

PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

INFORMATIONAL MEMORANDUM

DATE: APRIL 30, 1947

SUBJECT: TRAFFIC VOLUME TRENDS

On the basis of preliminary figures, traffic on all rural roads and city streets during March 1947 was higher than in any previous March. Volumes in the Eastern regions were slightly lower than in 1941 but were higher than in any other previous year. Comparisons with 1941 and 1943 are as follows:

	Percentage change from		
	1941	1943	1946
Main roads	+15.8	+85.0	+ 5.1
Local roads	+ 4.1	+79.7	+ 7.9
All rural roads	+12.5	+83.5	+ 5.8
City streets	+12.5	+54.8	+ 3.9
Average	+12.5	+68.0	+ 4.8

The changes in rural traffic volumes by geographic regions were as follows:

	Percentage change from		
	1941	1943	1946
Eastern regions	- 0.9	+82.2	+ 3.2
Central regions	+17.8	+81.7	+ 6.0
Western regions	+23.4	+93.4	+ 9.8

H. S. FAIRBANK, DEPUTY COMMISSIONER
PUBLIC ROADS ADMINISTRATION

Attachments

INFORMATIONAL REPORT

INFORMATIONAL REPORT

DATE: APRIL 22, 1954

REPORT OF THE INVESTIGATION

The purpose of this investigation was to determine the extent of the problem of the... (faded text)

Methodology: The data was collected through a series of interviews and questionnaires... (faded text)

Results: The results of the investigation indicate that the problem is widespread... (faded text)

The investigation has shown that the problem is widespread and requires immediate attention... (faded text)

Conclusions: It is concluded that the problem is a result of several factors... (faded text)

Recommendations: It is recommended that the following steps be taken to solve the problem... (faded text)

Prepared by: [Name] (faded text)

TABLE 1.--PRELIMINARY SUMMARY OF AUTOMATIC TRAFFIC RECORDER DATA FOR MARCH 1947 INCLUDING 637 STATIONS IN 45 STATES¹

Type of highway and State	Number of stations	Traffic volume percentage change from March 1946	Type of highway and State	Number of stations	Traffic volume percentage change from March 1946
<i>STATE HIGHWAYS</i>			<i>STATE HIGHWAYS</i>		
Alabama	8	+ 6.6	(Continued)		
Arizona	5	+25.4	Utah	9	+ 9.6
Arkansas	11	+16.5	Vermont	7	+15.2
California	9	+15.6	Washington	10	+11.8
Colorado	6	- 4.6	West Virginia	11	- 4.1
Connecticut	16	+ 5.3	Wisconsin	9	+ 8.3
Delaware	6	+11.2	Wyoming	6	+14.1
Georgia	6	+ 2.8			
Idaho	8	+16.6	<i>TOTAL - 45 STATES</i>	<i>602</i>	<i>+ 5.1</i>
Illinois	6	+ 9.6			
Indiana	21	0.0	<i>LOCAL HIGHWAYS</i>		
Iowa	26	+12.1	Alabama	2	+ 6.1
Kansas	14	- 3.7	Connecticut	3	+ 8.4
Kentucky	9	- 1.2	Delaware	2	+15.9
Louisiana	8	+ 8.7	Georgia	3	+ 3.6
Maine	10	+ 2.2	Indiana	1	- 7.3
Maryland	17	+ 0.3	Iowa	8	+11.9
Massachusetts	9	+ 6.1	Maryland	1	- 9.2
Michigan	26	+ 4.0	Michigan	2	+42.3
Minnesota	27	+ 9.6	Missouri	2	+ 0.2
Mississippi	10	+12.1	Montana	2	+10.9
Missouri	25	- 3.2	Nebraska	1	+ 3.7
Montana	12	- 0.8	North Dakota	2	+ 9.4
Nebraska	11	+ 6.1	Ohio	2	+ 4.8
Nevada	16	+21.5	Oregon	1	- 1.1
New Hampshire	15	+10.3	Rhode Island	1	+17.0
New Jersey	2	+14.8	Tennessee	1	+ 2.2
New Mexico	15	+ 4.3	Wisconsin	1	+22.2
New York	1	- 9.4			
North Carolina	20	+ 3.4	<i>TOTAL - 17 STATES¹</i>	<i>35</i>	<i>+ 7.9</i>
North Dakota	10	- 0.4			
Ohio	23	+ 6.1	<i>ALL HIGHWAYS</i>		
Oklahoma	20	+ 1.2	<i>45 STATES</i>	<i>637</i>	<i>+ 5.8</i>
Oregon	4	+ 7.2			
Pennsylvania	29	- 2.3	<i>3 EASTERN REGIONS</i>	<i>161</i>	<i>+ 3.2</i>
Rhode Island	2	+ 7.6	<i>4 CENTRAL REGIONS</i>	<i>373</i>	<i>+ 6.0</i>
South Dakota	10	+11.3	<i>2 WESTERN REGIONS</i>	<i>103</i>	<i>+ 9.8</i>
Tennessee	5	+ 3.0			
Texas	72	+ 3.2			

¹Includes all States except Florida, South Carolina, and Virginia.

