

Mr. H. C. DeLoach

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

INFORMATIONAL MEMORANDUM NO. 49

DATE: NOVEMBER 1, 1943

SUBJECT: TRAFFIC VOLUME TRENDS - SEPTEMBER 1943

September reports from the operation of 612 automatic traffic recorders in 44 States indicate that traffic is 18.5 percent below that of a year ago (table 1). Decreases in the area rationed in May 1942 are much smaller than those in the area rationed in December 1942, thus reflecting the effect of earlier rationing in the eastern area.

Traffic in several States in September 1943 is actually greater than in September 1942. These States are mainly in the southeast, North Carolina, South Carolina, Florida, and Georgia; although one New England State, New Hampshire, is also included. Most of these States are represented by a sufficient number of traffic recorders to provide a reliable sample. Thus reports from Florida are based on 19 recorders; from North Carolina on 18 recorders; New Hampshire, 17; Georgia, 6; and South Carolina, 4 recorders.

The comparison with September 1941, in the attached chart, shows that September traffic in the eastern areas is but 48 percent of that in 1941, while in the Middle West and West, it is 60 percent of the September 1941 traffic. Thus, at least so far as traffic on rural highways is concerned, the effects of rationing on traffic in the East have been greater than in the Middle West and West. It may also be noted in table 1 that decreases have been greater on State highways than on local highways.

The revised summary (table 2), differs but slightly from the preliminary summary of Informational Memorandum No. 48. The addition of data for 28 stations in the East and 24 stations in the Middle West and West decreases the percentage of decline from 1942 by 0.4 percent in the East and increases it by 0.1 percent in the Middle West and West from that previously reported.

Most of the toll facilities reporting from the area rationed in May 1942 (table 3), are located in the northeastern States, and are therefore affected by the lifting of the pleasure driving ban on September 1, 1943. The percentage decreases from last year in that area were but 3.0, 3.3, and 1.8 for total motor vehicle traffic, passenger cars, and trucks and busses, respectively, compared to decreases from 1941 of 27.0, 31.6, and 3.6 percent, respectively. For toll bridges in the area rationed December 1, 1942, the decreases from 1942 were 15.9, 17.0, and 9.0 percent, and the decreases from 1941 were 23.1, 25.4, and 6.6 percent for total traffic, passenger cars, and trucks and busses, respectively, including only those facilities for which information was available for all three years.

The September percentage decrease in traffic at 3 automatic recorders located in the city of Detroit was about one-half that found at the 26 Michigan recorders located on rural highways in the State.

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

Attachments:

Table I.--Preliminary summary* of automatic traffic recorder data for September 1943 including 612 stations in 44 States

Type of highway and State	Number of stations	Total daily traffic	Percent decrease ¹ September 1942	Type of highway and State	Number of stations	Total daily traffic	Percent decrease ¹ September 1942
<i>STATE HIGHWAYS</i>				<i>STATE HIGHWAYS</i>			
Alabama	7	10,332	11.4	Virginia	7	12,859	17.7
Arizona	4	11,159	10.4	Washington	9	17,435	21.9
Arkansas	21	14,253	25.4	West Virginia	11	15,921	15.9
California	8	17,263	12.9	Wisconsin	9	18,764	34.4
Colorado	3	2,462	22.1	Wyoming	2	1,238	33.0
Connecticut	18	56,519	12.0				
Delaware	4	10,842	11.9	<i>TOTAL - 44 States</i>	575	894,493	18.6
Florida	19	20,255	+11.9	<i>LOCAL HIGHWAYS</i>			
Georgia	6	10,468	+15.5	Alabama	1	293	+ 0.7
Idaho	6	8,750	25.5	Connecticut	2	671	13.1
Indiana	21	32,197	26.8	Georgia	4	995	+ 4.4
Iowa	26	24,818	30.4	Indiana	2	615	15.1
Kansas ³	9	8,711	24.5	Iowa	10	1,243	12.1
Kentucky	13	17,872	31.8	Maryland	1	334	+ 2.8
Louisiana ³	6	12,747	6.6	Massachusetts	1	245	32.5
Maine	11	13,683	3.9	Michigan	2	626	22.9
Maryland	16	42,517	3.2	Missouri	2	818	5.2
Massachusetts	9	29,935	4.6	Montana	2	423	1.4
Michigan	26	66,583	32.8	Nebraska	1	150	2.0
Mississippi	9	11,050	8.4	North Dakota	2	485	+ 6.6
Missouri	25	41,029	28.5	Ohio	2	956	23.8
Montana	12	7,644	24.2	Oregon	1	257	1.9
Nevada	12	11,049	36.8	Tennessee	2	784	27.8
Nebraska	11	10,072	26.9	Wisconsin	2	388	19.8
New Hampshire	17	17,950	+10.4				
New Mexico	12	17,209	8.8	<i>TOTAL - 16 States²</i>	637	909,239	12.8
North Carolina ⁴	18	27,955	+ 4.8	<i>ALL HIGHWAYS</i>			
North Dakota	10	4,667	19.6	<i>44 States²</i>			
Ohio	28	51,079	25.8		612	903,732	18.5
Oklahoma	20	29,918	20.2	<i>RATIONED AREA</i>			
Oregon	3	4,754	26.6	<i>MAY 1942</i>			
Pennsylvania	26	42,245	22.2		160	281,054	4.2
Rhode Island	3	5,408	4.5	<i>RATIONED AREA</i>			
South Carolina	4	6,144	+ 4.0	<i>DECEMBER 1942</i>			
South Dakota	9	6,742	20.8		452	622,678	23.7
Tennessee	2	3,648	24.1				
Texas	68	102,425	14.9				
Utah	8	10,068	15.2				
Vermont	7	5,854	14.2				

