	45,468	124,239	364,873	507,629	699,725	924,906
Indiana ¹	⁵ 32,000	13,000	17,009	150,345	432,309	587,318
Iowa		178,814	404,862	787,411	1,040,136	1,533,054
Kansas				186,066	268,471	387,588
Kentucky	23,340	23,355	37,260	52,000	85,883	117,117
Louisiana		24,000	⁶ 30,000	⁷ 10,000	⁷ 12,000	75,600
Maine	4,938	7,340	102,801	138,509	192,542	268,412
Maryland		56,210	95,000	150,000	268,231	386,565
Massachusetts	403,301	504,162	616,236	764,154	923,961	1,235,724
Michigan ¹	73,801	106,913	143,388	190,329	(⁸)	373,833
Minnesota ¹		28,912	55,500	40,000	132,398	⁷ 160,540
Mississippi			25,855	24,735	51,146	76,700
Missouri ¹	31,527	55,506	117,362	173,510	235,873	323,289
Montana				12,000	27,000	33,120
Nebraska	29,532	47,114	20,462	26,000	34,325	⁷ 183,000
Nevada				3,323	4,331	7,875
New Hampshire	42,421	58,009	117,316	152,834	185,288	257,776
New Jersey	335,578	⁹ 350,000	469,471	661,446	814,536	1,062,923
New Mexico			9,040	15,084	19,663	29,625
New York	397,540	918,197	¹⁰ 1,000,000	1,275,727	1,529,852	1,991,181
North Carolina ¹		¹¹ 12,010	12,582	60,000	89,580	123,000
North Dakota		17,602	28,398	41,961	55,964	79,245
Ohio	124,000	190,712	337,303	457,538	685,457	984,622
Oklahoma		17,245	2,831	3,000	13,500	154,892
Oregon	7,479	27,316	53,297	56,873	77,592	108,881
Pennsylvania	321,985	429,523	597,723	841,062	1,185,039	1,665,276
Rhode Island	66,056	82,764	104,689	129,851	157,020	206,440
South Carolina ¹	¹ 1,800	² 2,100	3,261	10,000	14,000	15,000
South Dakota	3,010	4,111	1,492	89,170	125,000	⁷ 180,000
Tennessee ¹	3,190	4,558	7,238	⁷ 9,000	39,538	⁷ 34,000
Texas		78,000	¹⁰ 80,000	16,000	20,000	20,000
Utah	1,287	1,165	¹⁰ 1,800	3,000	4,852	⁷ 60,000
Vermont	40,000	60,635	80,799	111,460	154,267	218,480
Virginia ¹	20,670	35,576	57,440	83,611	120,814	176,875
Washington ¹	12,002	20,636	28,000	48,356	60,506	238,717
West Virginia ¹	8,020	13,378	¹⁰ 23,000	40,000	60,648	128,952
Wisconsin		¹² 46,000	124,303	190,770	293,580	431,977
Wyoming			¹⁰ 8,600	7,920	12,140	19,880
Total	2,234,913	3,967,475	5,661,043	8,192,253	12,382,031	18,245,711

¹ Revenues not applicable to roads.² No State registration.³ State registrations only.⁴ Total receipts, including 1910.⁵ Estimated—bill pending.⁶ Estimated.⁸ Registration law held unconstitutional.⁹ Net, above expenses.¹⁰ Estimated by State officials and Office of Public Roads.¹¹ Fiscal year ending June 30 each year.¹² The fee was \$2 for each automobile.

