JOINT HIGHWAY RESEARCH PROJECT

JHRP-77-12

TRAFFIC SPEED REPORT NO. 100

G.S. Toft

G.K. Stafford

TRAFFIC SPEED REPORT NO. 100

T0: J. F. McLaughlin, Director
Joint Highway Research Project

July 6, 1977

File: 8-3-3

FROM: H. L. Michael, Associate Director
Joint Highway Research Project

Project: C-36-10C

The attached Progress Report No. 100 on Traffic Speeds is the report of the January-March 1977 quarterly study of free-flowing automobile and truck speeds on rural, tangent, level sections of Interstate, 4-lane and 2-lane and on urban interstate highways in Indiana. The report has been prepared by Mr. G. S. Toft, a Graduate Instructor in Research on our staff, under the direction of Professor H. L. Michael. The data collection was directed by Mr. G. K. Stafford of our staff.

The results indicate similar speeds for all passenger cars and trucks as those of the October-December 1976 Study.

Copies of the report will be sent to the Federal Highway Administration and the ISHC for review, comment and acceptance as fulfillment of the objectives of this HPR Part I Study. Copies of the report are requested for release to the Indiana State Police and the Indiana Office of Traffic Safety as a normal procedure for these reports.

Respectfully submitted,

Howard & Michael

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Interim Report
TRAFFIC SPEED REPORT NO. 100

by

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File No.: 8-3-3

Project No.: C-36-10C

Prepared as Part of an Investigation

Conducted by

Joint Highway Research Project
Engineering Experiment Station
Purdue University

in cooperation with the

Indiana State Highway Commission

and the

U. S. Department of Transportation
Federal Highway Administration

The opinions, findings and conclusions expressed in this publication are those of the authors and not necessarily those of the Federal Highway Administration.

Purdue University
West Lafayette, Indiana
July 6, 1977

1. Report No. JHRP-77-11	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle TRAFFIC SPEED REPORT NO. 100		5. Report Date July 6, 1977	
		6. Performing Organization Code	
7. Author(s) G. S. Toft and G. K. Stafford		8. Performing Organization Report No. JHRP-77-11	
9. Performing Organization Name and Address Joint Highway Research Project Civil Engineering Building Purdue University West Lafayette, Indiana 47907		10. Work Unit No.	
		11. Contract or Grant No. HPR-1(14) Part I	
12. Sponsoring Agency Name and Address* Indiana State Highway Commission State Office Building 100 North Senate Avenue Indianapolis, Indiana 46204		13. Type of Report and Period Covered Interim Report Jan.-Mar. 1977	
		14. Sponsoring Agency Code	
15. Supplementary Notes Conducted in cooperation with the U. S. Department of Transportation, Federal Highway Administration. Planning Study titled "Speed Trends Trends for Indiana Highways".			
16. Abstract This report is another in the continuing study of speeds of vehicles on Indiana Highways. Observations of spot speeds were taken on interstate, four-lane and two-lane highways throughout the state during the January-March 1977 Quarter. Analysis of the speeds showed the overall average speed for all vehicles was 57.0 mph. The overall average speed for passenger cars and all trucks was 57.8 mph and 56.0 mph, respectively. These overall average speeds were similar for passenger cars and trucks to the speeds found in the October-December 1976 Study (Speed Report No. 99).			
17. Key Words Speeds, Highway Speeds, Rural Highway Speeds, Speed Trends, 55 mph Speed Effect		18. Distribution Statement No restrictions. This document is available to the public through the National Technical Information Service, Springfield, VA 22161	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages	22. Price

TRAFFIC SPEED REPORT NO. 100

This report is an analysis of spot speed observations made during the January-March 1977 Quarter. All observations were made of free-flowing vehicles on level, tangent sections of rural and urban highways during daylight and under favorable conditions.

The speed monitoring stations for each highway classification were divided into two groups. The first group is identified as "control stations" and were the same locations on selected Federal and State highways as used in previous studies. The second group is selected at random for each quarterly study.

Fourteen speed monitoring stations were operated for the reported study. Seven of these stations were the control stations noted above. The other seven stations were those selected at random for this quarterly study.

Stations were classified as two-lane, four-lane, rural interstate, or urban interstate highways. A representative sample of spot speeds was obtained at each station in each classification. The site locations were as follows: (See Figure A)

Rural Interstate Highways

*RI-21 (I-69)	3.3 miles south of junction of SR 18
*RI-6 (I-65)	7.5 miles north of junction of SR 160
RI-8 (I-65)	2.8 miles north of junction of SR 46
RI-30 (I-65)	1.4 miles north of junction of SR 14

Four-Lane Highways

*4L-32 (U.S. 30)	2.0 miles east of junction of SR 49
*4L-17 (U.S. 52)	1.0 mile west of Klondike
4L-31 (U.S. 30)	1.6 miles east of SR 39
4L-7 (U.S. 40)	2.0 miles east of Harmony

Two-lane Highways

*2L-18 (U.S. 35)	1.5 miles east of junction of I-69
*2L-54 (U.S. 231)	1.0 mile south of junction of SR 234
2L-84 (U.S. 150)	4.8 miles north of junction of U.S. 40
2L-17 (U.S. 6)	1.3 miles east of Dekalb & Noble Co. Line

Urban Interstate Highways

*UI-6 (I-65)	East of White River Bridge
UI-8 (U.S. 265)	0.7 miles east of bridge of SR 111

The vehicles were classified as Indiana or Non-Indiana Passenger Cars and Light (less than 5000 lbs. gross weight) or Heavy (equal to or more than 5000 lbs. gross weight) Trucks. The analysis was performed as classified and combined, passenger cars or trucks.

The maximum speed limit in Indiana is 55 miles per hour, both on Interstate and other rural highways.

*Control stations

FIGURE A , LOCATIONS OF SPEED-STUDY STATIONS

Equipment and Field Procedure

The observations for this study were obtained by use of a Radar Speed Meter. The meter was located in a van type vehicle parked as a disabled vehicle on the right shoulder. The van was equipped with one-way vision windows on the rear and side facing traffic so that approaching vehicles could not observe the speed measurement process. The observers were also equipped with CB radio equipment so as to monitor possible radio notification of the speed measurement and of police vehicles in the area. When any such incidents occurred speeds were not taken for at least a following 15 minute period. Such periods rarely occurred. There was rarely indication, in fact, that motorists were ever aware of the presence of a speed measuring station while it was in operation.

The speed was measured at a distance from the van that the angle of measurement with the highway center line was always less than 10° . No corrections of speeds were necessary at these small angles. At the beginning of the study the accuracy of the meter was checked and any constant discrepancy of readings was corrected accordingly.

RESULTS OF ANALYSIS

The data collected were analyzed and are summarized in Tables 1 to 14 in the Appendix. Tables 15, 16, 17 and 18 summarize the data for rural interstate, four lane, two lane and urban interstate highways, respectively. Table 19 is the summary for all highways. Tables 20 through 34 are summaries in an FHWA format which is desired.

