JOINT HIGHWAY RESEARCH PROJECT

JHRP-78-14

TRAFFIC SPEED REPORT
NO. 105

J. R. Mekemson
G. K. Stafford

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TRAFFIC SPEED REPORT NO. 105

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

July 26, 1978

File: 8-3-3

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

Project: C-36-10C

The attached Progress Report No. 105 on Traffic Speeds is the report of the April-June, 1978 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. J. R. Mekemson, 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 that the average speeds of passenger cars and trucks have changed little since the January-March 1978 study. The average speed of passenger cars has fallen 0.6 mph, while the average speed of heavy trucks rose only 0.1 mph when compared to the previous period. The percentage of all vehicles travelling more than 5 mph above the speed limit decreased to 31.1 percent, while 8.3 percent were more than 10 mph above the speed limit, a decrease of 1.7 percent.

Copies of the report will be sent to the Federal Highway Administration and the ISHC for review, comment and acceptance as partial 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,

Harold L. Michael
Associate Director

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Interim Report
TRAFFIC SPEED REPORT NO. 105

by

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Project No.: C-36-10C

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Conducted by

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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 26, 1978

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16. Abstract <p>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 April-June 1978 quarter.</p> <p>Analysis of the speeds showed the overall average speed for all vehicles was 58.1 mph. The overall average speeds for passenger cars and all trucks were 58.4 mph and 57.9 mph respectively. These overall speeds when compared to the results of the January-March 1978 quarter (Speed Report No. 104) indicated little change. Average speeds obtained were similar for the two periods - 0.6 mph less for all passenger cars and 0.1 mph more for heavy trucks for the most recent quarter.</p>			
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	
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TRAFFIC SPEED REPORT NO. 105

This report is an analysis of spot speed observations made during April-June 1978. 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 are divided into two groups. The first group is identified as "control stations" and were at the same locations on selected Federal and State highways as used in previous annual studies. These "control stations" are used in each quarterly study. The second group is selected at random for each quarterly study.

Fourteen speed monitoring stations were used for the study reported herein. Seven of these stations were the control stations noted above. The other seven stations were selected at random.

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-6 (I-65)	7.5 miles north of junction of SR 160
**RI-21 (I-69)	1.6 miles south of junction of SR 18
RI-13 (I-70)	.25 miles east of Vigo-Clay Co. Line
RI-14 (I-69)	3.45 miles north of SR 238

Four-Lane Highway

*4L-17 (US 52)	Just east of Co. Rd. 475W, near Klondike
*4L-32 (US 30)	2.9 miles west of Wanatah city limit sign
4L-14 (US 40)	2.3 miles east of Greenfield
4L-31 (US 30)	2.4 miles east of SR 421

Two-Lane Highway

*2L-18 (US 35)	2.5 miles east of junction of I-69
*2L-54 (US 231)	1.1 miles south of junction of SR 234
2L-30 (US 52)	12 miles east of New Palestine
2L-46 (US 421)	3.35 miles north of the Toll Road

FIGURE A. LOCATIONS OF SPEED-STUDY STATIONS

Urban Interstate Highways

*UI-6 (I-65) East of White River Bridge
UI-4 (I-65) 1.5 miles east of Mann Road

*Control Stations

**Control Stations location slightly moved due to construction.
See Tables for these locations.

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.

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 or as a normally parked vehicle in an access driveway to the road. 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 so 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 Table 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 summarized 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>Urban</u>	<u>Interstate</u> <u>Rural</u>	<u>Other</u> <u>Four Lane</u> <u>Rural</u>	<u>Two Lane</u> <u>Rural</u>
<u>Passenger Cars:</u>				
Indiana	59.2	60.5	57.8	56.6
Non-Indiana	57.9	60.5	58.2	57.5
All Passenger Cars	59.1	60.5	57.6	56.8
85 Percentile (all)	62.7	64.9	62.2	61.6
<u>Trucks:</u>				
Less than 5000 lbs.	58.4	59.3	57.2	55.3
5000 lbs. or more	57.7	60.0	57.9	54.9
<u>All Vehicles:</u>				
Average	58.6	60.2	57.6	56.1
85 Percentile	62.7	64.7	62.4	61.6

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

	<u>Urban</u>	<u>Interstate</u> <u>Rural</u>	<u>Four Lane</u>	<u>Two Lane</u>
<u>Passenger Cars:</u>				
Indiana	81.8	87.3	65.5	57.4
Non-Indiana	70.7	84.7	70.9	65.6
All Passenger Cars	80.2	86.3	66.4	58.9
<u>Trucks:</u>				
Less than 5000 lbs.	75.9	77.7	63.1	48.7
5000 lbs. or more	72.6	84.3	70.8	47.6
<u>All Vehicles:</u>	77.6	84.6	67.0	54.4

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

	<u>Urban</u>	<u>Interstate</u> <u>Rural</u>	<u>Other</u> <u>Four Lane</u> <u>Rural</u>	<u>Two Lane</u> <u>Rural</u>
<u>Passenger Cars:</u>				
Indiana	36.4	46.2	24.9	22.1
Non-Indiana	30.7	44.8	26.7	23.4
All Passenger Cars	35.6	45.7	25.2	22.4
<u>Trucks:</u>				
Less than 5000 lbs.	34.6	38.0	27.8	18.0
5000 lbs. or more	25.5	45.5	32.8	13.4
<u>All Vehicles:</u>	33.0	44.6	27.7	19.7

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>Urban</u>	<u>Interstate</u> <u>Rural</u>	<u>Other</u> <u>Four Lane</u> <u>Rural</u>	<u>Two Lane</u> <u>Rural</u>
<u>Passenger Cars:</u>				
Indiana	8.8	15.2	6.8	6.1
Non-Indiana	4.0	13.6	4.2	7.8
All Passenger Cars	8.1	14.6	6.4	6.4
<u>Trucks:</u>				
Less than 5000 lbs.	5.6	12.8	6.1	5.3
5000 lbs. or more	3.8	12.2	5.9	3.6
<u>All Vehicles:</u>	6.6	13.7	6.2	5.6

Summary and Conclusions

The overall average speeds for all vehicles and for all passenger cars in this study were found to be 58.1 mph and 59.4 mph, respectively. The overall average speeds for heavy trucks and for all trucks were found to be 57.9 mph and 57.6 respectively. These overall speeds show little change from the results of the April-June 1977 quarter. Average speeds also changed only slightly when compared to the previous quarter, 0.3 mph less for all vehicles and 0.6 mph less for all passenger cars. For heavy trucks, the average speed was 0.1 mph more, while the average speed for all trucks did not change.

Table A presents a comparison of the overall speed results with that of the previous two studies. The 85th percentiles and the average speeds have decreased slightly when compared to the previous January-March 1978 study.

A comparison of April-June 1978 speed data with that for other recent periods for several types of highways for passenger cars and trucks is shown in Tables B, C, D, and E. Speeds were similar to the last quarter on all highway types for both passenger cars and trucks with a slight decrease in almost all speed categories.