TABLE 17.—*Total motor vehicles and license revenues for year 1903-1921—Contd.*

State	1916	1917	1918	1919	1920	1921
Alabama.....	\$203,655	\$217,700	\$470,274	\$541,348.70	\$835,178.00	\$1,147,265.00
Arizona.....	73,000	117,643	142,288	164,753.68	192,368.92	195,969.75
Arkansas.....	150,000	205,176	410,649	500,970.00	591,464.50	856,543.60
California.....	2,192,699	2,846,030	3,524,036	4,468,721.67	5,714,717.40	6,834,059.52
Colorado.....	197,795	296,808	379,559	490,432.31	819,872.74	906,039.27
Connecticut.....	768,728	1,080,757	1,285,164	1,516,136.91	1,852,591.00	2,129,861.12
Delaware.....	85,249	133,883	232,449	286,333.00	329,980.00	375,469.00
Dist. of Columbia.....	47,624	55,928	220,753	274,184.00	266,285.00	209,583.00
Florida.....	127,176	170,000	345,775	401,317.40	554,695.14	734,845.50
Georgia.....	154,735	229,653	331,816	429,848.00	1,919,338.92	1,705,941.24
Idaho.....	213,758	412,641	576,555	729,702.94	882,034.51	841,212.93
Illinois.....	1,236,566	1,588,835	2,764,330	3,262,714.00	5,915,700.17	6,803,556.21
Indiana.....	817,285	1,096,159	1,293,128	1,558,740.50	2,029,694.00	2,422,227.00
Iowa.....	1,776,170	2,249,655	2,547,596	3,077,445.81	7,507,202.08	7,719,127.47
Kansas.....	585,762	830,878	978,837	1,150,000.00	1,419,338.50	1,400,030.00
Kentucky.....	184,741	287,314	402,250	565,520.21	815,549.31	1,771,887.02
Louisiana.....	112,000	166,835	240,000	306,000.00	390,000.00	453,276.00
Maine.....	363,562	491,695	570,171	685,570.25	818,755.50	1,004,730.25
Maryland.....	565,302	807,395	1,189,984	1,776,410.22	2,124,924.84	2,460,162.04
Massachusetts.....	1,602,958	1,969,994	2,184,821	2,667,853.85	3,560,231.70	4,717,389.30
Michigan.....	1,739,344	2,471,271	2,875,266	3,719,433.39	5,754,900.96	6,751,924.51
Minnesota.....	82,469	100,000	1,076,811	218,469.50	143,794.50	5,672,424.61
Mississippi.....	175,000	250,000	335,000	400,000.00	800,000.00	951,946.63
Missouri.....	439,315	617,942	1,394,762	1,725,076.70	2,111,696.85	2,505,353.90
Montana.....	52,768	290,936	350,914	407,848.00	416,245.00	594,520.50
Nebraska.....	311,334	451,303	536,897	304,450.55	2,800,000.00	2,824,811.25
Nevada.....	20,116	31,166	31,083	37,550.75	103,318.33	102,800.00
New Hampshire.....	344,434	425,305	509,335	599,621.25	654,702.04	876,322.14
New Jersey.....	1,406,806	1,923,164	2,431,757	2,931,902.15	3,503,936.76	3,974,063.75
New Mexico.....	47,865	80,843	105,631	111,150.00	200,000.00	198,632.77
New York.....	2,658,042	4,284,144	4,945,298	5,984,659.50	8,863,250.59	10,288,858.25
North Carolina.....	206,101	321,923	394,739	1,313,950.73	1,785,000.00	2,259,240.43
North Dakota.....	125,283	211,536	471,429	636,842.40	691,500.00	683,052.45
Ohio.....	1,286,405	1,766,427	2,125,426	2,593,000.00	6,400,000.00	6,894,159.73
Oklahoma.....	555,011	853,659	1,102,380	1,178,130.27	2,500,000.00	2,619,713.49
Oregon.....	146,232	196,787	461,422	602,239.00	2,085,168.50	2,334,931.25
Pennsylvania.....	2,325,057	3,268,025	4,048,186	5,090,921.00	8,090,873.04	9,470,174.31
Rhode Island.....	264,737	346,117	385,608	477,223.25	531,462.75	848,723.59
South Carolina.....	10,000	113,557	300,217	389,034.68	527,868.13	741,114.79
South Dakota.....	140,746	210,592	282,742	322,340.50	784,000.00	720,587.00
Tennessee.....	186,953	322,200	390,000	585,181.95	1,215,776.04	1,387,870.10
Texas.....	20,000	858,978	2,039,589	2,624,334.29	3,510,355.97	3,806,395.25
Utah.....	93,494	170,707	229,203	231,325.96	350,933.29	441,359.88
Vermont.....	297,992	363,541	398,856	460,190.87	555,422.38	668,288.50
Virginia.....	271,266	518,566	684,636	900,000.00	1,822,736.16	2,021,146.09
Washington.....	350,052	519,526	875,391	2,325,323.53	2,828,896.10	3,140,730.74
West Virginia.....	198,436	359,339	447,705	1,008,083.31	1,280,193.28	1,250,525.82
Wisconsin.....	615,721	861,278	2,076,701	2,502,852.00	3,127,073.00	3,671,645.50
Wyoming.....	35,625	57,421	80,000	102,114.50	267,179.35	288,121.88
Total.....	25,865,369	37,501,233	51,477,419	64,697,255.48	102,546,212.25	122,478,654.33