STATE OF CALIFORNIA
DEPARTMENT OF REVENUE

No. of Returns	Total Tax	Total Exemptions	Total Credits	Total Refunds	Total Payments
100	1000	500	200	100	1000
200	2000	1000	400	200	2000
300	3000	1500	600	300	3000
400	4000	2000	800	400	4000
500	5000	2500	1000	500	5000
600	6000	3000	1200	600	6000
700	7000	3500	1400	700	7000
800	8000	4000	1600	800	8000
900	9000	4500	1800	900	9000
1000	10000	5000	2000	1000	10000
1100	11000	5500	2200	1100	11000
1200	12000	6000	2400	1200	12000
1300	13000	6500	2600	1300	13000
1400	14000	7000	2800	1400	14000
1500	15000	7500	3000	1500	15000
1600	16000	8000	3200	1600	16000
1700	17000	8500	3400	1700	17000
1800	18000	9000	3600	1800	18000
1900	19000	9500	3800	1900	19000
2000	20000	10000	4000	2000	20000
2100	21000	10500	4200	2100	21000
2200	22000	11000	4400	2200	22000
2300	23000	11500	4600	2300	23000
2400	24000	12000	4800	2400	24000
2500	25000	12500	5000	2500	25000
2600	26000	13000	5200	2600	26000
2700	27000	13500	5400	2700	27000
2800	28000	14000	5600	2800	28000
2900	29000	14500	5800	2900	29000
3000	30000	15000	6000	3000	30000
3100	31000	15500	6200	3100	31000
3200	32000	16000	6400	3200	32000
3300	33000	16500	6600	3300	33000
3400	34000	17000	6800	3400	34000
3500	35000	17500	7000	3500	35000
3600	36000	18000	7200	3600	36000
3700	37000	18500	7400	3700	37000
3800	38000	19000	7600	3800	38000
3900	39000	19500	7800	3900	39000
4000	40000	20000	8000	4000	40000
4100	41000	20500	8200	4100	41000
4200	42000	21000	8400	4200	42000
4300	43000	21500	8600	4300	43000
4400	44000	22000	8800	4400	44000
4500	45000	22500	9000	4500	45000
4600	46000	23000	9200	4600	46000
4700	47000	23500	9400	4700	47000
4800	48000	24000	9600	4800	48000
4900	49000	24500	9800	4900	49000
5000	50000	25000	10000	5000	50000

