



1973 SPEED TREND REPORT



STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
OFFICE OF TRAFFIC ENGINEERING

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of
MINNESOTA HIGHWAY DEPARTMENT

1973 SPEED TRENDS STUDY
STUDY NUMBER 316

BY

TRAFFIC CONTROL SECTION
OFFICE OF TRAFFIC ENGINEERING

In Cooperation With

U. S. DEPARTMENT OF TRANSPORTATION
Federal Highway Administration

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This report contains the 1973 tabulation and summary of highway speed trends at 15 various locations scattered throughout Minnesota.

Speed data shown in this report was obtained under the most ideal weather and road conditions. Also, the study site characteristics are better than average and tend to yield higher than average speed performance.

Sample sizes of bus speeds were so small that few conclusions could be drawn from them. Calculations were not performed on any sample of less than 10.

Station 11

The annual Fall speed check on I-35 was not taken this year. One reason was a lack of man power during the early Fall months. The second reason is than the governor asked for a voluntary speed reduction in mid November. It is felt that this would greatly influence the checks at this location.

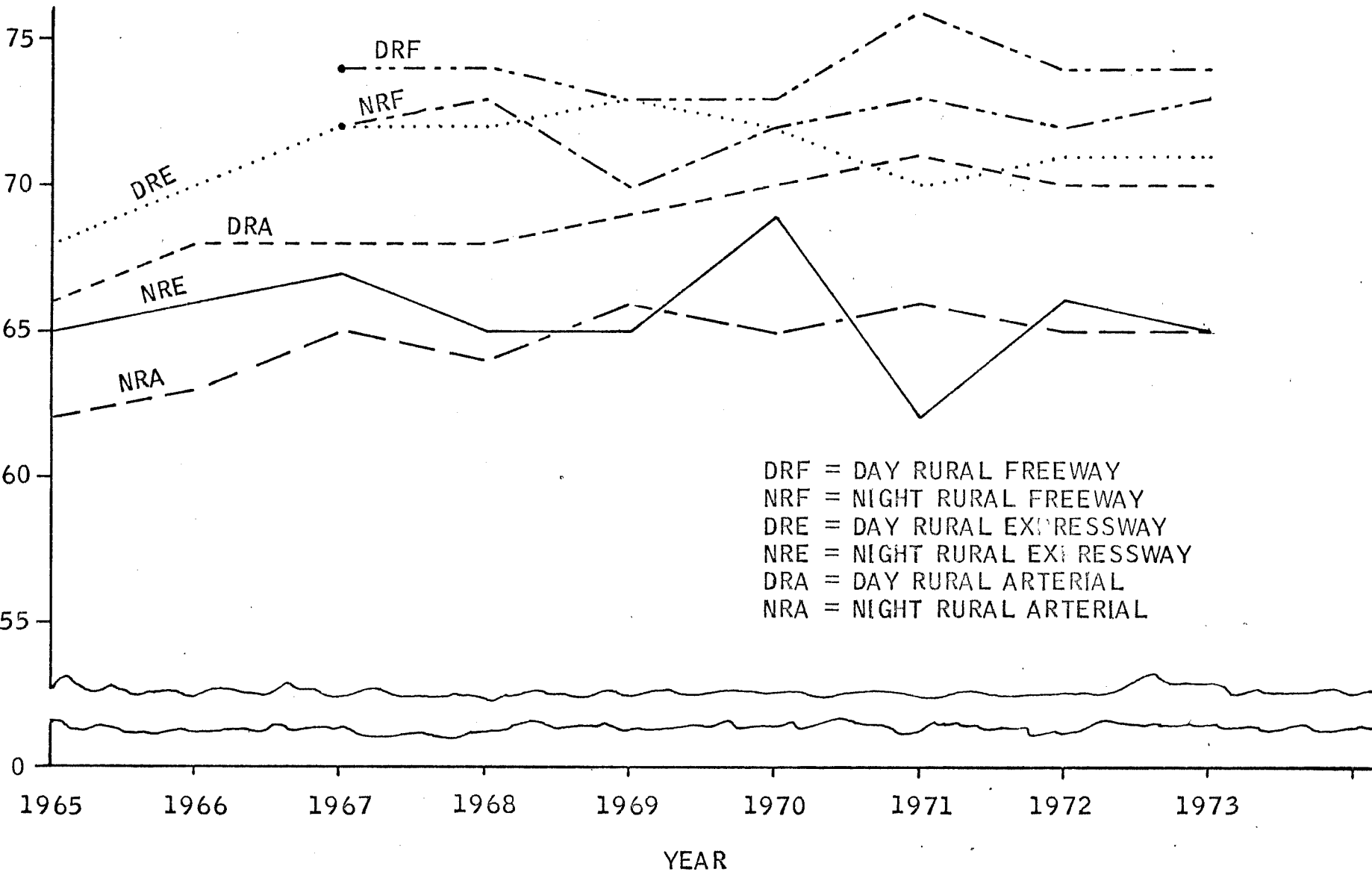
Comparison of 85th Percentile Speeds 1973