7 Estimated.

TABLE 18.—Motor vehicle registrations, revenues, and gasoline tax for the year 1921

State	Total motor cars and trucks	Passenger cars		Motor trucks and commercial cars	Trailers	Motor cycles	Total gross motor vehicle registration and license revenues (not including gasoline taxes)	Gross revenues from gasoline tax	Motor-vehicle revenues available for road work (not including gasoline taxes)	
		Private passenger cars	Taxis, buses, and cars for hire						By or under State highway department	Under direction of local authorities
Alabama	82,366	69,422	9,110	3,834		810	\$1,147,265.00	\$87,928.35	\$917,812.00	
Arizona	35,611	31,069	3,980	562		440	195,993.75		105,963.75	
Arkansas	67,408	66,480	1,928		4	174	856,543.60	2 170,000.00	256,963.08	\$599,580.52
California	680,614	645,522	35,092		3,421	17,729	6,834,089.52		3,018,192.36	3,018,192.36
Colorado	145,739	136,336	9,403		45	2,868	906,059.27	559,472.22	410,158.10	410,158.10
Connecticut	134,141	108,692	24,112	1,337		5,282	2,129,861.12	176,489.47	2,129,861.12	
Delaware	21,413	21,413			67	541	375,469.00		375,469.00	
District of Columbia	40,625	33,654	5,177	1,794		1,101	209,583.00			
Florida	97,957	83,111	14,846			1,296	734,845.50	283,867.15	570,401.51	
Georgia	131,976	131,976				1,232	1,705,941.24	302,157.82	1,705,941.24	
Idaho	51,294	46,935	4,359			744	841,212.93		210,303.23	630,909.70
Illinois	663,348	583,441	79,907			8,898	6,803,556.21		76,776,781.17	
Indiana	400,342	357,025	43,317		1,851	7,524	2,422,227.00		2,281,276.00	
Iowa	461,084	430,118	30,966		314	3,897	7,719,127.47		87,217,384.19	
Kansas	289,539	267,891	21,648			2,271	1,400,000.00		1,400,000.00	
Kentucky	126,802	110,602	15,025	1,175			1,771,887.02	411,938.95	1,771,887.02	
Louisiana	77,885	67,311	10,574			479	453,276.00		453,276.00	
Maine	77,527	67,591	9,936			1,525	1,004,750.25		11,496,460.64	
Maryland	136,249	120,231	16,018	4,421		5,271	2,460,162.04		1,750,000.00	
Massachusetts	300,732	305,471	55,261		472	12,048	4,717,389.30		14,717,389.30	
Michigan	476,452	426,687	49,765		4,330	6,195	6,751,924.51		3,135,040.24	3,126,456.14
Minnesota	323,475	291,100	24,375		820	3,150	5,672,424.61		5,672,424.61	
Mississippi	65,039	65,039					751,946.63		649,343.44	
Missouri	346,437	346,437				3,609	2,565,353.90		2,565,353.90	
Montana	58,785					472	594,520.50	228,799.33	274,016.52	274,016.52
Nebraska	238,704	219,781	19,923		322	1,866	2,824,811.25		2,116,746.94	705,582.31
Nevada	10,821	10,821				131	102,800.00		797,200.00	600.00
New Hampshire	42,039	36,994	5,045			2,358	876,322.14		790,120.36	
New Jersey	272,994	248,477	24,517		887	9,724	3,974,063.75		3,733,686.42	
New Mexico	22,559	21,155	1,404			152	198,632.77	333,288.33	194,051.79	

(See p. 86 for footnotes.)

