DUPORT OF THE DEPARTMENT OF HIGHWAY FINANCE

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Special Reference to Local Roads and Streets

Scope

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Consideration of present and past methods of highway financial administration reveals slow progress toward a rational spending program. Demands for increased highway appropriations have in many cases diverted attention from the need for wiser spending of what we have and more efficient managing of what we spend. Design, construction and maintenance standards have kept reasonable pace with modern transport tempo, but policies of administration and finance remain essentially horse-drawn.

Highway tax distribution and the administrative difficulties involved have been examined with particular reference to local application of State funds for highway purposes. Last year more than a quarter of a billion dollars in State gasoline taxes and registration fees were set aside for roads and streets not on the State highway systems. This money was 25 percent of total motor vehicle tax collections for 1936. The large part of highway user taxes so distributed is an index of the need for studying methods of allocating such funds to local governments, for establishing an economic basis for shared taxes and State aid, and for inquiring into the uses to which those funds are now applied, the degree of financial control retained by the States, and the fiscal and managerial pitfalls into which both State and local governments spend their way.

Vehicle Taxes for Local Roads

That highway users should be charged in accordance with their utilization of highway facilities is the generally accepted theory upon which the gasoline tax and registration fee are established.

It appears to follow therefore that the distribution of such taxes to various parts of the highway system should reflect the relative traffic volumes which they carry.

In the period of rapid highway expansion which paralleled the growth of motor vehicle travel, the theory that those who used the roads should pay for them was generally conceded, but financial pressure created by the need for a new system of main roads made it neither possible nor desirable to adopt the corollary that funds should be spent with exact regard to their origin. With the progress of a primary system of highways which such concentrated finance made possible, however, there originated in both counties and municipalities a demand that some part of State tax collections be returned for local roads and streets. Today the wide range in relative proportions of funds made available to local governments suggests no more scientific consideration than the loudness of these demands. In 1936, 3 States returned more than half of total highway user imposts to local units of government, ll over one-third of such collections, and 5 States made no allotments whatever. Local roads in one State received 24 million dollars in State taxes, while in each of 10 other States less than a million dollars were distributed for highways in local jurisdictions.

Tax Distribution Laws*

State laws governing the amount and basis of gasoline tax and registration fee distribution comprise a legal labyrinth which varies in complexity from State to State. Two considerations are involved: determination of the total which shall be distributed by the State, and the division of this sum among the various local units. The total share going to local roads is generally expressed as a percentage of collections, a specific part of each tax levied, or a predetermined flat sum. The allocation to each local unit may then be made according to the population, area, assessed valuation, read mileage, or on the basis of vehicle registrations or tax collections. In the case of the registration fee, however, shares are often retained by each separate local unit at the time of collection, either as a fixed amount per registration or a percentage of total receipts.

Although the total amount of motor vehicle taxes granted for local read purposes may have no relation to traffic needs originating on these systems, in a large number of States registration foes are allocated among the separate units with a regard for relative traffic potentialities. Thus Arizona counties retain 50 cents for each original registration, while in Alabama 20 percent of total receipts from this source are used in the counties where the taxpayers reside. In the case of the gaseline tax, however, not only does the original sum granted by the State have little bearing upon traffic volume and intensity, but also the allocations among individual local units are generally based upon formulas which are untenable. Alabama, for

^{*} Appendix Table A

example, distributes 3 cents of a 6-cent tax equally among its 67 counties, while New York counties receive 20 percent of collections according to the road mileage of each county. In Tennessee one cent of the gas tax is distributed to the counties equally, $\frac{1}{2}$ cent on county areas, and $\frac{1}{2}$ cent according to county populations.

When money is distributed equally among local road units which vary in size and stage of development, or on the basis of land areas and road mileage which bear no relation to traffic conditions. there is little chance that distribution will be economically justifiable. Only by chance will highway income be in reasonable balance with the demand for funds. Even population and assessed valuation may be poor indices of the proper share of taxes required by local governments for transport facilities. Questionable practices of tax allocation accordingly help to make possible such variations in road expenditures as found in North Carolina before the State assumed control of all rural roads. The annual road expenditure in one county was \$14 per mile, while in another it was \$688. Similar conditions were found in Iowa in 1933 by a study of the Brookings Institution, which revealed that if State funds were distributed on the basis of some defensible index such as traffic or vehicle registrations (instead of area) allotments would have been reduced considerably in 75 percent of the counties.

In general the conclusion may be drawn that prosont mothods of State fund allocations to local roads and streets are no less heterogeneous and unscientific than are the rates and bases of the taxes through which these funds are raised.

Economics of Usor Tax Distribution

The question of what share of State motor vehicle taxes should rightly be allocated to reads and streets other than on the primary system involves fundamental concepts of highway economies. The purpose of readbuilding is to provide for adequate traffic facilities at the lowest possible cost, including both read costs and vehicle operating costs. In spending for the highway program therefore funds must be allocated to those parts of the transportation system where improvements will bring about the greatest reduction in total cost and the greatest utility in adequate service.

