JOINT HIGHWAY RESEARCH PROJECT

FHWA/ISHC/JHRP-80/8

TRAFFIC SPEED REPORT NO. 112

R. P. Guenther

G. K. Stafford

TRAFFIC SPEED REPORT NO. 112

TO: H.L. Michael, Director
Joint Highway Research Project

July 2, 1980

File: 8-3-3

FROM: R. P. Guenther
Graduate Research Assistant
Joint Highway Research Project

Project: C-36-10C

The attached Progress Report No. 112 on Traffic Speeds is the report of the January-March, 1980 quarterly study of 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. R. P. Guenther, a Graduate Instructor in Research on our staff, with assistance from Ms. P. J. Tirshman, a drafting assistant on our staff. The data collection was performed under the supervision of Mr. G. K. Stafford. Professor H. L. Michael directed all phases of the study.

Results of this study show an overall average speed of 57.1 mph. This value is only 0.1 mph lower than the value recorded during the previous quarter. Likewise the average speed for each vehicle type and highway classification have changed only slightly or not at all since the previous quarter.

The statewide average of vehicles traveling above the 55 mph speed limit for this quarter was 61.0 percent. This is slightly higher than the value of 59.0 percent recorded during the previous quarter. Less than 60 percent of the vehicles can be exceeding the 55 mph speed limit during this year ending September 30, 1980, according to current Federal directives without a penalty possibility existing.

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,

Richard P. Guenther
Graduate Research Assistant

RPG/mag

cc: A. G. Altschaeffl	D. E. Hancher	M. B. Scott
W. L. Dolch	K. R. Hoover	K. C. Sinha
R. L. Eskew	J. F. McLaughlin	C. A. Venable
G. D. Gibson	R. D. Miles	L. E. Wood
W. H. Goetz	P. L. Owens	E. J. Yoder
M. J. Gutzwiller	G. T. Satterly	S. R. Yoder
G. K. Hallock	C. F. Scholer	

Interim Report
TRAFFIC SPEED REPORT NO. 112

by

R. P. Guenther
Graduate Instructor in Research

and

G. K. Stafford
Traffic Engineering Technician

Joint Highway Research Project

Project No.: C-36-10C

File No.: 8-3-3

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 2, 1980

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1. Report No. FHWA/IN/JHRP - 80/8	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle TRAFFIC SPEED REPORT NO. 112		5. Report Date July 2, 1980	
		6. Performing Organization Code	
7. Author(s) R. P. Guenther and G. K. Stafford		8. Performing Organization Report No. JHRP - 80 - 8	
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(15) Part I	
12. Sponsoring Agency Name and Address Indiana State Highway Commission State Office Building 110 North Senate Avenue Indianapolis, Indiana 46204		13. Type of Report and Period Covered Interim Report January - March 1980	
		14. Sponsoring Agency Code	
15. Supplementary Notes Conducted in cooperation with the U. S. Department of Transportation, Federal Highway Administration under a planning study titled "Speed 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 1980 quarter. This report utilizes the analysis provided by the interim speed monitoring procedures which are required as a result of the Surface Transportation Act of 1978. Results indicate a statewide average of 61.0 percent of the vehicles traveling above the 55 mph speed limit. This represents a slight increase over the 59.0 percent recorded during the last quarter. The overall free flow average speed of 57.1 mph represents very little change in speeds from the previous 1979 quarter (Speed Report No. 111). In addition, the average free flow speeds for each vehicle type and highway classification have changed only slightly or not at all from those values recorded during the previous quarter.			
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, Virginia 22161	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 65	22. Price

TRAFFIC SPEED REPORT NO. 112

Included here is an analysis of spot speed observations made during January-March 1980. All observations were made of vehicles on level, tangent sections of rural and urban highways under favorable conditions. All observations were made during daylight. Observations of free flowing vehicles were made at all speed monitoring locations as has been done in the past. Additional data based on every nth vehicle were collected at specified locations to enable computation of those factors required by the interim speed monitoring procedures. This data collection procedure will be referred to as the "all vehicles" technique.

The speed monitoring stations for each highway classification are divided into two groups. The first group of seven (7) is identified as "primary control stations" and includes the same locations on selected Federal and State highways as used in each quarterly study. These stations are divided into four categories, including two rural interstate locations, two rural four-lane locations, two rural two-lane locations, and one urban interstate location.

The other group of seven stations were selected at random for this quarterly study. Two rural interstate sections were randomly selected from the 37 sections across the state. Likewise two rural four-lane sections and one urban interstate section were randomly selected from 33 and 8 sections respectively across the state. Two rural two-lane locations were selected from two randomly selected counties across the state. The exact location of each speed station was selected at a location which was level, tangent, away from any construction, and free from intersections or interchanges. No random station is repeated during the year ending September 30, 1980.

A total of fourteen (14) speed monitoring stations were used for the study reported herein. The site locations follow and are shown in Figure 1.

FIGURE 1. LOCATIONS OF SPEED-STUDY STATIONS

RURAL INTERSTATE HIGHWAYS

* RI - 6	(I-65)	7.5 miles north of SR 160
+ * RI - 21	(I-69)	1.6 miles south of SR 18
RI - 30	(I-65)	2.15 miles north of SR 14
+ RI - 36	(I-74)	3.01 miles east of U.S. 231 1/2 hr. intervals

FOUR-LANE HIGHWAY

+ * 4L - 17	(US 52)	Just east of Co. RD 475 W. near Klondike
* 4L - 32	(US 30)	2.9 miles west of Wanatah city limit sign
+ 4L - 5	(SR 63)	0.6 miles south of SR 163
4L - 30	(US 30)	2.1 miles east of US 31

TWO-LANE HIGHWAY

* 2L - 18	(US 35)	2.5 miles east of I-69
+ * 2L - 54	(US 231)	1.1 miles south of SR 234
+ 2L - 37	(US 231)	0.6 miles north of SR 16
2L - 51	(US 231)	5.55 miles north of SR 56

URBAN INTERSTATE HIGHWAY

+ * UI - 6	(I-65)	Just east of White River Bridge
+ UI - 7	(I-70)	0.7 miles east of west leg of I-465

* PRIMARY CONTROL STATIONS.

+ STATIONS AT WHICH DATA WAS COLLECTED FOR "ALL VEHICLE" TECHNIQUE AS WELL AS USING THE FREE FLOW METHOD.

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 speed limit at all stations is 55 miles per hour.

Sample Size

A minimum of 200 vehicles in each direction were recorded using the free flow technique at each station. At least 25 of these vehicles were required to be heavy trucks.

At the selected stations, an additional 200 vehicles in each direction were sampled using the "all vehicles" technique. These stations included one randomly selected control station and one randomly selected random station in each of the four highway categories. For this technique, only speed data was recorded of each nth vehicle in the traffic stream. The traffic stream is all vehicles in one direction of movement if volume permits or by lane if high volumes require. If by lane, each lane was sampled for 15 minute periods and repeated until the sample required was obtained.

The value of n was 2 in all cases. If the nth vehicle speed could not be obtained, it was not recorded and the next nth vehicle was taken.

At stations where both sampling techniques were used, the two techniques were used interchangeably in 30 minute intervals until complete.

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 15 minutes. This problem is only important on interstate roads.

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 speed were necessary at these small angles. The accuracy of the meter was checked at the beginning of each data recording session, every time the sampling technique was changed, and at other times when deemed necessary.

Results of Analysis

The data collected were analyzed and are summarized in the Appendix. Tables A1 through A14 include the data for the free flow data on each individual station. Tables A15 through A18 summarize the free flow data by highway classification. Table A19 is the summary for all highways. Tables A20 through A32 summarize the data taken using the "all vehicles" technique. Tables A33 through A54 present the same information in the FHWA format.

The results of the free flow data expressed by highway classification and vehicle type are as follows:

Table 1: Average Speeds (mph)

	<u>Interstate</u>		<u>Other</u> <u>Four Lane</u>	<u>Two Lane</u>	
	<u>Urban</u>	<u>Rural</u>	<u>Rural</u>	<u>Rural</u>	<u>All</u>
<u>Passenger Cars:</u>					
Indiana	58.3	58.6	56.3	55.8	56.9
Non-Indiana	58.5	59.0	57.2	57.7	58.5
All Passenger Cars	58.4	58.8	56.5	55.9	57.3
85 Percentile (all)	62.0	62.6	60.3	60.6	61.5
<u>Trucks:</u>					
Less than 5000 lbs.	57.6	57.6	55.1	54.8	56.0
5000 lbs. or more	57.2	59.2	56.5	55.6	57.1
<u>All Vehicles:</u>					
Average	58.0	58.8	56.3	55.7	57.1
85 Percentile	61.7	62.6	60.3	60.4	61.4

Table 2: Percent of Vehicles Exceeding 55 mph.

	<u>Interstate</u>		<u>Four Lane</u>	<u>Two Lane</u>	<u>All</u>
	<u>Urban</u>	<u>Rural</u>			
<u>Passenger Cars:</u>					
Indiana	74.8	77.5	58.4	52.6	62.4
Non-Indiana	80.2	82.7	69.0	66.1	78.3
All Passenger Cars	75.8	80.4	60.7	53.5	66.7
<u>Trucks:</u>					
Less than 5000 lbs.	70.1	70.9	49.0	45.8	56.2
5000 lbs. or more	66.7	81.9	61.1	54.6	66.1
All Vehicles:	72.8	79.7	59.4	52.4	65.0

Table 3: Percent of Vehicles Exceeding 60 mph.

	<u>Interstate</u>		<u>Other</u> <u>Four Lane</u>	<u>Two Lane</u>	
	<u>Urban</u>	<u>Rural</u>	<u>Rural</u>	<u>Rural</u>	<u>All</u>
<u>Passenger Cars:</u>					
Indiana	29.7	30.7	16.5	17.1	21.4
Non-Indiana	31.2	32.2	16.7	29.0	28.4
All Passenger Cars	30.0	31.6	16.6	17.9	23.3
<u>Trucks:</u>					
Less than 5000 lbs.	25.2	24.6	11.0	11.1	16.4
5000 lbs. or more	21.9	37.5	19.2	18.9	24.7
All Vehicles:	27.3	32.3	16.6	16.9	22.7

Table 4: Percent of Vehicles Exceeding 65 mph.