The average speed for each classification of vehicles on each type of highway for this study was as follows:

	<u>Interstate</u>		<u>Other</u>	<u>Two Lane</u>
	<u>Urban</u>	<u>Rural</u>	<u>Four Lane Rural</u>	<u>Rural</u>
<u>Passenger Cars:</u>				
Indiana	57.0	60.1	56.7	56.5
Non-Indiana	57.1	61.0	58.7	58.3
All Passenger Cars	57.0	60.5	57.0	56.7
85 Percentile (all)	61.5	64.7	61.7	61.8
<u>Trucks:</u>				
Less than 5000 lbs.	55.9	58.0	54.8	55.8
5000 lbs. or more	56.2	59.3	54.8	53.5
<u>All Vehicles:</u>				
Average	56.7	59.8	56.0	55.8
85 Percentile	61.1	64.2	61.1	61.2

The percent of vehicles exceeding the speed limit (55 mph) for each classification of vehicle and each type of highway was as follows:

	<u>Interstate</u>		<u>Other</u>	<u>Two Lane</u>
	<u>Urban</u>	<u>Rural</u>	<u>Four Lane</u>	
<u>Passenger Cars:</u>				
Indiana	60.7	82.4	59.7	57.3
Non-Indiana	63.9	89.2	77.2	69.6
All Passenger Cars	61.2	86.0	62.4	59.0
<u>Trucks:</u>				
Less than 5000 lbs.	54.1	70.6	49.1	50.9
5000 lbs. or more	59.9	76.8	51.9	39.3
<u>All Vehicles:</u>	59.8	81.2	57.2	53.1

The percent of vehicles traveling more than 5 mph above the speed limit (exceeding 60 mph) for each case was as follows:

	<u>Interstate</u>		<u>Other</u>	<u>Two Lane</u>
	<u>Urban</u>	<u>Rural</u>	<u>Four Lane Rural</u>	<u>Rural</u>
<u>Passenger Cars:</u>				
Indiana	23.6	45.1	23.7	21.8
Non-Indiana	26.4	51.9	34.9	28.4
All Passenger Cars	23.9	48.6	25.4	22.8
<u>Trucks:</u>				
Less than 5000 lbs.	14.8	28.9	17.0	19.4
5000 lbs. or more	19.2	42.2	13.4	12.6
<u>All Vehicles:</u>	21.6	44.2	20.7	19.9

The percent of vehicles traveling more than 10 miles per hour above the speed limit (exceeding 65 mph) for each case was as follows:

	<u>Interstate</u>		<u>Other</u>	<u>Two Lane</u>
	<u>Urban</u>	<u>Rural</u>	<u>Four Lane Rural</u>	<u>Rural</u>
<u>Passenger Cars:</u>				
Indiana	5.2	12.6	5.1	6.9
Non-Indiana	5.6	14.5	9.4	10.1
All Passenger Cars	5.2	13.6	5.8	7.3
<u>Trucks:</u>				
Less than 5000 lbs.	3.0	9.6	3.1	5.4
5000 lbs. or more	2.3	9.7	2.0	1.5
<u>All Vehicles:</u>	4.3	11.9	4.3	5.7

Summary and Conclusions

The overall average speed for all vehicles and passenger cars in this study was found to be 57.0 and 57.8 mph, respectively. The overall average speeds for heavy trucks and for all trucks were found to be 56.0 mph and 56.0 mph, respectively. These overall average speeds were very similar to overall average speeds as found in the October-December 1976 Study.

Table A presents a comparison of the overall speed results with that of the previous two studies. The 85th percentile speed of passenger cars was about the same for the three periods under consideration.

A comparison of the January-March 1977 speed data with that for other recent periods for several types of highway for passenger cars and trucks is shown in Tables B, C, D and E.

Average truck speeds showed no major variations for each highway type as compared to the October-December 1976 study. Over the last year truck speeds on other 4-lane rural highways have shown a continuing downward trend not observable on other highway types.

The small overall decline in the average speeds and 85th percentile speeds for passenger cars was brought about by speed reductions mainly on urban interstate and other 4-lane rural highways. Average passenger car speeds actually increased slightly on rural interstate and 2-lane highways compared with November-December 1976 figures. Over the last year passenger car speeds on rural interstate highways have shown a continuous upward trend not observable on other highway types.

TABLE A
COMPARISON OF THE OVERALL SPEED RESULTS

	Jan.-Mar. <u>1977</u>	Oct.-Dec. <u>1976</u>	July-Sept. <u>1976</u>
<u>Average:</u>			
All Passenger Cars	57.8	58.0	58.0
Heavy Trucks	56.0	56.0	57.1
All Trucks	56.0	56.1	57.0
 <u>85 Percentile:</u>			
All Passenger Cars	62.7	63.0	62.7
Heavy Trucks	61.5	60.9	61.9
All Trucks	61.4	61.0	61.9
 <u>15 Percentile:</u>			
Heavy Trucks	49.7	50.3	51.4

TABLE B
AVERAGE SPEEDS ON INTERSTATE HIGHWAYS (URBAN)

	Jan.-Mar. <u>1977</u>	Oct.-Dec. <u>1976</u>	July-Sept. <u>1976</u>	Apr.-June <u>1976</u>
<u>Passenger Cars:</u>				
Indiana	57.0	57.3	58.4	57.5
Non-Indiana	57.1	57.8	58.6	57.8
All Passenger Cars	57.0	57.3	58.4	57.5
85 Percentile (all)	61.5	61.2	63.6	61.6
<u>Trucks:</u>				
Less than 5000 lbs.	55.9	55.7	57.7	56.4
5000 lbs. or more	56.2	55.4	57.3	54.8

TABLE C
AVERAGE SPEEDS ON INTERSTATE HIGHWAYS (RURAL)

	Jan.-Mar. <u>1977</u>	Oct.-Dec. <u>1976</u>	July-Sept. <u>1976</u>	Apr.-June <u>1976</u>
<u>Passenger Cars:</u>				
Indiana	60.1	59.7	59.5	58.1
Non-Indiana	61.0	60.1	60.2	58.9
All Passenger Cars	60.5	59.9	59.8	58.6
85 Percentile (all)	64.7	64.5	64.3	62.5
<u>Trucks:</u>				
Less than 5000 lbs.	58.0	58.0	58.5	57.1
5000 lbs. or more	59.3	57.4	58.4	58.7

TABLE D
AVERAGE SPEEDS ON OTHER FOUR-LANE HIGHWAYS

	Jan.-Mar. <u>1977</u>	Oct.-Dec. <u>1976</u>	July-Sept. <u>1976</u>	Apr.-June <u>1976</u>
<u>Passenger Cars:</u>				
Indiana	56.7	58.1	57.2	57.1
Non-Indiana	58.7	59.8	57.8	57.2
All Passenger Cars	57.0	58.3	57.3	57.1
85 Percentile (all)	61.7	63.7	61.8	61.9
<u>Trucks:</u>				
Less than 5000 lbs.	54.8	56.8	56.9	56.6
5000 lbs. or more	54.8	55.9	56.6	57.0

TABLE E
AVERAGE SPEEDS ON TWO-LANE HIGHWAYS

	Jan.-Mar. <u>1977</u>	Oct.-Dec. <u>1976</u>	July-Sept. <u>1976</u>	Apr.-June <u>1976</u>
<u>Passenger Cars:</u>				
Indiana	56.5	56.4	56.4	55.3
Non-Indiana	58.3	56.3	57.8	55.3
All Passenger Cars	56.7	56.4	56.6	55.3
85 Percentile (all)	61.8	61.4	61.5	60.7
<u>Trucks:</u>				
Less than 5000 lbs.	55.8	54.9	55.6	53.5
5000 lbs. or more	53.5	54.4	55.4	53.5

TABLE 1 SPEED DATA

Station RI-6 Highway I-65 Location 7.5 Miles North of SR 160 Weather Clear
 No. of Lanes 4 Type of Surface Concrete
 This Observation
 Date 3/14/77 Last Previous Observation (Speed Report No. 99)
 Time 12:12 - 1:05PM-SB & 1:20 - 2:20PM-NB Date 11/18/76
 Time 9:05 - 10:07AM-SB & 10:36 - 11:23AM-NB

