Copy sent to Mr. Roy W. Crum, Director, Highway Research Board for inclusion in the Proceedings of the meeting. June 16, 1934.

THE TAXATION OF MOTOR VEHICLES IN 1932

By Thomas H. MecDonald Chief, U. S. Bureau of Public Roads

Motor vehicle owners in the United States paid approximately one billion dollars in 1932 for the right to operate on the public highways.

This sum comes directly from the pockets of motor vehicle owners in the form of registration fees, gasoline taxes, mileage and ton-mile taxes, receipts taxes, personal property taxes, special fees imposed by counties and municipalities and other lesser units of government, and many other direct imposts.

In an endeavor to determine for the first time the number and smount of all the various kinds of taxes and fees, and how they are imposed upon the numerous different types of vehicles, a special inquiry was undertaken by the N. S. Baresn of Public Roads during the summer of 1933, covering all of the 46 States and the District of Columbia. The present paper is a preliminary report upon the results of this investigation, the full details of which will be published in a separate report.

Organization of the statistical personnel which handled the large mass of figures involved in the survey was directed from head-quarters at Washington. One or more special statisticians were employed in each State, all of them being persons familiar with the administrative control of motor vehicles and many of them being present or former employees of State departments. These statisticians, often with the assistance of extra helpers, worked in the offices of the motor vehicle administrators and others, handling the original records and transcribing from them two desired data. In this way, elaborate data on all State fees and taxes were obtained. In addition, the local tex situation — county and municipal fees, and personal property taxation — was covered by means of auestionmaires to the proper anthorities.

All reports were sent to Washington for analysis and compilation, and subjected to careful checking.

The inquiry was confined solely to the calendar or fiscal year 1932, and the following comments accordingly apply to that period only.

Diversified Methods of Taxation

The analysis of the reports which were submitted and a detailed study of the State laws further emphasized a fact alreedy known—that there is great diversity in the methods used by the States in taxing motor vehicles. The greatest lank of uniformity was found in the bases on which payments of registration fees were imposed. In all States the rates were graduated so as to increase with the size of vehicle. In the District of Columbia, however, a fee of \$1 was imposed on all gaselins-driven vehicles regardless of type, size or class of service. The methods by which this variation in payments of registration fees were achieved were widely different; and in some States appeared to be unduly complex.

For passenger care registration fees varying with the weight of the vehicle were most commonly applied. 30 States using this basis; of these, five included the weight of the passengers, horse-power, alone or in combination with other factors, was used in 16 States; value or list price in tarce. In eight States the age of the vehicle or the number of times it had been registered was used as a modifying factor in computing registration fees. In Arizona, california, and washington, a uniform flat fee was imposed on all passenger cars. In several States combinations of two or more of the factors mentioned above were used in determining the amount of registration fee to be paid.

The same varying bases of taxation were found in the registration of busses. Scating capacity, either alone or in combination with other factors, was used in 27 States; not weight in 15; and gross weight in 9.

In the case of trucks registration fees increasing with the capacity of the vehicle were found in 26 States. In 11 States the fees varied with the gross (loaded) weight of the vehicle; in eight States with not weight; and in three States (Idaho, Pennsylvania, and South Debota), with chassis weight. In six of the States which imposed weight or espacity taxes a flat fee was charged in addition. In Maryland horsepower only was used as the basis for the registration of passwatic-tired trucks; and horsepower in combination with other factors was used in Louisiana and Temmessee. In Minneseta the fee was based on the value of the vehicle. The tendency to use more than one basis of taxation was quite as common in the case of trucks as it was with other classes.

Trailers and semitrailers were generally registered on the same basis as trucks, but the rates were usually lower.

In many States distinction was made between prementio-tired and solid-tired vehicles, the latter paying higher fees. Farm trucks and those operated only in or near cities paid at reduced rates in a number of States.

In the majority of States vehicles operated for hire were taxed more heavily than those privately operated. This additional taxation was imposed in a number of different ways, including higher registration fees, taxes based on vehicle-mileage, ton-mile or passenger-mile taxes, gross receipts taxes, special license or franchise fees, permit fees, and fees imposed for certificates of convenience and necessity.

A further distinction was frequently made in for-hire carriers according to the class of service. Common-carrier trucks and trailers and public-carrier busses, accepting business from the general public and operating on a regular schedule over fixed routes, were generally taxed at higher rates than were carriers operating for hire under contracts or agreements for each trip.

Faxionbe and other passanger cars for hire were reported separately by 27 States and the District of Columbia. In the majority of these States higher registration fees were charged against taxicabs than against passenger cars. In five States and the District of Columbia additional special fees were imposed.