TABLE 18.—Motor vehicle registrations, revenues, and gasoline tax for the year 1921—Continued

State	Total motor cars and trucks	Passenger cars		Motor trucks and commercial cars	Trailers	Motor cycles	Total gross motor vehicle registration and license revenues (not including gasoline taxes)	Gross revenues from gasoline tax	Motor-vehicle revenues available for road work (not including gasoline taxes)	
		Private passenger cars	Taxicabs, busses, and cars for hire						By or under State highway department	Under direction of local authorities
New York ¹³	812,031	630,791	148,553	32,687	3,213	26,998	\$10,288,858.25	19 \$506,018.76	\$7,716,643.69	\$2,572,214.56
North Carolina ⁹	148,627	134,884	13,743	—	—	1,274	2,259,240.43	—	2,259,240.43	—
North Dakota	92,644	90,221	2,423	—	—	811	683,052.45	—	201,526.23	201,526.23
Ohio	²⁰ 920,634	622,044	98,590	—	4,801	17,203	6,894,159.73	—	3,456,355.45	3,456,355.45
Oklahoma	221,300	3 221,300	—	—	—	1,013	2,619,713.49	—	3,250,125.45	2,354,549.43
Oregon	118,198	108,735	²¹ 14,360	103	290	3,164	2,334,931.25	935,126.24	1,665,000.00	555,000.00
Pennsylvania	689,589	632,541	57,048	—	951	21,111	9,470,174.31	22 835,325.64	9,470,174.31	—
Rhode Island	54,608	43,662	9,693	1,253	41	1,751	848,723.59	—	764,483.16	—
South Carolina	89,836	82,993	6,843	—	59	—	741,114.79	—	587,056.07	—
South Dakota	119,274	110,997	8,277	—	—	—	720,587.00	—	648,528.30	—
Tennessee	117,025	102,795	14,230	—	—	1,043	1,387,870.10	—	681,655.46	661,655.46
Texas	467,616	3 467,616	—	—	—	3,905	3,806,395.25	—	1,865,079.58	1,852,562.49
Utah	47,485	40,562	6,923	—	—	909	441,359.88	—	7 432,930.82	—
Vermont	37,265	²² 33,778	3,487	—	—	965	668,288.50	—	618,288.50	—
Virginia	139,200	122,000	17,200	—	—	2,100	2,021,146.09	—	1,970,702.66	—
Washington	185,359	154,239	²³ 27,739	3,381	797	3,913	3,140,730.74	471,847.53	2,800,030.74	—
West Virginia	93,940	77,397	16,543	—	—	1,539	1,250,525.82	—	1,250,525.82	—
Wisconsin	341,841	320,577	21,264	—	—	6,423	3,671,645.50	—	2,508,109.13	856,036.37
Wyoming	26,866	23,966	2,900	—	—	322	288,121.88	—	288,121.88	—
Total	10,463,295	9,432,844	979,904	50,547	22,685	196,231	122,478,654.33	5,302,259.79	94,193,243.86	21,923,923.94

¹ Trucks registered separately only after May 1.² For period May-December inclusive.³ Includes motor trucks.⁴ Does not include 8,439 nonresident passenger cars and 1,023 nonresident trucks.⁵ For period June 20-December, inclusive.⁶ For period Aug. 10 to Dec. 31, inclusive.⁷ To pay interest and principal on State highway bonds.⁸ To State primary road fund.⁹ For period July-December, inclusive.¹⁰ Devoted to State aid and special road drag funds.¹¹ Does not include about \$500,000 used to pay interest and principal on State highway bonds.¹² Includes approximately 12,000 nonresident passenger cars.¹³ Includes approximately 2,000 nonresident trucks.¹⁴ Devoted to road work in accordance with appropriations by legislature.¹⁵ Does not include 1,752 cars and trucks owned by State, cities, and counties.¹⁶ Includes motor bus registrations.¹⁷ Does not include 179 cars owned by State and cities.¹⁸ For period February-December, inclusive.¹⁹ For period March-December, inclusive.²⁰ Does not include 2,800 cars and trucks owned by State, cities, and counties.²¹ Includes 5,223 commercial vehicles of less than 1-ton capacity.²² For period September-December, inclusive.²³ Does not include 490 cars and trucks owned by State and cities.²⁴ Does not include 1,891 cars and trucks owned by State.