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.	246	275	161	120	85	155	195	202	46	61	149	141
Ave. speed (m.p.h.)	60.09	60.43	60.45	60.01	59.39	60.75	58.17	59.69	57.72	59.49	58.32	59.77
Standard deviation	4.731	5.548	4.672	5.586	4.791	5.514	4.823	4.891	4.241	5.019	4.993	4.850
24 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
29 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
34 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
39 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
44 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
49 m.p.h.	.41	.36	0	.83	1.18	0	0	0.50	0	1.64	0	0
54 m.p.h.	.41	4.00	0	4.17	1.18	3.87	1.54	2.48	0	1.64	2.01	2.84
59 m.p.h.	11.79	13.09	9.94	15.83	15.29	10.97	23.59	13.37	23.91	11.48	23.49	14.18
64 m.p.h.	46.34	41.09	45.34	43.33	48.24	39.35	62.05	49.01	63.04	55.74	61.74	46.10
69 m.p.h.	84.55	83.27	83.23	84.17	87.06	82.58	90.77	85.64	93.48	86.89	89.93	85.11
74 m.p.h.	96.34	94.18	95.65	94.17	97.65	94.19	97.44	98.02	100.0	98.36	96.64	97.87
79 m.p.h.	100.0	98.91	100.0	100.0	100.0	98.06	100.0	99.50	100.0	100.0	100.0	99.29
84 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 m.p.h.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
No. of vehicles obs.	122	147	74	61	48	86	93	115	26	42	69	73
Average speed	60.15	61.43	60.03	60.62	59.92	62.00	56.91	60.42	57.23	60.10	56.78	60.60
No. of vehicles obs.	124	128	87	59	37	69	100	87	20	19	80	68
Average speed	60.02	59.28	60.59	59.37	58.70	59.20	59.38	58.72	58.35	58.16	59.64	58.88

TABLE 2 SPEED DATA

Station RI-21 Highway I-69 Location 3 Miles South of SR 18 Weather Overcast
 No. of Lanes 4 Type of Surface Concrete Last Previous Observation (Speed Report No. 99)
 This Observation
 Date 3/17/77 Date 11/8/76
 Time 10:35-11:31AM-NB & 12:03-1:12PM-SB Time 10:55-11:55AM-NB & 12:22-1:12PM-SB

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.	279	242	166	137	113	105	181	186	50	55	131	131
Ave. speed (m.p.h.)	59.39	60.24	58.95	59.30	60.04	61.48	56.73	57.91	57.66	57.18	56.61	58.22
Standard deviation	5.005	5.138	4.999	4.919	4.966	5.180	5.143	5.109	6.393	5.677	4.600	4.841
24 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
29 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
34 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
39 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
44 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
49 m.p.h.	1.79	2.48	1.20	3.65	2.65	.95	2.21	.54	2.00	1.82	2.29	0
54 m.p.h.	16.49	10.33	19.28	13.87	12.39	5.71	7.18	4.84	6.00	7.27	7.63	3.82
59 m.p.h.	53.05	46.69	57.23	54.01	46.90	37.14	74.03	63.98	72.00	67.27	74.81	62.60
64 m.p.h.	86.38	84.30	86.14	87.59	86.73	80.0	93.37	88.71	86.00	89.09	96.18	88.55
69 m.p.h.	96.77	94.21	97.59	97.08	95.58	90.48	98.34	98.39	96.00	98.18	99.24	98.47
74 m.p.h.	99.28	98.76	100.0	99.27	98.23	98.10	100.0	100.0	100.0	100.0	100.0	100.0
79 m.p.h.	100.0	100.0	100.0	100	100.0	100	100.0	100.0	100.0	100	100.0	100
84 m.p.h.	100.0	100.0	100.0	100	100.0	100	100.0	100.0	100.0	100	100.0	100
89 m.p.h.	100.0	100.0	100.0	100	100.0	100	100.0	100.0	100.0	100	100.0	100
No. of vehicles obs.	157	118	110	72	47	46	84	96	16	25	68	71
Average speed	59.69	61.08	59.19	60.25	60.85	62.37	57.21	59.25	57.25	58.56	57.21	59.49
No. of vehicles obs.	122	124	56	65	66	59	97	90	34	30	63	60
Average speed	59.01	59.45	58.48	58.25	59.45	60.78	56.32	56.49	56.97	56.03	55.97	56.72

TABLE 3 SPEED DATA

NB 2.8 miles north of SR 46 @ #71 mile marker
SB 4.5 miles south of SR 46 @ Taylorsville

Station RI-8 Highway I-65 Location Concrete Weather Clear
No. of Lanes 4 Type of Surface Concrete

This Observation Last Previous Observation (Speed Report No.)
Date 3/29/77 Date None Taken
Time 11:06-11:43AM-SB & 12:19-1:00PM-NB Time

OBSERVATION	PASSENGER CARS						TRUCKS					
	All			Indiana			Non-Indiana			All		
	Last	Pres- ent	Last	Pres- ent	Last	Pres- ent	Last	Pres- ent	Last	Pres- ent	Last	Pres- ent
No. of vehicles obs.		232		109		123		198		62		136
Ave. speed (m.p.h.)		60.64		60.72		60.58		58.09		57.29		58.46
Standard deviation		5.276		5.588		5.007		5.644		5.681		5.609
24 m.p.h.		0		0		0		0		0		0
29 m.p.h.		0		0		0		0		0		0
34 m.p.h.		0		0		0		0		0		0
39 m.p.h.		0		0		0		0		0		0
44 m.p.h.		0		0		0		1.52		3.23		.74
49 m.p.h.		.86		.92		.81		6.06		6.45		5.88
54 m.p.h.		9.91		11.01		8.94		24.24		32.26		20.59
59 m.p.h.		43.97		44.04		43.90		60.61		67.74		57.35
64 m.p.h.		80.60		80.73		80.49		88.38		88.71		88.24
69 m.p.h.		92.67		91.74		93.50		97.47		98.39		97.06
74 m.p.h.		98.28		97.25		99.19		99.49		100		99.26
79 m.p.h.		99.57		99.08		100		100		100		100
84 m.p.h.		100.0		100		100		100		100		100
89 m.p.h.		100.0		100		100		100		100		100
No. of vehicles obs.		120		51		69		93		35		58
Average speed		61.13		61.65		60.75		60.04		57.94		61.31
No. of vehicles obs.		112		58		54		105		27		78
Average speed		60.12		59.90		60.35		56.36		56.44		56.33
All Vehicles												
Bnd												
Bnd												

TABLE 4 SPEED DATA

Station RI-30 Highway I-65 Location 1.4 Miles North of SR 14 Weather Clear
 No. of Lanes 4 Type of Surface Concrete
 This Observation Last Previous Observation (Speed Report No.)
 Date 3/25/77 Date None Taken
 Time 10:49-11:32AM-NB Time

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
All Vehicles	No. of vehicles obs.	127	55	72	85	19	66					
	Ave. speed (m.p.h.)	61.13	61.00	61.22	61.01	58.05	61.86					
	Standard deviation	5.400	4.985	5.729	5.023	5.492	4.577					
	24 m.p.h.	0	0	0	0	0	0					
	29 m.p.h.	0	0	0	0	0	0					
	34 m.p.h.	0	0	0	0	0	0					
	39 m.p.h.	0	0	0	0	0	0					
	44 m.p.h.	0	0	0	0	0	0					
	49 m.p.h.	0	0	0	0	0	0					
	54 m.p.h.	79	0	1.39	1.18	5.26	0					
	59 m.p.h.	6.30	5.45	6.94	11.76	21.05	9.09					
	64 m.p.h.	34.65	36.36	33.33	34.12	68.42	24.24					
	69 m.p.h.	80.31	80	80.56	80.0	94.74	75.76					
Bnd	74 m.p.h.	96.06	94.55	97.22	92.94	94.74	92.42					
	79 m.p.h.	96.85	96.36	97.22	98.82	94.74	100					
	84 m.p.h.	99.21	100	98.61	100	100	100					
	89 m.p.h.	99.21	100	98.61	100	100	100					
	No. of vehicles obs.	127	55	72	85	19	66					
	Average speed	61.13	61.0	61.22	61.01	58.05	61.86					
	No. of vehicles obs.	0	0	0	0	0	0					
	Average speed	I	I	I	I	I	I					