	<u>Interstate</u>		<u>Other</u> <u>Four Lane</u>	<u>Two Lane</u>	<u>All</u>
	<u>Urban</u>	<u>Rural</u>	<u>Rural</u>	<u>Rural</u>	
<u>Passenger Cars:</u>					
Indiana	6.5	6.2	2.8	3.8	4.4
Non-Indiana	4.2	5.8	1.9	4.8	4.7
All Passenger Cars	6.1	6.0	2.6	3.9	4.5
<u>Trucks:</u>					
Less than 5000 lbs.	2.4	3.5	2.9	2.3	2.7
5000 lbs. or more	3.5	6.3	1.6	2.5	3.5
All Vehicles:	4.9	5.8	2.3	3.3	4.0

The following shows a comparrison of the average free flow speed results with those of the previous three quarters:

Table 5: Comparison of the Overall Speed Results

	<u>Jan-March</u>	<u>Oct-Dec</u>	<u>July-Sept</u>	<u>April-June</u>
	1980	1979	1979	1979
<u>Average</u>				
All Passenger Cars	57.3	57.5	56.9	57.4
Heavy Trucks	57.1	56.8	56.9	57.1
All Trucks	56.7	56.7	56.4	56.9
<u>85 Percnetile</u>				
All Passenger Cars	61.5	62.0	61.3	61.6
Heavy Trucks	61.5	61.5	61.7	62.2
All Trucks	61.2	61.5	61.2	61.9
<u>15 Percentile</u>				
Heavy Trucks	51.8	51.0	51.2	51.4

Table 6: Average Speeds on Interstate Highways (URBAN)

	Jan-March	Oct-Dec	July-Sept	April-June
	1980	1979	1979	1979
<u>Passenger Cars:</u>				
Indiana	58.3	58.2	56.7	57.2
Non-Indiana	58.5	59.0	56.9	59.0
All Passenger Cars	58.4	58.3	56.8	57.5
85 Percentile (all)	62.0	61.9	60.5	61.5
<u>Trucks:</u>				
Less than 5000 lbs.	57.6	57.4	56.5	57.5
5000 lbs. or more	57.2	56.1	56.4	57.0

Table 7: Average Speeds On Interstate Highways (RURAL)

	Jan-March	Oct-Dec	July-Sept	April-June
	1980	1979	1979	1979
<u>Passenger Cars:</u>				
Indiana	58.6	59.1	58.5	59.6
Non-Indiana	59.0	59.4	59.0	59.2
All Passenger Cars	58.8	59.2	58.8	59.4
85 Percentile (all)	62.6	63.5	62.7	63.3
<u>Trucks:</u>				
Less than 5000 lbs.	57.6	57.8	58.0	58.1
5000 lbs. or more	59.2	58.7	59.1	59.5

Table 8: Average Speed on Other Four-Lane Highways

	Jan-March	Oct-Dec	July-Sept	April-June
	1980	1979	1979	1979
<u>Passenger Cars:</u>				
Indiana	56.3	56.7	56.1	56.3
Non-Indiana	57.2	57.6	55.9	56.7
All Passenger Cars	56.5	56.8	56.1	56.3
85 Percentile (all)	60.3	61.2	60.7	60.4
<u>Trucks:</u>				
Less than 5000 lbs.	55.1	55.8	55.2	55.6
5000 lbs. or more	56.5	56.1	56.3	56.1

Table 9: Average Speeds on Two-Lane Highways

	Jan-March	Oct-Dec	July-Sept	April-June
	1980	1979	1979	1979
<u>Passenger Cars:</u>				
Indiana	55.8	56.4	55.8	56.4
Non-Indiana	57.7	56.9	56.0	56.4
All Passenger Cars	55.9	56.5	55.8	56.4
85 Percentile (all)	60.6	61.0	60.2	61.0
<u>Trucks:</u>				
Less than 5000 lbs.	54.8	56.2	54.4	55.7
5000 lbs. or more	55.6	54.4	55.3	55.2

Analysis of Data from "All Traffic" Collection Technique

Conversion factors for allowing free-flow data to represent all traffic were done as prescribed in the FHWA document "Interim Speed Monitoring Procedures." These conversion factors were found by dividing a given statistic for all vehicles by the same statistic for free-flow. This was done by highway classification for, percent vehicles exceeding 55 mph, average speed, median speed, 85th percentile speed, percent exceeding 60 mph, and percent exceeding 65 mph. These factors are shown in Table 10.

The computation for the weighted statewide compliance level (Percent vehicles exceeding 55 mph) is shown at the bottom of Table 10. Computation of statewide averages for the other statistics was done using the same technique and weighting factors. These averages are also included in Table 10.

Figure 2 shows the trend during the past four years of the statewide weighted average speed and percent vehicles exceeding 55 mph. These graphs show that while the recorded speeds have increased during the last two quarters, this increase is not significant. It may also be noted that other than the two previous quarters, the speeds recorded during this quarter are the lowest since the January - March 1977 quarter.

Conclusions

The overall results indicate that the vehicle speeds on Indiana highways were almost exactly the same during this quarter as they were during the October - December 1979 quarter. The average free flow speed has only decreased by 0.1 mph. Likewise, the changes in average speed for each vehicle type and each highway classification have all been less than 1.0 mph.

The results from the "all vehicle" data also infer the same conclusion that the overall speeds have not changed significantly during these last two quarters. The data by this method has shown a small increase in speeds from

SPEED SUMMARY REPORT

Send to Office of Highway Planning HHP-44

QUARTERLY REPORT- CALENDAR QUARTER ENDING March 31, 1980

STATE Indiana (State Code, Quarter, Year)

SYSTEM	CARD NO.	VMT WEIGHTING FACTOR	MILES	No. of SESSIONS	No. of VEHICLES OBSERVED	DATA TYPE	PERCENT EXCEEDING 55 MPH	SPEED			PERCENT EXCEEDING	
								AVE.	MEDIAN	85th PER. CENTILE	60 MPH	65 MPH
INTERSTATE URBAN	(1-2) 12	(6-11) 11615	(12-17) 12181	(18-20) 12	(21-26) 118152	Free Flow	(27-30) 7218	(31-34) 15810	(35-38) 15713	(39-42) 16117	(43-46) 12173	(47-50) 1419
	13					All Vehicle Factor	9157	9915	9915	9918	9112	10141
	14					All Vehicles	16197	15717	15717	16116	12119	1511
INTERSTATE RURAL	(1-2) 22	(6-11) 21511	(12-17) 18491	(18-20) 14	(21-26) 1161911	Free Flow	(27-30) 71917	(31-34) 15818	(35-38) 15811	(39-42) 16216	(43-46) 13213	(47-50) 1518
	23					All Vehicle Factor	9149	9915	9915	9917	9210	11138
	24					All Vehicles	17156	15815	15718	16214	12117	1616
MULTI-LANE DIVIDED	(1-2) 32	(6-11) 11710	(12-17) 16517	(18-20) 14	(21-26) 1171017	Free Flow	(27-30) 51914	(31-34) 15613	(35-38) 15610	(39-42) 16013	(43-46) 11616	(47-50) 1213
	33					All Vehicle Factor	91616	9913	9915	10010	9716	11714
	34					All Vehicles	15174	15519	15519	16013	11612	1217
MULTI-LANE DIVIDED (Included in multi-lane divided classification)	(1-2) 42	(6-11)	(12-17)	(18-20)	(21-26)	Free Flow	(27-30)	(31-34)	(35-38)	(39-42)	(43-46)	(47-50)
	43					All Vehicle Factor						
	44					All Vehicles						
TWO LANE RURAL	(1-2) 52	(6-11) 414	(12-17) 80310	(18-20) 4	(21-26) 11720	Free Flow	(27-30) 524	(31-34) 557	(35-38) 553	(39-42) 601	(43-46) 1619	(47-50) 313
	53					All Vehicle Factor	9156	9913	9915	10013	10214	11815
	54					All Vehicles	151011	15513	15513	16016	11713	1419
STATEWIDE TOTALS	(1-2) 64	(6-11) 1101010	(12-17) 19171541	(18-20) 1114	(21-26) 15191710	All Vehicles	(27-30) 161110	(31-34) 15616	(35-38) 15616	(39-42) 16112	(43-46) 2115	(47-50) 1510

PERCENT OF TOTAL STATEWIDE VMT ON FACILITIES WITH 55 MPH SPEED LIMITS.

(80-81-82-83-84)

FIGURE: 2 TRENDS IN SPEEDS

the previous quarter. This contradicts the slight decrease shown in the free flow data. The reason for this discrepancy may be because of statistical error.

The value of 61.0 percent for the statewide compliance level is above the maximum of 60 percent allowed by Federal regulations for the year ending September 30, 1980, to receive full highway funding. However, the first quarter of this year showed a value lower than 60 percent. It is also possible that the remaining two quarters will be at lower values - but they also could be at higher values.

APPENDIX

TABLE AL SPEED DATA FREE FLOW

STATION RI-6 HIGHWAY I-65 LOCATION 7.5 miles north of SR 160

NO. OF LANES 4 TYPE CF SURFACE Blacktop WEATHER Clear

THIS OBSERVATION

DATE 3-27-80
TIME 9:50 - 10:50 AM NB
8:35 - 9:25 AM SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 111)

DATE 12-5-79
TIME 10:25 - 11:55 AM NB
8:15 - 9:35 AM SB

	PASSENGER CARS				INDIANA				NON-INDIANA				ALL				TRUCKS			
	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST
OBSERVATION	247	123	91	87	156	216	177	60	177	60	177	60	177	60	177	60	177	60	177	60
NUMBER OF VEHICLES	247	123	91	87	156	216	177	60	177	60	177	60	177	60	177	60	177	60	177	60
AVE. SPEED (MPH)	58.90	58.40	58.79	59.60	59.46	59.00	58.25	57.90	58.25	57.90	58.25	57.90	58.25	57.90	58.25	57.90	58.25	57.90	58.25	57.90
STANDARD DEVIATION	4.436	3.870	3.680	5.073	3.681	4.670	4.229	4.200	4.229	4.200	4.229	4.200	4.229	4.200	4.229	4.200	4.229	4.200	4.229	4.200
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 MPH	15.7	16.3	14.3	14.9	9.0	13.9	18.6	20.0	18.6	20.0	18.6	20.0	18.6	20.0	18.6	20.0	18.6	20.0	18.6	20.0
TRAVELING	57.6	59.3	57.1	55.2	51.3	55.1	59.3	65.0	59.3	65.0	59.3	65.0	59.3	65.0	59.3	65.0	59.3	65.0	59.3	65.0
AT JCR	88.1	93.5	93.4	80.5	92.3	90.7	94.4	96.7	94.4	96.7	94.4	96.7	94.4	96.7	94.4	96.7	94.4	96.7	94.4	96.7
LESS THAN	98.6	100.0	100.0	96.6	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
74 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	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 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	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	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 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	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION NB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NUMBER OF VEHICLES	119	53	22	46	97	112	93	27	93	27	93	27	93	27	93	27	93	27	93	27
AVERAGE SPEED	59.10	58.50	59.27	59.70	59.25	59.60	58.52	59.20	58.13	59.20	58.13	59.20	58.13	59.20	58.13	59.20	58.13	59.20	58.13	59.20
DIRECTION SB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NUMBER OF VEHICLES	111	70	69	41	59	104	84	33	84	33	84	33	84	33	84	33	84	33	84	33
AVERAGE SPEED	58.70	58.30	58.64	59.50	59.80	58.30	57.96	56.80	56.77	56.80	56.77	56.80	56.77	56.80	56.77	56.80	56.77	56.80	56.77	56.80