TABLE A
COMPARISON OF THE OVERALL SPEED RESULTS

	April-June 1978	Jan.-March 1978	Oct.-Dec. 1977	July-Sept. 1977
<u>Average</u>				
All Passenger Cars	58.4	59.0	59.3	57.8
Heavy Trucks	57.9	57.8	58.2	57.4
All Trucks	57.6	57.6	58.1	57.0
<u>85 Percentile</u>				
All Passenger Cars	63.1	63.8	64.0	62.6
Heavy Trucks	62.7	62.9	63.4	62.5
All Trucks	62.7	62.8	63.3	62.3
<u>15 Percentile</u>				
Heavy Trucks	52.1	51.8	52.0	51.1

TABLE B
AVERAGE SPEEDS ON INTERSTATE HIGHWAYS (URBAN)

	April-June 1978	Jan.-March 1978	Oct.-Dec. 1977	July-Sept. 1977
<u>Passenger Cars:</u>				
Indiana	59.2	59.7	59.8	58.7
Non-Indiana	57.9	61.2	59.0	59.0
All Passenger Cars	59.1	59.9	59.7	58.8
85 Percentile (all)	62.9	63.9	63.8	62.7
<u>Trucks:</u>				
Less than 5000 lbs.	58.4	58.3	59.1	57.7
5000 lbs. or more	57.7	58.4	56.6	58.2

TABLE C
AVERAGE SPEEDS ON INTERSTATE HIGHWAYS (RURAL)

	April-June 1978	Jan.-March 1978	Oct.-Dec. 1977	July-Sept. 1977
<u>Passenger Cars:</u>				
Indiana	60.5	61.0	61.2	60.1
Non-Indiana	60.5	61.4	61.8	60.1
All Passenger Cars	60.5	61.1	61.5	60.1
85 Percentile (all)	64.9	65.9	66.1	64.5
<u>Trucks:</u>				
Less than 5000 lbs.	59.3	59.8	60.1	58.4
5000 lbs. or more	60.0	59.8	61.3	59.7

TABLE D
AVERAGE SPEEDS ON OTHER FOUR-LANE HIGHWAYS

	April-June 1978	Jan.-March 1978	Oct.-Dec. 1977	July-Sept. 1977
<u>Passenger Cars:</u>				
Indiana	57.5	58.0	58.4	57.0
Non-Indiana	58.2	60.2	59.6	58.1
All Passenger Cars	57.6	58.2	58.6	57.2
85 Percentile (all)	62.2	62.7	62.9	62.0
<u>Trucks:</u>				
Less than 5000 lbs.	57.2	57.3	57.5	55.7
5000 lbs. or more	57.9	57.6	57.8	56.6

TABLE E
AVERAGE SPEEDS ON TWO-LANE HIGHWAYS

	April-June 1978	Jan.-March 1978	Oct.-Dec. 1977	July-Sept. 1977
<u>Passenger Cars:</u>				
Indiana	56.5	57.2	57.7	55.9
Non-Indiana	57.5	58.9	58.4	55.9
All Passenger Cars	56.8	57.3	57.8	55.9
85 Percentile (all)	61.6	62.3	63.0	60.9
<u>Trucks:</u>				
Less than 5000 lbs.	55.3	55.5	56.7	54.9
5000 lbs. or more	54.9	54.4	54.7	53.5

TABLE 1 SPEED DATA

STATION RI-6 HIGHWAY I-65 LOCATION See Note at Bottom of Table

NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Cloudy

THIS OBSERVATION

DATE 6-6-78

TIME 11:33 AM - 12:22 PM NB

10:27 - 11:03 AM SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)

DATE 3-20-78

TIME 1:30 - 2:20 PM NB

12:20 - 1:12 PM SB

PASSENGER CARS										TRUCKS																			
ALL					INDIANA					NON-INDIANA					ALL					<5000 LBS.					>5000 LBS.				
PRES-					PRES-					PRES-					PRES-					PRES-					PRES-				
OBSERVATION	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT					
NUMBER OF VEHICLES	246	259	134	158	112	101	184	212	57	71	127	141																	
AVE. SPEED (MPH)	60.70	59.73	60.70	59.87	60.90	59.51	60.10	60.46	59.80	59.01	60.20	61.18																	
STANDARD DEVIATION	5.400	4.732	5.210	4.962	5.640	4.363	4.680	4.445	5.460	4.464	4.300	4.269																	
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0																	
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0																	
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0																	
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0																	
44 MPH	0	0	0	0	0	0	0	0	0	0	0	0																	
49 MPH	1.2	1.5	1.5	1.9	.9	1.0	1.1	0	1.8	0	8.7	0																	
54 MPH	9.4	10.0	9.7	9.5	8.9	10.9	10.3	9.0	14.0	14.1	39.4	6.4																	
59 MPH	45.1	53.3	42.5	53.8	48.2	52.5	44.6	39.2	56.1	53.5	86.6	31.9																	
64 MPH	80.1	84.2	79.8	82.9	80.4	86.1	85.3	79.7	82.5	85.9	97.6	76.6																	
69 MPH	94.3	96.5	95.5	95.6	92.9	98.0	97.3	96.7	94.7	98.6	98.4	95.7																	
74 MPH	98.4	99.6	97.8	99.4	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0																	
79 MPH	99.6	100.0	100.0	100.0	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0																	
84 MPH	99.6	100.0	100.0	100.0	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0																	
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0																	
DIRECTION NB																													
NUMBER OF VEHICLES	131	119	71	63	60	56	84	99	25	31	59	68																	
AVERAGE SPEED	59.40	60.51	59.30	60.79	59.50	60.20	58.60	60.75	57.40	59.10	59.10	61.50																	
DIRECTION SB																													
NUMBER OF VEHICLES	115	140	63	95	52	45	100	113	32	40	68	73																	
AVERAGE SPEED	62.30	59.06	62.20	59.25	62.50	58.67	61.30	60.20	61.60	58.95	61.20	60.89																	

Due to construction work, location moved to 1.65 miles south of US 314 - Jonesville-Seymore interchange on I-65.