TABLE 5 SPEED DATA

Station 4L-17 Highway U.S. 52 Location .25 Miles East of Co. Rd. 475 W
 No. of Lanes 4 Type of Surface Asphalt Weather Overcast
 This Observation Last Previous Observation (Speed Report No. 99)
 Date 3/11/77 Date 11/1/76
 Time 9:40-11:35AM-WB & 12:40-2:15PM-EB Time 9:25-2:40PM

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.	285	288	266	265	19	23	139	170	88	110	51	60
Ave. speed (m.p.h.)	57.23	56.80	57.25	56.68	56.89	58.17	55.30	55.12	55.86	55.14	54.33	55.08
Standard deviation	6.259	5.836	6.342	5.805	5.087	6.147	6.476	5.618	6.322	5.436	6.668	5.984
24 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
29 m.p.h.	0	0	0	0	0	0	.72	0	0	0	1.96	0
34 m.p.h.	0	0	0	0	0	0	.72	0	0	0	1.96	0
39 m.p.h.	0.70	1.04	0.75	1.13	0	0	2.16	0	1.14	0	3.92	0
44 m.p.h.	2.81	2.08	3.01	2.26	0	0	5.76	5.29	5.68	5.45	5.88	5.0
49 m.p.h.	10.53	9.72	11.28	9.81	0	8.70	11.51	15.29	9.09	15.45	15.69	15
54 m.p.h.	28.07	33.33	28.20	33.96	26.32	26.09	41.01	45.29	39.77	42.73	43.14	50
59 m.p.h.	64.21	69.79	63.91	70.94	68.72	56.52	78.42	75.29	77.27	78.18	80.39	70
64 m.p.h.	88.42	92.36	87.97	93.21	94.74	82.61	96.40	97.06	94.32	98.18	100.0	95
69 m.p.h.	97.19	98.26	96.99	98.11	100.0	100	97.84	100	96.59	100	100.0	100
74 m.p.h.	99.65	100	99.62	100	100.0	100	99.28	100	98.86	100	100.0	100
79 m.p.h.	99.65	100	99.62	100	100.0	100	100.0	100	100.0	100	100.0	100
84 m.p.h.	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100
89 m.p.h.	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100
No. of vehicles obs.	151	164	147	149	4	15	61	82	40	59	21	23
Average speed	57.68	56.90	57.67	56.70	58.00	58.87	55.95	54.85	56.10	54.90	55.67	54.74
No. of vehicles obs.	134	124	119	116	15	8	78	88	48	51	30	37
Average speed	56.72	56.67	56.74	56.66	56.60	56.88	54.79	55.36	55.67	55.41	53.40	55.30

TABLE 6 SPEED DATA

Station 4L-32 Highway U.S. 30 Location EB 3.5 Miles West of Waratah City Limit Sign
 No. of Lanes 4 Type of Surface Asphalt Weather Clear

This Observation Last Previous Observation (Speed Report No. 99)
 Date 3/23/77 Date 11/3/76
 Time 10:50-11:54AM-WB & 12:22-1:28PM-EB Time 9:30-12:35AM

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.	197	211	165	168	32	43	250	216	59	66	191	150
Ave. speed (m.p.h.)	57.87	57.62	57.61	57.49	59.25	58.14	55.73	55.25	56.92	54.76	55.37	55.47
Standard deviation	5.244	4.934	5.327	5.124	4.628	4.121	5.969	5.746	7.826	6.481	5.238	5.400
24 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
29 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
34 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
39 m.p.h.	0	47	0	60	0	0	0	46	0	1.52	0	0
44 m.p.h.	1.02	95	1.21	1.19	0	0	80	93	1.69	1.52	52	67
49 m.p.h.	4.57	3.79	5.45	4.17	0	0	5.60	5.09	8.47	7.58	4.71	4.0
54 m.p.h.	25.38	20.85	27.27	22.62	15.63	13.95	13.20	13.89	13.56	21.21	13.09	10.67
59 m.p.h.	62.44	70.14	64.85	69.05	50.00	74.42	77.20	79.63	33.90	42.42	39.79	42.0
64 m.p.h.	90.86	92.89	91.52	94.05	87.50	88.37	94.00	96.30	62.17	81.82	81.68	78.67
69 m.p.h.	97.97	98.58	97.85	98.21	100.0	100	98.40	99.54	84.75	95.45	96.86	96.67
74 m.p.h.	100.0	99.05	100.0	98.81	100.0	100	100.0	100	93.22	98.48	100.0	100
79 m.p.h.	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100
84 m.p.h.	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100
89 m.p.h.	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100
No. of vehicles obs.	100	104	78	79	22	25	111	108	27	27	84	81
Average speed	59.52	58.16	59.59	58.11	59.27	58.32	58.06	56.26	60.48	53.48	57.29	57.19
No. of vehicles obs.	97	107	87	89	10	18	139	108	32	39	107	69
Average speed	56.18	57.09	55.83	56.93	59.20	57.89	53.87	54.25	53.91	55.64	53.86	53.46

All Vehicles

Bnd

Bnd

TABLE 7 SPEED DATA

Station 4L-31 Highway U.S. 30 Location W.B. 1.2 Miles West of U.S. 35
 No. of Lanes 4 Type of Surface Asphalt Weather Clear

This Observation

Date 3/23/77

Time 2:05-3:13PM-EB & 3:44-4:43PM-WB

Last Previous Observation (Speed Report No.)
 Date None Taken
 Time

	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
OBSERVATION												
No. of vehicles obs.		209		147		62		223		56		167
Ave. speed (m.p.h.)		58.89		58.24		60.44		56.71		57.34		56.50
Standard deviation		4.512		4.597		3.924		4.617		5.822		4.135
% of vehicles traveling at or less than	24 m.p.h.	0		0		0		0		0		0
	29 m.p.h.	0		0		0		0		0		0
	34 m.p.h.	0		0		0		0		0		0
	39 m.p.h.	0		0		0		0		0		0
	44 m.p.h.	0		0		0		.90		1.79		.60
	49 m.p.h.	1.44		2.04		0		5.83		5.36		5.99
	54 m.p.h.	13.88		17.01		6.45		28.70		32.14		27.54
	59 m.p.h.	56.94		65.31		37.10		74.89		67.86		77.25
	64 m.p.h.	91.87		92.52		90.32		95.96		91.07		97.60
	69 m.p.h.	96.65		96.60		96.77		99.55		98.21		100
74 m.p.h.	100		100		100		100		100		100	
79 m.p.h.	100		100		100		100		100		100	
84 m.p.h.	100		100		100		100		100		100	
89 m.p.h.	100		100		100		100		100		100	
No. of vehicles obs.		101		76		25		117		31		86
Average speed		58.40		57.79		60.24		56.74		56.87		56.70
No. of vehicles obs.		108		71		37		106		25		81
Average speed		59.35		58.72		60.57		56.68		57.92		56.30
All Vehicles												
Bnd												
Bnd												

TABLE 8 SPEED DATA

Station 4L-7 Highway U.S. 40 Location 2 Miles East of Harmony Weather Cloudy
 No. of Lanes 4 Type of Surface Asphalt
 This Observation Last Previous Observation (Speed Report No.)
 Date 3/30/77 Date None Taken
 Time 10:36-12:37PM-EB & 12:51-2:43PM-WB Time