TABLE A2 SPEED DATA FREE FLOW

STATION RI-21 HIGHWAY I-69 LOCATION 1.6 miles south of SR 18

NO. OF LANES 4 TYPE OF SURFACE Blacktop WEATHER Sunny-Clear

THIS OBSERVATION

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 111)

DATE 3-3-80 4-3-80

DATE 12-11-79

TIME 2:05 - 2:35 PM (3-3) 1:15 -

TIME 9:40 - 10:40 AM NB

11:00 - 12:20 PM SB

10:50 - 11:50 AM SB

	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	266	293	170	177	76	116	183	134	44	37	139	97
AVE. SPEED (MPH)	59.0	58.60	60.20	58.64	58.80	58.53	59.30	58.46	58.20	57.49	59.70	58.84
STANDARD DEVIATION	5.12	4.47	5.15	4.60	4.97	4.28	5.77	4.73	5.83	4.35	5.73	4.84
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	1.1	0	2.3	0	7	0
49 MPH	2.4	1.7	2.4	1.7	2.6	1.7	7.1	3.0	9.1	5.4	6.5	2.1
54 MPH	13.8	17.4	12.9	16.4	15.8	19.0	15.8	17.2	20.5	18.9	14.4	16.5
59 MPH	51.6	61.4	47.6	62.1	60.5	60.3	48.6	59.7	56.8	73.0	46.0	54.6
64 MPH	84.1	90.1	81.8	89.8	89.5	90.5	81.4	89.6	81.8	91.9	81.3	88.7
69 MPH	95.9	98.3	96.5	98.3	94.7	98.3	97.3	98.5	97.7	97.3	97.1	99.0
74 MPH	99.6	100.0	99.4	100.0	100.0	100.0	99.5	100.0	100.0	100.0	99.3	100.0
79 MPH	99.6	100.0	99.4	100.0	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	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	185	153	101	89	34	64	80	62	19	19	61	43
AVERAGE SPEED	60.0	59.37	60.80	59.38	60.40	59.34	61.90	59.81	60.00	57.63	62.50	60.77
DIRECTION SB												
NUMBER OF VEHICLES	111	140	69	88	42	52	103	72	25	18	78	54
AVERAGE SPEED	58.60	57.76	59.30	57.90	57.50	57.52	57.30	57.31	56.90	57.33	57.50	57.30

TABLE A3 SPEED DATA FREE FLOW

STATION RI-30 HIGHWAY I-65 LOCATION 2.15 miles north of SR 14

NO. OF LANES 4 TYPE OF SURFACE Cement WEATHER Cloudy

THIS OBSERVATION DATE 3-31-80 LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

TIME 11:10 AM - 12:00 PM NB
TIME 12:30 - 1:15 PM SB

	PASSENGER CARS				TRUCKS			
	INDIANA		NON-INDIANA		<5000 LBS.		>5000 LBS.	
	LAST	ENT.	LAST	ENT.	LAST	ENT.	LAST	ENT.
OBSERVATION		PRES-		PRES-		PRES-		PRES-
NUMBER OF VEHICLES	258	100	158	161	0	40	0	121
AVERAGE SPEED (MPH)	59.69	59.59	59.75	60.28	0	59.42	0	60.56
STANDARD DEVIATION	4.192	4.117	4.250	4.528	0	4.574	0	4.496
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	8	8	13	6	0	2.5	0	8
54 MPH	7.4	8.0	7.0	12	0	12.5	0	5.8
59 MPH	55.4	55.0	55.7	42.2	0	50.0	0	39.7
64 MPH	89.5	91.0	88.6	83.2	0	90.0	0	81.0
69 MPH	96.9	98.0	96.2	98.8	0	100.0	0	98.3
74 MPH	100.0	100.0	100.0	100.0	0	100.0	0	100.0
79 MPH	100.0	100.0	100.0	100.0	0	100.0	0	100.0
84 MPH	100.0	100.0	100.0	100.0	0	100.0	0	100.0
89 MPH	100.0	100.0	100.0	100.0	0	100.0	0	100.0
DIRECTION	NB							
NUMBER OF VEHICLES	129	56	73	81	0	15	0	66
AVERAGE SPEED	59.33	59.29	59.36	59.19	0	57.40	0	59.59
DIRECTION	SB							
NUMBER OF VEHICLES	129	44	85	80	0	25	0	55
AVERAGE SPEED	60.05	59.98	60.08	61.39	0	60.64	0	61.73

TABLE A4 SPEED DATA FREE FLOW

STATION RI-36 HIGHWAY I-74 LOCATION 3.01 miles east of US 231 1/2 hour interval

NO. OF LANES 4 TYPE CF SURFACE Cement WEATHER Cloudy

THIS OBSERVATION DATE 4-1-80 4-2-80 LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

DATE 4-1-80 4-2-80
TIME 9:00 AM EB (4-1-80)
9:15 AM WB (4-2-80)

	OBSERVATION	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
		ENT	LAST	PRES	ENT	LAST	PRES	ENT	LAST	PRES	ENT	LAST	PRES
NUMBER OF VEHICLES	0	235	0	81	154	0	186	0	52	0	52	0	134
AVERAGE SPEED (MPH)	0	57.85	0	57.05	58.27	0	57.99	0	56.54	0	56.54	0	58.55
STANDARD DEVIATION	0	4.218	0	4.373	4.086	0	3.799	0	3.781	0	3.781	0	3.668
PERCENT	0	0	0	0	0	0	0	0	0	0	0	0	0
CF	0	0	0	0	0	0	0	0	0	0	0	0	0
VEHICLES	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAVELING	0	0	0	0	0	0	0	0	0	0	0	0	0
AT CR	0	0	0	0	0	0	0	0	0	0	0	0	0
LESS THAN	0	0	0	0	0	0	0	0	0	0	0	0	0
DIRECTION	EB	0	0	0	0	0	0	0	0	0	0	0	0
NUMBER OF VEHICLES	0	112	0	29	83	0	128	0	28	0	28	0	70
AVERAGE SPEED	0	57.76	0	56.41	58.23	0	57.27	0	56.04	0	56.04	0	57.76
DIRECTION	WB	0	0	0	0	0	0	0	0	0	0	0	0
NUMBER OF VEHICLES	0	123	0	52	71	0	88	0	24	0	24	0	64
AVERAGE SPEED	0	57.93	0	57.40	58.31	0	58.80	0	57.13	0	57.13	0	59.42

TABLE A5---SPEED DATA FREE FLOW

STATION 4L-17 HIGHWAY US-52 LOCATION Just east of Co. RD 475 W. Near Klondike

NO. OF LANES 4 TYPE CF SURFACE Blacktop WEATHER Cloudy (2025-2-7)-Sunny (4-16)

THIS OBSERVATION

DATE 2-25-80 4-7-80, 4-16-80
 TIME 8:25 - 8:55 AM (2-25) 12:25 - 1:40 PM (4-7) EB TIME 9:17 - 10:38 AM FB
 9:05 - 12:50 PM (4-16) WB 12:15 - 1:53 PM WB

LAIST PREVIOUS OBSERVATION (SPEED REPORT NO. 111)

	PASSENGER CARS				NON-INDIANA				ALL				TRUCKS			
	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST
NUMBER OF VEHICLES	314	303	280	11	28	132	123	81	65	51	58	51	65	51	58	51
AVERAGE SPEED (MPH)	56.20	56.80	55.84	57.50	56.82	54.80	55.06	55.20	55.17	54.10	54.93	55.20	55.17	54.10	54.93	55.20
STANDARD DEVIATION	5.098	5.108	5.271	4.967	4.137	5.647	6.126	5.889	6.578	5.231	5.632	5.889	6.578	5.231	5.632	5.889
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	3	3	4	0	0	0	8	0	1	0	0	0	1	0	0	0
39 MPH	1	1	1	0	0	0	1	0	1	0	1	0	1	0	1	0
44 MPH	1	2	1	0	0	3	2	2	2	2	2	2	2	2	2	2
49 MPH	6	6	8	1	7	21	14	19	14	23	12	19	14	23	12	19
54 MPH	28	28	38	6	35	43	43	43	41	43	41	41	41	43	41	41
59 MPH	73	74	80	9	75	82	80	77	75	77	75	75	75	77	75	75
64 MPH	92	92	95	5	100	97	93	96	93	90	90	93	93	90	93	93
69 MPH	98	98	99	4	100	99	99	98	98	98	98	98	98	98	98	98
74 MPH	100	100	100	0	100	100	100	100	100	100	100	100	100	100	100	100
79 MPH	100	100	100	0	100	100	100	100	100	100	100	100	100	100	100	100
84 MPH	100	100	100	0	100	100	100	100	100	100	100	100	100	100	100	100
89 MPH	100	100	100	0	100	100	100	100	100	100	100	100	100	100	100	100
DIRECTION	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB	FB
NUMBER OF VEHICLES	164	156	150	8	14	66	53	41	28	25	25	25	28	25	25	25
AVERAGE SPEED	57.40	57.60	58.88	57.50	58.14	56.50	55.00	57.10	54.75	55.60	55.28	55.60	54.75	55.60	55.28	55.60
DIRECTION	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB
NUMBER OF VEHICLES	160	147	130	3	14	66	70	40	37	26	33	26	37	26	33	33
AVERAGE SPEED	56.00	56.00	55.78	57.70	55.50	53.10	55.10	53.30	55.49	52.80	54.67	52.80	55.49	52.80	54.67	54.67

TABLE A8 SPEED DATA FREE FLOW

STATION 41-30 HIGHWAY US 30 LOCATION 2.1 miles east of US 31

NO. OF LANES 4 TYPE CF SURFACE Cement WEATHER Clear Sunny

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

DATE 3-19-80
 TIME 10:35 AM - 12:02 PM FB
 12:20 PM - 1:50 PM WB

OBSERVATION	PASSENGER CARS		NON-INDIANA		ALL		TRUCKS	
	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI
NUMBER OF VEHICLES	177	124	0	0	0	246	0	44
AVERAGE SPEED (MPH)	57.13	56.95	0	57.55	0	56.57	0	55.77
STANDARD DEVIATION	3.996	4.299	0	3.172	0	4.460	0	4.855
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	4	0	0
39 MPH	0	0	0	0	0	8	0	0
44 MPH	0	8	0	0	0	12	0	23
49 MPH	23	32	0	0	0	9	0	5
54 MPH	24.9	28.2	0	17.0	0	27.6	0	31.8
59 MPH	71.8	70.2	0	75.5	0	74.8	0	75.5
64 MPH	96.6	96.0	0	98.1	0	97.6	0	97.7
69 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0
74 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION WB	0	0	0	29	0	128	0	33
NUMBER OF VEHICLES	0	54	0	57.14	0	55.49	0	54.57
AVERAGE SPEED	0	57.33	0	57.14	0	55.49	0	54.57
DIRECTION WB	0	0	0	24	0	118	0	21
NUMBER OF VEHICLES	0	70	0	58.04	0	57.73	0	57.10
AVERAGE SPEED	0	56.96	0	58.04	0	57.73	0	57.10