TABLE 2 SPEED DATA

STATION RI-21 HIGHWAY I-69 LOCATION See Note at bottom of Table

NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Sunny

THIS OBSERVATION

DATE 6-8-78
TIME 2:05 PM NB
3:30 - 4:13 PM SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)

DATE 1-21-78
TIME 3:57 PM NB
2:15 - 3:10 PM SB

	PASSENGER CARS				TRUCKS			
	INDIANA		NON-INDIANA		<5000 LBS		>5000 LBS	
	ALL	PRES-	ALL	PRES-	ALL	PRES-	ALL	PRES-
OBSERVATION	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	263	276	178	135	85	141	174	173
AVE. SPEED (MPH)	60.20	61.48	60.00	61.78	60.60	61.19	59.70	60.24
STANDARD DEVIATION	4.760	5.477	4.560	5.302	5.170	5.643	5.350	5.490
24 MPH	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0
49 MPH	4	7	6	0	0	1.4	2.9	1.7
54 MPH	8.0	4.3	9.0	3.0	5.9	5.7	15.5	13.3
59 MPH	49.8	39.1	51.7	37.0	45.2	41.1	50.6	48.6
64 MPH	85.9	73.9	86.0	74.8	85.9	73.0	83.9	75.2
69 MPH	95.4	90.2	96.6	90.4	92.9	90.1	95.4	96.0
74 MPH	98.5	97.5	99.4	97.0	96.5	97.9	99.4	98.8
79 MPH	99.6	99.3	100.0	99.3	98.8	99.3	100.0	99.4
84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION-NB	128	150	86	67	42	83	91	86
NUMBER OF VEHICLES	60.30	60.61	60.30	60.73	60.10	60.51	60.80	59.73
AVERAGE SPEED	135	126	92	68	43	58	83	87
DIRECTION-SB	60.10	62.52	59.60	62.81	61.00	62.17	58.50	60.74
NUMBER OF VEHICLES	60.10	62.52	59.60	62.81	61.00	62.17	58.50	60.74
AVERAGE SPEED	60.10	62.52	59.60	62.81	61.00	62.17	58.50	60.74

NB - Regular location 1.6 miles south of SR 18
SB - Due to construction, had to move to 3.8 miles north of SR 18

STATION RI-13-----
HIGHWAY I-70-----
LOCATION 25 miles east of Vigo-Clay County Line-----

NO.	OF LANES	4	TYPE OF SURFACE	Concrete	WEATHER	Partly	Cloudy

THIS OBSERVATION	LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)
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3	3
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99	99
100	100

DATE 5-1-78

TIME 12:05 - J:J5 PM - EB -
TIME -----

10:59 - 11:35 AM WB

PASSENGER CARS TRUCKS

[illegible]

PRES- PRES- PRES- PRES-

OBSERVATION-----ENI-----LASI-----ENI-----LASI-----ENI-----LASI-----

	NUMBER OF VEHICLES	0	234	0	138	0	96	0	223	0	155	0	157
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	STANDARD DEVIATION	COEFFICIENT OF VARIATION
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000
7	0.000	0.000
8	0.000	0.000
9	0.000	0.000
10	0.000	0.000
11	0.000	0.000
12	0.000	0.000
13	0.000	0.000
14	0.000	0.000
15	0.000	0.000
16	0.000	0.000
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30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
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TRAVELING	MPH	0	41.3	0	46.9	0	52.5	0	54.3
59	MPH	0 <td>43.6 <td>0 <td>46.9 <td>0 <td>52.5 <td>0 <td>54.3</td> </td></td></td></td></td></td>	43.6 <td>0 <td>46.9 <td>0 <td>52.5 <td>0 <td>54.3</td> </td></td></td></td></td>	0 <td>46.9 <td>0 <td>52.5 <td>0 <td>54.3</td> </td></td></td></td>	46.9 <td>0 <td>52.5 <td>0 <td>54.3</td> </td></td></td>	0 <td>52.5 <td>0 <td>54.3</td> </td></td>	52.5 <td>0 <td>54.3</td> </td>	0 <td>54.3</td>	54.3

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80	0	0	0	0
86	0	0	0	0
92	0	0	0	0

LESS THAN	69 MPH	0	95.7	0	95.7	0	95.8	0	97.3	0	97.9	0	97.9
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Country	Year	Value
United States	1990	100
United States	1991	100
United States	1992	100
United States	1993	100
United States	1994	100
United States	1995	100
United States	1996	100
United States	1997	100
United States	1998	100
United States	1999	100
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United States	2014	100
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United States	2105	100
United States	2106	100
United States	2107	100
United States	2108	100
United		

DIRECTION WR

NUMBER OF VEHICLES	0	105	0	66	0	39	0	31	0	83
NUMBER OF VEHICLES	0	105	0	66	0	39	0	31	0	83

AVERAGE SPEED	0	61.15	0	60.92	0	61.54	0	60.31	0	60.35	0	60.29
AVERAGE SPEED	0	61.15	0	60.92	0	61.54	0	60.31	0	60.35	0	60.29

TABLE 4 SPEED DATA

STATION RI-19 HIGHWAY I-69 LOCATION 3.45 miles north of SR 238

NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Partly Cloudy

THIS OBSERVATION DATE 5-17-78 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)

TIME 11:40 AM - 12:40 PM NB
10:40 - 11:20 AM SB

OBSERVATION	PASSENGER CARS										TRUCKS									
	ALL					INDIANA					NON-INDIANA					ALL				
	LAST	ENT	PRES-	LAST	ENT	LAST	ENT	PRES-	LAST	ENT	LAST	ENT	PRES-	LAST	ENT	LAST	ENT	PRES-	LAST	ENT
NUMBER OF VEHICLES	0	278	0	225	0	53	181	0	0	44	0	0	0	0	137	0	0	0	0	0
AVERAGE SPEED (MPH)	0	60.20	0	60.17	0	60.34	59.53	0	0	60.20	0	0	0	0	59.31	0	0	0	0	0
STANDARD DEVIATION	0	4.649	0	4.372	0	5.724	4.659	0	0	5.060	0	0	0	0	4.521	0	0	0	0	0
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 MPH	0	7	0	0	0	0	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0
54 MPH	0	7.2	0	7.1	0	11.3	12.7	0	0	18.2	0	0	0	0	10.9	0	0	0	0	0
59 MPH	0	47.1	0	47.1	0	47.2	48.6	0	0	43.2	0	0	0	0	50.4	0	0	0	0	0
64 MPH	0	84.5	0	84.9	0	83.0	87.3	0	0	77.3	0	0	0	0	90.5	0	0	0	0	0
69 MPH	0	97.1	0	97.3	0	96.2	97.8	0	0	95.5	0	0	0	0	98.5	0	0	0	0	0
74 MPH	0	99.6	0	100.0	0	98.1	100.0	0	0	100.0	0	0	0	0	100.0	0	0	0	0	0
79 MPH	0	99.6	0	100.0	0	98.1	100.0	0	0	100.0	0	0	0	0	100.0	0	0	0	0	0
84 MPH	0	100.0	0	100.0	0	100.0	100.0	0	0	100.0	0	0	0	0	100.0	0	0	0	0	0
89 MPH	0	100.0	0	100.0	0	100.0	100.0	0	0	100.0	0	0	0	0	100.0	0	0	0	0	0
DIRECTION NB																				
NUMBER OF VEHICLES	0	125	0	104	0	21	101	0	0	19	0	0	0	0	82	0	0	0	0	0
AVERAGE SPEED	0	59.73	0	59.80	0	59.38	59.63	0	0	59.95	0	0	0	0	59.56	0	0	0	0	0
DIRECTION SB																				
NUMBER OF VEHICLES	0	153	0	121	0	32	80	0	0	25	0	0	0	0	55	0	0	0	0	0
AVERAGE SPEED	0	60.59	0	60.49	0	60.97	59.40	0	0	60.40	0	0	0	0	58.95	0	0	0	0	0