Since limited funds do not permit simultaneous betterment of all roads, the element of time is of great moment in an economic distribution of vehicle taxes. If funds were returned to local roads and streets in the amounts generated thereon, prior to adequate development of a system of main highways, the higher cost of transportation for the rany vehicles on congested primary routes would far outbalance the reduction in operating costs on the local roads. Also, whereas two road systems may carry equal amounts of traffic, expressed in vehicle miles or gasoline tax receipts, yet the needs of either depend largely on the type and distribution of this travel: whether highway utilization has been intensive, as on heavily trafficked main roads, or extensive, as the dispersed use of a large network of local rural It must also be known in what ratio heavy trucks and buses or pleasure vehicles have accounted for traffic volumes. Furthermore it is important to recognize the integration of motor travel on the

various road systems, and the fact that it is the entire trip which must be made at lowest cost, as well as the entire motoring population which must be considered in the computation of total costs for the entire highway system.

The aspect of the principal routes as revenue producers is sound in principle. So largo a percentage of the actual use of those is recreational in character that the potential increase by reason of wholly adequate facilities should be self-evident -- not only this, but the competitive nature of recreational offerings. The highways must compete with other classes of recreational inducements. In the business of tourist traffic one route becomes competitive with other routes, region with region, and even State with State. The impact of the dogree of adequacy of major highways has large offects upon both private and public income. The financial support for local road improvements depends to great extent upon the excess earning capacity of the main roads, which in turn is dependent upon the attraction of potential traffic resulting from the offering of satisfactory facilities.

Eroader understanding of the purpose of a highway transportation system, viewed as an entity, will demonstrate the importance of such concepts as priority and intensity of use, rather than integrated vehicle mileage alone, as standards by which tax allocations must be measured and financial policies adopted.

Trend in State Tax Distribution

Of the total collections of State motor vehicle taxes in 1927,
73.1 percent were used for State highway purposes and 22.0 percent for
local roads and streets. By 1936 the percentage of user taxes spent on
State roads had decreased to 55.2 percent, while local road allocations
increased slightly to 25.1 percent. During this 10-year period, however,
total vehicle taxes increased 90 percent, so that the reduced State highway share still represented a 12 percent dellar increase, and the 3.1
percent rise in the local road allotment was an actual 115 percent
dellar increase. These figures are shown in Table 1.

TABLE 1

DISTRIBUTION OF NOTOR VEHICLE TAXES FOR HIGHWAYS
1927-1936*

Year	Total Vehicle Taxes Collected	Amount for State Kighways	Porcont	Amount for Local Roads & Streets	Porcont
1927	\$ 560,027,983	\$409,596,885	73.1	\$123,176,360	22.0
1936	1,057,995,000	533,616,000	55.2	265,496,000	25.1
	nt Change 7-1936 +90	+42	-17.9	+115	+3.1

It will be noted that whereas in 1927 vehicle funds available for highway purposes were 95.1 percent of the total, last year only 80.3 percent of tax collections were used for highways. This increasing use of road funds for other purposes appears to have hit hardest the State highway systems, though hidden and unreported diversions by local units of government make impossible any definite statement on this subject.

^{*} Detailed tabulation appears in Appendix, Table B.

There has been more widespread recognition in the past decade of the right of subordinate units of government to share in State taxes. For whereas 20 States distributed gasoline taxes to local roads and streets in 1927, in 1936 there were 36 States making such allotments. Registration fees were used for local roads by 27 States in 1927 and by 32 States in 1936.

City Stroots

Because funds allotted to counties in many States may be used within municipalities, and because such expenditures are not always reported separately, it has not been possible to determine accurately the amount of State money spent on city streets. Accordingly these sums have been included with local road apportionments, and expenditures on urban extensions of State systems have been included in State highway disbursements where it has been possible to segregate them from other local road and street funds. The best figure obtainable for State money spent on city streets is \$31,1468,000, compiled by the U. S. Bureau of Public Roads for 1936. Eleven

Administrative Sot-Ups

Highway administrative agencies in the United States include the States, counties, towns and townships, incorporated cities and villages, and miscellaneous local divisions of government. In each State the size, type and number of such agencies in operation and the relation or lack of relation among them differ widely.

In 4 States all rural roads are administered by the State highway departments, while 26 States*have State and County organizations, 6 have State and township systems, and 12 have three systems: State, County, and Township. In addition to these rural systems, all States contain municipal organizations which have charge of urban streets, and half the States have further independent or semi-independent divisions within the county, such as commissioners* districts and special assessment districts, both rural and urban.

In most States there is neither control by the State over the spending of funds allocated to lesser governmental units, nor is there cooperation between the State and local highway organizations. There laws designate that the State shall approve county construction programs financed with the assistance of State funds such approval is not uniformly followed by adequate supervision of the actual work. There counties are invited to seek the aid and advice of the State, in practice the results are far from reassuring.

Trond toward Contralized Administration

At the close of 1930 there were 324,496 miles of highways under State centrel. By the end of 1936 State centrelled mileage had increased to 533,144 miles, a 64.3 percent addition in 6 years. Such has been the progress of a movement toward centralized highway administration which began in North Carolina in 1931. By assuming centrel over the State's 46,800 miles of county reads, North Carolina was the first to consolidate its entire rural high-way system under the State highway department.

^{*} Including the State of Washington, although 2 of its counties still contain township units.