	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
OBSERVATION												
No. of vehicles obs.		260		239		21		170		92		78
Ave. speed (m.p.h.)		55.08		55.05		55.38		51.38		52.83		49.68
Standard deviation		6.271		6.183		7.365		7.551		6.748		8.118
24 m.p.h.		0		0		0		0		0		0
29 m.p.h.		0		0		0		0		0		0
34 m.p.h.		0		0		0		3.53		0		7.69
39 m.p.h.		0		0		0		7.06		3.26		11.54
44 m.p.h.		3.85		3.77		4.76		14.71		6.52		24.36
49 m.p.h.		16.54		16.32		19.05		37.65		32.61		43.59
54 m.p.h.		49.23		49.79		42.86		67.06		61.96		73.08
59 m.p.h.		76.54		76.57		76.19		87.06		82.61		92.31
64 m.p.h.		92.69		92.89		90.48		97.06		96.74		97.44
69 m.p.h.		97.31		97.49		95.24		99.41		98.91		100
74 m.p.h.		100		100		100		100		100		100
79 m.p.h.		100		100		100		100		100		100
84 m.p.h.		100		100		100		100		100		100
89 m.p.h.		100		100		100		100		100		100
No. of vehicles obs.		133		124		9		84		42		42
Average speed		56.42		56.15		60.22		53.65		54.19		53.12
No. of vehicles obs.		127		115		12		86		50		36
Average speed		53.68		53.88		51.75		49.16		51.68		45.67
All Vehicles												
Bnd Bnd												

TABLE 9 SPEED DATA

Station 2L-18 Highway U.S. 35 Location 1.5 Miles East of I-69 Weather Overcast
 No. of Lanes 2 Type of Surface Asphalt

This Observation
 Date 3/17/77 Last Previous Observation (Speed Report No. 99)
 Time 2:20-4:23 PM Date 11/8/76
 Time 2:23-4:15 PM

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.	330	303	298	271	32	32	151	147	76	75	75	72
Ave. speed (m.p.h.)	56.68	56.76	56.75	56.78	56.00	56.56	55.44	53.35	55.45	54.80	55.44	51.85
Standard deviation	5.807	4.692	5.860	4.706	5.328	4.642	4.874	5.424	5.029	5.448	4.746	5.006
24 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
29 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
34 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
39 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
44 m.p.h.	.91	.99	1.01	.74	0	3.13	3.31	4.76	2.63	4.0	4.00	5.56
49 m.p.h.	6.67	5.28	6.71	5.54	6.25	3.13	11.26	21.09	11.84	12.0	10.67	30.56
54 m.p.h.	42.12	30.03	36.24	29.89	34.38	31.25	40.40	56.46	39.47	42.67	41.33	70.83
59 m.p.h.	76.36	73.27	75.17	73.43	87.50	71.88	97.47	89.12	78.95	85.33	80.00	93.06
64 m.p.h.	91.21	96.04	90.94	95.94	93.75	96.88	98.01	97.96	97.37	96	98.67	100
69 m.p.h.	96.36	98.68	96.31	98.52	96.88	100	100.0	99.32	100.0	98.67	100.0	100
74 m.p.h.	98.79	100	98.66	100	100.0	100	100.0	100	100.0	100	100.0	100
79 m.p.h.	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100
84 m.p.h.	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100
89 m.p.h.	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100
No. of vehicles obs.	165	131	149	119	16	12	75	84	37	42	38	42
Average speed	57.72	56.62	57.84	56.66	56.62	56.17	55.51	52.87	56.14	54.71	54.89	51.02
No. of vehicles obs.	165	172	149	152	16	20	76	63	39	33	37	30
Average speed	55.64	56.87	55.66	56.88	55.37	56.80	55.38	54.00	54.79	54.91	56.00	53.0

All Vehicles

Bnd

Bnd

of vehicles
 traveling at or less
 than

TABLE 10 SPEED DATA

Station 2L-54 Highway U.S. 231 Location 1 Mile South of SR 234No. of Lanes 2 Type of Surface Asphalt Weather ClearThis Observation Last Previous Observation (Speed Report No. 99)Date 3/16/77Time 10:14-2:23 PMDate 11/10/76Time 10:10-1:10 PM

	PASSENGER CARS										TRUCKS					
	All			Indiana			Non-Indiana			All			<5000 lbs.		5000 lbs.	
	Last	Pres-ent	Last	Last	Pres-ent	Last	Last	Pres-ent	Last	Last	Pres-ent	Last	Last	Pres-ent	Last	Pres-ent
OBSERVATION																
No. of vehicles obs.	239	226	223	194	32	211	202	83	147	119						
Ave. speed (m.p.h.)	57.35	57.08	57.23	56.69	58.94	59.44	54.71	55.84	55.06	54.10						
Standard deviation	6.254	6.369	6.328	6.207	5.013	6.919	5.744	7.218	6.391	5.507						
24 m.p.h.	0	0	0	0	0	0	0	0	0	0						
29 m.p.h.	0	0	0	0	0	0	0	0	0	0						
34 m.p.h.	0	.44	0	0.52	0	0	.50	0	0	.84						
39 m.p.h.	.42	.44	.45	0.52	0	0	1.90	1.56	2.04	1.68						
44 m.p.h.	2.51	1.77	2.69	2.06	0	0	8.06	6.25	8.84	3.36						
49 m.p.h.	8.79	11.50	8.97	12.37	6.25	6.25	16.11	21.88	13.61	19.33						
54 m.p.h.	29.71	31.42	30.49	34.54	18.75	12.50	39.81	43.75	38.10	50.42						
59 m.p.h.	69.46	69.91	69.96	71.65	62.50	59.38	72.99	68.75	74.83	84.87						
64 m.p.h.	89.54	89.38	89.69	90.72	87.50	81.25	95.26	90.63	97.28	97.48						
69 m.p.h.	96.23	96.46	95.96	97.42	100.0	90.63	98.58	96.88	99.32	100						
74 m.p.h.	99.16	98.67	99.10	98.97	100.0	96.88	100.0	99.50	100.0	100						
79 m.p.h.	99.58	99.56	99.55	99.48	100.0	100	100.0	100	100.0	100						
84 m.p.h.	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100						
89 m.p.h.	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100						
% of vehicles travelling at or less than	137	110	133	94	4	16	99	27	72	66						
	56.83	57.63	56.77	57.11	59.00	60.69	55.10	55.70	54.87	53.15						
	192	116	90	100	12	16	112	37	45	53						
	58.04	56.55	57.92	56.29	58.92	58.19	55.47	55.95	55.91	55.28						
No. of vehicles obs.																
Average speed																
No. of vehicles obs.																
Average speed																

TABLE 11 SPEED DATA

Station 2L-84 Highway U.S. 150 Location 4.8 Miles North of U.S. 40
 No. of Lanes 2 Type of Surface Asphalt Weather Clear

This Observation
 Date 3/21/77 Last Previous Observation (Speed Report No.)
 Time 11:17-3:39 PM Date None Taken Time

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.		283		234		49		183		132		51
Ave. speed (m.p.h.)		55.98		55.54		58.10		54.0		55.71		49.57
Standard deviation		7.164		7.214		6.584		7.398		6.626		7.513
24 m.p.h.		0		0		0		0		0		0
29 m.p.h.		0		0		0		0		0		0
34 m.p.h.		0		0		0		0		0		0
39 m.p.h.		.35		.43		0		3.28		.76		9.80
44 m.p.h.		4.95		5.56		2.04		11.48		6.06		25.49
49 m.p.h.		16.61		18.38		8.16		25.14		15.15		50.98
54 m.p.h.		42.76		46.58		24.49		50.82		41.67		74.51
59 m.p.h.		72.08		74.79		59.18		78.69		75.		88.24
64 m.p.h.		90.11		90.60		87.76		91.80		89.39		98.04
69 m.p.h.		96.47		96.58		95.92		98.36		97.73		100
74 m.p.h.		98.23		98.29		97.96		99.45		99.24		100
79 m.p.h.		98.59		98.72		97.96		100		100		100
84 m.p.h.		100		100		100		100		100		100
89 m.p.h.		100		100		100		100		100		100
No. of vehicles obs.		136		123		13		92		67		25
Average speed		56.76		56.59		58.46		54.84		56.03		51.64
No. of vehicles obs.		147		111		36		91		65		26
Average speed		55.26		54.38		57.97		53.15		55.38		47.58