TABLE 5 SPEED DATA

STATION 4L-17 HIGHWAY US 52 LOCATION 150 feet east of C.R. 475W, near Klondike

NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Sunny

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)

DATE 5-10-78 DATE 3-2-78
TIME 9:25 - 10:45 AM EB TIME 12:08 - 1:55 PM EB
12:35 - 2:05 PM WB 9:00 - 11:00 AM WB

PASSENGER CARS										TRUCKS									
ALL					INDIANA					NON-INDIANA					ALL				
PRES-					PRES-					PRES-					PRES-				
OBSERVATION	LAST	ENT	LAST	ENT	OBSERVATION	LAST	ENT	LAST	ENT	OBSERVATION	LAST	ENT	LAST	ENT	OBSERVATION	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	278	286	246	272	14	151	148	89	77	NUMBER OF VEHICLES	272	272	14	151	148	89	77	62	71
AVERAGE SPEED (MPH)	56.80	57.36	56.60	57.40	56.50	56.10	55.95	56.30	56.18	AVERAGE SPEED (MPH)	56.60	57.40	56.50	56.10	55.95	56.30	56.18	55.80	55.70
STANDARD DEVIATION	5.900	5.764	6.000	5.859	3.436	7.250	6.207	7.040	6.446	STANDARD DEVIATION	5.900	5.859	3.436	7.250	6.207	7.040	6.446	7.580	5.972
24 MPH	0	0	0	0	0	0	0	0	0	24 MPH	0	0	0	0	0	0	0	0	0
29 MPH	4	0	4	0	0	0	0	0	0	29 MPH	4	0	0	0	0	0	0	0	0
34 MPH	4	0	4	0	0	0	0	0	0	34 MPH	4	0	0	0	0	0	0	0	0
39 MPH	7	0	8	0	0	0	0	0	0	39 MPH	7	0	0	0	0	0	0	0	0
44 MPH	40	17	45	18	0	60	41	34	65	44 MPH	40	17	0	60	41	34	65	97	14
49 MPH	83	73	85	77	0	139	122	101	130	49 MPH	83	73	0	139	122	101	130	194	113
54 MPH	288	273	309	276	214	351	399	405	351	54 MPH	288	273	214	351	399	405	351	274	451
59 MPH	719	685	724	676	857	742	709	787	701	59 MPH	719	685	857	742	709	787	701	677	718
64 MPH	910	906	919	901	1000	527	919	944	922	64 MPH	910	906	1000	527	919	944	922	903	915
69 MPH	982	969	980	967	1000	987	986	978	974	69 MPH	982	969	1000	987	986	978	974	1000	1000
74 MPH	996	990	996	989	1000	993	1000	989	1000	74 MPH	996	990	1000	993	1000	989	1000	1000	1000
79 MPH	1000	1000	1000	1000	1000	993	1000	989	1000	79 MPH	1000	1000	1000	993	1000	989	1000	1000	1000
84 MPH	1000	1000	1000	1000	1000	993	1000	989	1000	84 MPH	1000	1000	1000	993	1000	989	1000	1000	1000
89 MPH	1000	1000	1000	1000	1000	993	1000	989	1000	89 MPH	1000	1000	1000	993	1000	989	1000	1000	1000
DIRECTION EB	146	142	131	136	15	69	73	43	41	DIRECTION EB	146	142	131	136	15	69	73	43	32
NUMBER OF VEHICLES	56.20	58.15	55.90	58.24	58.10	56.17	56.75	54.60	56.83	NUMBER OF VEHICLES	56.20	58.15	55.90	58.24	58.10	56.17	56.75	54.60	56.66
AVERAGE SPEED	132	144	115	136	17	82	75	46	36	AVERAGE SPEED	132	144	115	136	17	82	75	46	39
DIRECTION WB	57.40	56.58	57.30	56.57	57.80	56.75	55.17	57.90	55.44	DIRECTION WB	57.40	56.58	57.30	56.57	57.80	56.75	55.17	57.90	54.92
NUMBER OF VEHICLES	57.40	56.58	57.30	56.57	57.80	56.75	55.17	57.90	55.44	NUMBER OF VEHICLES	57.40	56.58	57.30	56.57	57.80	56.75	55.17	57.90	54.92
AVERAGE SPEED	57.40	56.58	57.30	56.57	57.80	56.75	55.17	57.90	55.44	AVERAGE SPEED	57.40	56.58	57.30	56.57	57.80	56.75	55.17	57.90	54.92

TABLE 6 SPEED DATA

STATION 4L-32 HIGHWAY US 30 LOCATION 2.9 miles west of Wanatah City limit sign
 NO. OF LANES 4 TYPE OF SURFACE Asphalt WEATHER Sunny

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)
 DATE 5-19-78 DATE 3-23-78
 TIME 12:13 PM 1:09 PM EB TIME 12:25 PM 1:30 PM EB
 TIME 11:07 AM 12:04 PM WB TIME 11:15 AM 12:15 PM WB

PASSENGER CARS										TRUCKS									
ALL					INDIANA					NON-INDIANA					ALL				
PRES-					PRES-					PRES-					PRES-				
OBSERVATION	LAST	ENT	LAST	ENT	OBSERVATION	LAST	ENT	LAST	ENT	OBSERVATION	LAST	ENT	LAST	ENT	OBSERVATION	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	180	214	131	149	49	65	248	238	67	201	171								
AVERAGE SPEED (MPH)	57.50	58.61	57.40	58.58	57.50	58.66	58.50	58.62	59.04	58.80	58.45								
STANDARD DEVIATION	4.790	4.738	4.510	4.884	5.540	4.420	4.530	4.806	5.276	4.580	4.615								
24 MPH	0	0	0	0	0	0	0	0	0	0	0								
29 MPH	0	0	0	0	0	0	0	0	0	0	0								
34 MPH	0	0	0	0	0	0	0	0	0	0	0								
39 MPH	0	0	0	0	0	0	0	0	0	0	0								
44 MPH	6	0	8	0	0	0	4	0	0	5	0								
49 MPH	28	14	8	2	0	0	12	4	15	14	0								
54 MPH	278	173	275	161	286	200	169	172	30	25	47								
59 MPH	694	575	718	577	633	569	552	559	194	154	164								
64 MPH	922	902	924	893	918	923	519	899	522	522	573								
69 MPH	978	986	985	980	959	1000	519	992	821	906	930								
74 MPH	1000	995	1000	993	1000	1000	1000	1000	985	1000	994								
79 MPH	1000	995	1000	993	1000	1000	1000	1000	1000	1000	1000								
84 MPH	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000								
89 MPH	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000								
EB																			
DIRECTION																			
NUMBER OF VEHICLES	94	111	68	82	26	29	121	121	38	97	83								
AVERAGE SPEED	57.60	59.37	57.70	59.26	57.50	59.69	55.30	59.54	59.47	59.90	59.57								
DIRECTION WB																			
NUMBER OF VEHICLES	86	103	63	67	23	36	127	117	29	104	88								
AVERAGE SPEED	57.30	57.79	57.20	57.76	57.50	57.83	57.80	57.67	58.48	57.80	57.40								