It was not long, however, before complete contralization was adopted in West Virginia, Virginia* and Delaware. In Maryland 20 out of 23 counties have turned over their reads for maintenance by the State, while a program of consolidation under way in Pennsylvania has resulted in State participation in the maintenance of 46,000 miles of township secondary reads. On January 1, 1938, a total of 2,574 miles of Pennsylvania reads in townships, beroughs and cities will be absorbed by the State. Popularity of the read consolidation program since 1931 may be judged by figures in Table 2, which show highway transfers to the State highway departments.

TABLE 2**

TRANSFERS OF LOCAL ROAD MILEAGE TO THE STATE HIGHWAY DEPARTMENTS

Year	Number of States	Miloago Involved
1931	3	73,651
1932	1	37,028
1933	3 · · · · · · · · · · · · · · · · · · ·	37.74
1934	5 12 5	7,190
1935	4	5,623
1936	10	10,696
TOTAL	21***	171,932
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^{*} Except 3 counties which have elected to retain control of local roads.

^{**} A detailed tabulation appears in the Appendix, Table C.

^{***} Several States effected more than one consolidation.

Twenty-six separate transfers have been made in the six-year period 1931-1936, involving 21 States and nearly 172,000 miles. It is of interest that last year 10 States were involved in such transfers, or twice the number in any previous year.

Further consolidations have been offected among the lesser units of government in the assumption of township road responsibilities by county highway organizations. It is generally concoded that the township, which in most cases contains an area of 36 square miles or less, has no place in efficient highway administration, and in the past seven years 4 States have done away with these ineffective highway administrative agencies and adopted a so-called county-unit form of highway organization. With this type of administration all roads within the county and not a part of the State system are operated as a unit, with locally collected taxos in townships and districts being spent by the central county administration without regard to township or district lines. county unit plan makes possible more economical use of road machinery, a broader tax basis, cooperation and planning, economy in maintenance operations, quantity purchasing, and necessitates the budgeting of funds and the keeping of cost records. When Michigan recently completed the transfer of 60,000 miles of township reads to county-unit control, there were eliminated 1,376 small administrativo units.

Causes of Consolidations

The immediate cause leading to centralization of road administration in North Carolina appears to have been the public desire, accentuated by economic depression, to escape from county

property tax levies. It was proposed that the State assume all future highway financial requirements, with the aid of a one-cent increase in the State gasoline tax, except that the counties should continue payment for the servicing of highway obligations previously incurred. The shift of financial responsibility, then, was from property to meter vehicles and from local governments to the State.

This contralization plan, however, suggests something more than a temporary relief measure. For it is doubtful that the counties would have acceded to such surrender of autonomy had the past record of county highway administration proved efficient and cconomical. That such terms could not be applied to a majority of North Carolina counties was evident from the conditions which the State found in existence upon taking over local road affairs. Instead of 67,000 miles of reads listed by the counties only 45.000 miles could be found, despite the fact that 2,590 miles had not been accounted for in the original figure. Maintenance varied from satisfactory standards to hopeless inadequacy, and mintonance records in many counties did not exist. Some counties were found oversupplied with machinery, others practically destitute, and in nearly all cases machines were either obsolete or badly in need of repair. Such causes as these, rather than temperary tax relief, are thought to have been fundamental in the trend toward State assumption of local roads. That the trond has not slackened with return to more normal economic conditions may have a bearing upon this point.

Property Taxes for Roads

Whatever is to be said for or against State centralization of highways, the concomitant policy of relieving property of its share in supporting the highway does not conform with the generally accepted theory of highway economics: that costs should be paid in accordance with service rendered. The shifting of road administration from local to State control involves no alteration in the principle that highways serve other functions than those directly relating to motor vehicles. In an equitable allocation of highway costs, rational payments for land service are rightly chargeable to the land which is served. Property levies are an essential part of highway income, and their elimination may not only deter a proper development of highway facilities, but may also constitute an unfair burden upon the motorist.

A second criticism of policy in connection with highway centralization concerns the tendency of the State to neglect its first responsibility of preserving the integrity of the primary road investment and of providing necessary extensions. A shift in administration does not relieve the State of obligations previously assumed, and the requirements of the main road system must be recognized prior to further tax allocations.

A large element of overriding the recommendations and warnings of the State highway departments has characterized the adoption of State policies throwing the cost burden of additional large mileages upon the incomes from user taxes available to the Department and usually inadequate for the requirements of the existing major highway systems.

Criticism of Small Administrative Units

It is self-apparent that many small roadbuilding entities now in operation are outworn relics of the dependence of transportation upon the horse: that both the time and distance of travel upon which their limits were fashioned have been reduced to negligible importance. Administrative scope has expanded, and this fact must be recognized by eliminating the multiplicity of highway organizations of minor units of government which make impossible the operation of highways as a coordinated system. A small unit is generally unable to afford proper engineering personnel, its staff may be subject to frequent changes because of elections, and in general undue emphasis is likely to be placed upon political rather than technical considerations. Short radii of operation make the use of modern road machinery uneconomical through excessive overhead and numerous duplications, while small purchases of supplies and materials impose penalties of higher unit prices. Variations among the jurisdictions in area, population, taxable valuation, road mileage, topography, climate, vehicles registered and traffic volumes may make possible the extension requirements in one county, while of road facilities beyond traffic a neighboring unit may be financially unable to provide the taxpayer with a lasting return for the money he pays for satisfactory highway services. Budgeting, accounting, debt control and planning are generally beyond the pale of local road administration, while lack of continuous maintenance, the use of force account methods, and incompetently controlled spending of funds collected outside the local jurisdiction are weaknesses generally in evidence.