TABLE A9 SPEED DATA FREE FLOW

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

NO. OF LANES 2 TYPE OF SURFACE Blacktop WEATHER Cloudy

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 111)

DATE 4-3-80 DATE 11-27-79
 TIME 10:20 AM - 12:59 PM TIME 10:50 AM - 2:50 PM

OBSERVATION	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	LAST	ENT	PRES	LAST	ENT	PRES	LAST	ENT	PRES	LAST	ENT	PRES
NUMBER OF VEHICLES	271	256	241	16	15	166	166	176	60	79	87	116
AVE. SPEED (MPH)	57.50	54.82	54.65	58.30	57.60	55.30	55.30	54.47	54.23	56.60	54.20	54.59
STANDARD DEVIATION	5.00	5.43	5.43	5.24	4.67	5.24	5.24	4.85	4.99	4.67	5.49	4.80
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	4	4	4	0	0	0	0	0	0	0	0	0
39 MPH	8	8	8	0	0	1.2	1.2	6	1.7	1.3	1.1	0
44 MPH	11	2.7	2.9	0	0	3.9	3.9	3.4	3.3	5.1	4.6	3.4
49 MPH	33	14.5	14.9	0	0	13.9	13.9	11.4	13.3	27.8	21.8	10.3
54 MPH	247	51.2	53.1	18.8	20.0	39.2	39.2	50.0	48.3	97.5	49.4	50.9
59 MPH	683	83.2	84.2	68.8	66.7	78.3	78.3	84.7	88.3	74.7	81.6	82.8
64 MPH	908	96.9	97.1	93.8	93.3	98.2	98.2	100.0	100.0	100.0	98.9	100.0
69 MPH	982	99.2	99.2	98.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
74 MPH	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
79 MPH	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84 MPH	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89 MPH	1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION	EB											
NUMBER OF VEHICLES	144	150	144	6	6	83	83	70	30	41	42	40
AVERAGE SPEED	57.40	54.48	54.31	56.50	58.50	55.10	55.10	53.29	53.27	56.40	53.80	53.30
DIRECTION	WB											
NUMBER OF VEHICLES	127	106	97	10	9	83	83	106	30	38	45	26
AVERAGE SPEED	57.30	55.30	55.14	59.30	57.00	55.60	55.60	55.25	55.20	56.80	54.50	55.28

TABLE ALO SPEED DATA FREE FLOW

STATION 21-54 HIGHWAY US 231 LOCATION 1.1 miles south of SR 234

NO. OF LANES 2 TYPE CF SURFACE Blacktop WEATHER Supply Clear

THIS OBSERVATION LAIST PREVIOUS OBSERVATION (SPEED REPORT NO. 111)

DATE 3-6-80 DATE 11-21-79
TIME 9:30 AM - 3:25 PM TIME 11:30 AM - 2:00 PM

		PASSENGER CARS				NON-INDIANA				ALL				TRUCKS			
		LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	262	263	242	243	242	17	21	183	158	183	158	85	67	85	67	5000	5000
AVERAGE SPEED (MPH)	57.10	56.37	56.29	57.10	56.29	57.60	57.38	56.10	55.35	56.10	55.35	56.80	53.99	56.80	53.99	55.60	56.35
STANDARD DEVIATION	5.089	5.886	5.162	5.162	5.162	3.985	6.225	6.157	5.875	6.157	5.875	6.525	5.604	6.525	5.604	5.795	5.898
24 MPH	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
34 MPH	0	0	0	0	0	0	0	5	6	5	6	1.2	1.5	1.2	1.5	0	0
39 MPH	0	0	0	0	0	0	0	5	2.5	5	2.5	1.2	4.5	1.2	4.5	0	1.1
44 MPH	1.9	1.9	2.1	2.1	2.1	0	0	3.8	3.8	3.8	3.8	3.5	6.0	3.5	6.0	4.1	2.2
49 MPH	11.0	11.0	10.7	10.7	10.7	5.9	14.3	13.1	14.6	13.1	14.6	12.9	11.9	12.9	11.9	13.3	16.5
54 MPH	33.5	33.5	33.9	33.9	33.9	11.8	28.6	37.2	38.6	37.2	38.6	34.1	46.3	34.1	46.3	39.8	33.0
59 MPH	75.5	76.0	77.7	75.5	77.7	70.6	57.1	71.0	75.9	71.0	75.9	62.4	86.6	62.4	86.6	78.6	68.1
64 MPH	93.1	93.2	93.4	93.1	93.4	94.1	90.5	95.1	95.6	95.1	95.6	91.8	98.5	91.8	98.5	98.0	93.4
69 MPH	98.1	97.0	96.7	98.1	96.7	100.0	100.0	98.9	100.0	98.9	100.0	98.8	100.0	98.8	100.0	99.0	100.0
74 MPH	99.2	99.2	99.2	99.2	99.2	100.0	100.0	99.5	100.0	99.5	100.0	100.0	100.0	100.0	100.0	99.0	100.0
79 MPH	100.0	99.6	99.6	100.0	99.6	100.0	100.0	99.5	100.0	99.5	100.0	100.0	100.0	100.0	100.0	99.0	100.0
84 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	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	100.0	100.0	100.0	100.0	100.0
DIRECTION NB																	
NUMBER OF VEHICLES	166	160	136	115	136	1	4	94	80	94	80	44	33	44	33	50	47
AVERAGE SPEED	58.00	57.36	57.36	57.90	57.36	62.00	57.50	56.60	56.94	56.60	56.94	57.50	55.33	57.50	55.33	55.80	58.06
DIRECTION SB																	
NUMBER OF VEHICLES	146	123	106	130	106	16	17	89	78	89	78	41	34	41	34	48	44
AVERAGE SPEED	56.40	55.24	54.91	56.30	54.91	57.30	57.35	55.60	53.72	55.60	53.72	56.00	52.68	56.00	52.68	55.40	54.52

TABLE A12. SPEED DATA

STATION 2L-51-----
HIGHWAY -----US 231-----
LOCATION 5.55 miles north of SR 56.

NO. OF LANES	TYPE OF SURFACE	WEATHER
2	Blacktop	Cloudy

THIS OBSERVATION	LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
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
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98	98
99	99
100	100

DATE 3-26-80
TIME 8:50 AM - 12:20 PM

	PASSENGER CARS				NON-INDIANA				TRUCKS			
	ALL	ENT	LAST	PRES-	ALL	ENT	LAST	PRES-	ALL	ENT	LAST	PRES-
OBSERVATION	LAST	ENT	LAST	PRES-	LAST	ENT	LAST	PRES-	LAST	ENT	LAST	PRES-
NUMBER OF VEHICLES	197	181	0	16	235	84	151					
AVE. SPEED (MPH)	57.79	57.62	0	59.69	56.56	56.25	56.74					
STANDARD DEVIATION	5.297	5.211	0	6.041	4.917	4.214	5.273					
24 MPH	0	0	0	0	0	0	0					
29 MPH	0	0	0	0	0	0	0					
34 MPH	0	0	0	0	0	0	0					
39 MPH	0	0	0	0	0	0	0					
44 MPH	0	0	0	0	1.7	0	2.6					
49 MPH	4.6	5.0	0	0	6.4	7.2	7.9					
54 MPH	25.9	26.5	0	18.8	29.8	32.1	28.5					
59 MPH	73.6	73.5	0	75.0	71.5	77.4	68.2					
64 MPH	90.9	91.7	0	81.5	94.9	95.2	94.7					
69 MPH	94.9	95.6	0	87.5	92.6	100.0	99.3					
74 MPH	98.0	98.3	0	93.8	100.0	100.0	100.0					
79 MPH	100.0	100.0	0	100.0	100.0	100.0	100.0					
84 MPH	100.0	100.0	0	100.0	100.0	100.0	100.0					
89 MPH	100.0	100.0	0	100.0	100.0	100.0	100.0					
DIRECTION												
NUMBER OF VEHICLES	111	102	0	9	102	36	66					
AVERAGE SPEED	57.89	57.80	0	58.89	56.74	56.42	56.91					
DIRECTION												
NUMBER OF VEHICLES	86	79	0	7	133	48	85					
AVERAGE SPEED	57.66	57.39	0	60.71	56.43	56.12	56.60					

TABLE AL3 / SPEED DATA FREE FLOW

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

NO. OF LANES 6 TYPE OF SURFACE Concrete WEATHER Cloudy

THIS OBSERVATION

DATE 4-10-80
TIME 11:35 AM EB
10:00 - 10:26 AM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 111)

DATE 11-30-79
TIME 10:20 AM EB
10:55 - 11:18 AM WB

	PASSENGER CARS		INDIANA		NON-INDIANA		ALL		TRUCKS	
	ENI	LASI	ENI	LASI	ENI	LASI	ENI	LASI	ENI	LASI
OBSERVATION	288	248	243	40	137	137	137	71	64	66
NUMBER OF VEHICLES	288	248	243	40	137	137	137	71	64	66
AVE. SPEED (MPH)	57.90	57.90	58.64	57.80	55.80	56.88	56.88	56.90	57.36	54.70
STANDARD DEVIATION	4.107	4.267	4.931	3.692	3.530	4.294	4.294	4.748	3.574	5.378
24 MPH	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0	0	0
49 MPH	0	0	0	0	0	0	0	0	0	0
54 MPH	0	0	0	0	0	0	0	0	0	0
59 MPH	0	0	0	0	0	0	0	0	0	0
64 MPH	0	0	0	0	0	0	0	0	0	0
69 MPH	0	0	0	0	0	0	0	0	0	0
74 MPH	0	0	0	0	0	0	0	0	0	0
79 MPH	0	0	0	0	0	0	0	0	0	0
84 MPH	0	0	0	0	0	0	0	0	0	0
89 MPH	0	0	0	0	0	0	0	0	0	0
DIRECTION	EB	WB	WB	WB	WB	WB	WB	WB	WB	WB
NUMBER OF VEHICLES	182	157	133	20	24	80	58	41	23	39
AVERAGE SPEED	57.90	58.92	57.90	58.00	57.75	55.60	57.17	57.00	58.17	54.20
DIRECTION	WB	WB	WB	WB	WB	WB	WB	WB	WB	WB
NUMBER OF VEHICLES	156	134	136	20	24	57	79	30	41	27
AVERAGE SPEED	57.90	58.23	58.00	57.50	59.08	56.10	56.67	56.80	56.90	55.30