* Data from some States cover only a portion of the month, or have not been adjusted for the difference in numbers of Saturdays and Sundays between this year and last.

¹ Plus sign before percentage indicates increase.

² Includes all States except the following: Illinois, Minnesota, New Jersey, and New York.

STATIONS NOT INCLUDED:

³ Defense activity and in Kansas; 2 in Louisiana.

⁴ Occasional high counts due to military activities - 3 stations in North Carolina

Table 1. Distribution of the population of the Republic of Serbia by sex and age group, 1991

Age group	Sex	Population	Population		Total
			Male	Female	
0-4	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
5-9	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
10-14	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
15-19	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
20-24	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
25-29	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
30-34	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
35-39	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
40-44	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
45-49	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
50-54	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
55-59	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
60-64	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
65-69	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
70-74	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
75-79	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
80-84	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
85-89	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
90-94	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
95-99	Male	100,000	50,000	50,000	100,000
	Female	100,000	50,000	50,000	100,000
Total	Male	10,000,000	5,000,000	5,000,000	10,000,000
	Female	10,000,000	5,000,000	5,000,000	10,000,000

Source: Statistical Bureau of the Republic of Serbia, 1991. The data are based on the 1991 Census of the Republic of Serbia. The population of the Republic of Serbia in 1991 was 10,000,000. The population of the Republic of Serbia in 1991 was 10,000,000. The population of the Republic of Serbia in 1991 was 10,000,000.

Table 2.--Revised summary¹ of automatic traffic recorder data for August 1943 including 608 stations and 46 States.

Geographic division and State	Number of stations	Percent decrease from August 1942	Geographic division and State	Number of stations	Percent decrease from August 1942
<i>NEW ENGLAND</i>	61	16.8	<i>EAST SOUTH CENTRAL</i>	35	21.6
Connecticut	19	21.3	Alabama	9	10.6
Maine	11	10.0	Kentucky	12	34.6
Massachusetts	10	13.5	Mississippi	10	6.9
New Hampshire	15	14.9	Tennessee	4	21.5
Rhode Island	3	11.8	<i>WEST SOUTH CENTRAL</i>	107	16.4
Vermont	3	17.1			
<i>MIDDLE ATLANTIC</i>	38	29.8	Arkansas	19	23.4
			Louisiana ³	5	3.6
New York	10	27.3	Oklahoma	30	21.4
Pennsylvania	28	31.2	Texas	63	14.7
<i>SOUTH ATLANTIC</i>	88	4.9	<i>MOUNTAIN</i>	64	25.1
Delaware	4	11.3	Arizona	5	19.1
Florida	20	+15.6	Colorado	4	38.9
Georgia ⁴	8	+13.9	Idaho	7	20.9
Maryland	17	7.0	Montana	14	27.9
North Carolina	19	+ 0.3	Nevada	12	39.5
South Carolina	3	+ 2.8	New Mexico	12	13.0
Virginia	6	20.0	Utah	7	21.5
West Virginia	11	15.7	Wyoming	3	25.2
<i>EAST NORTH CENTRAL</i>	91	31.3	<i>PACIFIC</i>	23	16.7
Illinois	4	33.8	California	10	11.5
Indiana	23	27.1	Oregon	4	23.2
Michigan	28	35.2	Washington	9	20.9
Ohio	25	25.4	<i>TOTAL - 46 States²</i>	608	21.7
Wisconsin	11	34.4			
<i>WEST NORTH CENTRAL</i>	101	27.0	<i>STATE HIGHWAYS</i>	571	21.7
Iowa	35	28.3	<i>LOCAL HIGHWAYS</i>	37	14.8
Kansas ³	7	27.3	<i>Rationed May 1942</i>	164	13.1
Missouri	27	28.3	<i>Rationed December 1942</i>	444	25.0
Nebraska	12	23.7			
North Dakota	11	15.4			
South Dakota	9	24.2			