Variations among Counties and States

In nest discussion relating to the morits or demorits of contralized government it is claimed on the ene hand that the county is "too small" to offect a proper highway administration, and on the other that the State is "too large." Either statement implies that counties and States are essentially homogeneous, and that there oxists a standard-size government unit most applicable to proper highway management. Yet neither counties nor States are homogeneous units. Counties may differ in area from the 25 square miles of Arlington County, Virginia, to San Bornardino's 20,175 square miles in California. This latter county is larger than the three States of New Jersey, Delaware and Maryland combined. In population variations are even more prenounced, Loving County, Galifornia, for example, having but 195 residents compared with 4 million persons living in Cook County, Illinois. As regards the States, the largest area is 250 times that of the smallest, while populations vary in the ratio of 138 to 1. Mino States have more than 100,000 miles of highways (Texas has over 200,000) while six have less than 15,000. The fact that a county may be larger than the State of Delaware, in which State centralization of highways is in effect, presents the possibility that the State may actually be "too small" and the county "too largo."

Consideration of the county as a highway administrative unit must take into account the two different general types of county, the rural, and the urban. It is the rural county which is so often unadapted to the performance of highway functions because of the limitations of its resources and the lack of sufficient highway

activity to permit large-scale operations, either intensive or extensive. The urban county which contains a large city and considerable traffic and population, however, is by reason of its wealth, responsibilities, and intensive road needs, a logical highway administrative unit. Such urban counties nevertheless are handicapped in their function of improving highways by reason of the fact that they are usually part of a larger metropolitan area embracing more than one county, as well as lesser jurisdictions such as towns and villages. Definite legislation is accordingly needed for effectuating correlated action throughout the metropolitan district, both in planning the transportation system as a whole and in detail, and in fixing priorities for the improvement program. It is necessary, therefore, to distinguish between such counties, and to recognize that to speak merely of the size of an administrative unit may be inconsequential, if not misleading.

Since such special considerations must be taken into account, it seems obvious that no definite standard-size unit can be prescribed which will be a universal absolute for highway administration. The intensity of highway needs varies, as well as the degree to which a region has been developed and the type of its development. Large agricultural regions might prove nearer the optimum unit for highway administration than large areas of concentrated industrial development. Physical characteristics such as topography and climate are important factors for consideration as well as possible sources of highway funds and probable necessary amounts of expenditures.

The Optimum Size of Highway Units

Certain characteristics of local government mentioned are susceptible to correction, such as lack of planning, budgeting, and

other administrative matters. It is claimed by the opponents of centralization that county government may be revived by effecting reform
along these lines. But many criticisms against the local highway unit
as an administrative body are functions of physical characteristics
which are not susceptible to "reform." No matter how efficient its
system of accounting nor how expert its highway commission, local
government may still be limited to uneconomical operations unless it is
able to raise sufficient funds to pay the highway bill and unless the
scope of construction and maintenance requirements will allow fullest
utilization of equipment, a proper distribution of overhead and the
economical operation of a competent engineering organization.

The economist recognizes that a profitable industrial plant is limited in its physical equipment to an optimum unit of operation: that unwieldy production units cause economies of large-scale production to give way to dis-economies, and that particular circumstances may alter the optimum plant even in the case of similar products. On the other hand, horizontal combination of a number of optimum production units under centralized administration is entirely in keeping with economical operation. The so-called American trust is an example of such horizontal combines. In other words an industry may require technical decentralization and managerial centralization.

This principle of economics appears to be applicable to the provision of highway facilities, in which optimum highway operating units might be determined upon, and their management directed centrally. Such is the general plan adhered to in the division of State highway

systems into engineering districts, and suggested in the relation existing between the Federal and State governments.

It does not appear unworkable that all rural roads in a State might be operated on a similar basis. Each State might contain several highway operating units varying as to optimum sizes in accordance with particular considerations. These districts might be a grouping of counties or other local jurisdictions into regional areas. In small States or States essentially agricultural the entire area might be determined the optimum, in which case consolidation of all roads in the State would be economically in order. Whatever the size and number of operating units, however, financial and planning administration might still be centered in the State.

The ostablishment of the State highway departments was recognition of the need of centralized administration in creating a primary system of roads, and in the spending of State vehicle taxes with wisdom and coordination for the best interests of the whole State.

Local units of government on the other hand were left to administer their individual highway affairs, which were truly local affairs financed by local money. With the State-wide extension of motor transport, however, all roads within a State developed into a network which it was necessary to view as a whole. Recognition of the wider influence of secondary roads was granted in the form of allocations of State money to local units of government which were not established to be expending agencies for such funds. Accordingly, the principle came to be tolerated that there should be centralization of certain highways in the State, financed by State funds, and decentralization of certain

other roads, also financed with State taxes, in a multiplicity of lesser governmental units. There is basic conflict between these two policies. On the one hand it is accepted that the highways constitute a closely-kmit system; on the other hand uncorrelated policies of finance develop them as a patchwork.