Busses were reported in three classes, school busses, contract and sightseeing busses, and public-carriers. Only 16 States reported school busses other than those publicly owned or paying only nominal fees, although a number indicated that such busses were included with other registration classifications.

Hineteen States and the District of Columbia made the distinction between public-carrier busses and those operated for eightseeing purposes or as contract carriers. The remainder reported revenue busses without distinction as to class of service. There is no question, however, that the great majority so reported were operated as public carriers in either urban or interurben service.

The results of the survey indicate that for-hire carriers of property were, in one way or another, recognised as separate classes of vehicles in all States except Commedicat, Delaware, Maine, Methoda, New Hampshire, New Jersey, New York, and the District of Columbia. However, a number of the States which have such regulations failed to report separately the numbers of for-hire vehicles or their payments of fees. In all, 35 States reported for-hire carriers in such a manner that they could be included in the tabulations of national totals and averages.

Of these 35 States 22 reported both contract and common carrier tracks; and in the case of three additional States, Arkansas.

Onio, and West Virginia, contract and common carriers are included together. Nine States reported common carriers separately, but did not segregate contract carriers from those privately owned and operated.

One State, Massachusetts, reported contract carrier trucks but no common carriers.

The data on trailers and semitrailers were less complete, 24 reporting common carriers and 20 reporting contract carriers.

Batablishing Statistical Bases for Comparison

In order to present a clear picture of the assounts of motorvehicle taxes contributed by vehicles of various sizes, it was necessary to adopt a common basis of classification. In the case of tracks,
tractor trucks, and trailers it was decided to convert all reported
figures given in terms of net, gross, or chassis weight into equivalent
rated capacity. From a strip of published lists giving these weight
relations for specific makes and models of vehicles, and also of data
furnished by representatives of the motor vehicle industry, conversion
tables were prepared which give approximate or sverage values of rated
capacity corresponding to given values of net, gross, or chassis weight.
With the sid of these tables the desired conversions were made.

A scheme of classification was adopted which divides all trucks, tractor trucks, and semitrailers into the following capacity groups:

- 1. la tous and less.
- 2. Over 12 tons and less than 3 tons.
- 3. 3 tens and less than 5 tens.
- 4. 5 tons.
- 5. Over 5 tons.

Methods of approximation were devised for making this classification in the case of States for which the data could not be written down directly in this form.

Busses were classified on the basis of seating capacity; and factors were developed for converting net or gross weight into seating capacity.

In order to determine approximately the amounts contributed in gasoline taxes by the different classes of vehicles, and by the different capacity groups in each class, a calculation was made based on certain essuaptions as to annual adlesge and rate of gasoline consumption. In the case of passencer care the assumptions were an average mileage of 7,000 miles per year and a consumption rate of 15 miles per gallon. In the case of other vehicles an approximate relation between gross weight and gasoline consumption was used. Frivately owned tracks were assumed to travel 10,000 miles per year; and greater mileages were assumed for contract and someon carrier tracks, tractor-trucks, taxicabs, and public carrier bases, because of the nature of their operations. In the case of each State the total computed gallonage was adjusted to equal the net gallonage reported by the State for the mean 1932.

Surmary of Resential Pacts Disclosed by Survey

The primary object of this survey was to determine approximately the contribution of the owners of motor vehicles to Federal, State, and local government. The following tabulation gives the major items of motor-vehicle revenue and the total sums received in 1932, so far as it was possible to obtain the information:

State fees and taxes:

Vehicle registration fees (motorspoles,

trailers, and semitrailers included) \$293.189.177	
Special fees, paid chiefly by for-hire vehicles 5,230,792	
Operators and chanffeurs licenses 15,250,802	
Miscellaneous motor-vehicle fees 9,475,924	
Gaseline or metor-fuel taxes	ı
Total	\$639.223.93 ⁴
County fees and taxes (insamplete)	1,703,000
Monicipal foce and terms (incomplete)	14,158,000
Personal property taxes, all jurisdictions (incomplete)	36,000,000
Federal excise taxes	92,404,000
Grand total	983,488,934

This total of approximately a billion dollars is, as noted above, incomplete. The State totals are believed to approach very close to the true figures, although it is probable that in some States a few items escaped the attention of the investigators. Certain of the reported payments, such as dealers' license fees, fines and penalties, and miscellaneous small items, which could not be regarded as direct imposts on the meter-vehicle owner, have been emitted.