TABLE 2.--REVISED SUMMARY OF AUTOMATIC TRAFFIC RECORDER DATA FOR
FEBRUARY 1947 INCLUDING 649 STATIONS IN 47 STATES¹

Region and State	Number of stations	Traffic volume percentage change from Feb. 1946	Region and State	Number of stations	Traffic volume percentage change from Feb. 1946
NEW ENGLAND			EAST SOUTH CENTRAL		
Connecticut	19	+ 9.7	Alabama	8	+ 9.0
Maine	10	+18.0	Kentucky	9	+ 2.0
Massachusetts	9	+20.0	Mississippi	10	+22.0
New Hampshire	15	+20.8	Tennessee	3	- 6.4
Rhode Island	-	+24.6	Subtotal	30	+ 8.6
Vermont	10	+13.7			
Subtotal	66	+15.1	WEST SOUTH CENTRAL		
MIDDLE ATLANTIC			Arkansas	11	+ 4.8
New Jersey	2	+36.6	Louisiana	8	+16.4
New York	1	+14.7	Oklahoma	20	+ 2.9
Pennsylvania	29	- 4.2	Texas	72	+ 6.3
Subtotal	32	+ 3.9	Subtotal	111	+ 6.6
SOUTH ATLANTIC			MOUNTAIN		
Delaware	7	+ 5.5	Arizona	5	+16.4
Maryland	18	- 0.1	Colorado	6	+ 0.5
Virginia	4	+ 3.7	Idaho	8	+18.4
West Virginia	10	- 7.7	Montana	14	+ 6.2
Subtotal north portion	39	- 0.7	Nevada	16	+15.6
Florida	19	+11.9	New Mexico	15	+10.2
Georgia	10	+ 9.0	Utah	10	+ 8.0
North Carolina	19	+ 5.1	Wyoming	6	+ 5.0
Subtotal south portion	48	+ 8.7	Subtotal	80	+10.8
Subtotal region	87	+ 4.4	PACIFIC		
EAST NORTH CENTRAL			California	6	+11.6
Illinois	6	+11.0	Oregon	5	+10.4
Indiana	22	+ 1.9	Washington	10	+ 8.7
Michigan	28	+13.5	Subtotal	21	+10.1
Ohio	21	+ 5.7			
Wisconsin	10	+ 5.2	TOTAL ALL STATES²	649	+ 8.6
Subtotal	87	+ 7.9	STATE HIGHWAYS²	617	+ 8.3
WEST NORTH CENTRAL			LOCAL HIGHWAYS	32	+ 9.2
Iowa	34	- 4.0	3 EASTERN REGIONS	185	+ 9.7
Kansas	14	+ 1.5	4 CENTRAL REGIONS	363	+ 7.2
Minnesota	27	+10.5	2 WESTERN REGIONS	101	+10.8
Missouri	27	- 1.2			
Nebraska	12	- 1.0			
North Dakota	11	+ 3.3			
South Dakota	10	+ 5.7			
Subtotal	135	+ 1.4			

¹Combined State and local highways.

²Includes all States except the following: South Carolina.