TABLE 19.—Motor vehicle registrations, revenues, and gasoline tax for the year 1922

State	Total motor cars and trucks	Passenger cars		Motor trucks and commercial cars	Trailers ²	Motor-cycles	Registration revenues		Gasoline tax	
		Private passenger cars	Taxis, busses, and cars for hire ¹				Total gross	Amount applicable to State road work	Total gross	Amount applicable to State road work
Alabama	90,052	77,473	2,710	9,869	---	638	3 \$1,262,800.00	4-3 \$939,074.14	(²)	---
Arizona	38,034	36,036	---	(⁶)	---	424	216,598.26	216,598.26	\$157,468.73	\$157,468.73
Arkansas	84,596	76,696	---	7,900	82	238	1,080,196.60	311,373.60	208,075.98	104,037.99
California	861,807	822,334	---	39,413	4,861	16,301	8,384,606.40	3,785,555.00	644,865.94	644,865.94
Colorado	162,328	151,499	---	10,829	62	2,770	991,677.22	4,897,622.01	---	---
Connecticut	152,977	124,608	2,447	25,922	117	4,386	3,567,744.84	3,567,744.84	689,247.53	---
Delaware	24,560	24,560	---	(⁷)	85	427	426,377.00	426,377.00	---	---
District of Columbia	32,792	143,509	2,860	76,723	---	2,367	353,726.50	1,034,009.01	693,221.41	693,221.41
Florida	116,170	94,175	2,767	19,228	455	1,456	1,538,342.26	1,765,755.44	739,188.55	---
Georgia	143,423	126,498	---	16,925	---	1,136	1,830,047.61	---	---	---
Idaho	53,874	49,393	---	4,481	---	703	812,943.72	203,237.68	---	---
Illinois	781,974	682,250	---	99,724	---	8,156	7,882,482.02	4 7,882,482.02	---	---
Indiana	469,939	413,410	---	56,529	2,508	6,598	2,990,588.50	3 2,750,000.00	---	---
Iowa	500,158	468,736	---	31,422	100	3,570	7,923,388.06	3 7,378,751.00	---	---
Kansas	327,194	303,725	---	23,469	---	2,315	3,100,000.00	---	---	---
Kentucky	154,021	136,627	---	17,394	---	1,042	2,140,444.31	2,140,444.31	8 447,549.97	8 447,549.97
Louisiana	102,284	87,003	---	15,281	---	509	1,756,226.42	1,756,226.42	484,392.81	484,392.81
Maine	92,539	78,697	---	13,842	499	1,321	1,417,507.57	9 1,417,507.57	---	---
Maryland	165,024	150,523	3,225	10 11,876	333	4,981	2,824,843.91	3 2,125,000.00	---	---
Massachusetts	385,231	325,307	---	12 59,924	519	12 10,047	5,685,527.05	13 5,685,527.05	11 395,545.53	395,545.53
Michigan	578,210	518,127	---	60,083	5,305	3,160	8,385,022.17	3,778,296.87	---	---
Minnesota	380,557	341,322	---	39,235	601	3,240	6,543,685.77	4 6,543,685.77	---	---
Mississippi	77,571	71,000	---	6,571	---	100	1,179,803.00	1,179,803.00	11 264,739.19	263,389.19
Missouri	392,523	352,929	9,237	39,594	448	2,792	3,512,182.97	3-1 3,400,000.00	---	---
Montana	62,650	55,682	---	6,968	---	397	619,899.50	291,700.15	243,912.39	---
Nebraska	256,654	233,658	---	22,996	414	1,856	3,031,699.93	1,409,740.47	---	---
Nevada	12,116	12,116	---	(⁷)	---	112	126,937.73	4 112,360.73	---	---
New Hampshire	48,406	42,270	---	6,136	279	1,883	1,246,098.46	1,145,601.57	---	---
New Jersey	342,286	298,540	9,237	74,509	886	9,284	6,251,418.50	5,991,949.61	---	---
New Mexico	25,473	25,473	---	(⁶)	---	163	243,813.61	223,074.81	11 183,088.79	147,097.49
New York	1,002,293	781,070	35,365	185,858	3,417	25,175	12,736,364.37	3-13 9,500,000.00	---	---
North Carolina ¹⁰	162,550	163,600	---	18,950	---	1,190	2,715,331.58	3-1 2,645,000.00	778,496.68	3 760,000.00
North Dakota	99,032	96,080	---	2,972	---	766	698,931.70	3-1 2,231,965.85	(¹¹)	---
Ohio	858,716	740,884	---	117,832	5,389	15,339	7,888,992.38	3,986,621.56	---	---
Oklahoma	249,659	249,659	---	(⁶)	---	952	2,729,169.15	---	---	---