TABLE 7. SPEED DATA

STATION 4L-14
HIGHWAY US 40
LOCATION 2.3 miles east of Greenfield

NO. OF LANES 4 TYPE OF SURFACE Asphalt WEATHER Sunny

[illegible]

DATE 6-5-78, 6-6-78
TIME 1:05 - 1:40 PM, 2:37 -
11:00 AM - 1:05 PM WB

ALL	PASSENGER CARS	TRUCKS
PRES-	INDIANA	<5000 LBS.
		>5000 LBS.
	NON-INDIANA	PRES-
	PRES-	PRES-

[illegible][illegible]

TABLE 8 SPEED DATA

STATION 4L-31 HIGHWAY US 30 LOCATION 2.45 miles east of SR 421
 NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Hazy

THIS OBSERVATION
 DATE 5-24-78
 TIME 10:35 - 11:50 AM EB
 12:00 - 1:32 PM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)
 DATE
 TIME

PASSENGER CARS										TRUCKS																								
ALL					INDIANA					ALL					<5000 LBS.					>5000 LBS.														
PRES-					PRES-					PRES-					PRES-					PRES-														
LASI					ENI					LASI					ENI					LASI					ENI									
OBSERVATION					LASI					ENI					LASI					ENI					LASI					ENI				
NUMBER OF VEHICLES	0					139					0					238					0					179								
	AVE. SPEED (MPH)					58.21					57.92					59.20					58.61					59.39								
	STANDARD DEVIATION					4.766					4.943					4.823					5.699					4.499								
	24 MPH					0					0					0					0					0								
	29 MPH					0					0					0					0					0								
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN	34 MPH					0					0					0					0					0								
	39 MPH					0					0					0					0					0								
	44 MPH					1.0					1.4					3.4					6.8					2.2								
	49 MPH					4.5					5.8					13.0					18.6					11.2								
	54 MPH					18.1					22.3					53.4					62.7					50.3								
DIRECTION OF VEHICLES	59 MPH					61.3					59.7					87.4					86.4					87.7								
	64 MPH					92.5					93.5					97.9					96.6					98.3								
	69 MPH					99.0					98.6					99.2					100.0					100.0								
	74 MPH					100.0					100.0					100.0					100.0					100.0								
	79 MPH					100.0					100.0					100.0					100.0					100.0								
DIRECTION OF VEHICLES	84 MPH					100.0					100.0					100.0					100.0					100.0								
	89 MPH					100.0					100.0					100.0					100.0					100.0								
	94 MPH					100.0					100.0					100.0					100.0					100.0								
	99 MPH					100.0					100.0					100.0					100.0					100.0								
	104 MPH					100.0					100.0					100.0					100.0					100.0								
DIRECTION OF VEHICLES					94					61					127					23					105									
AVERAGE SPEED					58.88					58.75					59.24					57.23					59.66									
DIRECTION OF VEHICLES					105					78					111					37					74									
AVERAGE SPEED					57.61					57.27					59.15					59.43					59.01									

TABLE 9 SPEED DATA

STATION 21-18 HIGHWAY US 35 LOCATION 2.5 miles east of I-69

NO. OF LANES 2 TYPE OF SURFACE Asphalt WEATHER Cloudy

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)

DATE 6-8-78

DATE 3-21-78

TIME 11:00 AM - 1:03 PM

TIME 10:55 AM - 1:12 PM

	PASSENGER CARS										TRUCKS																			
	ALL					INDIANA					NON-INDIANA					ALL					<5000 LBS.					>5000 LBS.				
	LAST	ENT	PRES-	LAST	ENT	LAST	ENT	PRES-	LAST	ENT	LAST	ENT	PRES-	LAST	ENT	LAST	ENT	PRES-	LAST	ENT	LAST	ENT	LAST	ENT	PRES-	LAST	ENT	PRES-		
OBSERVATION	283	260		257	148	26	112		146	177																				
NUMBER OF VEHICLES	283	260		257	148	26	112		146	177																				
AVE. SPEED (MPH)	57.60	57.17		57.50	55.98	58.10	58.74		55.30	54.90																				
STANDARD DEVIATION	6.080	5.711		6.110	5.371	5.810	5.789		6.360	6.133																				
24 MPH	0	0		0	0	0	0		0	0																				
29 MPH	0	0		0	0	0	0		0	0																				
34 MPH	0	0		0	0	0	0		0	0																				
39 MPH	0	0		0	0	0	0		0	0																				
44 MPH	2.1	1.2		2.3	1.4	3.8	2.7		6.2	2.8																				
49 MPH	7.1	6.9		7.4	10.1	30.8	19.6		15.8	18.6																				
54 MPH	27.9	30.0		27.6	37.8	30.8	19.6		43.2	47.5																				
59 MPH	67.1	69.6		67.7	76.4	61.5	60.7		73.3	81.9																				
64 MPH	88.0	91.2		88.3	95.3	84.6	85.7		93.2	92.7																				
69 MPH	96.5	97.3		96.1	98.0	100.0	96.4		99.3	98.9																				
74 MPH	99.3	99.2		99.2	99.3	100.0	99.1		100.0	98.9																				
79 MPH	100.0	100.0		100.0	100.0	100.0	100.0		100.0	100.0																				
84 MPH	100.0	100.0		100.0	100.0	100.0	100.0		100.0	100.0																				
89 MPH	100.0	100.0		100.0	100.0	100.0	100.0		100.0	100.0																				
DIRECTION	EB																													
NUMBER OF VEHICLES	129	129		120	60	9	69		84	88																				
AVERAGE SPEED	58.40	57.75		58.30	56.47	58.90	58.87		56.20	56.49																				
DIRECTION	WB																													
NUMBER OF VEHICLES	154	131		137	88	17	43		62	89																				
AVERAGE SPEED	56.90	56.60		56.80	55.65	57.70	58.53		54.00	53.33																				

STATION	HIGHWAY	LOCATION	1 mile south of SR 234
2L-54	US 231		

STATION	2L-54	HIGHWAY	US 231	LOCATION	1 mile south of SR 234
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NO. OF LANES	TYPE OF SURFACE	WEATHER
2	Asphalt	Partly Cloudy