The chief objections to State control of all highways are for the nost part political rather than economic. That is, there is general recognition of the possibilities of economy and a coordination with control centered in the State highway department, but there is fear concerning the effect on local government which might result from eliminating local highway administration. Such action, it is asserted, would tend to discourage interest in other local governmental functions and eventually to bring about complete State centralization. This would be the first step, according to stock arguments, toward the destruction of self-government, individual initiative, and democracy.

The "fine-woven rhetorical expressions" advanced in behalf of local government, it is pointed out, must be tempered with the commonsense observation that highway transportation is not a function properly confined to imaginary and outnoded political boundaries. To claim that the preservation of democracy depends upon the maintenance of such a system has been construed by some as an argument for governmental waste and inefficiency; and to extol the small local unit as a "school for democracy" has been challenged on the grounds that accounting and engineering are so often omitted from its course of study.

The statement has been made that if democracy can coexist with such philosophies of government there is little fear that it would perish from State financial administration of highways.

Factors Supporting Centralization Trend

A consideration of importance with regard to the future possibilities of centralized highway administration is the recently inaugurated Federal assistance for secondary road development. During the depression years secondary roads and urban streets were granted various energency appropriations by the Federal Government for the prime purpose of furthering employment. In the present fiscal year, however, regular Federal aid grants of \$25,000,000 are available for secondary road improvement, to be matched by equal amounts of State funds. It is of significance that the State highway departments may employ the services of competent county highway organizations, acting under direction of the State, in the preparation of plans, surveys and specifications, and in the supervision of construction. Where laws limit the State highway department in the extent of mileage it can maintain, the State may draw up agreements with lesser governmental units which will attend to the maintenance of these secondary roads. No such agreement will be approved, however, if any road previously built with Federal funds and currently maintained by a county or lesser political unit is not being kept in satisfactory condition

Centralization and Planning

A further development toward closer cooperation between State and county, and greater control by the State over local roads is the promising possibility of State-wide highway planning. Surveys now under way to provide the facts necessary for plans may be made the instrument for publicizing the inadequacies of small highway units, and for revealing to the taxpayer how much of his money supports obsolete governmental machinery instead of better roads. It is also hoped that State logislation may follow the findings of such surveys when questions of highway administrative reform arise.

Some of the immediate purposes of the State-wide planning surveys are included in the following:

- To define the mileage of roads within each State to be supported by public funds.
- 2. To determine the use made of the parts of this system, hence the sources of necessary taxes and their proper distribution.
- 3. To determine future construction requirements for extensions, improvements and replacements.
- 4. To determine the priority of such construction projects.
- 5. To estimate necessary maintenance operations.
- 6. To estimate future highway income and to budget this sum according to estimated future financial requirements.

These several purposes emphasize the need for control by a central agency to supersede uncoordinated plans which result from the operation of a large number of highway jurisdictions acting independently. In order that planning may be effective throughout the State there must be an administrative control with greater power than any of the separate minor units. Planning which is "State wide" cannot be attained by a number of individual plans within the State, but only by a central plan which applies to an integrated system.

In review of the foregoing status and trends in State vehicle tax distribution for highways and in highway administrative procedure, a summary of the data is presented, followed by a list of conclusions and recommendations suggested by them.

A SUMMARY OF FACTS

- 1. Approximately one-fourth of all State motor vehicle taxes were distributed for local road and street purposes in 1936.
- 2. The share of State funds allocated to local roads and streets has increased only 3.1 percent in the last ten years, while the actual money so distributed shows a 115 percent dollar increase during the same period.
- 3. The State highway share of motor vehicle taxes has decreased more than 17 percent in 10 years, while the dollar allotment has increased 42 percent.
- 4. State funds are distributed to local units of government in widely varying amounts and without regard to traffic generated, five States making no allocations and one distributing more than 24 million dollars.
- 5. Methods of distribution among each separate local unit are generally untenable, being made in equal amounts or on the basis of area, population, road mileage, assessed valuation, vehicle registrations, tax collections, or a combination of two or three of these.
- 6. In most cases the States retain no control, or merely nominal control, over the spending of vehicle taxes used on local roads and streets.

- 7. Four States have consolidated all rural roads in the State highway departments, while 26 States have State and county organizations, 6 have State and township units, and 12 have three systems: State, county and township.
- 8. In the past 6 years 21 States have shifted 171,932 miles of local reads to State control, constituting a 64.3 percent increase in State mileage during that period.
- 9. More States were involved in local road consolidations in 1936 than in any previous year.
- 10. In the past 7 years 4 States have eliminated all township road units.
- 11. The highway consolidation movement has shifted the highway tax from local to State government and from property to motor vehicles.

RECOMMENDATIONS AND CONCLUSIONS

- 1. Allocation of State vehicle taxes to local roads and streets should be made with reference to both volume and intensity of traffic generated, but with consideration for the priority of primary road requirements so that transportation facilities for the integrated system may be adequate and at lowest total cost.
- 2. The State should maintain adequate control over all projects on which State money is used.
- 3. Arbitrary political boundaries have no relation to functions of highway transport.
- 4. A highway operating unit may be limited in its ability to function economically by reason of certain characteristics inherent in small-scale operations.