TABLE A14 SPEED DATA FREE FLOW

STATION U2-07 HIGHWAY I-70 LOCATION 0.7 miles east of west leg of I-465

NO. OF LANES 6 TYPE OF SURFACE Cement WEATHER Cloudy

THIS OBSERVATION

DATE 3-25-80
TIME 10:50 - 12:00 PM EB
1:00 - 2:20 PM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 108)

DATE 3-27-79
TIME 1:44 - 2:19 PM EB
12:33 - 1:22 PM WB

	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	PRES-	ENI	LAST	PRES-	ENI	LAST	PRES-	ENI	LAST	PRES-	ENI	LAST
OBSERVATION												
NUMBER OF VEHICLES	233	185	0	185	48	0	191	191	0	0	63	0
AVERAGE SPEED (MPH)	58.07	57.94	0	58.58	57.58	0	57.65	57.65	0	57.76	0	0
STANDARD DEVIATION	4.17	4.29	0	3.66	3.66	0	5.13	5.13	0	4.17	0	0
PERCENT												
CF	0	0	0	0	0	0	0	0	0	0	0	0
VEHICLES	2.1	2.7	0	0	0	0	1.6	1.6	0	0	0	0
TRAVELING	14.6	16.2	0	8.3	8.3	0	24.6	24.6	0	24.8	0	0
AT CR	64.4	65.4	0	60.4	60.4	0	67.5	67.5	0	73.0	0	0
LESS THAN	94.0	94.1	0	93.8	93.8	0	91.6	91.6	0	88.9	0	0
	99.1	98.9	0	100.0	100.0	0	97.9	97.9	0	100.0	0	0
	100.0	100.0	0	100.0	100.0	0	100.0	100.0	0	100.0	0	0
	100.0	100.0	0	100.0	100.0	0	100.0	100.0	0	100.0	0	0
	100.0	100.0	0	100.0	100.0	0	100.0	100.0	0	100.0	0	0
	100.0	100.0	0	100.0	100.0	0	100.0	100.0	0	100.0	0	0
DIRECTION												
NUMBER OF VEHICLES	115	96	0	19	19	0	92	92	0	32	0	0
AVERAGE SPEED	58.22	58.16	0	58.53	58.53	0	57.87	57.87	0	57.94	0	0
DIRECTION												
NUMBER OF VEHICLES	118	89	0	29	29	0	92	92	0	31	0	0
AVERAGE SPEED	57.92	57.70	0	58.62	58.62	0	57.41	57.41	0	57.58	0	0

TABLE A15 SPEED DATA FREE FLOW

STATION RIALI H1CHWAY Rural Interstate LOCATION See Individual Stations

NO. OF LANES TYPE CF SURFACE WEATHER

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

DATE Jan - Mar 1980
TIME

OBSERVATION	PASSENGER CARS				TRUCKS			
	INDIANA		NON-INDIANA		ALL		<5000 LBS.	
	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	1033	449	0	584	0	658	0	199
AVERAGE SPEED (MPH)	58.85	58.60	0	59.04	0	58.72	0	57.65
STANDARD DEVIATION	4.216	4.346	0	4.107	0	4.382	0	4.529
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	1.3	1.6	0	1.0	0	2.3	0	3.0
54 MPH	13.3	15.1	0	11.8	0	14.9	0	23.1
59 MPH	60.7	62.1	0	59.6	0	57.9	0	66.3
64 MPH	91.1	91.1	0	91.1	0	90.4	0	94.0
69 MPH	98.4	98.9	0	97.9	0	99.4	0	99.5
74 MPH	99.9	100.0	0	99.8	0	100.0	0	100.0
79 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0
PERCENT								
CF								
VEHICLES								
TRAVELING								
AT CR								
LESS THAN								

TABLE - A16 - SPEED DATA FREE FLOW

STATION - 414LK - HIGHWAY - 4-Lane - LOCATION - See Individual Stations

NO. OF LANES - TYPE OF SURFACE - WEATHER

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

DATE - Jan - Mar 1980 DATE - TIME - TIME -

	OBSERVATION	ALL			PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
		PRES-			PRES-			PRES-			PRES-			PRES-		
		LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST
NUMBER OF VEHICLES		1003		1003		1003		1003		1003		1003		1003		1003
AVE. SPEED (MPH)		56.52		56.52		56.52		56.52		56.52		56.52		56.52		56.52
STANDARD DEVIATION		4.686		4.686		4.686		4.686		4.686		4.686		4.686		4.686
24 MPH		0		0		0		0		0		0		0		0
29 MPH		0		0		0		0		0		0		0		0
34 MPH		1		1		1		1		1		1		1		1
39 MPH		2		2		2		2		2		2		2		2
44 MPH		1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0
49 MPH		5.8		5.8		5.8		5.8		5.8		5.8		5.8		5.8
54 MPH		30.0		30.0		30.0		30.0		30.0		30.0		30.0		30.0
59 MPH		77.6		77.6		77.6		77.6		77.6		77.6		77.6		77.6
64 MPH		96.3		96.3		96.3		96.3		96.3		96.3		96.3		96.3
69 MPH		99.5		99.5		99.5		99.5		99.5		99.5		99.5		99.5
74 MPH		99.7		99.7		99.7		99.7		99.7		99.7		99.7		99.7
79 MPH		99.9		99.9		99.9		99.9		99.9		99.9		99.9		99.9
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

TABLE AL7--SPEED DATA FREE FLOW

STATION 2LALU HI6HWAY 2-Lane LOCATION See Individual Stations

NO. OF LANES TYPE CF SURFACE WEATHER

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

DATE Jan-Mar 1980 DATE TIME

	OBSERVATION	CALL		PASSENGER CARS		NON-INDIANA		ALL		TRUCKS	
		PRES-		PRES-		PRES-		PRES-		PRES-	
		LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	980	0	918	0	62	0	740	0	306	0	434
AVE. SPEED (MPH)	55.93	0	55.81	0	57.73	0	55.31	0	54.85	0	55.64
STANDARD DEVIATION	5.693	0	5.672	0	5.646	0	5.501	0	5.345	0	5.291
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	1	0	1	0	0	0	3	0	3	0	2
39 MPH	3	0	3	0	0	0	9	0	1.6	0	5
44 MPH	2.4	0	2.6	0	0	0	3.1	0	3.3	0	3.0
49 MPH	11.4	0	11.7	0	8.1	0	12.6	0	12.1	0	12.2
54 MPH	39.5	0	40.1	0	30.6	0	41.2	0	44.1	0	39.2
59 MPH	77.4	0	78.2	0	66.1	0	72.6	0	82.4	0	74.2
64 MPH	94.2	0	94.4	0	90.3	0	96.2	0	96.7	0	96.1
69 MPH	97.9	0	97.9	0	96.8	0	99.6	0	99.7	0	99.5
74 MPH	99.4	0	99.5	0	98.4	0	100.0	0	100.0	0	100.0
79 MPH	99.9	0	99.9	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE	A18	SPEED	DATA	FREE	FLOW
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STATION UIAL
HIGHWAY Urban Interstate LOCATION See Individual Stations.

NO. OF LANES	TYPE OF SURFACE	WEATHER
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
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99	99	99
100	100	100

THIS OBSERVATION	LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
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DATE Jan - Mar 1980 DATE -----
TIME ----- TIME -----

[illegible]

TABLE A19 SPEED DATA FREE FLOW

STATION ALK HIGHWAY Indiana System LOCATION See Individual Station

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION DATE Jan - Mar 1980 LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

DATE TIME

	ALL			PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	PRES-			PRES-			PRES-			PRES-			PRES-		
	LAST	ENT	LAST	LAST	ENT	LAST	LAST	ENT	LAST	LAST	ENT	LAST	LAST	ENT	LAST
NUMBER OF VEHICLES	3540	2582	0	958	0	2430	0	842	0	1588	0	5000	0	1588	0
AVE. SPEED (MPH)	57.31	56.87	0	58.49	0	56.72	0	55.98	0	57.12	0	55.00	0	57.12	0
STANDARD DEVIATION	4.990	5.196	0	4.169	0	5.150	0	5.203	0	5.077	0	5.00	0	5.077	0
24 MPH	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
34 MPH	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
49 MPH	5	6	0	1	0	0	0	0	0	0	0	0	0	0	0
54 MPH	25	29	0	14	0	0	0	0	0	0	0	0	0	0	0
59 MPH	70	72	0	64	0	0	0	0	0	0	0	0	0	0	0
64 MPH	93	93	0	92	0	0	0	0	0	0	0	0	0	0	0
69 MPH	98	98	0	98	0	0	0	0	0	0	0	0	0	0	0
74 MPH	99	99	0	99	0	0	0	0	0	0	0	0	0	0	0
79 MPH	99	99	0	99	0	0	0	0	0	0	0	0	0	0	0
84 MPH	100	100	0	100	0	0	0	0	0	0	0	0	0	0	0
89 MPH	100	100	0	100	0	0	0	0	0	0	0	0	0	0	0

PERCENT OF VEHICLES TRAVELING AT OR LESS THAN

TABLE A20 SPEED DATA Every 2nd Vehicle

STATION RI-21 HIGHWAY I-69 LOCATION 1.6 miles south of SR 18

AC. OF LANES 4 TYPE CF SURFACE Blacktop WEATHER Sunny Clear

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

DATE 3-3-80 4-3-80 DATE
TIME 2:35 PM - 3:05 PM (3-3) 1:46 - 2:30 PM (4-3) WB TIME
11:30 AM - 1:30 PM (3-3) SB

	PASSENGER CARS		NON-INDIANA		ALL		TRUCKS	
	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT
OBSERVATION	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	0	280	0	175	0	146	0	43
AVERAGE SPEED (MPH)	0	58.66	0	58.45	0	58.18	0	58.16
STANDARD DEVIATION	0	4.561	0	4.289	0	5.394	0	4.123
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	2.5	0	1.7	0	4.1	0	0
54 MPH	0	16.8	0	17.1	0	23.3	0	0
59 MPH	0	62.9	0	65.7	0	58.0	0	0
64 MPH	0	90.7	0	92.6	0	89.0	0	0
69 MPH	0	98.2	0	98.2	0	97.3	0	0
74 MPH	0	99.6	0	99.4	0	99.3	0	0
79 MPH	0	100.0	0	100.0	0	100.0	0	0
84 MPH	0	100.0	0	100.0	0	100.0	0	0
89 MPH	0	100.0	0	100.0	0	100.0	0	0
DIRECTION NB								
NUMBER OF VEHICLES	0	145	0	89	0	69	0	22
AVERAGE SPEED	0	58.86	0	58.79	0	59.52	0	57.36
DIRECTION SB								
NUMBER OF VEHICLES	0	135	0	86	0	77	0	21
AVERAGE SPEED	0	58.44	0	58.09	0	56.97	0	59.00