Hominal fees changed against publicly-owned or official cars, have been included with the miscellaneous fees.

The total number of vahiales (including metercycles, trailers, and semitualises, and excluding those publicly eward) registered in 1932, was 24,619.602. Dividing the total payment of \$983,488,934 among these vahiales, we find that the average motor vahiale owner paid in 1932 a tax of \$39.95 for the privilege of operating on the atracts and highways of the nation.

Only in the case of State taxes was it possible to separate the payments by different classes and sizes of vehicles. Some of the salient facts along this line are brought out in the following paragraphs.

harbors of vabiales. - The following tabulation gives the total number of vabiales registered and tax-paid in the United States in 1932, grouped moverding to type of vahicle and class of service.

Passenger care: Private care (including taxicabs in 20 States) 20,759,140 Taxicabs (reported separately by 27 States and the District of Columbia)	
All passenger cars	20,836,362
School (reported separately by 16 States) 9.813 Contract, including sight-seeing (reported separately by 19 States and the District of Columbia)	e See
All busses	49,452
Friedly owned and operated (including for-hire cerriers where not reported separately) 3,144,704 Combract carrier (reported separately by 26 States; includes common cerriers in 3 States) 69,840 Common carrier (reported separately by 31 States) 14,771	
All trucks and tractor trucks	3.229.315

Contract (includes	(2 0 00) 3 CO:	ozted Leon c	separ arrie	rs orte	in :	y 2	20 tat	4 8))		5.0	OS		
All !	t rai lers	eni	sent.	raile	II 3			* •	•	•	• •	*	• •	•	415,276
Kotoroycles .	100 k k k		7; 7%; • • • •	· + #		•/*•	•	. .	•	•		•		•	89,197

All vehicles (including trailers and motorcycles) 24,619,602

Analysis of the reported figures to determine the distribution of vehicles by rated capacity resulted in the following totals:

and the second										Market	Percentero
3me0021											
Up to 7 pass	san ars		* *		*		*			. 6.986	14.13
S to 30 pas:	sengers	* * *		* .*	*	+		*		. 5.754	17.72
Over 20 pass											外.\$
Not classif											_13.31_
Total .		* * *			•	•	*	*		. 49,452	100.00
Trucks and trac	ctor tr	nclas i	erine.								
1 tons and	•								ž	2.581.985	83.05
Over 1 ton										741. WE	15 57
3 tons and										125,938	3.99
5 tons										25,514	. 58
Over 5 tons			1		•			.,		14,056	1.37
Not classif									***	TOTAL	<u> </u>
Zotal .		i	• •,		a	٠	٠	+	**	3,239,315	100.00

	Muser	řelysulees
Prailers and semitrailers:	•	
le tone and less		78.55
Over ly tons and less than 3	25.705	6.19
3 tems and less than 5	23.781	5.73
5 tons	6.372	1.53
Over 5 tons	5.714	2. 10
Not classified by capacity	24.521	26,32
Total	. 415.276	100.00

Percentages. - The owners of passenger cars, which constituted 54.3 percent of all vehicles, paid 72.9 percent of the registration fees and 73.1 percent of the gasoline taxes.

Taxicabe, reported aggarately from passenger care is 27 states and the District of Columbia, comprised 0.3 percent of the vehicles; they contributed 0.5 percent of the registration fees and 0.9 percent of the geseline taxes.

Motor busses, which included 0.2 percent of the vehicles, contributed 1.2 percent of the registration-fee payments and 1.2 percent of the goodino-tex payments.

Motor trucks and tractor trucks, comprising Ij.1 percent of the vehicles, paid 24.2 percent of the registration foce such 24.7 percent of the gascline taxes.

Trailers and semitrailers constituted 1.7 percent of the vehicles and paid 1.2 percent of the registration fees.

Motorcycles, constituting 0.4 percent of the vehicles, centributed 0.1 percent of the registration fees and 0.1 percent of the gasoline taxes.

Special fees to the amount of \$5,230.792 were collected from operators of vehicles for hire and, in a few States, from certain classes of private operators. These imposts took the form of mileage, ten-mile, or passenger-mile taxes, receipts taxes, special weight or capacity taxes, franchise fees or privilege taxes, fees for certificates of convenience and necessity, etc. To this amount must be added \$500,807 in excess registration fees paid by fer-mire carriers of property (fees in excess of those calculated on the basis of the private carrier rate).

If the special fees are added to the registration fees and gasoline taxes it is found that busses contributed 1.5 percent and trunks and trailers 25.1 percent of all fees and taxes directly imposed on motor vehicles in 1932.