1. Combined State and local highways.

2. Includes all States except the following: Minnesota and New Jersey.

STATIONS NOT INCLUDED:

3. Defense activity - 1 in Kansas, 2 in Louisiana.

4. Road construction - 1 in Georgia.

STATE OF TEXAS
COUNTY OF []
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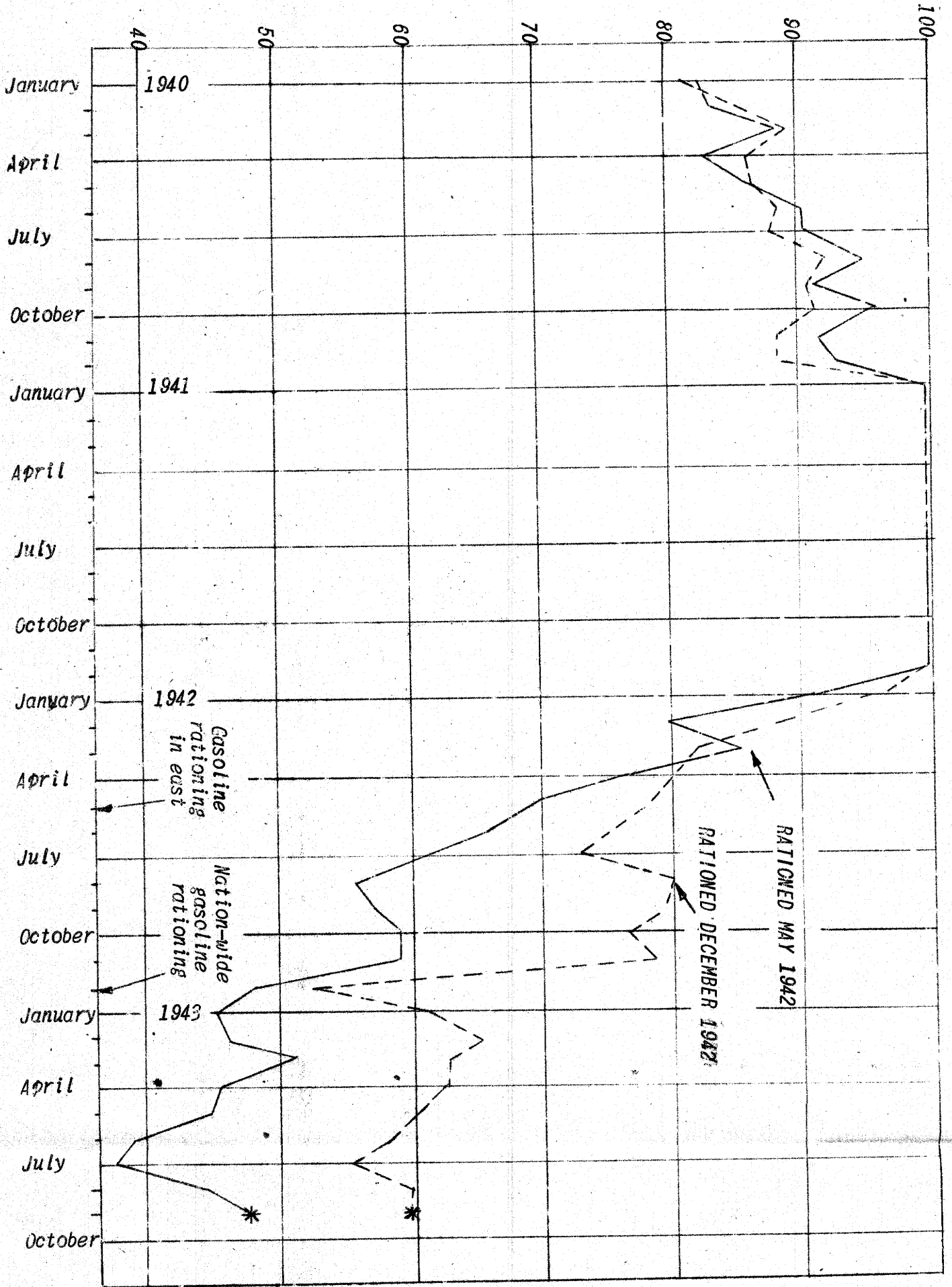
STATE OF TEXAS
COUNTY OF []
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Table 3.--Traffic volume data for September 1943 by vehicle types, compared with similar information for September 1942 at toll facilities. Where available, comparisons are shown for 1941.