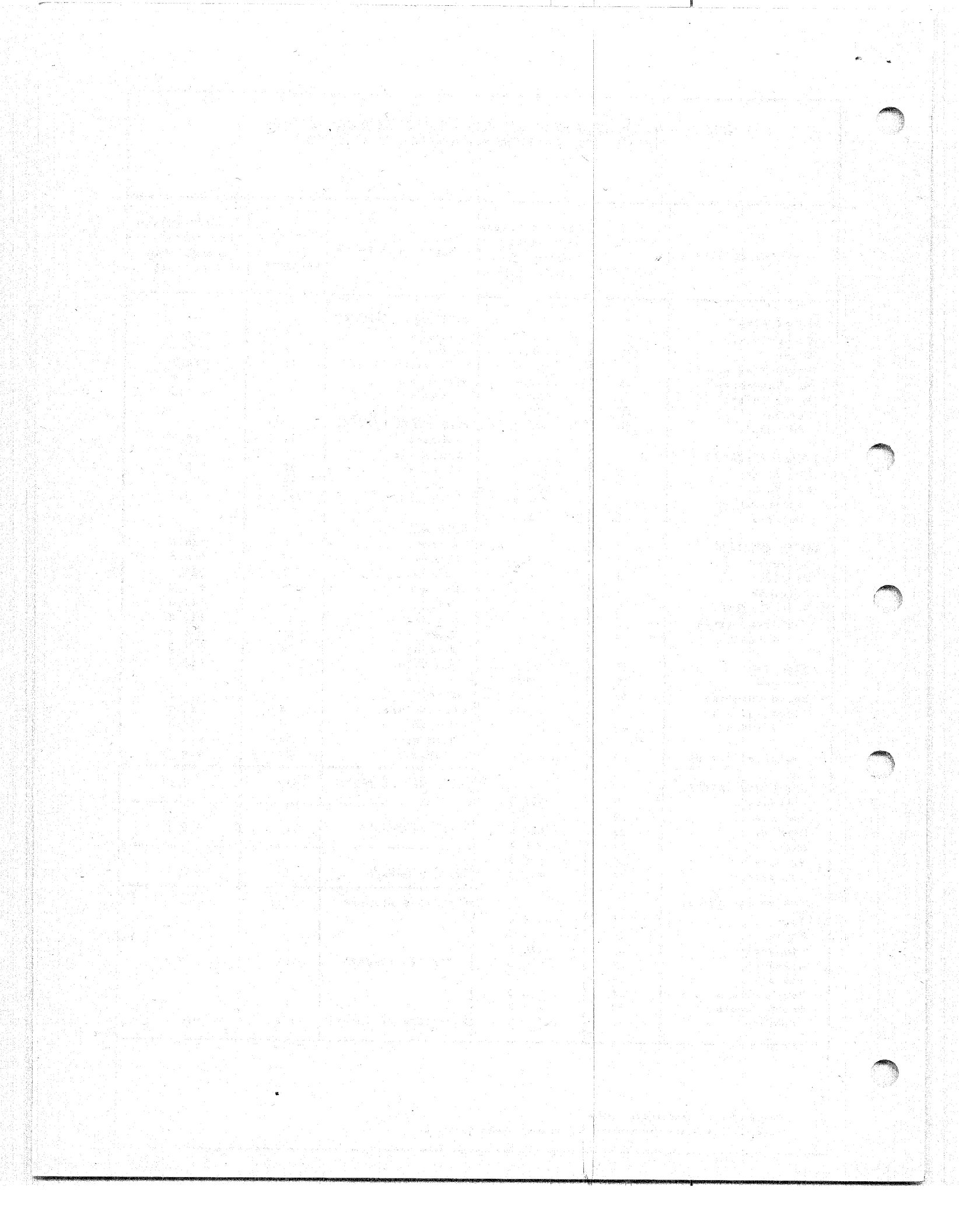


TABLE 3.--NUMBER OF VEHICLES, CLASSIFIED BY TYPES, USING TOLL FACILITIES IN MARCH 1947
COMPARED WITH THOSE IN MARCH 1946 AND 1941.

Facilities	1947			Percentage change from 1946			Percentage change from 1941		
	Total	Passenger cars	Trucks and busses	Total	Passenger cars	Trucks and busses	Total	Passenger cars	Trucks and busses
EASTERN REGIONS									
4 in the New England States	46,667	40,069	6,598	- 6.6	- 8.6	+ 8.1	+24.2	+16.2	+114.6
17 in the Middle Atlantic States	9,859,310	8,450,161	1,409,149	+ 9.3	+ 7.4	+22.2	+44.0	+43.0	+50.6
Fleetwood Viaduct, Westchester County, New York	383,037	383,037	--	+ 7.8	+ 7.8	--	-24.5	-24.5	--
Pennsylvania Turnpike	158,417	113,921	44,496	+ 1.1 ³	- 8.2	+36.1	+28.3	+13.5	+93.0
4 in the South Atlantic States	331,293	259,919	71,374	- 3.0	- 7.5	+18.2	+11.5	+ 7.5	+28.7
TOTAL - 27 facilities ¹	10,778,724	9,247,107	1,531,617	+ 8.6	+ 6.6	+22.3	+38.0	+36.1	+50.5
TOTAL - 31 facilities	11,682,214	10,055,949	1,626,265	+ 8.8	+ 7.1	+20.3	--	--	--
CENTRAL REGIONS									
2 on the Great Lakes Canadian Border ²	150,826	141,081	9,745	- 7.7	- 9.1	+19.1	+76.3	+80.4	+32.3
1 in the Great Lakes Region	7,096	5,723	1,373	-12.5	-16.9	+11.8	+16.3	+11.9	+39.1
Subtotal - 3 facilities	157,922	146,804	11,118	- 8.0	- 9.5	+18.2	+72.3	+76.2	+33.1
5 on the Ohio River	444,507	363,888	80,619	- 1.7	- 4.5	+13.3	+17.2	+17.2	+17.3