Highway Class	Station Number	Passenger Cars		Trucks	
		Day	Night	Day	Night
Suburban Freeway	51, 52, 91	72	70	65	63
Suburban Expressway	92, 93	67	62	60	57
Urban Expressway	53	65	64	61	59
Rural Freeway	11, 42, 61	74	73	67	68
Rural Expressway	41, 62	71	65	65	62
Rural Arterial	21, 31, 71, 81	70	65	65	62

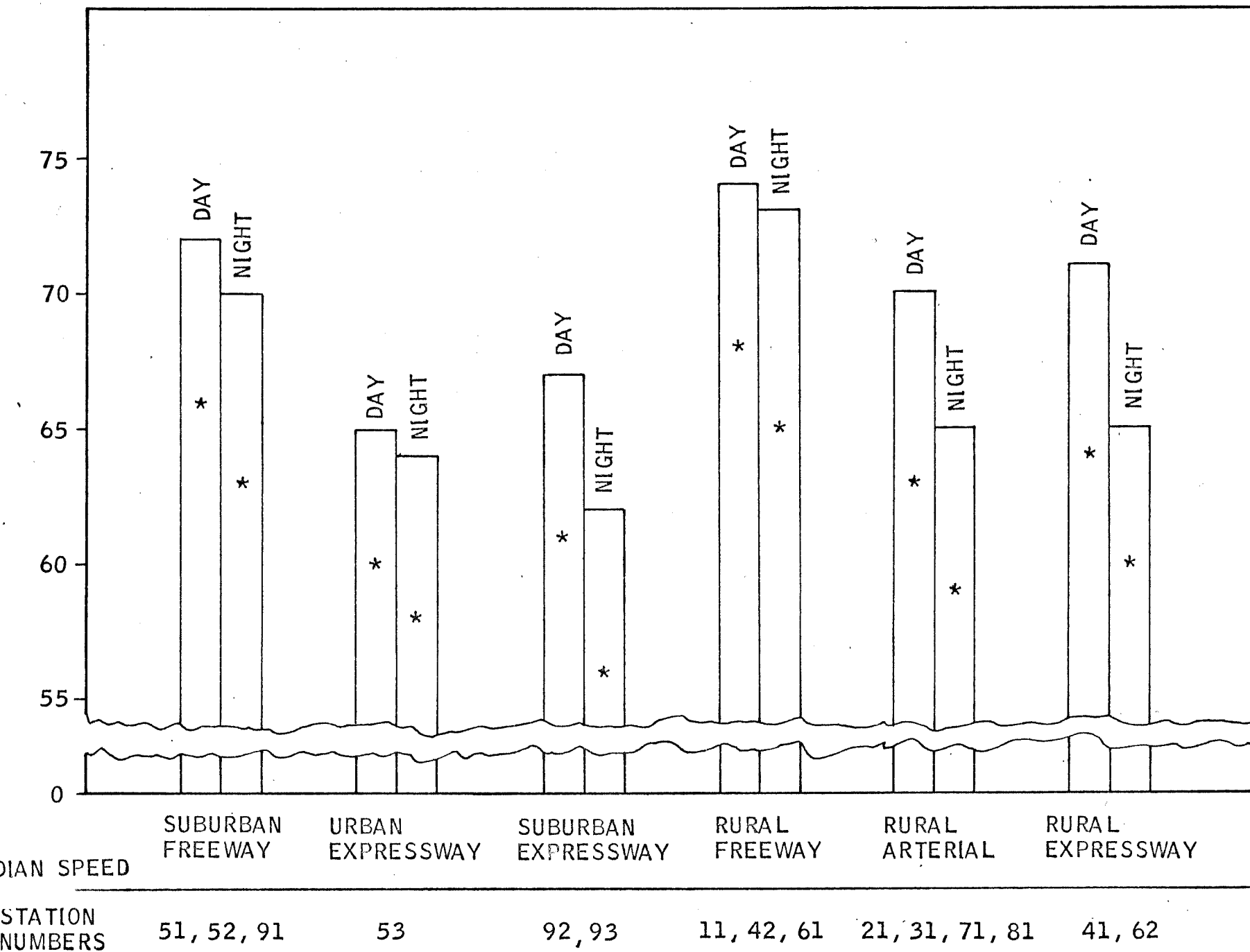
COMPARISON OF SPEED TRENDS

Rural Roadways

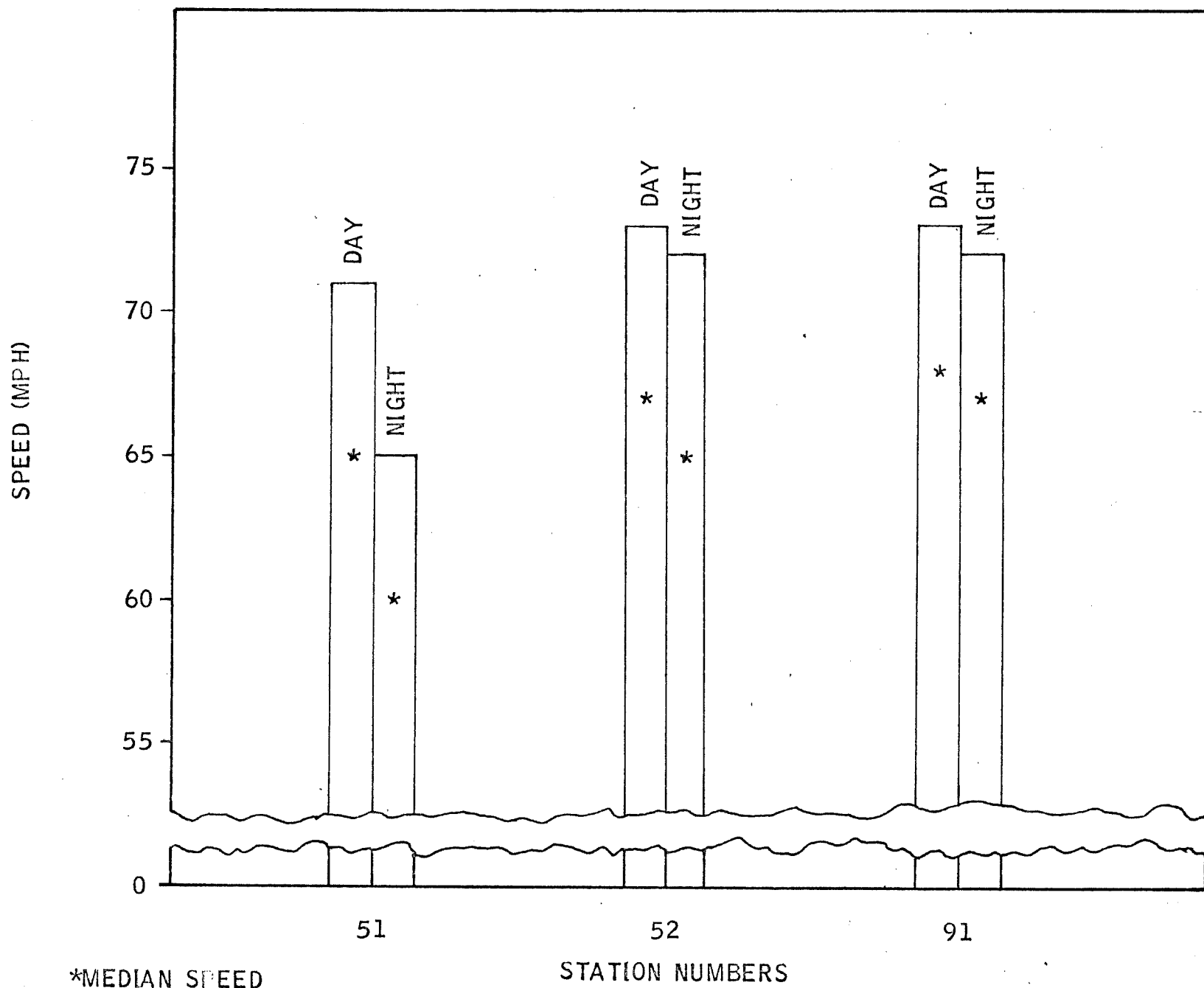
85%ile Speeds 1965 - 1973 (Pass. Cars only)