All Vehicles

End

End

TABLE 12 SPEED DATA

Station 21-17 Highway U.S. 6 Location 1.3 Miles East of DeKalb-Noble Co. Line
 No. of Lanes 2 Type of Surface Asphalt Weather Clear
 This Observation Last Previous Observation (Speed Report No.)
 Date 3/24/77 Date None Taken
 Time 9:42AM - 12:10 PM Time

OBSERVATION	PASSENGER CARS				TRUCKS			
	All		Indiana		Non-Indiana		All	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.		211		176		35		228
Ave. speed (m.p.h.)		57.30		56.97		59.0		55.83
Standard deviation		6.466		6.506		6.063		6.124
24 m.p.h.		0		0		0		0
29 m.p.h.		0		0		0		0
34 m.p.h.		0		0		0		0
39 m.p.h.		0		0		0		0
44 m.p.h.		2.37		2.84		0		3.07
49 m.p.h.		10.43		12.50		0		4.39
54 m.p.h.		30.33		30.68		28.57		10.96
59 m.p.h.		65.88		67.05		60		36.84
64 m.p.h.		88.63		89.77		82.86		74.12
69 m.p.h.		96.68		97.16		94.29		94.74
74 m.p.h.		99.05		99.43		97.14		98.68
79 m.p.h.		99.53		99.43		100		100
84 m.p.h.		100		100		100		100
89 m.p.h.		100		100		100		100
% of vehicles traveling at or less than		99		83		16		112
	No. of vehicles obs.							43
	Average speed			57.40		59.50		58.53
	No. of vehicles obs.			93		19		38
Bnd	Average speed			56.92		58.58		55.34
								54.63
All Vehicles								
Bnd	No. of vehicles obs.							69
	Average speed							55.77
Bnd	No. of vehicles obs.							78
	Average speed							54.63

TABLE 13 SPEED DATA

Station	UI-6	Highway	I-65	Location	East of White River	Weather	Cloudy
No. of Lanes	6	Type of Surface	Concrete	Last Previous Observation (Speed Report No. 99)			
This Observation				Date	11/4/76		
Date				Time	1:40-3:40PM		
Time				10:08-10:40AM-EB & 11:04-11:34AM-WB			

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.	284	271	267	243	17	28	137	166	62	69	75	97
Ave. speed (m.p.h.)	57.80	57.02	57.53	57.00	58.82	57.18	56.07	56.43	56.40	55.67	55.79	56.98
Standard deviation	4.290	4.899	4.303	4.948	4.081	4.522	4.959	4.940	4.785	5.218	5.113	4.684
24 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
29 m.p.h.	0	0	0	0	0	0	0	0	0	0	0	0
34 m.p.h.	0	0	0	0	0	0	0	.60	0	1.45	0	0
39 m.p.h.	0	0	0	0	0	0	0	.60	0	1.45	0	0
44 m.p.h.	0	1.48	0	1.65	0	0	2.19	1.81	0	2.90	4.00	1.03
49 m.p.h.	2.11	6.27	2.25	6.58	0	3.57	9.49	7.83	8.06	8.70	10.67	7.22
54 m.p.h.	21.48	29.52	22.10	29.63	11.76	28.57	33.58	31.33	33.87	34.78	33.33	28.87
59 m.p.h.	65.85	70.85	65.92	70.78	64.71	71.43	78.10	76.51	72.58	85.51	82.67	70.10
64 m.p.h.	94.37	94.10	94.76	94.24	88.24	92.86	97.08	96.99	96.77	98.55	97.33	95.88
69 m.p.h.	99.65	98.15	99.63	97.94	100.0	100	98.54	99.40	96.77	100	100.0	98.97
74 m.p.h.	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100
79 m.p.h.	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100
84 m.p.h.	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100
89 m.p.h.	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100	100.0	100
No. of vehicles obs.	135	135	127	119	8	16	75	83	32	35	43	48
Average speed	57.63	57.83	57.57	57.77	58.62	58.25	55.95	56.22	56.62	56.14	55.44	56.27
No. of vehicles obs.	149	136	140	124	9	12	62	83	30	34	32	49
Average speed	57.59	56.21	57.89	56.26	59.00	55.75	56.21	56.65	56.17	55.18	56.25	57.67

TABLE 14 SPEED DATA

E.B. 0.3 Miles East of 1 Mile Marker
W.B. 0.7 Miles East of Bridge of SR 111

Station UI-8 Highway U.S. 265 Location ConcreteNo. of Lanes 4 Type of Surface Concrete Weather Clear

This Observation

Date 3/15/77Time 9:04-9:57 AM - EB10:31-11:30 AM-WB

Last Previous Observation (Speed Report No.)
Date None Taken
Time

OBSERVATION	PASSENGER CARS				TRUCKS			
	All		Indiana		Non-Indiana		All	
	Last	Pre-ent	Last	Pre-ent	Last	Pre-ent	Last	Pre-ent
No. of vehicles obs.		285	241	44		141		66
Ave. speed (m.p.h.)		57.07	57.08	56.98		55.62		56.15
Standard deviation		5.976	6.022	5.789		5.465		5.393
24 m.p.h.		0	0	0		0		0
29 m.p.h.		0	0	0		0		0
34 m.p.h.		0	0	0		0		0
39 m.p.h.		0	0	0		0		0
44 m.p.h.		0	0	0		0		0
49 m.p.h.		1.05	.83	2.27		2.13		0
54 m.p.h.		6.32	6.22	6.82		14.18		7.58
59 m.p.h.		33.68	33.61	34.09		39.72		37.88
64 m.p.h.		70.53	70.95	68.18		78.72		75.76
69 m.p.h.		91.93	91.70	93.18		95.74		92.42
74 m.p.h.		97.19	97.10	97.73		97.87		96.97
79 m.p.h.		99.30	99.59	97.73		100		100
84 m.p.h.		99.65	99.59	100		100		100
89 m.p.h.		99.65	99.59	100		100		100
		142	119	23		70		32
No. of vehicles obs.		57.71	57.58	58.39		57.56		57.66
Average speed		143	122	21		71		34
No. of vehicles obs.		56.43	56.60	55.43		53.72		54.74
Average speed								
All Vehicles								
End								
End								
End								

TABLE 15 SPEED DATA

Interstate,

Highway

Location See Individual Stations

Type of Surface

Weather

This Observation

Last Previous Observation (Speed Report No.)