Area rationed May 1942									
	September 1943			Percentage change from 1942			Percentage change from 1941		
	Total	Passenger cars	Trucks and busses	Total	Passenger cars	Trucks and busses	Total	Passenger cars	Trucks and busses
18 facilities Maine to Florida ¹	4,038,896	3,164,629	874,267	-3.0	-3.3	-1.8	-27.0	-31.6	-3.6
TOTAL - 23 facilities Maine to Florida	4,244,527	3,337,601	906,926	-2.8	-3.2	-1.2			
Miscellaneous locations not included above:									
42 drawbridges in eastern North Carolina (not toll) ²	45,257	34,623	10,634	+6.0	+8.4	-1.1	-17.4	-21.1	-2.4
11 stations in Washington, D. C. (not toll) ³	209,213	---	---	-9.7	--	--	-28.8	--	--
3 stations in Detroit, Michigan 4 weeks ⁴	1,234,440	---	---	-16.5	--	--			
Fleetwood Viaduct, Westchester County, New York	170,318	170,318	---	-16.5	-16.5	--	-55.3	-55.3	--
Pennsylvania Turnpike	95,920	67,243	28,677	-23.7	-29.3	-6.6	-62.6	-70.2	-6.1
Area rationed December 1942									
4 facilities on eastern Canadian Border	291,565	259,602	31,963	-7.2	-9.0	+9.8			
2 facilities in the Great Lakes area	67,543	47,328	20,215	-45.8	-54.9	+3.0			
Subtotal - 6 facilities	359,108	306,930	52,178	-18.2	-21.3	+7.1			
12 facilities on the Ohio River	1,033,798	876,418	157,380	-24.3	-25.1	-19.7			
11 facilities in the Ohio River area ⁵	153,693	117,109	36,584	-8.4	-12.7	+8.8			
Subtotal - 23 facilities	1,187,491	993,527	193,964	-22.5	-23.8	-15.5			
9 facilities on the Mississippi and St. Croix Rivers, St. Louis and north	885,349	675,869	209,480	-25.0	-27.8	-14.3			
1 facility on the Mississippi River south of St. Louis	8,989	6,374	2,615	-14.6	-19.1	-1.4			
Subtotal - 10 facilities	894,338	682,243	212,095	-24.9	-27.8	-14.2			
2 facilities on the Missouri River	108,744	82,500	26,244	-3.8	-6.8	+7.0			
2 facilities in the Missouri River area	2,005	1,695	310	-50.0	-51.3	-40.8	-61.8	-62.6	-56.3
Subtotal - 4 facilities	110,749	84,195	26,554	-5.4	-8.5	+8.0			
3 facilities in California	1,869,022	1,663,782	205,240	-12.7	-13.5	-5.3	-13.0	-15.7	+16.6
5 facilities in the Washington-Oregon area	223,715	189,611	34,104	-7.9	-10.3	+7.7			
Subtotal - 8 facilities	2,092,737	1,853,393	239,344	-12.2	-13.2	-3.6			
TOTAL - 51 facilities in the area rationed December 1942	4,644,423	3,920,288	724,135	-18.0	-19.4	-9.4			
26 of the 51 facilities for which data were reported for 1941	3,030,900	2,574,247	456,653	-15.9	-17.0	-9.0	-23.1	-25.4	-6.6
4 facilities reporting only total traffic	237,522	---	---	-10.7	--	--			

1. These facilities have comparative data for 1941, 1942, and 1943 and are included in the 23 facilities from Maine to Florida.
2. Total of one 8-hour weekday and one 8-hour Saturday count at 42 drawbridges.
3. Based on weekday traffic.
4. Not located in the eastern area, but listed here to show comparison with other city traffic.
5. One facility in West Virginia and 10 in Kentucky.

PERCENT OF TRAFFIC IN CORRESPONDING MONTH, 1941



TRAFFIC AT AUTOMATIC TRAFFIC RECORDERS, 1940-1943

* Preliminary