THIS OBSERVATION	LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

DATE 5-11-78
TIME 10:00 AM - 12:50 PM

OBSERVATION	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	LAST	ENI	PRES-	LAST	ENI	PRES-	LAST	ENI	PRES-	LAST	ENI	PRES-
NUMBER OF VEHICLES	241	221		216	194		196	209		86	79	
AVERAGE SPEED (MPH)	55.70	57.57		55.60	57.59		55.80	56.03		56.20	56.52	
STANDARD DEVIATION	5.820	5.552		5.810	5.691		6.480	6.057		7.200	7.216	
24 MPH	0	0		0	0		0	0		0	0	
29 MPH	0	0		0	0		0	0		0	0	
34 MPH	0	0		0	0		0	0		0	0	
39 MPH	8	0		9	0		0	1.0		0	1.3	
44 MPH	5.0	.9		5.1	1.0		4.6	3.3		3.5	5.1	
49 MPH	10.8	6.8		11.6	7.7		14.8	13.4		16.3	15.2	
54 MPH	38.6	25.8		38.0	25.8		41.3	36.4		40.7	40.5	
59 MPH	78.8	67.4		79.2	67.5		74.5	75.1		70.9	69.6	
64 MPH	94.6	91.0		95.4	90.7		92.3	93.3		87.2	87.3	
69 MPH	98.8	97.7		98.6	97.4		98.0	98.1		96.5	96.2	
74 MPH	100.0	99.1		100.0	99.0		98.5	99.5		97.7	98.7	
79 MPH	100.0	99.5		100.0	99.5		100.0	100.0		100.0	100.0	
84 MPH	100.0	99.5		100.0	99.5		100.0	100.0		100.0	100.0	
89 MPH	100.0	100.0		100.0	100.0		100.0	100.0		100.0	100.0	
DIRECTION NB												
NUMBER OF VEHICLES	110	108		102	95		102	107		43	39	
AVERAGE SPEED	56.00	58.60		55.90	58.79		55.70	56.56		57.00	57.26	
DIRECTION SB												
NUMBER OF VEHICLES	131	113		114	99		94	102		43	40	
AVERAGE SPEED	55.40	56.58		55.30	56.43		55.80	55.48		55.30	55.80	

TABLE 11 SPEED DATA

STATION 2L-3C-----
HIGHWAY US 52-----
LOCATION 12 miles east of New Palestine

NO. OF LANES	TYPE OF SURFACE	WEATHER
2	Asphalt	Sunny

THIS OBSERVATION	LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
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DATE 5-18-78
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TABLE 12 SPEED DATA

STATION 21-46 HIGHWAY US 421 LOCATION 3.35 miles north of Toll Road

NO.	OF LANES	2	TYPE OF SURFACE	Asphalt	WEATHER	Clear & Sunny

THIS OBSERVATION	LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)
1	1
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DATE 3-25-78
TIME 10:50 AM - 1:52 PM

	PASSENGER CARS				NON-INDIANA				ALL				TRUCKS			
	INDIANA		PRES-		PRES-		PRES-		INDIANA		PRES-		PRES-		PRES-	
OBSERVATION	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI
NUMBER OF VEHICLES	0	299	0	251	0	48	0	151	0	70	0	70	0	81	0	81
AVE. SPEED (MPH)	0	56.26	0	56.58	0	54.58	0	55.52	0	54.67	0	54.67	0	56.26	0	56.26
STANDARD DEVIATION	0	5.017	0	5.035	0	4.621	0	5.774	0	5.707	0	5.707	0	5.766	0	5.766
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	2.0	0	2.0	0	2.1	0	1.3	0	2.9	0	2.9	0	0	0	0
49 MPH	0	7.7	0	6.8	0	12.5	0	12.6	0	17.1	0	17.1	0	8.6	0	8.6
54 MPH	0	34.4	0	32.3	0	45.8	0	41.7	0	47.1	0	47.1	0	37.0	0	37.0
59 MPH	0	76.3	0	74.1	0	87.5	0	76.2	0	80.0	0	80.0	0	72.8	0	72.8
64 MPH	0	94.0	0	93.2	0	97.9	0	92.7	0	94.3	0	94.3	0	91.4	0	91.4
69 MPH	0	99.7	0	99.6	0	100.0	0	98.7	0	98.6	0	98.6	0	98.8	0	98.8
74 MPH	0	100.0	0	100.0	0	100.0	0	99.3	0	100.0	0	100.0	0	98.8	0	98.8
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION																
NUMBER OF VEHICLES	0	149	0	129	0	20	0	80	0	43	0	43	0	37	0	37
AVERAGE SPEED	0	55.90	0	56.07	0	54.80	0	56.02	0	54.72	0	54.72	0	57.54	0	57.54
DIRECTION																
NUMBER OF VEHICLES	0	150	0	122	0	28	0	71	0	27	0	27	0	44	0	44
AVERAGE SPEED	0	56.62	0	57.12	0	54.43	0	54.96	0	54.59	0	54.59	0	55.18	0	55.18

TABLE 13 SPEED DATA

STATION UI-6 HIGHWAY I-65 LOCATION Just east of White River

NO. OF LANES 6 TYPE OF SURFACE Concrete WEATHER Sunny Warm

THIS OBSERVATION

DATE 5-31-78
TIME 2:03 - 2:35 PM EB
2:45 - 3:16 PM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)

DATE 3-27-78
TIME 10:50 - 11:30 AM EB
11:40 AM - 12:10 PM WB

PASSENGER CARS										TRUCKS																			
ALL					INDIANA					NON-INDIANA					ALL					<5000 LBS.					>5000 LBS.				
PRES-					PRES-					PRES-					PRES-					PRES-					PRES-				
LAST					ENT					LAST					ENT					LAST					ENT				
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TABLE 14 -- SPEED DATA

STATION UI-4 HIGHWAY I-465 LOCATION 1.5 miles east of Mann Road

NO. OF LANES 6 TYPE OF SURFACE Concrete WEATHER Sunny

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)

DATE 5-31-78

TIME 12:53 - 1:26 PM NB

10:23 - 11:19 AM SB

OBSERVATION	PASSENGER CARS				TRUCKS			
	INDIANA		NON-INDIANA		ALL		>5000 LBS.	
	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	0	208	0	162	0	239	0	100
AVE. SPEED (MPH)	0	58.96	0	59.04	0	58.09	0	58.30
STANDARD DEVIATION	0	4.743	0	4.884	0	4.711	0	4.916
24 MPH	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0
49 MPH	0	1.0	0	1.2	0	3.8	0	1.0
54 MPH	0	16.3	0	12.8	0	19.2	0	4.0
59 MPH	0	52.1	0	60.6	0	61.9	0	18.0
64 MPH	0	86.5	0	85.5	0	93.3	0	60.0
69 MPH	0	97.6	0	97.0	0	99.2	0	92.0
74 MPH	0	100.0	0	100.0	0	100.0	0	98.0
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION NB								
NUMBER OF VEHICLES	0	94	0	72	0	124	0	55
AVERAGE SPEED	0	59.61	0	59.71	0	57.70	0	58.07
DIRECTION SB								
NUMBER OF VEHICLES	0	114	0	93	0	115	0	42
AVERAGE SPEED	0	58.42	0	58.53	0	58.51	0	58.58