- 5. A highway administrative area is not necessarily limited to the optimum unit determined upon for construction and maintenance operations, and should embrace sufficient area to permit quantity purchasing, specialized personnel, and a coordinated highway program.
- 6. With the transfer of local roads in State control, benefits to land remain a ligitimate highway service which should be recognized by property contributions to the highway fund.
- 7. It is important that the State should provide first for all primary road obligations before assuming added burdens in connection with local roads.
- 8. Federal aid for secondary roads is recognition of the fact that such parts of the highway system are of more than local service. This new Federal policy promises to create closer cooperation between States and local units.
- 9. State-wide planning surveys constitute the first wholesale attempt to bring before the public and legislative bodies facts concerning the need for same financial and administrative policies.
- 10. State-wide plans cannot be successful without a centrol planning authority.
- 11. The failure of any State to provide a major system of high-ways not only adequate but attractive to the rapidly growing tourist and recreational traffic results in large losses of potential income to the public from the user taxes and to private business relying upon the highway travel.

The failure to establish and to follow sound principles of financial administration is a serious cause of lack of progress toward adequate major highways where this condition exists.

12. The waste of highway funds by duplicate local units and the uneconomical operations they necessitate brands financial administration the least progressive field of highway transportation.

SUMMARY

REPORT OF THE DEPARTMENT OF FINANCE

Last year approximately a quarter of a billion dollars, or onefourth of total State motor vehicle collections, were distributed for local road and street purposes.

Study of the past 10-year trend in this allocation of State funds reveals that the 1936 allotment was more than double the amount distributed to local jurisdictions in 1927. The percentage of total collections so distributed, however, has increased during that period by only 3 percent.

The amount of State funds spent on State roads has also increased in this 10-year period, but the increase has been only 42 percent as compared with the 115 percent increase in local road apportionments.

Moreover, there has been an actual decrease of 17 percent in the share of total State taxes so used. This discrepancy appears to be a result of a wholesale use of funds for other than highway purposes.

The amounts of user taxes going to local units of government vary widely from State to State, as do the methods upon which such distribution is based. In 1936 five States made no allocations to local roads, while one State distributed two-thirds of all motor vehicle receipts. Distribution among the local units was found to be based on a variety of criteria, including population, area, vehicle registrations, valuation, tax collections, road mileage, and combinations of these factors. In some States these funds are distributed equally among the local governments.

It has been found that these methods of local road allocations often fail to reflect properly the needs of the highway system as a For an oconomic distribution of funds requires that money be spent according to the needs of traffic, expressed in terms of the lowest possible total cost of transportation, which includes not only road costs but vehicle operating costs. In other words it is not morely total traffic which must be considered, but the concentration of this traffic: the intensive as well as the extensive use made of the highway system. Moreover, since all needed improvements cannot be made simultaneously, funds must be spent according to a priority which will permit the largest reduction of total transportation costs to be made first. In determining this priority it should be remembered that because of the integration of traffic on several road systems, it is advisable to improve the primary system first, since it carries the largest amount of concentrated traffic and its improvement brings about increased travel and increased receipts for the support of local roads.

It has been found that the spending of State funds by local governments is not always to best advantage because it is not properly controlled by the State. In addition, a complexity of lesser units of government discourages broad improvement programs, coordination, and long-range planning. Many local units do not comprise sufficient taxable wealth and highway activities to qualify them as logical highway administrative agencies.

In the search for the proper scope for highway activities it is concluded that there may be a distinction between the highway administrative unit and the economic operating unit: that the former may comprise several of the latter. This principle is recognized to some extent in the relation between the Bureau of Public Roads and the State highway departments, as well as in the division of a State into State highway districts.

Operating units which do not have sufficient taxable wealth and traffic may require consolidation before they are able to perform their functions economically. Among other things there must be sufficient road work to allow efficient utilization of equipment, and sufficient appropriations to permit a competent engineering force.

Two types of counties are recognized: rurel and urban. Rural county highway units may comprise large areas for economic highway operations, while the urban county, because of its weelth, population, and traffic, may properly be confined to a small area. Because the urban county is usually part of a larger metropolitan area containing other counties, as well as to as and villages, immediate legislation is needed for effectuating operalated action, both in planning the transportation system of the region as a whole and in detail, and in fixing priorities for improvement programs.

Correction of the weaknesses of highway administrative finance, when left to the discretion of a large number of local governments, has been attempted by consolidation of road units, particularly by the

transfer of local roads to State control. In the past 6 years 21 States have taken over 172,000 miles of local roads, constituting a 64 percent increase in State mileage during that period. Four States have eliminated all locally administered rural highways. As regards the other administrative set-ups, 26 States have State and county organizations, 6 have State and township units, and 12 have three systems: State, county and township.

Transfers of local roads to State control have brought about a shift of the road burden from land to motor vehicles and from local government to the State.