1 in Kentucky	10,048	7,385	2,663	+ 5.9	+ 4.4	+10.1	+70.2	+67.6	+77.8
Subtotal - 6 facilities	454,555	371,273	83,282	- 1.5	- 4.3	+13.2	+28.0	+17.9	+18.0
7 on the Mississippi and St. Croix Rivers									
St. Louis and North	498,106	415,568	82,538	+ 9.4	+ 4.9	+39.2	+36.4	+35.3	+42.1
3 on the Mississippi River south of St. Louis	110,468	86,336	24,132	+11.5	+10.2	+16.4	+65.6	+78.9	+30.7
Subtotal - 10 facilities	608,574	501,904	106,670	+ 9.8	+ 5.8	+33.3	+40.9	+41.2	+39.3
4 on the Missouri River	225,942	166,730	59,212	+ 6.1	+ 4.3	+11.4	+51.8	+56.3	+40.4
2 in the Missouri River area	3,710	3,040	670	- 3.2	- 2.8	- 5.1	+ 2.0	+ 3.0	- 2.2
Subtotal - 6 facilities	229,652	169,770	59,882	+ 5.9	+4.2	+11.2	+60.6	+54.8	+39.7
TOTAL - 25 facilities ¹	1,450,703	1,189,751	260,952	+ 3.3	+ 0.2	+20.3	+36.7	+37.8	+31.8
TOTAL - 32 facilities	1,750,690	1,440,649	310,041	+ 2.7	+ 0.3	+15.9	--	--	--
WESTERN REGIONS									
2 in California	2,598,843	2,353,170	245,673	+ 4.9	+ 4.2	+12.1	+44.3	+41.6	+76.0
4 in the Oregon-Washington Area	362,335	318,922	43,413	+13.0	+12.7	+15.4	+120.2	+116.1	+155.0
TOTAL - 6 facilities	2,961,178	2,672,092	289,086	+ 5.8	+ 5.1	+12.6	+50.6	+47.7	+84.6
UNITED STATES									
TOTAL - 58 facilities ¹	15,190,605	13,108,950	2,081,655	+ 7.5	+ 5.7	+20.6	+40.2	+38.5	+51.7
TOTAL - 69 facilities	16,394,082	14,168,690	2,225,392	+ 7.6	+ 6.0	+18.6	--	--	--