TABLE 15. SPEED DATA

HIGHWAY 4-Lane Rural
STATION RIAL-----
LOCATION See Individual Stations

NO. OF LANES	TYPE OF SURFACE	WEATHER
1	ASPHALT	DRY
2	CONCRETE	WET
3	GRAVEL	DRY
4	GRAVEL	WET
5	GRAVEL	DRY
6	GRAVEL	WET
7	GRAVEL	DRY
8	GRAVEL	WET
9	GRAVEL	DRY
10	GRAVEL	WET
11	GRAVEL	DRY
12	GRAVEL	WET
13	GRAVEL	DRY
14	GRAVEL	WET
15	GRAVEL	DRY
16	GRAVEL	WET
17	GRAVEL	DRY
18	GRAVEL	WET
19	GRAVEL	DRY
20	GRAVEL	WET
21	GRAVEL	DRY
22	GRAVEL	WET
23	GRAVEL	DRY
24	GRAVEL	WET
25	GRAVEL	DRY
26	GRAVEL	WET
27	GRAVEL	DRY
28	GRAVEL	WET
29	GRAVEL	DRY
30	GRAVEL	WET
31	GRAVEL	DRY
32	GRAVEL	WET
33	GRAVEL	DRY
34	GRAVEL	WET
35	GRAVEL	DRY
36	GRAVEL	WET
37	GRAVEL	DRY
38	GRAVEL	WET
39	GRAVEL	DRY
40	GRAVEL	WET
41	GRAVEL	DRY
42	GRAVEL	WET
43	GRAVEL	DRY
44	GRAVEL	WET
45	GRAVEL	DRY
46	GRAVEL	WET
47	GRAVEL	DRY
48	GRAVEL	WET
49	GRAVEL	DRY
50	GRAVEL	WET
51	GRAVEL	DRY
52	GRAVEL	WET
53	GRAVEL	DRY
54	GRAVEL	WET
55	GRAVEL	DRY
56	GRAVEL	WET
57	GRAVEL	DRY
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91	GRAVEL	DRY
92	GRAVEL	WET
93	GRAVEL	DRY
94	GRAVEL	WET
95	GRAVEL	DRY
96	GRAVEL	WET
97	GRAVEL	DRY
98	GRAVEL	WET
99	GRAVEL	DRY
100	GRAVEL	WET

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THIS OBSERVATION
DATE April-June
TIME

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)
DATE Jan.-March 1978
TIME

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[illegible]

TABLE 16 SPEED DATA

STATION 41ALL HIGHWAY 4-Lane Rural LOCATION See Individual Stations

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)

DATE April-June

DATE Jan.-March 1978

TIME

TIME

PASSENGER CARS										TRUCKS									
INDIANA										<5000 LBS.									
ALL										ALL									
PRES-										PRES-									
OBSERVATION	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	OBSERVATION	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST
NUMBER OF VEHICLES	0	1000	0	835	0	165	0	782	0	NUMBER OF VEHICLES	0	309	0	309	0	473	0	473	0
AVE. SPEED (MPH)	0	57.63	0	57.53	0	58.18	0	57.63	0	AVE. SPEED (MPH)	0	57.18	0	57.18	0	57.92	0	57.92	0
STANDARD DEVIATION	0	5.349	0	5.481	0	4.602	0	5.712	0	STANDARD DEVIATION	0	5.978	0	5.978	0	5.518	0	5.518	0
24 MPH	0	0	0	0	0	0	0	0	0	24 MPH	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	29 MPH	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	1	0	34 MPH	0	3	0	3	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	6	0	39 MPH	0	6	0	6	0	6	0	6	0
44 MPH	0	9	0	1.1	0	0	0	2.3	0	44 MPH	0	2.3	0	2.3	0	1.7	0	1.7	0
49 MPH	0	5.5	0	6.2	0	1.8	0	7.8	0	49 MPH	0	9.1	0	9.1	0	7.0	0	7.0	0
54 MPH	0	24.8	0	25.9	0	19.4	0	25.1	0	54 MPH	0	28.2	0	28.2	0	23.0	0	23.0	0
59 MPH	0	66.5	0	66.7	0	65.5	0	61.4	0	59 MPH	0	65.0	0	65.0	0	59.0	0	59.0	0
64 MPH	0	91.0	0	90.9	0	91.5	0	90.5	0	64 MPH	0	90.6	0	90.6	0	90.5	0	90.5	0
69 MPH	0	97.8	0	97.5	0	99.4	0	98.7	0	69 MPH	0	98.4	0	98.4	0	98.9	0	98.9	0
74 MPH	0	99.3	0	99.2	0	100.0	0	99.7	0	74 MPH	0	99.4	0	99.4	0	100.0	0	100.0	0
79 MPH	0	99.9	0	99.9	0	100.0	0	100.0	0	79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0

PERCENT

OF

VEHICLES

TRAVELING

AT OR

LESS THAN

STATION	2-LANE	RURAL	LOCATION	See Individual Stations
TABLE_17_--_SPEED DATA				

WEATHER

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 104)
DATE Jan.-March 1978
TIME

[illegible]

[illegible]

Table 20
Monitoring of Speed
(Statistical Summary)

☒ Quarterly Report--Calendar Quarter Ending June 30, 1978
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	894	2.5	58.6	58.0	62.7	78	33	7
Interstate Rural	849	4	1836	6.5	60.2	59.4	64.7	85	45	14
Multi-lane, Divided	657	4	1782	11.4	57.6	57.2	62.4	67	28	6
Multi-lane, Undivided		(Included in multi-lane, divided classification)								
2-Lane, Rural	8030	4	1760	10.3	56.1	55.5	61.2	54	20	6
State Total	9754	14	6272	30.7	58.1	57.6	62.9	70	31	8

TABLE 21

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	INTERSTATE	RURAL
STATION NUMBER	RI-6	LOCATION See Note at Bottom of Table
NUMBER OF SESSIONS	1	DATES 6-6-78 VEHICLES MEASURED 471
AVERAGE SPEED (MPH)	60.1	STANDARD DEVIATION 4.6
MEDIAN SPEED (MPH)	59.3	85TH PERCENTILE SPEED (MPH) 64.5
PERCENTAGE OF VEHICLES EXCEEDING:		
55 MPH	85	60 MPH 42 65 MPH 13

Note: Due to construction work, moved location to 1.65 mi. south of U.S. 31A - Jonesville-Seymour Interchange on I-65.

TABLE 22--

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY INTERSTATE, RURAL
 STATION NUMBER RI-21 LOCATION See Note at Bottom of Table
 NUMBER OF SESSIONS 1 DATES 6-8-78 VEHICLES MEASURED 449
 AVERAGE SPEED (MPH) 61.0 STANDARD DEVIATION 5.5
 MEDIAN SPEED (MPH) 59.9 85TH PERCENTILE SPEED (MPH) 65.9
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 86 60 MPH 49 65 MPH 18

Note: NB - regular location 1.6 mi. south of S.R. 18 interchange on I-69.
 SB - due to construction, moved location to 3.8 mi. north of S.R. 18 interchange on I-69.