STATION	RI-36		HIGHWAY	I-74	LOCATION	3.01 miles east of US 231	1/2 hr intervals	
NO. OF LANES	4		TYPE OF SURFACE	Cement			WEATHER	Cloudy (4-1) Sunny (4-2)

AC. OF LANES	-----4-----	
TYPE (F SURFACE)	Cement	-----
WEATHER	Cloudy	(4-1) Sunny (4-2)

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

DATE '4-1-80, 4-2-80
TIME 9:30 AM - 1:45 PM (4-1) EB
9:45 AM - 2:05 AM (4-2) WB

	PASSENGER CARS				TRUCKS			
	ALL	INDIANA	NON-INDIANA	ALL	<5000 LBS.	>5000 LBS.	PRES-	PRES-
	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
1-OBSERVATION	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	216	87	129	206	0	44	0	162
AVE. SPEED (MPH)	58.56	58.17	58.82	58.31	0	57.05	0	58.65
STANDARD DEVIATION	4.332	4.166	4.438	4.287	0	4.385	0	4.059
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	1.4	1.1	1.6	1.9	0	3.3	0	2.1
54 MPH	13.4	12.6	14.0	19.9	0	27.0	0	17.9
59 MPH	66.2	69.0	64.3	61.2	0	75.0	0	57.4
64 MPH	89.4	89.7	89.1	93.7	0	95.5	0	93.2
69 MPH	98.6	100.0	97.7	99.0	0	97.0	0	99.4
74 MPH	100.0	100.0	100.0	100.0	0	100.0	0	100.0
79 MPH	100.0	100.0	100.0	100.0	0	100.0	0	100.0
84 MPH	100.0	100.0	100.0	100.0	0	100.0	0	100.0
89 MPH	100.0	100.0	100.0	100.0	0	100.0	0	100.0
DIRECTION								
NUMBER OF VEHICLES	101	47	54	110	0	24	0	86
AVERAGE SPEED	57.71	57.40	57.98	58.09	0	56.71	0	59.49
DIRECTION								
NUMBER OF VEHICLES	115	40	75	96	0	35	0	70
AVERAGE SPEED	59.30	59.07	59.45	58.56	0	57.45	0	59.50

TABLE_A23_SPEED DATA Every 2nd Vehicle

STATION_41-05 HIGHWAY_SR_63 LOCATION_0.6_miles_south_of_SR_163 WEATHER_Cloudy (4-4) Clear (3-18)

NO. OF LANES_4 TYPE CF SURFACE'_Blacktop

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

DATE_4-4-80_3-18-80
TIME_10:50 AM - 2:00 PM (4-4) NB
11:00 AM - 3:30 PM (3-18) SB

	OBSERVATION	ALL			PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
		LAST	ENT	PRES	LAST	ENT	PRES	LAST	ENT	PRES	LAST	ENT	PRES	LAST	ENT	PRES
NUMBER OF VEHICLES		0	260		0	199		0	61		0	164		0	68	
AVE. SPEED (MPH)		0	57.19		0	56.58		0	59.16		0	55.69		0	55.28	
STANDARD DEVIATION		0	4.703		0	4.495		0	4.859		0	5.345		0	5.670	
24 MPH		0	0		0	0		0	0		0	0		0	0	
29 MPH		0	0		0	0		0	0		0	0		0	0	
34 MPH		0	0		0	0		0	0		0	0		0	0	
39 MPH		0	0		0	0		0	0		0	0		0	0	
44 MPH		0	0		0	0		0	0		0	0		0	0	
49 MPH		0	3.8		0	5.0		0	0		0	3.3		0	4.4	
54 MPH		0	27.7		0	32.7		0	11.5		0	32.9		0	16.3	
59 MPH		0	73.5		0	77.9		0	52.0		0	78.0		0	36.3	
64 MPH		0	94.6		0	96.5		0	88.5		0	95.1		0	79.4	
69 MPH		0	98.1		0	99.0		0	95.1		0	100.0		0	94.1	
74 MPH		0	99.6		0	100.0		0	98.4		0	100.0		0	100.0	
79 MPH		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	
89 MPH		0	100.0		0	100.0		0	100.0		0	100.0		0	100.0	
DIRECTION NB																
NUMBER OF VEHICLES		0	148		0	112		0	36		0	65		0	39	
AVERAGE SPEED		0	57.17		0	56.46		0	59.36		0	54.98		0	55.28	
DIRECTION SB																
NUMBER OF VEHICLES		0	112		0	87		0	25		0	99		0	29	
AVERAGE SPEED		0	57.21		0	56.74		0	58.88		0	56.15		0	55.28	

TABLE A24 SPEED DATA Every 2nd Vehicle

STATION 2L-54 HIGHWAY US 231 LOCATION 1.1 miles south of SR 234
 NO. OF LANES 2 TYPE CF SURFACE Blacktop WEATHER Clear, Sunny
 THIS OBSERVATION
 DATE 3-6-80, 3-7-80
 TIME 10:00 AM - 3:40 PM (3-6) 9:40 - 12:52 (3-7)

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

	OBSERVATION	PASSENGER CABS			NON-INDIANA			ALL			TRUCKS			PRES	LBS.	PRES	LBS.	PRES	LBS.
		LAST	ENT	PRES	LAST	ENT	PRES	LAST	ENT	PRES	LAST	ENT	PRES						
NUMBER OF VEHICLES		243	225		18	18		181	181		0	0		0	0		0	0	0
AVERAGE SPEED (MPH)		55.91	56.01		54.61	54.61		54.48	54.48		0	0		0	0		0	0	0
STANDARD DEVIATION		6.170	6.290		4.313	4.313		6.802	6.802		0	0		0	0		0	0	0
24 MPH		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
34 MPH		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
44 MPH		0	0		0	0		0	0		0	0		0	0		0	0	0
49 MPH		0	0		0	0		0	0		0	0		0	0		0	0	0
54 MPH		0	0		0	0		0	0		0	0		0	0		0	0	0
59 MPH		0	0		0	0		0	0		0	0		0	0		0	0	0
64 MPH		0	0		0	0		0	0		0	0		0	0		0	0	0
69 MPH		0	0		0	0		0	0		0	0		0	0		0	0	0
74 MPH		0	0		0	0		0	0		0	0		0	0		0	0	0
79 MPH		0	0		0	0		0	0		0	0		0	0		0	0	0
84 MPH		0	0		0	0		0	0		0	0		0	0		0	0	0
89 MPH		0	0		0	0		0	0		0	0		0	0		0	0	0
DIRECTION NB																			
NUMBER OF VEHICLES		135	128		7	7		79	79		0	0		0	0		0	0	0
AVERAGE SPEED		55.86	56.04		52.57	52.57		54.41	54.41		0	0		0	0		0	0	0
DIRECTION SB																			
NUMBER OF VEHICLES		108	97		11	11		102	102		0	0		0	0		0	0	0
AVERAGE SPEED		55.97	55.98		55.91	55.91		54.53	54.53		0	0		0	0		0	0	0

TABLE A25 SPEED DATA Every 2nd Vehicle

STATION 2L-37 HIGHWAY US 231 LOCATION 0.6 miles north of SR 16

NO. OF LANES 2 TYPE OF SURFACE Blacktop WEATHER Cloudy

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

DATE 3-20-80
TIME 9:45 AM - 1:05 PM

OBSERVATION	PASSENGER CARS			NON-INDIANA			TRUCKS		
	ALL	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST
NUMBER OF VEHICLES	288	288	0	8	0	144	0	80	0
AVERAGE SPEED (MPH)	55.90	55.82	0	57.50	0	54.56	0	55.01	0
STANDARD DEVIATION	5.881	5.862	0	6.719	0	6.342	0	6.415	0
24 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	0	0
39 MPH	7	7	0	0	0	0	0	0	0
44 MPH	23	23	0	12	0	2	0	5	0
49 MPH	13	13	0	12	0	6	0	18	0
54 MPH	36	36	0	25	0	18	0	43	0
59 MPH	75	75	0	50	0	45	0	73	0
64 MPH	94	94	0	87	0	96	0	95	0
69 MPH	98	98	0	100	0	100	0	100	0
74 MPH	99	99	0	100	0	100	0	100	0
79 MPH	100	100	0	100	0	100	0	100	0
84 MPH	100	100	0	100	0	100	0	100	0
89 MPH	100	100	0	100	0	100	0	100	0
DIRECTION NB									
NUMBER OF VEHICLES	153	149	0	4	0	69	0	37	0
AVERAGE SPEED	56.22	56.09	0	61.25	0	54.67	0	54.97	0
DIRECTION SB									
NUMBER OF VEHICLES	135	131	0	4	0	75	0	43	0
AVERAGE SPEED	55.53	55.58	0	53.75	0	54.45	0	55.75	0

TABLE A26 SPEED DATA Every 2nd Vehicle

STATION UI-04 HIGHWAY I-65 LOCATION Just east of White River WEATHER Cloudy

NO. OF LANES 6 TYPE OF SURFACE Concrete

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

DATE 4-10-80

TIME 12:00 - 1:10 PM EB

10:30 - 11:10 AM WB

	OBSERVATION	LAST	PASSENGER CARS		NON-INDIANA		ALL		TRUCKS	
			ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST
NUMBER OF VEHICLES			307		251		129		61	
AVERAGE SPEED (MPH)			58.00		57.65		55.94		56.52	
STANDARD DEVIATION			4.466		4.288		4.682		5.111	
PERCENT										
OF										
VEHICLES			2.3		2.8		5.8		1.6	
TRAVELING			18.2		19.5		35.2		31.1	
AT OR			68.1		71.3		79.2		75.4	
LESS THAN			93.2		94.4		95.8		91.8	
			98.7		99.2		99.2		98.4	
			99.7		100.0		100.0		100.0	
			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	EB									
NUMBER OF VEHICLES			161		138		54		28	
AVERAGE SPEED			58.20		58.03		56.98		58.29	
DIRECTION	WB									
NUMBER OF VEHICLES			146		113		66		33	
AVERAGE SPEED			57.77		57.19		55.09		55.83	