Average payments. - Average payments of registration fees and gasoline taxes by passenger ours were as follows:

Registre	ilon fe	1	,	٠ ،		. 4	• •	\$10.28
Gasoline		*	•	•			•	_18.07
				_	_	_		28. 35

Taxicabs, reported separately in 27 States and the District of Columbia, paid average feet as follows:

	Hegistration foce	\$17.72
	Gasoline taxes	60.64
West of the second	Special feet	المُثالث ا
e ty¥re	Total	79.89

School busses, reported by 16 States, made the following average payments:

Registration	fe	8	*	•	•	•	. \$21.57
Oasoline taxs	3	•	*		•	•	29.17
Total .	_						60.74

For sight-seeing and other contract-carrier busses, separately reported by 19 States and the District of Columbia, the everages were:

Registration	eo	₿ ,	• 1	• •	• ,	• •	\$47.49
Geseline taxes		•			*	•	100.12
Special fees .	. *	٠	*	•	•	•	5,24
Fotal .					_	_	150.55

For public-carrier busses (including sight-seeing and contract busses in these States which made no segregation), the average payments were as follows:

	Registration fees \$83.90	
	Gasoline taxes 145.17	
	Special fees	
	Total 295.03	
	The average fees paid by the different classes of t	rneks
and	tractor tracing were as follows:	
	Privately owned and operated:	
	Registration fees \$21.66	
	Gazoline taxes	
	Total 60.15	
	Contract carriers:	-
	Registration fees \$31.14	
	Gesoline taxes 62.44	2.1
	Special fees	:
	Potal 108.35	
	Common carriers:	
	Registration focs \$32.93	-e .
	Gasoline taxes	
	Special fees	
	Total 153.49	
	•	

The average payments by trailers and semitrailers were as follows:

Veriation of average payments with capacity. - As the weight or capacity of vehicles increases there is, in general, a steady rise in the average fees paid. This fact is shown by the following tabulations:

For public carrier busses!

Seati capec	_	Average registration fee	1 1 1 1 1	Average motor-fuel tax	Average of all fees 1/
7 or 8 to	20 :	\$25.84 57.39 99.20		\$52.50 123.13 170.26	\$104.77 274.50 329.98

For all trucks and tractor tracks:

Rated capacity in	Average registration if the 1/	Average motor-fuel tax	
ly and loss Over ly and less	\$15.52	\$36.16	\$51 .85
Street 3	W. 21 1	46. 33 1	55.9 2
3 and less than 5	67.33 1	59.89 1	
5	97.57	68.10	156.49
Over 5	117.89	81.12	199.60

^{1/} Includes excess registration fees paid by for-nire carriers.
2/ Includes special fees.

For all trailers and senitrailers:

AMERICAN SHAPE &	_
Average registration fee 1/	average of all fees 2/
43- ≯	\$3.¥2
14.08	15.63
36.46	41.71
59.21 :	69.32
70.55	92.35
	#3-34 14.08 36.46 59-21

I Includes excaps registration fees paid by ferebire carriers.

^{2/} Includes special fees.

each type of vehicle, class of service, and capacity group, the number of vehicles registered and tax-paid in 1932, and the total payments of registration fees, gaseline taxes, special fees, and all fees and taxes, together with corresponding percentages. Table 2 gives, for each type, class, and size of vehicle, the maximum payment in any State, the minimum payment, and the arithmetic average payment for the sountry. The States in which the maximum and minimum payments were made, and the State in which the payment was mearest to the national average, are also given.

Discussion of Average Payments by Different Classes of Vehicles

Passenger cars varied rather widely. The lewest rate was found in the District of Columbia, where a \$1 fee is charged for the registration of all gaseline-driven vehicles. In Vermont the rate varied from \$16 for cars weighing 2,000 pounds or less to \$43 for these weighing more than 4,500 pounds. The average payment was \$21.45, the highest in any State. Other States which exacted relatively high fees from their passenger cars were Oregon, in which the average payment was \$21.44; Arkensas, with \$18.56; Connections, with \$16.84; and Florida, with \$15.25. Among the States in which the payments were low were Washington, with an average of \$2.94; California, with \$3.02; and Arizons, with \$3.50. Clustered about the metional average were Eansas, with \$10.06; Feansylvania, with \$10.29; and Tyoming, with \$10.32.