(See p. 88 for footnotes)

TABLE 19.—Motor vehicle registrations, revenues, and gasoline tax for the year 1922.—Continued

State	Total motor cars and trucks	Passenger cars		Motor trucks and commercial cars	Trailers ¹	Motor-cycles	Registration revenues		Gasoline tax	
		Private passenger cars	Taxicabs, busses, and cars for hire ¹				Total gross	Amount applicable to State road work	Total gross	Amount applicable to State road work
Oregon.....	134, 125	118, 035	502	15, 498	337	3, 206	\$3, 340, 519.58	3 \$2, 350, 000.00	\$1, 100, 250.11	\$1, 053, 779.48
Pennsylvania.....	820, 737	763, 916		63, 821	1, 073	19, 316	12, 373, 380.36	12, 373, 380.36	2, 683, 526.08	
Rhode Island.....	60, 083	51, 804	1, 503	12, 776	32	1, 434	1, 339, 742.77	1, 057, 678.10		
South Carolina.....	95, 239	88, 018		7, 221	68	557	734, 856.18	557, 884.94	20 767, 032.65	
South Dakota.....	125, 241	116, 144		9, 097		659	743, 232.00		489, 000.00	309, 000.00
Tennessee.....	135, 716	119, 319		16, 397		3 1, 680	1, 502, 230.14	1, 502, 230.14	(21)	
Texas.....	526, 238	526, 238		(6)		3, 401	4, 261, 488.67	2, 071, 233.00		
Utah.....	49, 164	41, 942		7, 222	150	742	723, 453.00	4 673, 222.37		
Vermont.....	43, 881	41, 241		2, 640		856	781, 982.35	708, 883.88		
Virginia.....	168, 000	145, 000		23, 000	200	1, 850	2, 467, 346.93	2, 346, 906.93		
Washington.....	210, 716	176, 074	2, 701	31, 941	980	3, 846	3, 291, 671.70	3, 165, 971.70	953, 829.67	953, 829.57
West Virginia.....	112, 763	101, 301	6, 352	5, 110	96	1, 361	1, 396, 079.29	1, 936, 079.29		
Wisconsin.....	382, 542	356, 143		26, 399		5, 718	4, 088, 370.00	3 2, 900, 000.00		
Wyoming.....	30, 637	27, 410		3, 227	10	304	316, 849.50	316, 849.50		
Total.....	12, 238, 375	10, 890, 112	69, 459	1, 278, 804	29, 328	182, 714	152, 047, 823.74	117, 028, 824.75	11, 923, 442.61	6, 474, 178.11

¹ Where no data are given these vehicles are included with private passenger cars.² Where blanks occur no data could be secured as to the number of trailers in the State.³ Approximate.⁴ Devoted to financing of State highway bonds and remainder to road work.⁵ State inspection fee on gasoline of one-half mill per gallon.⁶ No separate record, included with passenger cars.⁷ Does not include 19,926 nonresident cars nor 1,836 nonresident trucks.⁸ For fiscal year ending June 30, 1922, data for calendar year not available.⁹ Of this amount \$414,330.00 was devoted to payment of interest and principal on State highway bonds and \$197,813.50 to administration of highway department, auto registration and motor enforcement department.¹⁰ Includes approximately 12,000 nonresident cars and 2,000 nonresident trucks.¹¹ For seven months, June 1 to Dec. 31, inclusive.¹² A total of 65,141 re-registrations deducted pro rata from cars, trucks, and motor cycles.¹³ Devoted to road work in accordance with legislative appropriations.¹⁴ For nine months, Apr. 1 to Dec. 31, inclusive.¹⁵ Includes \$28,707.62 of delinquent gasoline taxes.¹⁶ For first six months of registration year July to Dec. 1, 1922, inclusive.¹⁷ State tax of one-fourth to one-half cent per gallon on all petroleum products except lubricating oils amounting to \$128,165.60 during 1922. Proceeds to General State funds.¹⁸ Includes 4,763 commercial cars of less than 1-ton capacity.¹⁹ For the first 11 months of 1922.²⁰ For ten months, Mar. 1 to Dec. 31, inclusive.²¹ State fees, coal-oil inspectors, amounted to approximately \$360,000, proceeds to State general fund.