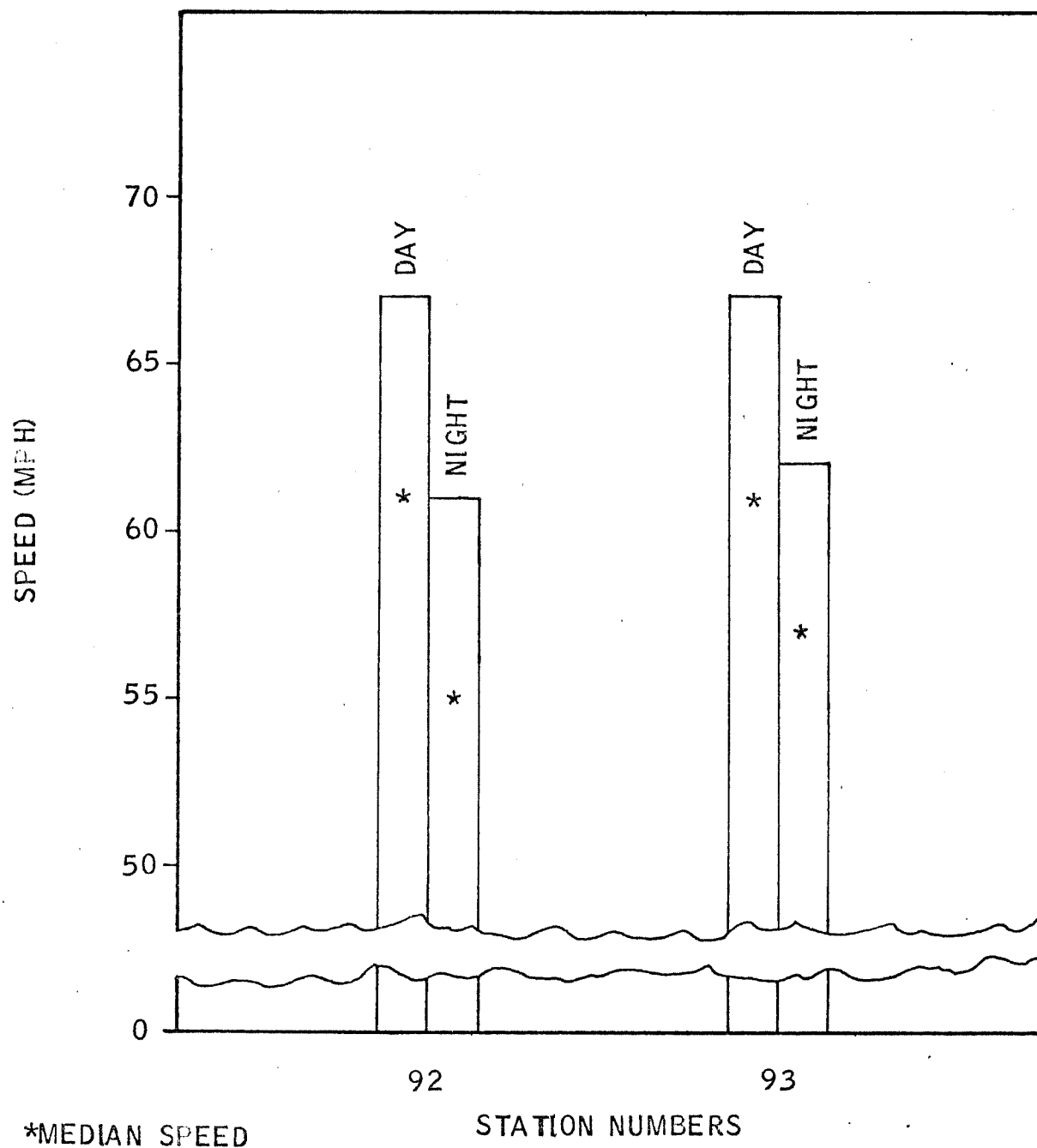
1973 SUMMARY PASSENGER VEHICLES 85TH PERCENTILE SPEEDS



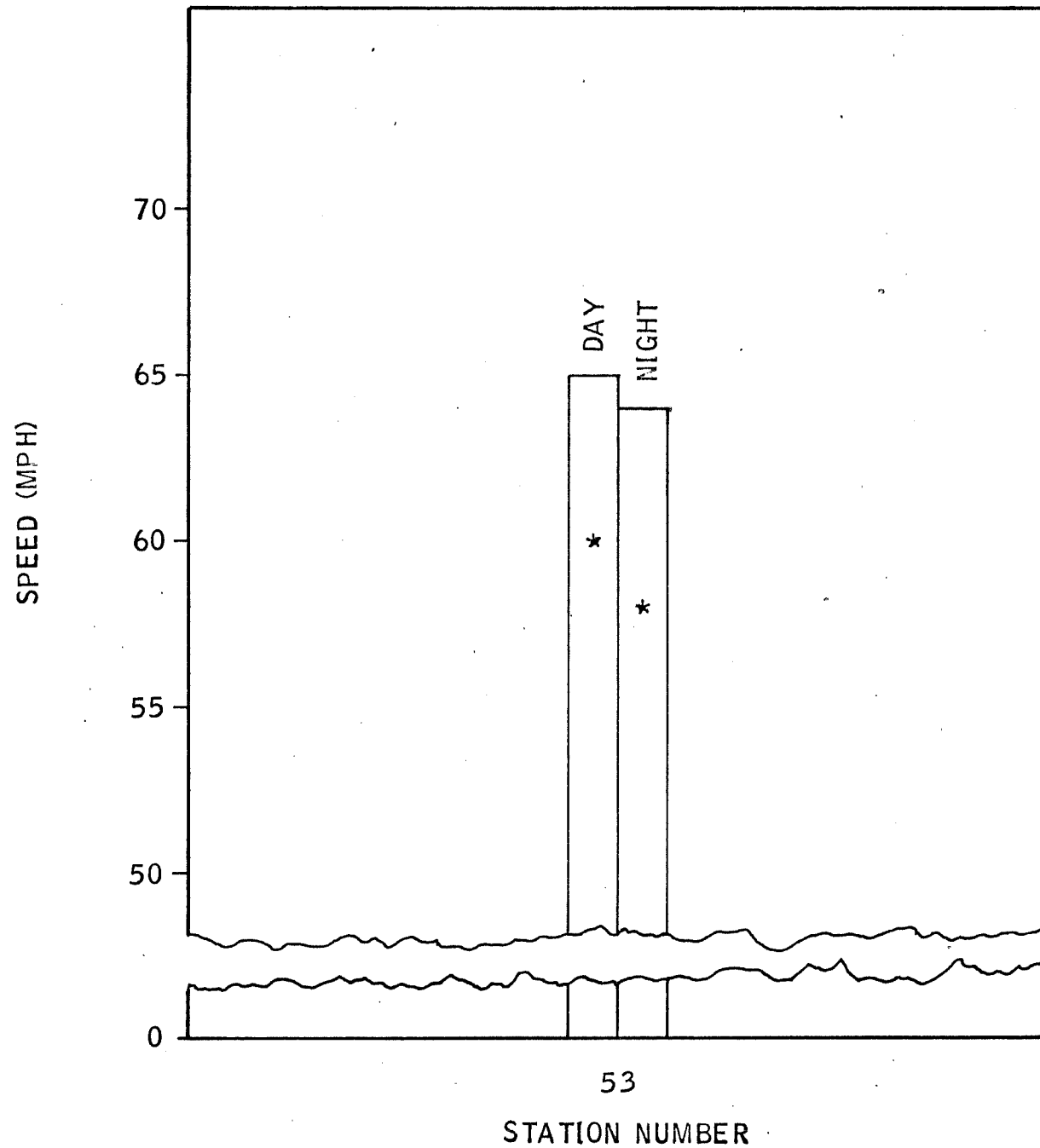
