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PUBLIC ROADS ADMINISTRATION FEDERAL WORKS AGENCY WASHINGTON 25, D. C.

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INFORMATIONAL MEMORANDUM NO. 56

DATE: FEBRUARY 1, 1944

SUBJECT: TRAFFIC VOLUME TRENDS

These informational memoranda showing traffic volume trends have been issued in their present condensed form for almost two years, and it is obvious that they fill a real need, since the demand for them has grown steadily. In view of the wide usage being made of the data, consideration has been given to possible improvements in the procedures and methods of presentation, and several changes are being made, beginning with this issue, which we believe will increase the accuracy and usefulness. In order to show the extent to which these changes might be expected to affect the continuity of the series, figures are presented herein on the old, as well as the new basis.

Since gasoline was first rationed in the East in May 1942, the boundaries of the OPA rationing areas have been changed and rather than continue to present data on the basis of an area which has lost its significance, it seems better to adhere to the boundaries of census regions. In the future, subtotals will be shown for the area comprising the three eastern regions, (which is nearly the same as the area rationed in May 1942), for the four central regions, and for the two western regions, but not for areas rationed in May 1942 and December 1942, respectively. This applies alike to the tabulations showing comparisons with the preceding year and to the curves showing comparisons with 1941.

With a view to simplifying computations so as to permit publication as quickly as possible after the data for a given month had been received, totals and subtotals have heretofore been unweighted; that is, the data from all stations within the area considered have been combined to form a single sample. Generally this procedure introduces no inaccuracies of importance, but sometimes unequal coverage in areas with materially different trends results in figures which are slightly biased. Beginning with this issue, in the revised summary, the three sectional totals and the United States total are computed by weighting the data for each region in accordance with the 1942 vehicle-miles of travel in the region. However, the data for each region are still combined to form a single sample and there is no weighting on a State basis, as the data from a single State are sometimes inadequate to constitute a representative sample. The regions used are the same as those of the United States Census, except that the South Atlantic region, in which there are divergent trends in the northern and southern portions, has been divided into two to increase the accuracy of the weighting.

Comparisons of totals and subtotals in the revised summary, on the old and new bases, are as follows:

	Percent change from Nov. 1942
South Atlantic Region, Undivided (Old basis) South Atlantic Region, Divided (New basis)	- 3.9 - 2.7
Area rationed May 1942 (Old basis) Three eastern regions (New basis)	- 7.0 - 9.5
Area rationed December 1942 (Old basis) Four central and two western regions (New basis)	+22.7 -22.9
U. S. total (Old basis) U. S. total (New basis)	-18.4 -18.7

The most interesting fact concerning the preliminary data for December 1943 from 541 automatic traffic recorders in 40 States (table 1) is that they show increases in traffic volume in 37 of these States. In Delaware, Vermont, and Virginia traffic volumes on rural highways still show declines from those of December 1942. The increase in traffic volume for all States is 15.3 percent; 15.4 percent on State highways; and 7.8 percent on local highways.

Gasoline rationing was instituted in the Midwest and West in December 1942, and the declines in traffic in that month were far more severe in these sections than in the East, which was first subjected to rationing in May 1942. On the other hand, the increase in the Midwest and West in December 1943, compared to December 1942, was considerably greater than in the East, the percentage increases being 20.2 percent and 10.7 percent, respectively, for the two areas.

Comparisons of city street traffic in December 1943, with that in December 1942, are as follows:

7 stations in Washington, D. C. + 9.7 percent 3 stations in Detroit, Michigan + 3.9 percent

Compared with 1941, however, Washington showed a 26.2 percent decline. These data will no longer be included in the toll bridge tabulation but will be given in the text, or if sufficient data can be obtained to justify, they will be shown in a separate tabulation.

H. S. FAIRBANK, DEPUTY COMMISSIONER, PUBLIC ROADS ADMINISTRATION

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Attachments.