Total payments by passenger cars were naturally highest in those States in which the gasoline-tax rate was 6 or 7 cents per gallon. Thus in Florida, with a rate of 7 cents, the average payment of all fees and taxes by passenger care was \$59.90; in Arkansas, with a rate of 6 cents, the average payment was \$50.35. In the District of Columbia, combining a \$1 registration fee with a gasoline tax rate of 2 cents per gallon, the average of all fees and taxes was \$10.77, the minimum for the country. California came next, with \$18.95. New York, with an average payment of \$28.75, approached the national average of \$28.35, as also did Connecticut, with \$28.80; Arisona, with \$28.96; and Texas, with \$27.56.

Ausses. - As the numbers of privately evaed school busses and of sight-seeing and contract-carrier busses which were reported in this survey form so small a portion of all busses reported, a discussion of the variation in their rates or payments is hardly significant; the following remarks are therefore confined to public-carrier busses.

Disregarding the \$1 fee in the District of Columbia, we find that the lowest average payment of registration fees by public-carrier busses, \$11.24, was recorded in Montana. In that State busses were classed as trucks and paid registration fees based on rated capacity, at 200 pounds per passenger, varying from \$10 for 1 ton or less to \$200 for more than 5 tons. The highest average payment of registration fees, \$517.59, was reported for public-carrier busses in Minnesota, where the fee was based on value (list price), the rate being 10 percent for the first year and decreasing with succeeding registrations.

Average payments of all fees and taxes, including special fees in 37 States and the District of Columbia, varied from \$112.13 in Montana to \$931.72 in Iowa. Other States in which the payments were high were Wisconsin, with \$827.82; Florida, with \$771.70; and Winnesota, with \$637.90. The average for the country was \$295.03.

Space does not permit a detailed discussion of payments by busses in the various States. To show the character of the variations which occur in tax rates and average payments, three States are selected as examples, Iowa, Montana, and Louisiana, these States being representative of maximum, minimum, and average payments.

Public carrier busses in lowe paid registration fees on the basis of 1 percent of value plus 40 cents per 100 pounds list weight and in addition a tax of one-fourth cent per gross ton-mile. The State Motor Vehicle Department annually fixes the value of the various busses and the list weight. The ton-mile tax is based on the passenger capacity multiplied by 150 pounds, plus the weight of the vehicle. The gaseline-tax rate in lowe is 3 cents a gallon.

In Montana, in addition to registration fees paid on the basis described previously, public-carrier buses were required to pay a Public Service tax of \$10 each. The gaseline-tax rate is 5 cents per gallon.

In Lamistana busses were required to pay registration fees of 65 cents per horsepower plus a fee based on scating especity.

varying from \$2 per seat for those scating 7 passengers or less to \$7 per seat for those scating 30 passengers or more. No special fees were charged. The gaseline tax rate is 5 cents a gallon.

These various rates yielded average payments as follows:

	1, 1		.*						Iona	Montana	Louisiana
Passang	er cam	acity	r#						*1 *	•	
7 02	less					٠	•	•	\$146.46	378.45	\$103.61
5 to	20 .					•	+	•	584.79	153.15	256.51
Over	20 .		•	٠		*	•		1,211,62	(none	¥58.63
	All b	738.8 6 5	١.		.*				931.72	112.13	235.10

tractor trusks were either privately owned and operated or were reported without segregation by class of service. Distegarding for the moment variation in payments by trucks of different sizes, we find average payments of registration fees varying from \$9.40 in Mebraska to \$50.66 in Vermont, with a national average of \$21.66. In payments of all fees and taxes (registration fees and gasoline taxes) the averages vary from \$32.50 in Massouri to \$114.38 in Florida, the figure for the country as a whole being \$60.15.

To illustrate the range in average payments by tracks of different rated capacities, the figures for Georgia, Missouri, and New York are given in table 3. These three States are fairly typical of the range in average payments of registration fees and gasoline taxes.

In Georgia the rates of registration for varied from \$15 for trucks of 1 tem expanity or less to \$375 for 6-tem trucks. The rate on 7-ten trucks was \$750, and that of trucks on more than 7 tens was \$1.125; but there were no trucks of more than 6 tens especity registered in Georgia in 1932, and only one 6-tem truck. The quadlinetax rate in Georgia was 6 cents per gallen.

In Mesouri the rates varied from \$10.50 for tracks of 2 tens capacity or less to \$36 for 7-ten trucks, with \$15 added for each additional ton. The gaseline-tax rate was 2 cents per gallon,

How York imposed on trucks weighing loos than 1,800 pounds a flat rate of \$12 and on trucks weighing 1,800 pounds or more a fee of 80 cents per hundredweight on the unladen weight of the vehicle.

The gasoline tax rate was 2 cents.