Although the road consolidation movement was precipitated by the recent economic depression, as a means of relieving property of the road tax burden, it appears that the inherent failings of incompetent local governments have been underlying causes of the movement. For in 1936 10 States effected local road transfers to their State highway departments, a larger number than in any previous year.

It is felt that the policy of Federal-sid appropriations for secondary roads, as well as the trend toward highway planning, will in many cases accentuate the movement for State administration of rural roads.

APPENDIX TABLE A*

LEGAL PROVISIONS REGULATING THE USE OF STATE MOTOR VEHICLE FUNDS FOR LOCAL ROADS AND STREETS

I - Gasoline Taxes

State Tax Rate (Cents)		Distribution to Local Roads and City Streets				
Alabama	6	3 cents to counties, distributed equally.				
Arizona	5	3/10 to counties, according to gasoline sales in each.				
Arkansas	6.5	7.7 percent to counties, on basis of population, registration and area.				
California	3	1/2 to counties: \$5,000 for each county and county-city, four times per year. Balance distributed according to registrations.				
Colorado	4	27 percent to counties, 3 percent for extensions of State system in cities, towns and counties; on basis of State mileage in counties.				
Connecticut	3					
Delaware	á	40° 00° 00° 00° 00° 00° 00° 00° 00° 00°				
Florida	3 4 7	3 cents to counties, distributed among them by particular statutes.				
Georgia		l cent to counties on basis of State-aid mileage in each.				
Idaho	5	and the test and the time are one year and the case you may test any test and test and test and the case of the time are the test and the time are the time are the time and time and time are				
Illinois	5 5	1/3 to counties, 1/3 to municipalities, on basis of vehicles registered.				
Indiane	4	40 percent to counties, 10 percent to cities; according to population.				
Iowa	7	4/9 to counties, by area.				
Kansas	ź	1 · · · · · · · · · · · · · · · · · · ·				
Kentucky	3 5 5 4	10 miles of the property of th				
Louisiana	f in	\$ 000 000 000 000 000 000 000 000 000 0				
Maine	4	To general highway fund, with registration fees, from which \$150,000 goes to town roads, \$700,000 to 3d class roads, on mileage basis, and \$1,000,000 to State-aid roads according to town valuation.				
Maryland	4	1.05 cents to counties, by mileage of county roads; 1.15 cents to Baltimore city.				
Massachusetts	3					

^{*} Data incomplete

APPENDIX TABLE A (Continued)

I - Gasoline Taxes

State	Tax Rate (Cents)	Distribution to Local Roads and City Streets
Michigen	3	To State highway fund, with registration fees, from which \$6,000,000 goes to counties, 7/8 in proportion to fees collected, 1/8 equally.
Minnesota	3	1/3 to counties, based on mileage and traffic needs.
Mississippi	6	22 cents to counties, on basis of population, registrations and area.
Missouri	2	
Montana	5	
Nebraska	1	3/8 to counties.
Nevada	4 4	J/O 00 COUNTIES:
New Hampshire	4	Small amount to some local roads (less than
	·	9 percent of total in 1936).
New Jersey	3	\$5,000,000 to city streets.
New Mexico	3 5 3	was gain also was some was gain som som gain gain som som gain gain som som gain gain som gain gain som gain gain gain gain gain gain gain som
New York	3	5 percent to New York City; 20 percent to counties, by mileage.
North Carolina	6	100 to 00 pp 40 are an
North Dakota	3	1/3 to counties on basis of registration fees collected.
Ohio	4	3 cents, minus about \$285,000, to counties, villages and townships on basis of vehicles registered.
Oklahoma	4	1/4 to counties, according to population and area.
Oregon	5	
Pennsylvania	4	1/2 cent to counties, based on gas tax returns during preceding 3 years.
Rhode Island	2	
South Carolina	2 6	1 cent to counties, based on registrations.
South Dakota		
Tennessee	4 7	To counties: 1 cont equally, 1/2 cent by population, and 1/2 cent by area.
Texas		population, and 1/L don't by allower
Utah	4	
Vermont	4	#500 000 to local mode by milesce
	4 4 5	\$500,000 to local roads, by mileage.
Virginia		\$239,000 in 1936 for the 3 counties not under State control.
Washington	5	3 cents to courties and cities, according to gas sales.
West Virginia	4	
Wisconsin	4	
Wyoming	4	25 percent to counties; based 30 percent on area, 30 percent on rural population, and 40 percent on assessed valuation.

APPENDIX TABLE A (continued)