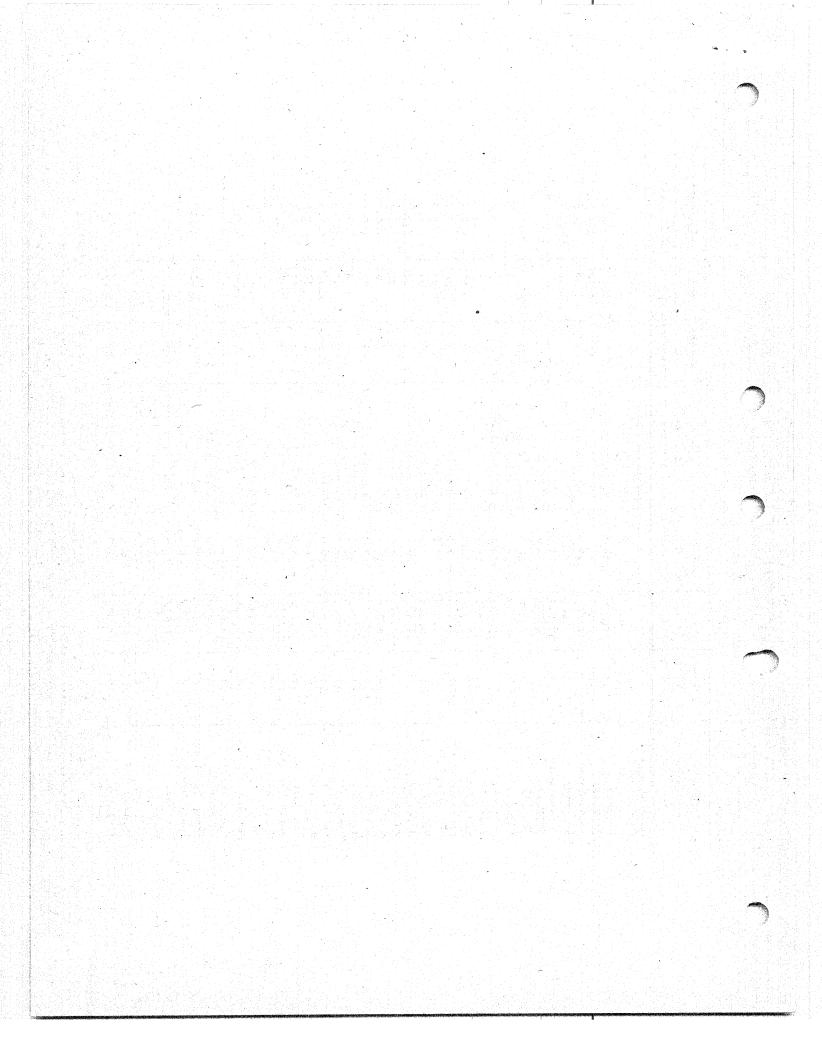
TABLE 1.--7 LIMINARY SUMMARY OF AUTOMATIC TRAFFIC RECORDER DATA FOR D MBER 1943 INCLUDING V STATIONS I STATES

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Type of highway and State	Number of stations	Total daily traffic	Percent change from Dec. 1942	Type of highway and State	Number of stations	Total 'daily traffic	Percent change from Dec. 1948
STATE HIGHWAYS				STATE HIGHWAYS (Continued)			
Arizona	4	10,974	+16.0	Washington	•	12.459	+15
Arkansas '	21	13,045	+11.5	West Virginia	=	13.487	+3-1-2
California	0	18,150	+30.8	Wisconsin	i 0	14.362	+24.7
Colorado	w	4,562	+14.4	Wyoming		212	+27.7
Connecticut	18	45.097	+ *				
Delaware	*	8,890		TOTAL -			
Georgia	က	6,443	+16.2	40 STATES	505	701.349	+15.4
Idaho	*	8.503	+34.5)) (-)	
Illinois	w	5.231	13.3	LOCAL HIGHWAYS			
Lowa	26	21,481	+19.6				
Kansas 1	6	7,228	+21.4	Connecticut	6	1.212	. 6 -
Kentucky	œ	7,303	+19.6	Georgia) ব	881	1.0
Louisiana 1	9	12,235	+17.8	Lowa	10	1.080	+ 7 5
Maine		9,202	+ 4.7	Maryland	-	295	
Maryland	15	33,633	***	Massachusetts		131	-43.5
Massachusetts	•	20,227	+ 8.6	Michigan	7	398	+12.7
Michigan	26	54,203	+17.6	Missouri	2	762	+28.7
Mississippi	1.0	12,632	+25.4	Mon tana	7	327	+19.8
Missouri	24	32,986	+20.2	Nebraska	•	130	+
Montana	12	5,781	+21.7	North Dakota	7	283	+21.5
Nebraska	7	8,903	+19.3	0hi6	က	1,099	+13.1
New Mexico	13	14,963	+12.1	Rhode Island	-	302	+ 2.7
New York	12	22, 199	€°.%	Tennessee	77	843	+ 7.8
North Carolina	19	26,001	+18.4	Wisconsin	7	322	+21.0
North Dakota	4	3,586	+40.3				
Ohio	24	37,242	+15.0	FOTAL -			
Ok Lahoma	20	27,995	+15.8	14 STATES	36	8,065	6.9
Pennsylvania	30	40,698	+10.5				
Rhode Island	•	4,296	+ 3.8	ALL HIGHWAYS			
South Carolina	9	7,211	+27.5	40 STATES ²	541	709.414	+15.3
South Dakota	6	5,669	+21.8				
Tennessee	2	4,965	+41.9	3 BASTERN REGIONS	160	252.110	+11.3
Texas	67	100,657	+18.6				
Utah	~	6,732	+21.3	4 CENTRAL REGIONS	312	374.641	+111.9
Vermont	'n	2,063	-16.2				
Virginia	v	0 843	- 10 3	S WESSTERN PEGTONS	0	000	\$ C01

10ne station in Kansas and 2 in Louisiana excluded because of abnormal war activity.