TABLE__A27_SPEED DATA Every 2nd Vehicle

STATION UI-Q7 HIGHWAY I-70 LOCATION 0.7 miles east of West leg of I-465

NO. OF LANES 6
TYPE (F SURFACE) Cement
WEATHER Cloudy

THIS OBSERVATION

DATE 3-25-80
TIME 11:20 AM - 12:00 PM FB
1:30 - 2:20 PM WB

OBSERVATION	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-
NUMBER OF VEHICLES	246	199			47			175			123	
AVERAGE SPEED (MPH)	58.08	58.22			57.51			57.70			57.48	
STANDARD DEVIATION	4.388	4.536			3.688			4.883			4.781	
24 MPH	0	0			0			0			0	
29 MPH	0	0			0			0			0	
34 MPH	0	0			0			0			0	
39 MPH	0	0			0			0			0	
44 MPH	8	1			0			6			3	
49 MPH	1.6	2			0			4.0			3.5	
54 MPH	18.3	17.6			21.3			24.2			23.5	
59 MPH	65.9	62.3			80.9			63.4			65.3	
64 MPH	94.7	94.5			95.7			93.7			95.3	
69 MPH	58.8	59.0			97.9			98.9			99.3	
74 MPH	99.6	99.5			100.0			100.0			100.0	
79 MPH	100.0	100.0			100.0			100.0			100.0	
84 MPH	100.0	100.0			100.0			100.0			100.0	
89 MPH	100.0	100.0			100.0			100.0			100.0	
DIRECTION	ER											
NUMBER OF VEHICLES	121	96			25			90			67	
AVERAGE SPEED	58.40	58.25			58.96			57.76			57.31	
DIRECTION	WB											
NUMBER OF VEHICLES	125	103			23			85			57	
AVERAGE SPEED	57.78	58.18			55.86			57.64			57.23	

TABLE_A28_SPEED DATA	Every 2nd Vehicle
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100	100

STATION_RIAL-----
HIGHWAY_Rural_Interstate_LOCATION_See_Individual_Station

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

[illegible]

DATE	TIME	DATE	TIME
Jan-Mar. 1980			

OBSERVATION	PASSENGER CARS		INDIANA		NON-INDIANA		ALL		TRUCKS	
	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI
NUMBER OF VEHICLES	496	262	0	234	0	352	0	87	0	265
AVE. SPEED (MPH)	58.61	58.35	0	58.91	0	58.26	0	57.60	0	58.47
STANDARD DEVIATION	4.458	4.243	0	4.680	0	4.771	0	4.533	0	4.835
24 MPH	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0	0	0
49 MPH	2.0	1.5	0	2.6	0	2.8	0	1.1	0	4
54 MPH	15.3	15.6	0	15.0	0	21.3	0	23.0	0	20.3
59 MPH	64.3	66.8	0	61.5	0	60.2	0	66.7	0	58.1
64 MPH	90.1	91.6	0	88.5	0	91.8	0	94.3	0	90.9
69 MPH	98.4	99.2	0	97.4	0	98.3	0	98.9	0	98.1
74 MPH	99.8	99.6	0	100.0	0	99.7	0	100.0	0	99.6
79 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
94 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
99 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
104 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
109 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
114 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
119 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
124 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
129 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
134 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
139 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
144 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
149 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
154 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
159 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
164 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
169 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
174 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
179 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
184 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
189 MPH	100.0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

TABLE A29SPEED DATA Every 2nd Vehicle

STATION 41ALL HIGHWAY 4-lane LOCATION See Individual Station

NO. OF LANES TYPE CF SURFACE WEATHER

THIS OBSERVATION DATE Jan - Mar 1980

DATE TIME

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

	OBSERVATION	PASSENGER CARS				NON-INDIANA				ALL				TRUCKS			
		INDIANA		PRES-		INDIANA		PRES-		INDIANA		PRES-		INDIANA		PRES-	
		LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES		536		445		91		310		0		0		0		0	
AVE. SPEED (MPH)		56.26		55.82		58.41		55.34		0		0		0		0	
STANDARD DEVIATION		4.938		4.844		4.858		5.878		0		0		0		0	
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		2		2		0		1.3		0		0		0		0	
44 MPH		2.1		2.5		0		4.2		0		0		0		0	
49 MPH		2.3		8.5		1.1		15.8		0		0		0		0	
54 MPH		33.8		36.9		18.7		36.8		0		0		0		0	
59 MPH		76.1		79.6		59.3		79.0		0		0		0		0	
64 MPH		96.1		97.1		91.2		95.8		0		0		0		0	
69 MPH		99.1		99.6		96.7		100.0		0		0		0		0	
74 MPH		99.8		100.0		98.9		100.0		0		0		0		0	
79 MPH		100.0		100.0		100.0		100.0		0		0		0		0	
84 MPH		100.0		100.0		100.0		100.0		0		0		0		0	
89 MPH		100.0		100.0		100.0		100.0		0		0		0		0	
PERCENT																	
CF																	
VEHICLES																	
TRAVELING																	
AT CR																	
LESS THAN																	

TABLE A30 SPEED DATA Every 2nd Vehicle

STATION 21ALE HIGHWAY 2-lane LOCATION See Individual Station WEATHER
 NC. OF LANES TYPE 1CF SURFACE
 THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
 DATE Jan - Mar 1980
 TIME

OBSERVATION	PASSENGER CARS			TRUCKS		
	INDIANA			<5000 LBS		
	ALL	INDIANA	NON-INDIANA	ALL	<5000 LBS	>5000 LBS
NUMBER OF VEHICLES	LAST	ENT	LAST	LAST	ENT	LAST
AVE. SPEED (MPH)	ENT	ENT	ENT	ENT	ENT	ENT
STANDARD DEVIATION	ENT	ENT	ENT	ENT	ENT	ENT
PERCENT	ENT	ENT	ENT	ENT	ENT	ENT
OF	ENT	ENT	ENT	ENT	ENT	ENT
VEHICLES	ENT	ENT	ENT	ENT	ENT	ENT
TRAVELING	ENT	ENT	ENT	ENT	ENT	ENT
AT CR	ENT	ENT	ENT	ENT	ENT	ENT
LESS THAN	ENT	ENT	ENT	ENT	ENT	ENT
24 MPH	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0
49 MPH	0	0	0	0	0	0
54 MPH	0	0	0	0	0	0
59 MPH	0	0	0	0	0	0
64 MPH	0	0	0	0	0	0
69 MPH	0	0	0	0	0	0
74 MPH	0	0	0	0	0	0
79 MPH	0	0	0	0	0	0
84 MPH	0	0	0	0	0	0
89 MPH	0	0	0	0	0	0

TABLE A31.1 SPEED DATA Every 2nd Vehicle

STATION U1ALL HIGHWAY Urban Interstate LOCATION See Individual Station

NO. OF LANES TYPE CF SURFACE WEATHER

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

DATE Jan - Mar 1980

TIME

	OBSERVATION	ALL			PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
		LAST	ENI	PRES	LAST	ENI	PRES	LAST	ENI	PRES	LAST	ENI	PRES	LAST	ENI	PRES
NUMBER OF VEHICLES		C	553		C	450		C	103		C	295		C	116	
AVE. SPEED (MPH)		C	58.03		C	57.90		C	58.61		C	56.98		C	57.30	
STANDARD DEVIATION		C	4.428		C	4.403		C	4.510		C	4.871		C	5.155	
24 MPH		C	0		C	0		C	0		C	0		C	0	
29 MPH		C	0		C	0		C	0		C	0		C	0	
34 MPH		C	0		C	0		C	0		C	0		C	0	
39 MPH		C	0		C	0		C	0		C	0		C	0	
44 MPH		C	5		C	7		C	0		C	7		C	9	
49 MPH		C	2.0		C	2.4		C	0		C	4.7		C	5.2	
54 MPH		C	18.3		C	18.7		C	16.5		C	28.5		C	28.4	
59 MPH		C	67.1		C	67.3		C	66.0		C	69.8		C	67.2	
64 MPH		C	93.9		C	94.4		C	91.3		C	94.6		C	93.3	
69 MPH		C	98.7		C	99.1		C	97.1		C	99.0		C	98.3	
74 MPH		C	99.6		C	99.8		C	99.0		C	100.0		C	100.0	
79 MPH		C	100.0		C	100.0		C	100.0		C	100.0		C	100.0	
84 MPH		C	100.0		C	100.0		C	100.0		C	100.0		C	100.0	
89 MPH		C	100.0		C	100.0		C	100.0		C	100.0		C	100.0	

PERCENT
CF
VEHICLES
TRAVELING
AT OR
LESS THAN

TABLE A32--SPEED DATA Every 2nd Vehicle

STATION ALL HIGHWAY Indiana System LOCATION See Individual Station
 NO. OF LANES TYPE OF SURFACE WEATHER
 THIS OBSERVATION
 DATE Jan 1980
 TIME

LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

OBSERVATION	LAST	PASSENGER CARS		NON-INDIANA		ALL		TRUCKS		PRES	PRES	PRES
		ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST			
NUMBER OF VEHICLES	2116	1662	454	58.54	0	1282	0	531	0	5000	5000	LES
AVERAGE SPEED (MPH)	57.18	56.81	58.54	58.54	0	56.31	0	55.80	0	55.80	55.80	LES
STANDARD DEVIATION	5.127	5.163	4.758	4.758	0	5.762	0	5.509	0	5.509	5.509	LES
24 MPH	0	0	0	0	0	0	0	0	0	0	0	LES
29 MPH	0	0	0	0	0	0	0	0	0	0	0	LES
34 MPH	0	0	0	0	0	0	0	0	0	0	0	LES
39 MPH	0	0	0	0	0	0	0	0	0	0	0	LES
44 MPH	0	0	0	0	0	0	0	0	0	0	0	LES
49 MPH	0	0	0	0	0	0	0	0	0	0	0	LES
54 MPH	0	0	0	0	0	0	0	0	0	0	0	LES
59 MPH	0	0	0	0	0	0	0	0	0	0	0	LES
64 MPH	0	0	0	0	0	0	0	0	0	0	0	LES
69 MPH	0	0	0	0	0	0	0	0	0	0	0	LES
74 MPH	0	0	0	0	0	0	0	0	0	0	0	LES
79 MPH	0	0	0	0	0	0	0	0	0	0	0	LES
84 MPH	0	0	0	0	0	0	0	0	0	0	0	LES
89 MPH	0	0	0	0	0	0	0	0	0	0	0	LES

TABLE A33

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	INTERSTATE, RURAL
STATION NUMBER	RI-6
LOCATION	1-65 7.5 Miles North of SR 160
NUMBER OF SESSIONS	1
DATES	3-27-80
VEHICLES MEASURED	424
AVERAGE SPEED (MPH)	58.8
STANDARD DEVIATION	3.9
MEDIAN SPEED (MPH)	58.5
85TH PERCENTILE SPEED (MPH)	62.3
PERCENTAGE OF VEHICLES EXCEEDING:	
55 MPH	81
45 MPH	34
65 MPH	4

TABLE A34

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, RURAL
 STATION NUMBER R1-21 LOCATION I-69 1.6 Miles South of SR 18
 NUMBER OF SESSIONS 1 DATES 3-3-80, 4-3-80 VEHICLES MEASURED 427
 AVERAGE SPEED (MPH) 58.6 STANDARD DEVIATION 4.6
 MEDIAN SPEED (MPH) 57.8 85TH PERCENTILE SPEED (MPH) 62.8
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 75 60 MPH 30 65 MPH 7