II - Registration Fees

<u> 1</u> 2.32.4 - 21	
<u>State</u>	Distribution to Local Roads and City Streets
Alabama	20 percent to incorporated municipality or county where
	owner resides.
Arizona	50 cents of original fee retained by county.
Arkensas	
California	Approximately 30 percent to counties in proportion to
	registrations.
Colorado	50 percent to counties in proportion to collections.
Connecticut	De Legende de commence au brobot effett no controlation
Delaware	
Florida	
Georgia	
Idaho	90 percent retained by counties.
Illinois	Jo por cont restained by countries.
Indiana	1/4 to counties and cities; counties, 7/8 on mileago,
	1/8 on population; cities, on basis of population.
Iowa	170 on population, civies, on basis of population.
Kenses	10 cents of each registration to county.
Kentucky	to comb of each togethered to comey,
Louisiena	
Maine	
Maryland	After debt service and operating expenses of motor
	vehiclo department, traffic court, etc., 30 percent
	to Baltimore.
Massachusetts	vo barrinore.
Michigan	See gas tax data.
Minnesota	Dog 200 ray dara:
Mississippi	All to counties where collected.
Missouri	FIT AN COMMAND MINIO COTTOO POR
Montana	All to counties where collected.
Nebraska	5 cents retained by counties for each original
Hebrapya	registration.
Ne v ada	
New Hampshire	Small sum for State-aid (\$272,000 in 1936).
New Jersey	Carrier taxes to municipalities.
New Mexico	15 percent to counties in proportion to registrations.
New York	25 percent to counties.
	z) porconi do dominado
North Carolina	· · · · · · · · · · · · · · · · · · ·
North Dakota	47 percent to counties where car registered.
Ohio	9 percent to cities, 51 percent to counties.
Oklahoma	
Oregon	West cases from the cases when the case was case, who was some one was case and case case case case case case case case
Pennsylvania	
Rhode Island	one was not also were were well will will will also were provided and the contract of the cont
South Carolina	762 percent to counties where collected.
South Dakota	Los bor cours no committee and the second se
Approximately the second of th	

APPENDIX TABLE A (Continued)

II - Registration Fees

State	Distribution to Local Roads and City Streets
Tennessee Texas	100 percent to county where collected, up to
	\$50,000; 50 percent up to \$175,000.
Uteh	DAT date was not take that that the total seas of the total seas date was determined and the total seas date was date that the total seas date the total seas date that the total seas date the total seas date that the total seas date the total seas date that the total seas date the total seas date that the total seas date that the total seas date the total seas date the total seas date that the total seas date the total seas date the total seas dat
Vermont	
Virginia	
Washington	
West Virginia	
Wisconsin	20 percent rotained by town, village and city; also \$3,000,000 to counties for State-aid roads, 40 percent on basis of registrations and 60 percent by mileage.
Wyoming	County registration fees retained.

AFFENDIX TAKEE B - DISACSITION OF STATE MOTOR-TERIOLS HECKIPTS To State Highways and Local Roads and Streets 1927-36

I - Segistration Fees

4		ì	- 34 -	1		
Percent	<i>222224224</i> 925 <i>2221</i>	85.5	<i>%%2%</i> %%%%%@ ` <i>````````</i> ```````	89.7	18948911988188 466145451666	\$9.4 \$4
Total Fund to State Highways, Local Boads and Streets	282,188 302,172,227 327,129,52 313,93,93,93 313,98,33 233,698,724 261,04,94 261,04,94 272,000	\$2,868,538,735	250,582,641 428,624,536 478,024,536 453,364,537 451,536,157 771,537,112 556,336,533	\$4,47,275,364	527.73 23.73	\$7,285,814,099
Percent	8844268828 40464666	23.7	242222244 2010	24.8	24222488888 6 10 10 10 10 10 10 10 10 10 10 10 10 10	24.3
For Local Boads and Streets	**************************************	\$ 784,793,564	19465 69,633,115 101,752,231 113,27,702 127,226,438 153,777,634 150,546,567 167,556,000	\$1,221,851,091	222, 100, 100, 100, 100, 100, 100, 100,	\$2,006,554,555
Percent		62,3	8 444444664644 9 44444466464646464646464646464646464646	6.43	tal 18 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	64,1
For State Highway Purposes	\$ 220,645,359 255,142,624 253,013,624 253,013,633 234,593,140 157,734,844 175,477,534 194,421,000	\$2,083,745,171	228.37.75.62.33.37.75.63.33.37.75.63.33.37.75.63.33.33.33.33.33.33.33.33.33.33.33.33.	\$3,195,414,273	409,596 409,596 409,596 512,683,130,130,130,130,130,130,130,130,130,13	\$5,279,159,444
Total Funds Distributed	\$ 301.061.132 322.650.025 347.724.650.025 344.337.654 3014.337.654 3014.337.654 324.657.135 324.657.135	\$3,315,519,271	\$ 258. %	\$4,925,447,135	45.63.00 45.	\$8,240,956,456
	2822 2822 2823 2823 2833 2833 2833 2833	TOTAL	23.53.53.53.53.53.53.53.53.53.53.53.53.53	TOTAL	288888888888	TATO

APPENDIX TABLE C

ROAD CONSOLIDATIONS

Yoar	State	Locul Ros	d Milenge	Transferred to State
1931	North Carolina Ponnsylvania Louisiana TOTAL		46,826 20,167 6,658	73,651
1932	Virginia TOTAL		<u>37.028</u>	37,028
1933	West Virginia Oregon California TOTAL		29,098 2,046 <u>6,600</u>	37 •744
1934	Minnosota Missouri Georgia Indiana Kentucky TOTAL		4,356 937 367 871 659	7,190
1935	Delaware Nebraska Missouri Novada TOTAL		2,602 1,391 834 796	5,623
1936	Arizona Georgia Kentucky New Mexico Ohio Oklahema South Carolina Texas Missouri Pennsylvania TOTAL		428 648 340 2,021 2,391 606 419 579 914 2,350	10,696