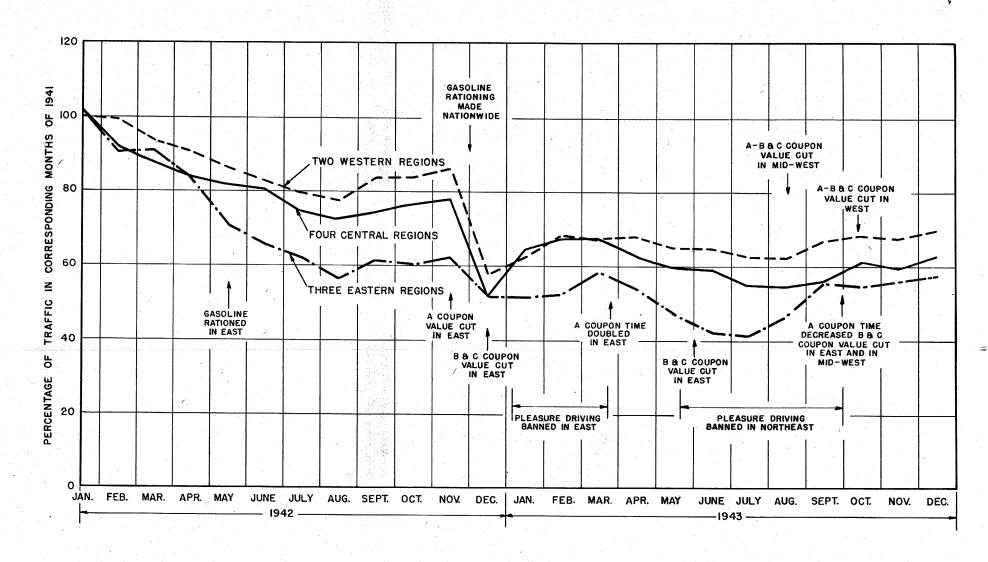
Includes all States except the following: Alabama, Florida, Indiana, Minnesota, Nevada, New Hampshire, New Jersey, and Oregon.



Region and State	Number of stations	Percent change from Nov. 1942	Region and State	Number of stations	Percent change from Nov. 1942
NEW ENGLAND			EAST SOUTH CENTRAL		
Connecticut	21	-11.6	Alabama	9	-17.0
Maine	11	- 5.2	Kentucky	12	-22.7
Massachusetts	9	- 6.7	Mississippi	9	-12.3
New Hampshire	14	- 9.6	Tennessee	2	-14.3
Rhode Island	4	- 8.3	Subtotal	32	-17.3
Vermon t	6	-17.8			
Subtotal	85	- 9.8	WEST SOUTH CENTRAL		
MIDDLE ATLANTIC			Arkansas	22	-25.4
			Louisiana ¹	6	-18.2
New York	12	-10.9	Oklahoma	20	-25.0
Pennsylvania	30	-19.2	Texas	64	-18.9
Subtotal	42	-16.2	Subtotal	112	-20.7
SOUTH ATLANTIC			MOUNTAIN		
Delaware	3	-15.5	Arizona	5	-23.8
Maryland	17	- 3.7	Colorado	5	~- 29.9
Virginia	3	-25.6	Idaho	7	-10.2
West Virginia	iı	-16.1	Montana	14	-12.7
Subtotal north			Nevada	13	-40.9
portion	34	-10.8	New Mexico	13	-15.9
Florida	19	+ 8.4	Utah	8	-17.4
Georgia	7	+ 5.7	Wyoming	2	0.0
North Carolina	19	+ 0.6	Subtotal	67	-22.1
South Carolina	6	+ 4.7			
Subtotal south			PACIFIC		
portion	51	+ 4.2			
Subtotal region	85	- 2.7	California	10	- 20 . 8
⁴ 일이 통해를 보는 사람들이 있다. 이 원이 달린			Oregon	3	-25.7
EAST NORTH CENTRAL			Washington	9	-22.3
			Subtotal	22	-21.9
Illinois	3	-24.4			
Indiana	23	-22.1			
Michigan .	28	-26.7			
Ohio	30	-24.4	TOTAL 46 STATES2	624	-18.7
Wisconsin	11	-24.2			
Subtotal	95	-24.8	STATE HIGHWAYS	585	-18.8
WEST NORTH CENTRAL			LOCAL HIGHWAYS	39	-16.3
Iowa	35	-28.1			
Kansas ¹	9	-26.6	3 EASTERN REGIONS	192	- 9.5
Missouri	27	-25.5			
Nebraska	12	-31.3	4 CENTRAL REGIONS	343	-23.2
North Dakota	12	-18.0			
South-Dakota	9	-19.2	2 WESTERN REGIONS	89	-22.0
Subtotal	104	-26.2	[- 발표 : [이 사람은 살로 하는 비장이다.		

¹⁰ne atation in Kansas and 2 in Louisiana excluded because of abnormal war activity

² Includes all States except Minnesots and New Tersey.



PERCENTAGE RELATIONS OF RURAL TRAFFIC IN MONTHS OF 1942 AND 1943 WITH THAT IN CORRESPONDING MONTHS OF 1941