			OFORGIA					
	Tumber registered and tampaid		Average per		Registration fees and gasoline taxes			
Rated capacity in tons		Percentage distribute tion	Registration	Gasoline taxes	Total payments	Percentage distribution	Average per vahicle	
ly and less Over 1/2 and less than 3/2 3 and less than 5/5 Over 5/	1,578 256 4	.63 .01 .00	\$16.37 25.65 43.46 133.93 375.00	93.15; 117.45; 143.38; 175.74;	191,472 : 41,195 ; 1,110 : 551 :	1.100 1	\$85.30 121.80 160.91 277.31 550.74	
Total or average	10,806	100.00	17.17	70.04	3, 58,872	100,00	87.21	
	-		MISSOURI				÷	
1 and less Over 1 and less than 3 3 and less than 5 5 Over 5	85,009 5,992 3,791 333	6.10 3.86 1 34	\$9.51 16.44 17.04 1 26.19 34.73	28.53 1 35.97 2 43.91 1	209,480 :		第30.62 44.97 53.01 70.10 86.56	
Total or average	98,151	100.00	10.28	22.22	3,190,469	100.00	32.50	
entransport of the state of the	ang Garanting ing ang kanggaran ang ang ang ang ang ang ang ang ang a	Marie Arte Constanting Conference and Arter and Conference and Con	W YORK					
le and less Over le and less than 3 3 and less than 5 5 Over 5	216,396 64,326 14,012 6,695 10,945	20.59	\$20.77 \$1.92 69.17 84.03 106.38	: 39.58 : : 50.28 : : 61.38 :	5,21,508 1,673,792 973,524	25.32 1 8. 05 1 4.69 1	\$50.28 81.80 119.45 145.41 181.62	
Total or average	312,374	100.00	31.65	34.86	20,776,516	100.00	66.51	

Georgia is an example of a State in which there is a wide range from relatively low fees for light trunks to very high fees for heavy trucks, In Missouri the rates were uniformly low; while in New York, with fees based on net meight, the average payments for all sizes of trunks were not for from the national averages. The high gasoline-tax rate in Georgia brought the average payments of all fees and taxes well above these in Missouri and New York for all especity groups.

An interesting point to be observed in table 3 is the relative distribution of trucks of different sizes in the three States. In Georgia searly 96 percent of trucks were of 12 tons capacity or less, while in New York less them 70 percent were in this capacity group. With only five trucks of 5 tons capacity or more, Georgia obtained a negligible revenue from Many trucks. New York, on the other hand, derived nearly three million dellars from these two classes. It should be recognized that we are comparing here two States which are very different in density of population and in industrial and commercial development. It appears probable, however, that the imposition of fees remains as high as 1,125 has discouraged the registration of heavy trucks in Georgia. This inference is supported by data obtained from other States in which the registration rates were high.

In Alabama the rate of registration fees on 5-ton trucks was \$400; on 6-ton trucks, \$750; and on 7 tons and over, \$1,000. Only seven 5-ton trucks were reported, one 6-ton, and none over 5 tons. The total registration fees paid by these eight trucks were \$2,487.

In Arkansas the law provides registration fees of \$300 for 5-ten tracks and \$400 for 5-ten tracks, those of more tuen 5 tons capacity not being permitted. For-hire certiers paid 50 percent in excess of the private rate. Only 3 tracks of 5 tons capacity or more were registered in this State in 1932, paying total registration feet of \$850.

In North Dakota, where the rate on 5-ton trucks was \$400 and on those over 5 tons, \$500 to \$1,500, with reductions after the first year of registration, we find six 5-ton trucks paying a total of \$1,404, and none ever 5 tons. In South Dakota, where the schedule of rates, based on chargis meights, was also very high, only four 5-ton trucks were registered, with total collections of \$1.300.

In Louisians the law provided that trucks with a net carrying capacity greater than 5 tons should be charged \$150 for each thousand pounds carrying capacity in excess of 5 tons, in addition to a fee of 66 cents per horsepower and \$32 per ten for the first 5 tons (\$50 per ten for common carriers). Gity trucks were exampted from this schedule and paid at the rate of \$10 per ten plus 68 cents per horsepower. No private trucks were reported in 1932 as paying the high rates cited above. Five common carriers having capacities of more than 5 tons paid a total of \$323. Of city trucks there were 28 of more than 5 tons capacity and the total callections from them were \$3,050. Thus we have a relatively low rate of registration fee producing nearly ten times the revenue obtained from a very high rate applied to vehicles of the

For hire carriers.— As an example of the variation in fees of private, contract, and common carrier trucks it is interesting to compare Iows, Missouri and Morth Carelina. In Iows the registration fee was based on capacity for all classes and varies from \$15.00 for a 3-ton truck to \$450 for a 9-ton truck. Contract-carrier trucks were charged an annual franchise fee of \$5.00 in addition, while common carrier trucks paid a ton-mile tax of one-fourth cent per ton-mile.