¹These facilities have comparative data for 1946, 1945, and 1941 and are included in the larger total below.

²One of these facilities is in Western New York and therefore is related to similar facilities in the Central States.

³Corresponding figure for February should have been -3.8 instead of +96.2 as shown in the February report.

1950

1951

1952

1953

1954

1955

1956

1957

1958

1959

1960

1961

1962

1963

1964

1965

1966

1967

1968

1969

1970

1971

1972

1973

1974

1975

1976

1977

1978

1979

1980

1981

1982

1983

1984

1985

1986

1987

1988

1989

1990

1991

1992

1993

1994

1995

1996

1997

1998

1999

2000

2001

2002

2003

2004

2005

2006

2007

2008

2009

2010

2011

2012

2013

2014

2015

2016

2017

2018

2019

2020

2021

2022

2023

2024

2025

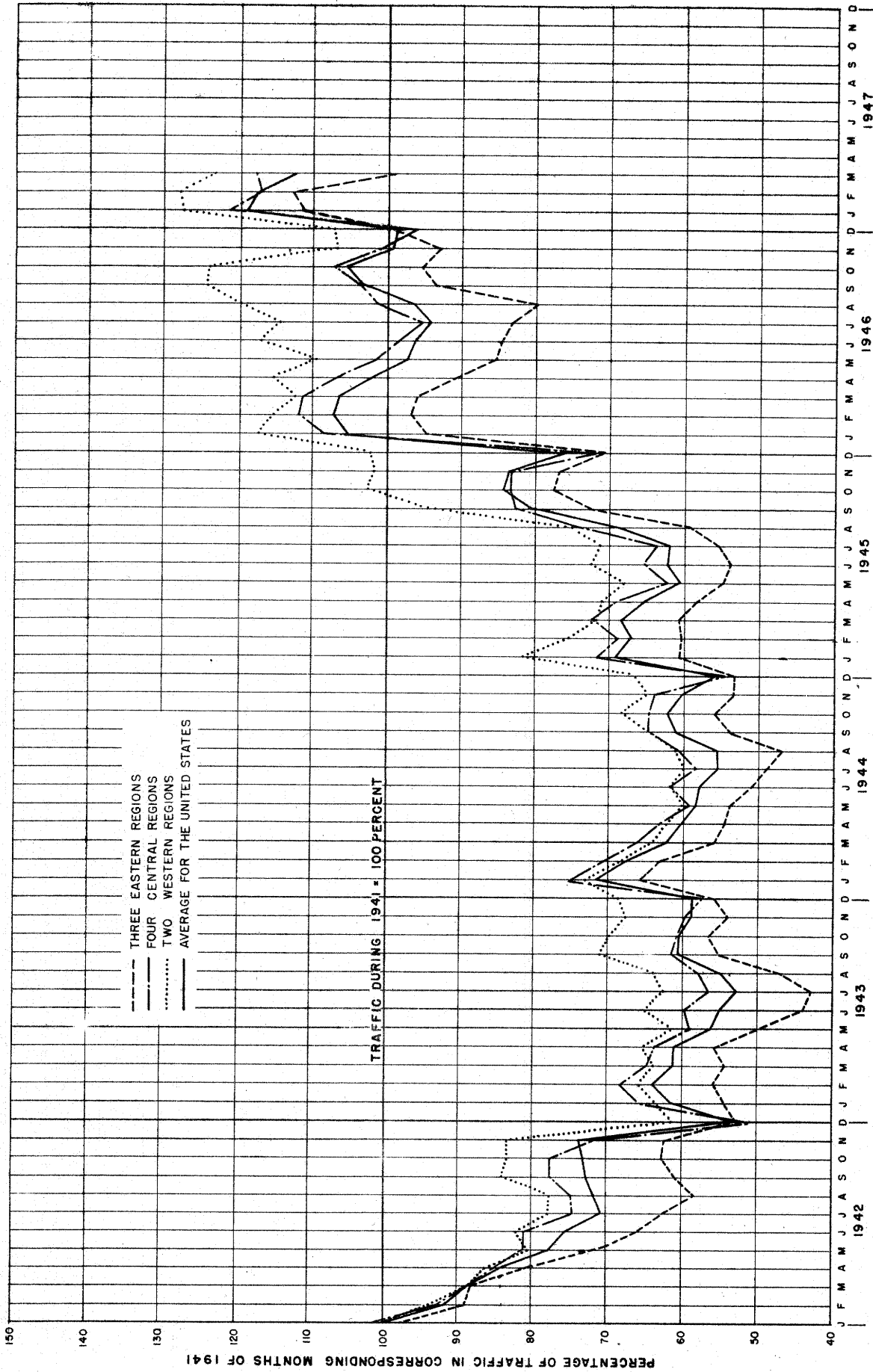


FIGURE 1 — PERCENTAGE RELATIONS OF RURAL TRAFFIC BY MONTHS IN 1942 TO 1947 WITH THAT IN CORRESPONDING MONTHS OF 1941

FIGURE 1. QUANTITATIVE MEASUREMENTS OF BOLD SIGNAL CHANGES IN RESPONSE TO 100% O₂ INHALATION. (FROM [1])