TABLE A35

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	INTERSTATE	RURAL			
STATION NUMBER	RI-30	LOCATION	1-65 2.15 Miles North of SR 14		
NUMBER OF SESSIONS	1	DATES	3-31-80	VEHICLES MEASURED	412
AVERAGE SPEED (MPH)	59.9	STANDARD DEVIATION	4.3		
MEDIAN SPEED (MPH)	59.0	85TH PERCENTILE SPEED (MPH)	63.6		
PERCENTAGE OF VEHICLES EXCEEDING:					
55 MPH	89	60 MPH	43	65 MPH	9

TABLE A36

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY INTERSTATE, RURAL
 STATION NUMBER RI-36 LOCATION I-74 3.01 Miles East of US 231 1/2 HR interval
 NUMBER OF SESSIONS 1 DATES 4-1-80 VEHICLES MEASURED 421
 AVERAGE SPEED (MPH) 57.2 STANDARD DEVIATION 4.0
 MEDIAN SPEED (MPH) 57.1 85TH PERCENTILE SPEED (MPH) 61.4
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 75 60 MPH 23 65 MPH 4

TABLE A38

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	MULTI-LANE DIVIDED RURAL
STATION NUMBER	4L-32 LOCATED ON US 30 2.9 Miles West of Wanatah City Limit Sign
NUMBER OF SESSIONS	1 DATES 4-11-80 VEHICLES MEASURED 427
AVERAGE SPEED (MPH)	56.3 STANDARD DEVIATION 4.1
MEDIAN SPEED (MPH)	55.8 85TH PERCENTILE SPEED (MPH) 59.6
PERCENTAGE OF VEHICLES EXCEEDING:	
55 MPH	58.1 60 MPH 13.2 65 MPH 2.2

TABLE A39

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY MULTI-LANE DIVIDED (RURAL)
 STATION NUMBER 41-5 LOCATION SR 63 0.6 Miles South of SR 163
 NUMBER OF SESSIONS 1 DATES 4-4-80 VEHICLES MEASURED 426
 AVERAGE SPEED (MPH) 56.6 STANDARD DEVIATION 5.2
 MEDIAN SPEED (MPH) 56.4 85TH PERCENTILE SPEED (MPH) 61.0
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 62 60 MPH 20 65 MPH 3

TABLE A40

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY -----MULTI-LANE, DIVIDED (RURAL)-----
 STATION NUMBER 41-30 LOCATION US 30 2.1 Miles East of US 31-----
 NUMBER OF SESSIONS 1 DATES 3-19-80 VEHICLES MEASURED 423--
 AVERAGE SPEED (MPH) 56.8 STANDARD DEVIATION 4.3--
 MEDIAN SPEED (MPH) 56.5 85TH PERCENTILE SPEED (MPH) 60.4--
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH -----66-----19-----65 MPH -----1-----

TABLE A41

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY ----- TWO-LANE, RURAL -----
 STATION NUMBER 21-18 LOCATION US 35 2.5 Miles East of I-69 -----
 NUMBER OF SESSIONS 1 DATES 4-3-80 ----- VEHICLES MEASURED 432 -----
 AVERAGE SPEED (MPH) 54.7 ----- STANDARD DEVIATION 5.2 -----
 MEDIAN SPEED (MPH) 53.5 ----- 85TH PERCENTILE SPEED (MPH) 59.3 -----
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH ----- 44 ----- 60 MPH ----- 12 ----- 65 MPH ----- 1 -----

TABLE A42

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY TWO-LANE RURAL
 STATION NUMBER 21-54 LOCATION US 231 1.1 Miles South of SR 234
 NUMBER OF SESSIONS 1 DATES 3-6-80 VEHICLES MEASURED 421
 AVERAGE SPEED (MPH) 56.0 STANDARD DEVIATION 5.9
 MEDIAN SPEED (MPH) 55.9 85TH PERCENTILE SPEED (MPH) 60.8
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 58. 60 MPH 19. 65 MPH 4.

TABLE A43

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY TWO-LANE RURAL
 STATION NUMBER 2L-37 LOCATION US 231 0.6 Miles North of SR 16
 NUMBER OF SESSIONS 1 DATES 3-20-80 VEHICLES MEASURED 435
 AVERAGE SPEED (MPH) 54.9 STANDARD DEVIATION 5.9
 MEDIAN SPEED (MPH) 54.4 85TH PERCENTILE SPEED (MPH) 60.3
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 44 60 MPH 17 65 MPH 3

TABLE A44

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	--- TWO-LANE ---	RURAL	-----
STATION NUMBER	21-51	LOCATION	US 231 5.55 Miles North of SR 56
NUMBER OF SESSIONS	1	DATES	3-26-80
		VEHICLES MEASURED	432
AVERAGE SPEED (MPH)	57.1	STANDARD DEVIATION	5.1
MEDIAN SPEED (MPH)	56.2	85TH PERCENTILE SPEED (MPH)	61.1
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH	----	60 MPH	----
	64	65 MPH	----
	20		6

TABLE A45

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	INTERSTATE	URBAN			
STATION NUMBER	UI-6	LOCATION	I-65 Just East of White River		
NUMBER OF SESSIONS	1	DATES	4-10-80	VEHICLES MEASURED	428
AVERAGE SPEED (MPH)	58.1	STANDARD DEVIATION	4.7		
MEDIAN SPEED (MPH)	57.4	85TH PERCENTILE SPEED (MPH)	61.6		
PERCENTAGE OF VEHICLES EXCEEDING:					
55 MPH	74	60 MPH	28	65 MPH	6

TABLE A46

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY ----- INTERSTATE ----- URBAN -----
 STATION NUMBER U2-07 LOCATION I-70 0.7 Miles East of West Leg of I-465
 NUMBER OF SESSIONS 1 DATES 3-25-80 ----- VEHICLES MEASURED 424 --
 AVERAGE SPEED (MPH) 57.9 ----- STANDARD DEVIATION 4.6 --
 MEDIAN SPEED (MPH) 57.2 ----- 85TH PERCENTILE SPEED (MPH) 61.7 --
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH ----- 72 ----- 60 MPH ----- 27 ----- 65 MPH ----- 4 -----

TABLE A47

SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY ----- INTERSTATE, RURAL -----
 STATION NUMBER RI-21 LOCATION I-69 - 1.6 Miles South of SR 18 -----
 NUMBER OF SESSIONS 1 DATES 3-3-80 ----- VEHICLES MEASURED 426 --
 AVERAGE SPEED (MPH) 58.5 -- STANDARD DEVIATION 4.9 --
 MEDIAN SPEED (MPH) 57.8 -- 85TH PERCENTILE SPEED (MPH) 62.6 --
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH ----- 76.2 ----- 31.2 ----- 65 MPH ----- 8.2 -----

TABLE A48

SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY ----- INTERSTATE, RURAL -----
 STATION NUMBER_R1:36 LOCATION_I-74 - 3.01 Miles East of US_231 1/2 HR Intervals
 NUMBER OF SESSIONS_1_DATES_4-1-80----- VEHICLES MEASURED_422--
 AVERAGE SPEED (MPH) _58.4_ STANDARD DEVIATION _4.3_
 MEDIAN SPEED (MPH) _57.8_ 85TH PERCENTILE SPEED (MPH) _62.0_
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH ----- 75----- 60 MPH ----- 28----- 65 MPH ----- 5-----

TABLE' A49

SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY -----MULTI-LANE, DIVIDED (RURAL)-----
 STATION NUMBER 44-17 LOCATION US 52 -- Just East of CQ RD 475 W, Near Klondike
 NUMBER OF SESSIONS 1 DATES 4-7-80-----VEHICLES MEASURED 422--
 AVERAGE SPEED (MPH) 55.2-- STANDARD DEVIATION 5.5--
 MEDIAN SPEED (MPH) 55.4-- 85TH PERCENTILE SPEED (MPH) 59.9--
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH -----54.2-----60 MPH -----14.2-----65 MPH -----1.2-----

TABLE' A50

SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY -----MULTI-LANE, DIVIDED (RURAL)-----
 STATION NUMBER 41-05 LOCATION SR-63 --.6 Miles South of SB-163-----
 NUMBER OF SESSIONS 1 DATES 4-4-80-----VEHICLES MEASURED 424--
 AVERAGE SPEED (MPH) 56.6-- STANDARD DEVIATION 5.0--
 MEDIAN SPEED (MPH) 56.2-- 85TH PERCENTILE SPEED (MPH) 60.9--
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH -----61.2-----60 MPH -----18.2-----65 MPH -----4.2-----

TABLE A51

SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY	TWO-LANE RURAL		
STATION NUMBER	21-54	LOCATION	US 231 - 1.1 Miles South of SR 234
NUMBER OF SESSIONS	1	DATES	3-6-80
	VEHICLES MEASURED 424		
AVERAGE SPEED (MPH)	55.3	STANDARD DEVIATION	6.5
MEDIAN SPEED (MPH)	54.6	85TH PERCENTILE SPEED (MPH)	60.7
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH	48	60 MPH	18
		65 MPH	6

TABLE A52

SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY TWO-LANE RURAL
 STATION NUMBER 21-37 LOCATION US 231 6 Miles North of SR 16
 NUMBER OF SESSIONS 1 DATES 3-20-80 VEHICLES MEASURED 432
 AVERAGE SPEED (MPH) 55.4 STANDARD DEVIATION 6.1
 MEDIAN SPEED (MPH) 55.3 85TH PERCENTILE SPEED (MPH) 60.4
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 53 60 MPH 16 65 MPH 4

TABLE A53

SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY	INTERSTATE, URBAN		
STATION NUMBER	UI-06	LOCATION	I-65 Just East of White River
NUMBER OF SESSIONS	1	DATES	4-10-80
			VEHICLES MEASURED 427
AVERAGE SPEED (MPH)	57.4	STANDARD DEVIATION	4.6
MEDIAN SPEED (MPH)	56.7	85TH PERCENTILE SPEED (MPH)	61.3
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH	69	60 MPH	22
		65 MPH	5

TABLE A54-

SPEED MONITORING STATION SUMMARY every 2nd vehicle

HIGHWAY CATEGORY _ _ _ _ INTERSTATE _ URBAN _ _ _ _ _
 STATION NUMBER _U1-67_ LOCAT PCN _I-70 - 0.7 Miles East of West Leg of I-465
 NUMBER OF SESSIONS _1_ DATES _3-25-80_ _ _ _ _ VEHICLES MEASURED _421_ _
 AVERAGE SPEED (MPH) _57.9_ STANDARD DEVIATION _4.6_
 MEDIAN SPEED (MPH) _57.5_ 85TH PERCENTILE SPEED (MPH) _61.8_
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH _ _ _ _ _ 71.5 _ _ _ _ 60 MPH _ _ _ _ _ 28.5 _ _ _ _ 65 MPH _ _ _ _ _ 5.5 _ _ _ _

COVER DESIGN BY ALDO GIORGINI