In Missouri contract trucks were assessed the same rates for registration as private trucks, based on carrying capacity, and paid no additional fees. Common carrier trucks, in addition to the capacity registration fee, paid a special load capacity tax ranging from \$25 for a truck of 1, tone to \$500 for a truck over 9 tons.

In North Carolina all trucks were required to pay registration fees based on grows weight. On private trucks the rate varied with capacity from 55 cents to one dollar per hundredweight; on contract carriers, from one to four dollars; on common carriers, 90 cents per hundredweight regardless of capacity. Common carrier trucks were subject to an additional tax of 6 percent of gross receipts if and when and in such amounts as this exceeded the original registration payment.

The masoline tax rates in lows, Missouri, and Forth Carolina were 3, 2, and 5 cents per gallen, respectively.

The average payments by private, contract, and common carrier trucks in these three States are shown in table 4. It will be noted that in Iowa, while the fees paid by trucks privately ewned and operated were moderate, the average payments by common carriers were unusually high. In North Carolina, largely because of the 5-cent tax on gasoline, the payments by private tracks were large, and those of contract and sommon carriers were progressively higher. In Kissouri payments by all classes were relatively low.

Trailers and semitrallers.— No unusual features were found in the tambien applied to trailers and semitrailers. Light trailers were usually charged little more than nominal fees; the average registration fee paid by trailers and semitrailers, privately owned and operated, of 13 tens capacity or less, was \$3.29. Euch higher fees were charged against heavy trailers, the average for those of more than 5 tens capacity being \$73.91. In a few States the rates on large trailers were very high; thus we find in South Dakota a rate of \$500 applied to trailers weighing more than 5.000 pounds of which only one was registered in 1932.

In general those States which imposed special fees on forhire trucks and tractor trucks, required similar payments for the operation of trailers and semitrailers. Table 4.- Average payments by trucks privately owned and operated, centract carriers, and common carriers in Iowa, North Carolina, and Hissouri in 1932.

State and item	Privately owned and operated	Contract :	Common carrier
lowa:			
Registration fees :	\$20.17	\$52.83	\$73.64
Gasoline tax 1/ :	23.22	43.44	₩.99
Franchise fees	1	5.00 :	•
for-mile tax	:		131.39
All fees	43.39	101.27	252.02
dissouri:		•	
Aegistration fees :	10,28	15.26	13.50
Gasoline tax 1/	22.22	40.24	37.51
Special capacity has:	•		48.38
All fees	32.50	55.50 t	99.45
Worth Carolina:		1	
Registration fees	20.25	63.65	42.04
Gasoline tax 1/	65.01	113.65	112,47
Special depacity ax	, * 1		ie.91
All fees	85. 26	177.30 :	197.42

Comparison of percentage payments by different classes of vehicles. The variation in the relative distribution of registration fees and gasoline taxes among the several types of vehicles in the different States is illustrated in table 5, which shows the percentage of total vehicles registered in each class and the corresponding percentage of total registration fees and gasoline taxes paid by each class for the States of Missouri, New York, and Arizone. Payments by notercycles are not included in this tabulation.

Missouri shows an unusually even distribution of taxes emong the several types of vehicles in proportion to their nu bers, while Arizona exemplifies a very uneven distribution. In kissouri, passenger care and taxicabs, representing 55 percent of the vehicles registered, said 82 percent of the total registration fees and gasoline taxes, while in arisona where passender care and taxicabs were nearly as large a proportion of vehicles registered as in Missouri (83 percent), they paid only 67 persons of the taxes. Frucks in Missouri were about 14 percent of all vehicles, but paid 18 percent of the taxes, while in Arizona the corresponding percentages are 15 and 30. New York represents a distribution of vehicles and taxation which is fairly typical, passenger cars and taxicabs ecsprising \$5 percent of the vehicles and paying 72 percent of the taxes, while trucks were 14 percent of the vehicles and paid 27 percent of the total registration fees and assoline taxes. It will be noted that these comparisons are made for registration fees and gaseline taxes only because these are the only taxes which are paid by all classes of vehicles (trailers arcluded) and thus establish a uniform basis of comparison.