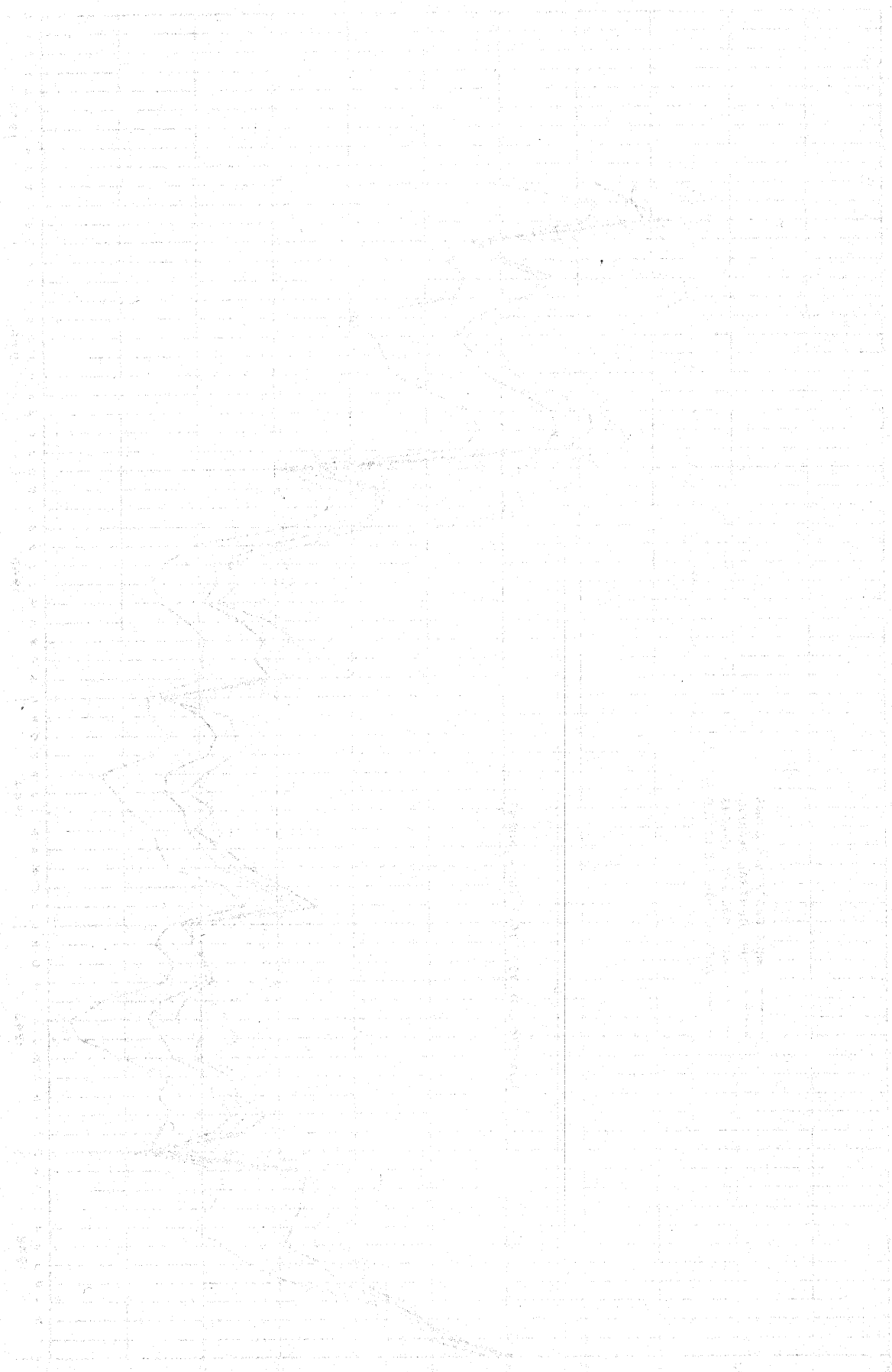


FIGURE 1. QUANTITATIVE MEASUREMENTS OF BOLD SIGNAL CHANGES IN RESPONSE TO 100% O₂ INHALATION. (FROM [1])