Date Jan.-Mar. 1977

Date
Time

Time

OBSERVATION	PASSENGER CARS						TRUCKS					
	All			Indiana			Non-Indiana			All		
	Last	Pres- ent	Last	Pres- ent	Last	Pres- ent	Last	Pres- ent	Last	Pres- ent	Last	Pres- ent
No. of vehicles obs.		876		421		455		671		197		474
Ave. speed (m.p.h.)		60.54		60.09		60.95		58.89		58.02		59.26
Standard deviation		5.342		5.321		5.334		5.303		5.518		5.174
24 m.p.h.		0		0		0		0		0		0
29 m.p.h.		0		0		0		0		0		0
34 m.p.h.		0		0		0		0		0		0
39 m.p.h.		0		0		0		0		0		0
44 m.p.h.		.11		.24		0		.75		2.03		.21
49 m.p.h.		2.28		2.61		1.98		4.02		5.08		3.59
54 m.p.h.		10.50		12.59		8.57		19.67		24.87		17.51
59 m.p.h.		42.47		46.08		39.12		54.69		63.96		50.84
64 m.p.h.		82.42		83.85		81.10		86.59		88.83		85.65
69 m.p.h.		94.06		94.54		93.63		97.32		97.97		97.05
74 m.p.h.		98.40		98.57		98.24		99.55		99.49		99.58
79 m.p.h.		99.77		99.76		99.78		100		100		100
84 m.p.h.		99.89		100		99.78		100		100		100
89 m.p.h.		99.89		100		99.78		100		100		100

All Vehicles

% of vehicles
traveling at or less
than

TABLE 16 SPEED DATA

Station _____ Highway 4-Lane, Rural Location See Individual Stations _____ Weather _____
 No. of Lanes _____ Type of Surface _____
 This Observation _____ Last Previous Observation (Speed Report No. ____)
 Date Jan.-Mar. 1977 Date _____
 Time _____ Time _____

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.		968		819		149		779		324		455
Ave. speed (m.p.h.)		56.97		56.65		58.71		54.80		54.78		54.81
Standard deviation		5.671		5.698		5.203		6.175		6.268		6.114
24 m.p.h.		0		0		0		0		0		0
29 m.p.h.		0		0		0		0		0		0
34 m.p.h.		0		0		0		0		0		0
39 m.p.h.		.41		.49		0		.90		.31		1.32
44 m.p.h.		1.86		2.08		0		1.80		1.23		2.20
49 m.p.h.		8.47		9.16		.67		6.03		5.56		6.37
54 m.p.h.		30.68		33.21		4.70		17.07		19.75		15.16
59 m.p.h.		68.90		71.18		16.78		44.42		46.30		43.08
64 m.p.h.		92.46		93.16		56.38		78.95		78.40		79.34
69 m.p.h.		97.73		97.68		88.59		96.53		95.99		96.92
74 m.p.h.		99.79		99.76		97.99		99.61		99.07		100
79 m.p.h.		100		100		100		100		100		100
84 m.p.h.		100		100		100		100		100		100
89 m.p.h.		100		100		100		100		100		100
All Vehicles												

% of vehicles
traveling at or less
than

TABLE 17 SPEED DATA

Station _____ Highway 2-Lane Rural Location See Individual Stations _____ Weather _____
 No. of Lanes _____ Type of Surface _____
 This Observation _____ Last Previous Observation (Speed Report No. _____)
 Date Jan.-Mar. 1977 _____ Date _____
 Time _____ Time _____

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.		1023		875		148		760		371		389
Ave. speed (m.p.h.)		56.73		56.47		58.27		54.61		55.79		53.49
Standard deviation		6.20		6.166		6.194		6.291		6.088		6.286
% of vehicles traveling at or less than	24 m.p.h.	0		0		0		0		0		0
	29 m.p.h.	0		0		0		0		0		0
	34 m.p.h.	.10		.11		0		.13		0		.26
	39 m.p.h.	.20		.23		0		2.63		1.08		4.11
	44 m.p.h.	2.54		2.74		1.35		5.66		3.50		7.71
	49 m.p.h.	10.85		11.89		4.73		18.03		13.48		22.37
	54 m.p.h.	33.92		35.54		24.32		46.97		39.62		53.98
	59 m.p.h.	70.67		72.11		62.16		80.39		76.82		83.80
	64 m.p.h.	91.40		92.11		87.16		95.13		92.18		97.94
	69 m.p.h.	97.17		97.49		95.27		98.68		97.30		100
	74 m.p.h.	99.02		99.20		97.97		99.74		99.46		100
	79 m.p.h.	99.41		99.43		99.32		100		100		100
	84 m.p.h.	100		100		100		100		100		100
	89 m.p.h.	100		100		100		100		100		100
All Vehicles												

TABLE 18 SPEED DATA

Station Interstate, Location See Individual Stations Weather

No. of Lanes Type of Surface

This Observation Last Previous Observation (Speed Report No.)

Date Jan.-Mar. 1977 Date

Time Time

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.		556		484		72		307		135		172
Ave. speed (m.p.h.)		57.04		57.04		57.06		56.06		55.90		56.19
Standard deviation		5.473		5.503		5.299		5.195		5.290		5.131
24 m.p.h.		0		0		0		0		0		0
29 m.p.h.		0		0		0		0		0		0
34 m.p.h.		0		0		0		.33		.74		0
39 m.p.h.		0		0		0		.33		.74		0
44 m.p.h.		1.26		1.24		1.39		1.95		1.48		2.33
49 m.p.h.		6.29		6.40		5.56		10.75		8.15		12.79
54 m.p.h.		31.65		31.61		31.94		35.18		36.30		34.30
59 m.p.h.		70.68		70.87		69.44		77.52		80.74		75.0
64 m.p.h.		92.99		92.98		93.06		96.42		95.56		97.09
69 m.p.h.		97.66		97.52		98.61		98.70		98.52		98.84
74 m.p.h.		99.64		99.79		98.61		100		100		100
79 m.p.h.		99.82		99.79		100		100		100		100
84 m.p.h.		99.82		99.79		100		100		100		100
89 m.p.h.		99.82		99.79		100		100		100		100
All Vehicles												

TABLE 19 SPEED DATA

Station _____	Indiana Highway System _____	Location See Individual Stations _____	Weather _____
No. of Lanes _____	Type of Surface _____		
This Observation _____		Last Previous Observation (Speed Report No. _____)	
Date Jan.-Mar. 1977 _____		Date _____	
Time _____		Time _____	

OBSERVATION	PASSENGER CARS						TRUCKS					
	All		Indiana		Non-Indiana		All		<5000 lbs.		>5000 lbs.	
	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent	Last	Pres-ent
No. of vehicles obs.		3423		2599		824		2517		1027		1490
Ave. speed (m.p.h.)		57.82		57.22		59.72		55.99		55.91		56.04
Standard deviation		5.939		5.904		5.644		6.145		6.038		6.219
24 m.p.h.		0		0		0		0		0		0
29 m.p.h.		0		0		0		0		0		0
34 m.p.h.		.03		.04		0		.36		.19		.47
39 m.p.h.		.18		.23		0		1.39		.88		.74
44 m.p.h.		1.52		1.85		.49		4.01		3.60		4.30
49 m.p.h.		7.25		8.5		3.28		13.11		13.15		13.09
54 m.p.h.		26.64		30.36		14.93		37.47		38.46		36.78
59 m.p.h.		62.96		67.37		49.03		72.75		75.37		70.94
64 m.p.h.		89.66		91.27		84.59		93.44		93.18		93.62
69 m.p.h.		96.61		97.08		95.15		98.61		98.15		98.93
74 m.p.h.		99.18		99.38		98.54		99.80		99.71		99.87
79 m.p.h.		99.74		99.73		99.76		100		100		100
84 m.p.h.		99.94		99.96		99.88		100		100		100
89 m.p.h.		99.94		99.96		99.88		100		100		100
% of vehicles traveling at or less than												
All Vehicles												