Table 5.- Comparison of percentage of all vehicles registered with percentage of registration fees and gasoline taxes paid, for passenger cars and taxicals, basses, trucks and tractor trucks, and trailers and semitrailers, in Missouri, New York, and Arisons.

1 1	Misson	ri .	Ker !	lork:	Artsona		
Type of vehicle	Percentage : of all vehicles	Fercentage of all registre- tion fees and gaso- line taxes paid	Percentage of all vehicles	Percentage of all reg- istration fees and gasoline taxes paid	Percentage of all vehicles	rercentage of all reg istration feee and gasoline taxes paid	
Passerger cars and taxi-; cabs Buses	84,95	81.71: .11:		71.75 1.48	82.63	66.76 2.07	
Trudes and tractor trudes: Frailers and semitrailers;		18,00:	13.86 61	26.52 25	15.17 1.92	30.147 .70	
All vehicles	100,00	100.001	100.00	100.00	100.00	100.00	

Local and Personal Property Taxation

municipalities, and lesser jurisdictions — has been an almost unexplored field. The intricacies in forms and methods of taxation presented by 45 States and the District of Columbia are magnified manyfold when the inquiry is carried down into the subordinate taxing jurisdictions, numbering many thousands. The present investigation, therefore, may be regarded as the first serious attempt to learn something about the local phases of motor vehicle taxation, and its results, while not entirely complete, are indicative of considerable amounts paid into local general tax funds by motor vehicle owners.

The collections in 1932, as reported through answers to questionnaires, may be summarized as follows, the figures being rounded off to the nearest thousand:

County taxes on motor vehicles	, \$1, <i>7</i> 03 ,00 0
Municipal taxes on motor vehicles	14,158,000
Fersonal property taxes on motor	
yehisies (State, county, and other jurisdictions)	36,000,000
Total	651,861,000

It would appear that in only five States did the counties impose taxes (other than personal property taxes) upon motor vehicles in 1930, and that four of these States are located in the South and are contignous to each other. The five States are Alabama, Louisiana, Mississippi, Mevada, and Tennesses. Casoline taxes collected by the counties of Louisiana, Alabama, and Mississippi accounted for about 90 percent of all the special county taxes reported throughout the United States. The largest single sum reported in any State was that for county (parish) quanties taxes in Louisiana, which totaled approximately \$1.179,000.

than county fees and texes, being found in 39 States. The most prevalent type of fee, although not the most productive, was found to be a franchise tax, frequently levied upon taxicals, buston, and for-hire trucks, and sometimes upon occupations in which meter vehicles are used, such as drayage and the like. Fees of this nature were reported in 34 States, and the tetal collected was \$2,053,000.

Municipal gasoline taxes were found in only six States, in widely separated regions of the South and West, but the total collected was \$2,502,000, of which Missouri alone accounted for approximately 57 percent.

Registration feet amounted to \$9,010,000, and of this total the State of Illinois alone accounted for approximately 55 percent.

Other fees reported included chiefly such items as chauffgure' and operators' licenses, to the total amount of \$202,000.

Among the 39 States reporting special municipal fees, the States of Illinois and Missouri far exceeded any others and together represented about 67 percent of the Mational total.

Some form of taxation of motor vehicles as personal property was found to exist in 31 States and the District of Columbia. This phase of the tax problem is greatly complicated by the large number and variety of taxing jurisdictions which may place imposts upon personal property, among which are the State, the county, the numicipality, and the many lesser jurisdictions, such as school districts, read districts, sanitary districts, and the like. The total personal property tax levied upon motor vehicles in 1932 was approximately \$44,000,000, of which about \$36,000,000 was actually collected. The survey disclosed that 17 States, in which there were 11,834,000 motor vehicles registered, or 46 percent of the total for the Mation, exempted motor vehicles from taxation as personal property.

Pederal Trastica

A new element entered the motor vehicle taxation field in 1932 in the form of the United States Government itself, with memufacturers' excise taxes levied upon gasoline, lubricating oils, tires and inner tubes, automobiles and motorcycles, automobile parts and accessories, and trucks. Administration of these new taxes began in June 1932, and the total collected during the second half of the year was \$54,293,846 — this sum representing actual collections, which were considerably less than the tax-carnings during that period, due to lag in collections. The true earnings of these taxes in 1932 are shown by the collections of the period ending Jamuary 31, 1933, which were \$98,161,386. After adjustment for other than motor-valuals uses of gasoline and oil, it appears that the total payments attributable to motor vehicles were approximately \$92,104,000.