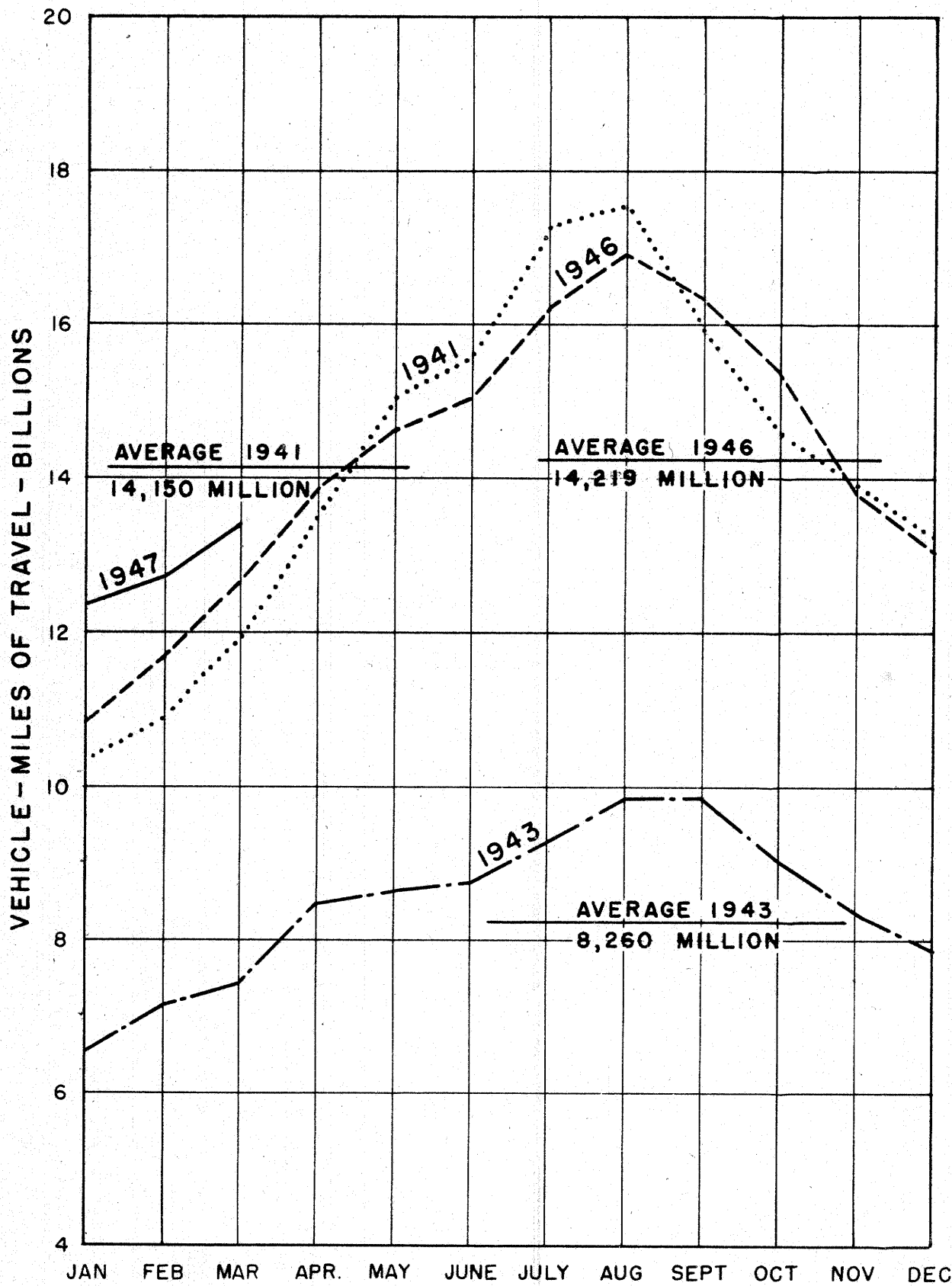
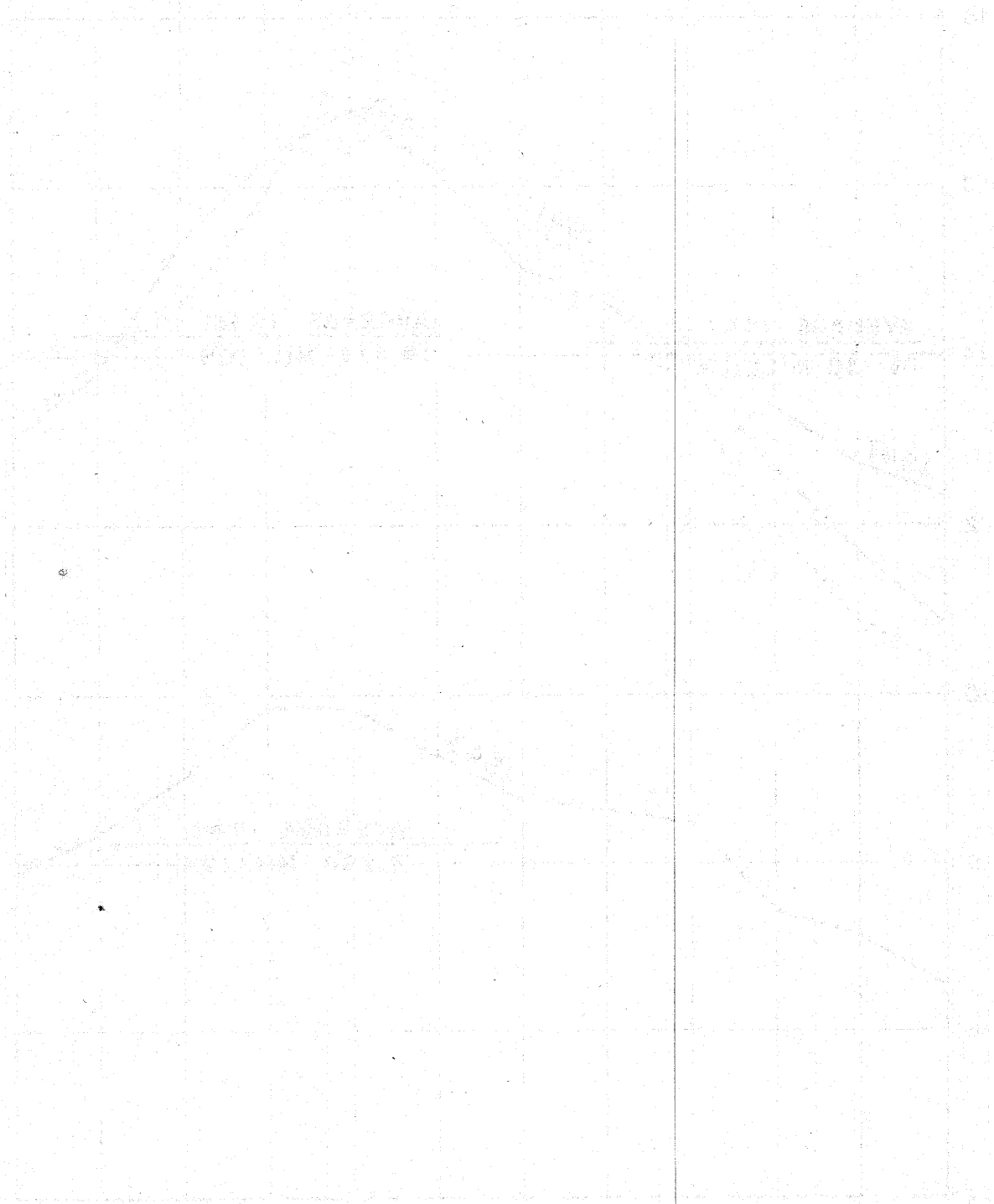


FIGURE 2 - VEHICLE - MILES OF TRAVEL ON ALL RURAL ROADS IN 1941, 1943, 1946 AND 1947



Vertical text on the right side of the grid, possibly a label or axis title.

Horizontal text at the bottom of the page, possibly a title or caption.