TABLE 20

Monitoring of Speed
(Statistical Summary)☒ Quarterly Report--Calendar Quarter Ending March 31, 1977

or

☐ Annual Report--Year Ending _____STATE Indiana

	Miles	Number of Monitor Locations	Number of Vehicles Measured	Duration of Measurement Session (Hours)	Average Speed (MPH)	Median Speed (MPH)	85th Percentile Speed (MPH)	Percent of Motorists Exceeding		
								55 MPH	60 MPH	65 MPH
Interstate Urban	218	2	863	2.8	56.7	56.0	61.1	60	22	4
Interstate Rural	849	4	1547	4.0	59.8	59.3	64.2	81	44	12
Multi-lane, Divided	657	4	1747	10.7	56.0	55.9	61.1	57	21	4
Multi-lane, Undivided		(included in multi-lane, divided classification)								
2-Lane, Rural	8030	4	1783	12.8	55.8	55.4	61.1	53	20	6
State Total	9754	14	5940	30.3	57.0	56.6	62.1	63	27	7

TABLE 21
SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	Interstate, Rural		
STATION NUMBER	RI-6	LOCATION	I-65, 7.5 miles north of junction of SR 160
NUMBER OF SESSIONS	1	DATES	3/14/77
		VEHICLES MEASURED	477
AVERAGE SPEED (MPH)	60.1	STANDARD DEVIATION (MPH)	5.3
MEDIAN SPEED (MPH)	59.6	85TH PERCENTILE SPEED (MPH)	64.2
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH:	83.0	60 MPH:	47.0
		65 MPH:	12.4

TABLE 22

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Interstate, Rural
 STATION NUMBER R1-21 LOCATION I-69, 3.3 miles south of junction of SR 18
 NUMBER OF SESSIONS 1 DATES 3/17/77 VEHICLES MEASURED 428
 AVERAGE SPEED (MPH) 59.2 STANDARD DEVIATION (MPH) 5.2
 MEDIAN SPEED (MPH) 58.6 85TH PERCENTILE SPEED (MPH) 63.6
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH: 78.0 60 MPH: 38.3 65 MPH: 11.0

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Interstate, Rural
 STATION NUMBER RI-8 LOCATION I-65, 2.8 miles north of SR 46
 NUMBER OF SESSIONS 1 DATES 3/29/77 VEHICLES MEASURED 430
 AVERAGE SPEED (MPH) 59.5 STANDARD DEVIATION (MPH) 5.6
 MEDIAN SPEED (MPH) 58.7 85TH PERCENTILE SPEED (MPH) 64.2
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH: 78.6 60 MPH: 41.4 65 MPH: 12.6

TABLE 24
SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	Interstate, Rural		
STATION NUMBER R1-30	LOCATION 1-65, 1.4 miles north of SR 14		
NUMBER OF SESSIONS	1	DATES 3/25/77	VEHICLES MEASURED 212
AVERAGE SPEED (MPH)	61.1	STANDARD DEVIATION (MPH) 5.2	
MEDIAN SPEED (MPH)	60.5	85TH PERCENTILE SPEED (MPH) 64.6	
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH:	88.7	60 MPH:	55.2
		65 MPH:	11.3

TABLE 25
SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Multi-Lane, Divided (Rural)
 STATION NUMBER 4L-17 LOCATION U.S. 52, 1 mile west of Klondike
 NUMBER OF SESSIONS 1 DATES 3/11/77 VEHICLES MEASURED 458
 AVERAGE SPEED (MPH) 56.2 STANDARD DEVIATION (MPH) 5.8
 MEDIAN SPEED (MPH) 56.1 85TH PERCENTILE SPEED (MPH) 61.3
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH: 57.4 60 MPH: 23.6 65 MPH: 5.0

TABLE 26
SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Multi-Lane, Divided (Rural)

STATION NUMBER 4L-32 LOCATION U.S. 30, 2.0 miles east of junction of SR 49

NUMBER OF SESSIONS 1 DATES 3/23/77 VEHICLES MEASURED 427

AVERAGE SPEED (MPH) 56.4 STANDARD DEVIATION (MPH) 5.5

MEDIAN SPEED (MPH) 56.3 85TH PERCENTILE SPEED (MPH) 61.0

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 61.1 60 MPH: 20.4 65 MPH: 3.8

TABLE 27
SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Multi-Lane, Divided (Rural)

STATION NUMBER 4L-31 LOCATION U.S. 30, 1.6 miles east of SR 39

NUMBER OF SESSIONS 1 DATES 3/23/77 VEHICLES MEASURED 432

AVERAGE SPEED (MPH) 57.8 STANDARD DEVIATION (MPH) 4.7

MEDIAN SPEED (MPH) 57.4 85TH PERCENTILE SPEED (MPH) 61.7

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 71.8 60 MPH: 23.4 65 MPH: 4.2

TABLE 28

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Multi-Lane, Divided (Rural)
 STATION NUMBER 41-7 LOCATION U.S. 40, 2 miles east of Harmony
 NUMBER OF SESSIONS 1 DATES 3/30/77 VEHICLES MEASURED 430
 AVERAGE SPEED (MPH) 53.6 STANDARD DEVIATION (MPH) 7.0
 MEDIAN SPEED (MPH) 53.1 85TH PERCENTILE SPEED (MPH) 60.1
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH: 38.4 60 MPH: 15.4 65 MPH: 4.2

TABLE 29
SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	Two-Lane, Rural		
STATION NUMBER	2L-18	LOCATION	U.S.35, 2 miles east of I-69
NUMBER OF SESSIONS	1	DATES	3/17/77
		VEHICLES MEASURED	450
AVERAGE SPEED (MPH)	55.6	STANDARD DEVIATION (MPH)	5.2
MEDIAN SPEED (MPH)	55.3	85TH PERCENTILE SPEED (MPH)	60.0
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH:	53.1	60 MPH:	15.1
		65 MPH:	3.1

TABLE 30
SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Two Lane, Rural
 STATION NUMBER 2L-54 LOCATION U.S. 231, 1.1 miles south of S.R. 234
 NUMBER OF SESSIONS 1 DATES 3/16/77 VEHICLES MEASURED 428
 AVERAGE SPEED (MPH) 56.0 STANDARD DEVIATION (MPH) 6.2
 MEDIAN SPEED (MPH) 55.3 85TH PERCENTILE SPEED (MPH) 61.2
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH: 52.1 60 MPH: 19.4 65 MPH: 6.1

TABLE 31
SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY Two-Lane, Rural

STATION NUMBER 21-84 LOCATION U.S. 150, 4.85 miles north of U.S. 40

NUMBER OF SESSIONS 1 DATES 3/21/77 VEHICLES MEASURED 466

AVERAGE SPEED (MPH) 55.2 STANDARD DEVIATION (MPH) 7.3

MEDIAN SPEED (MPH) 54.6 85TH PERCENTILE SPEED (MPH) 61.5

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH: 47.8 60 MPH: 21.7 65 MPH: 6.9

TABLE 32

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	Two-Lane, Rural				
STATION NUMBER	2L-17	LOCATION	U.S. 6, 1.3 miles east of Dekalb-Noble Co. Line		
NUMBER OF SESSIONS	1	DATES	3/24/77	VEHICLES MEASURED	439
AVERAGE SPEED (MPH)	56.5	STANDARD DEVIATION (MPH)	6.3		
MEDIAN SPEED (MPH)	56.2	85TH PERCENTILE SPEED (MPH)	62.1		
PERCENTAGE OF VEHICLES EXCEEDING:					
55 MPH:	59.4	60 MPH:	23.2	65 MPH:	6.6

TABLE 33
SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	Interstate, Urban		
STATION NUMBER	UI-6	LOCATION	I-65, east of White River Bridge
NUMBER OF SESSIONS	1	DATES	3/31/77
		VEHICLES MEASURED	437
AVERAGE SPEED (MPH)	56.8	STANDARD DEVIATION (MPH)	4.9
MEDIAN SPEED (MPH)	56.3	85TH PERCENTILE SPEED (MPH)	610
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH:	62.7	60 MPH:	21.0
		65 MPH:	3.2

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