TABLE 23

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY INTERSTATE, RURAL

STATION NUMBER RI-13 LOCATION I-70, .25 mi. east of Vigo-Clay Co. Line

NUMBER OF SESSIONS 1 DATES 5-16-78 VEHICLES MEASURED 457

AVERAGE SPEED (MPH) 59.9 STANDARD DEVIATION 5.3

MEDIAN SPEED (MPH) 59.2 85TH PERCENTILE SPEED (MPH) 64.5

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH	<u>83</u>	60 MPH	<u>44</u>	65 MPH	<u>14</u>
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TABLE 24--

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	INTERSTATE, RURAL
STATION NUMBER	RI-19 LOCATION I-69, 3.45 mi. north of S.R. 238
NUMBER OF SESSIONS	1 DATES 5-17-78 VEHICLES MEASURED 459
AVERAGE SPEED (MPH)	52.9 STANDARD DEVIATION 4.7
MEDIAN SPEED (MPH)	52.3 85TH PERCENTILE SPEED (MPH) 63.9
PERCENTAGE OF VEHICLES EXCEEDING:	
55 MPH	84.0 60 MPH 43.0 65 MPH 11.0

TABLE 25--

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)
STATION NUMBER 4L-17 LOCATION U.S. 52, 150' east of Co. Rd. 475W, near Klondike
NUMBER OF SESSIONS 1 DATES 5-10-78 VEHICLES MEASURED 434
AVERAGE SPEED (MPH) 56.9 STANDARD DEVIATION 5.9
MEDIAN SPEED (MPH) 56.2 85TH PERCENTILE SPEED (MPH) 62.0
PERCENTAGE OF VEHICLES EXCEEDING:
55 MPH 62 60 MPH 24 65 MPH 7

TABLE 26

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)

STATION NUMBER 41-32 LOCATION U.S. 30, 2.9 mi. west of Wanatah City Limit Sign

NUMBER OF SESSIONS 1 DATES 5-19-78 VEHICLES MEASURED 452

AVERAGE SPEED (MPH) 58.6 STANDARD DEVIATION 4.8

MEDIAN SPEED (MPH) 58.2 85TH PERCENTILE SPEED (MPH) 62.8

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH	<u>75</u>	60 MPH	<u>34</u>	65 MPH	<u>6</u>
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TABLE 27--

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)
 STATION NUMBER 44-14 LOCATION U.S. 40, 2.3 mi. east of Greenfield
 NUMBER OF SESSIONS 1 DATES 6-5-78/6-6-78 VEHICLES MEASURED 459
 AVERAGE SPEED (MPH) 56.3 STANDARD DEVIATION 6.0
 MEDIAN SPEED (MPH) 55.6 85TH PERCENTILE SPEED (MPH) 61.7
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 54 60 MPH 20 65 MPH 5

TABLE 28

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY --- MULTI-LANE, DIVIDED (RURAL) ---
STATION NUMBER 41-31 LOCATION U.S. 30, 2.45 mi. east of S.R. 421 ---
NUMBER OF SESSIONS 1 DATES 5-24-78 --- VEHICLES MEASURED 437 ---
AVERAGE SPEED (MPH) 58.7 --- STANDARD DEVIATION 4.8 ---
MEDIAN SPEED (MPH) 58.4 --- 85TH PERCENTILE SPEED (MPH) 62.8 ---
PERCENTAGE OF VEHICLES EXCEEDING:
55 MPH --- 78 --- 60 MPH --- 33 --- 65 MPH --- 7 ---

TABLE 29

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY ---TWO-LANE, RURAL---
STATION NUMBER 21-18 LOCATION U.S. 35, 2.5 mi. east of I-69---
NUMBER OF SESSIONS 1 DATES 5-11-78 VEHICLES MEASURED 437
AVERAGE SPEED (MPH) 56.2 STANDARD DEVIATION 6.0
MEDIAN SPEED (MPH) 55.5 85TH PERCENTILE SPEED (MPH) 61.4
PERCENTAGE OF VEHICLES EXCEEDING:
55 MPH ---55, 60 MPH ---19, 65 MPH ---7---

TABLE 30

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	TWO-LANE	RURAL
STATION NUMBER	24-54	LOCATION U.S. 231, 1.1 mi. south of S.R. 234
NUMBER OF SESSIONS	1	DATES 5-11-78 VEHICLES MEASURED 430
AVERAGE SPEED (MPH)	56.8	STANDARD DEVIATION 5.8
MEDIAN SPEED (MPH)	56.3	85TH PERCENTILE SPEED (MPH) 61.4
PERCENTAGE OF VEHICLES EXCEEDING:		
55 MPH	62	60 MPH 23 65 MPH 6

TABLE 31-

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY TWO-LANE, RURAL
 STATION NUMBER 2L-30 LOCATION U.S. 52, 1.2 mi. east of New Palestine
 NUMBER OF SESSIONS 1 DATES 5-18-78 VEHICLES MEASURED 443
 AVERAGE SPEED (MPH) 55.3 STANDARD DEVIATION 6.5
 MEDIAN SPEED (MPH) 54.8 85TH PERCENTILE SPEED (MPH) 61.1
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 48.2 60 MPH 19.2 65 MPH 5.2

TABLE 32 -

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY TWO-LANE, RURAL
STATION NUMBER 21-46 LOCATION U.S. 421, 3.35 mi. north of Toll Road
NUMBER OF SESSIONS 1 DATES 5-25-78 VEHICLES MEASURED 450
AVERAGE SPEED (MPH) 56.0 STANDARD DEVIATION 5.3
MEDIAN SPEED (MPH) 55.3 85TH PERCENTILE SPEED (MPH) 60.8
PERCENTAGE OF VEHICLES EXCEEDING:
55 MPH 53 60 MPH 19 65 MPH 5

TABLE 33

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY INTERSTATE, URBAN

STATION NUMBER UI-6 LOCATION I-65, just east of White River

NUMBER OF SESSIONS 1 DATES 5-31-78 VEHICLES MEASURED 447

AVERAGE SPEED (MPH) 58.8 STANDARD DEVIATION 4.7

MEDIAN SPEED (MPH) 58.2 85TH PERCENTILE SPEED (MPH) 62.6

PERCENTAGE OF VEHICLES EXCEEDING:

55 MPH	<u>80</u>	60 MPH	<u>34</u>	65 MPH	<u>6</u>
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TABLE 34

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY INTERSTATE, URBAN
STATION NUMBER UI-4 LOCATION I-465, 1.5 mi. east of MunnRoad
NUMBER OF SESSIONS 1 DATES 5-31-78 VEHICLES MEASURED 447
AVERAGE SPEED (MPH) 58.5 STANDARD DEVIATION 4.7
MEDIAN SPEED (MPH) 57.8 85TH PERCENTILE SPEED (MPH) 62.7
PERCENTAGE OF VEHICLES EXCEEDING:
55 MPH 75 60 MPH 32 65 MPH 7

COVER DESIGN BY ALDO GIORGINI