SUBURBAN FREEWAY (1973)
PASSENGER VEHICLES 85TH PERCENTILE SPEEDS



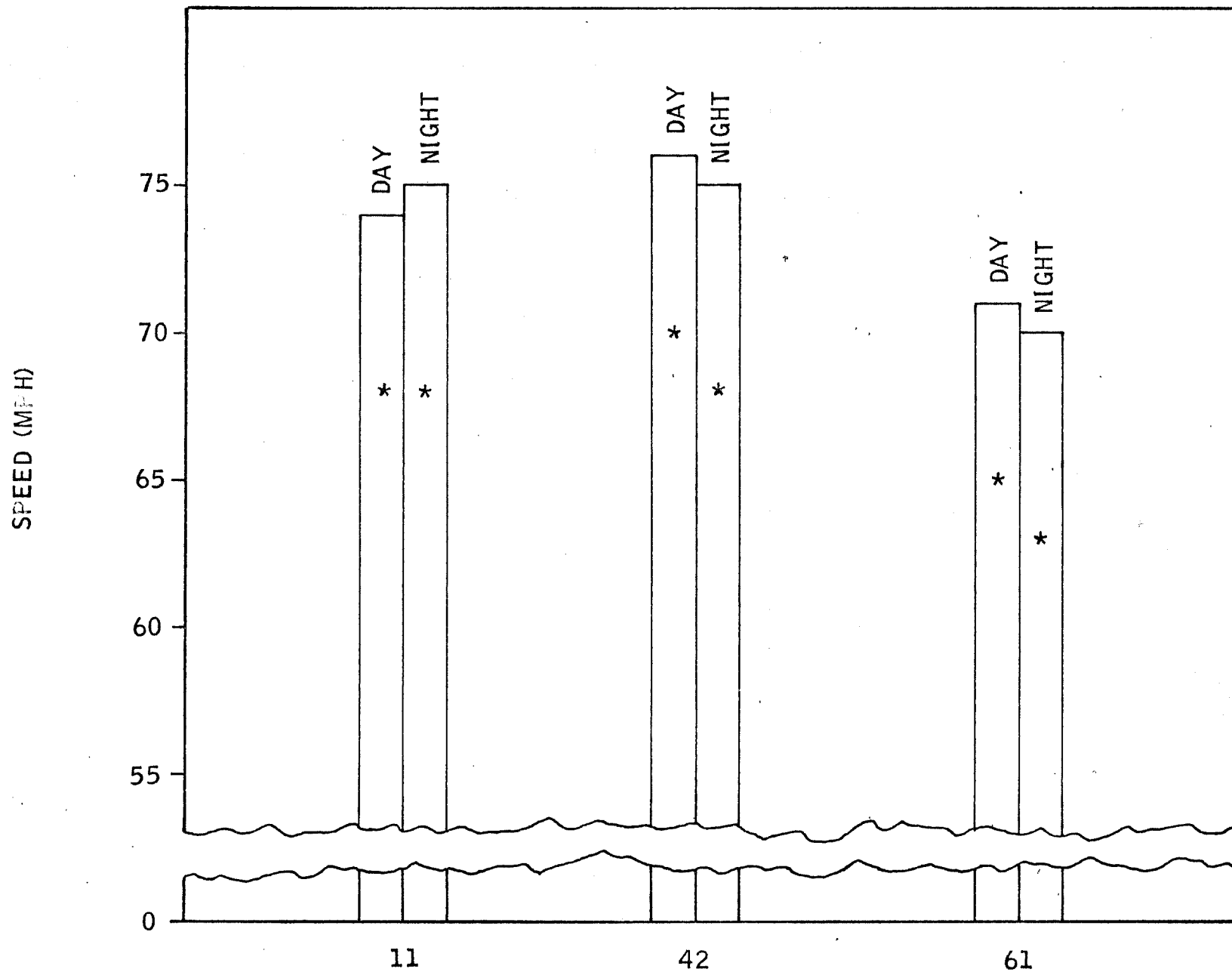
SUBURBAN EXPRESSWAY (1973)
PASSENGER VEHICLES 85TH PERCENTILE SPEEDS



URBAN EXPRESSWAY (1973)
PASSENGER VEHICLES 85TH PERCENTILE SPEEDS



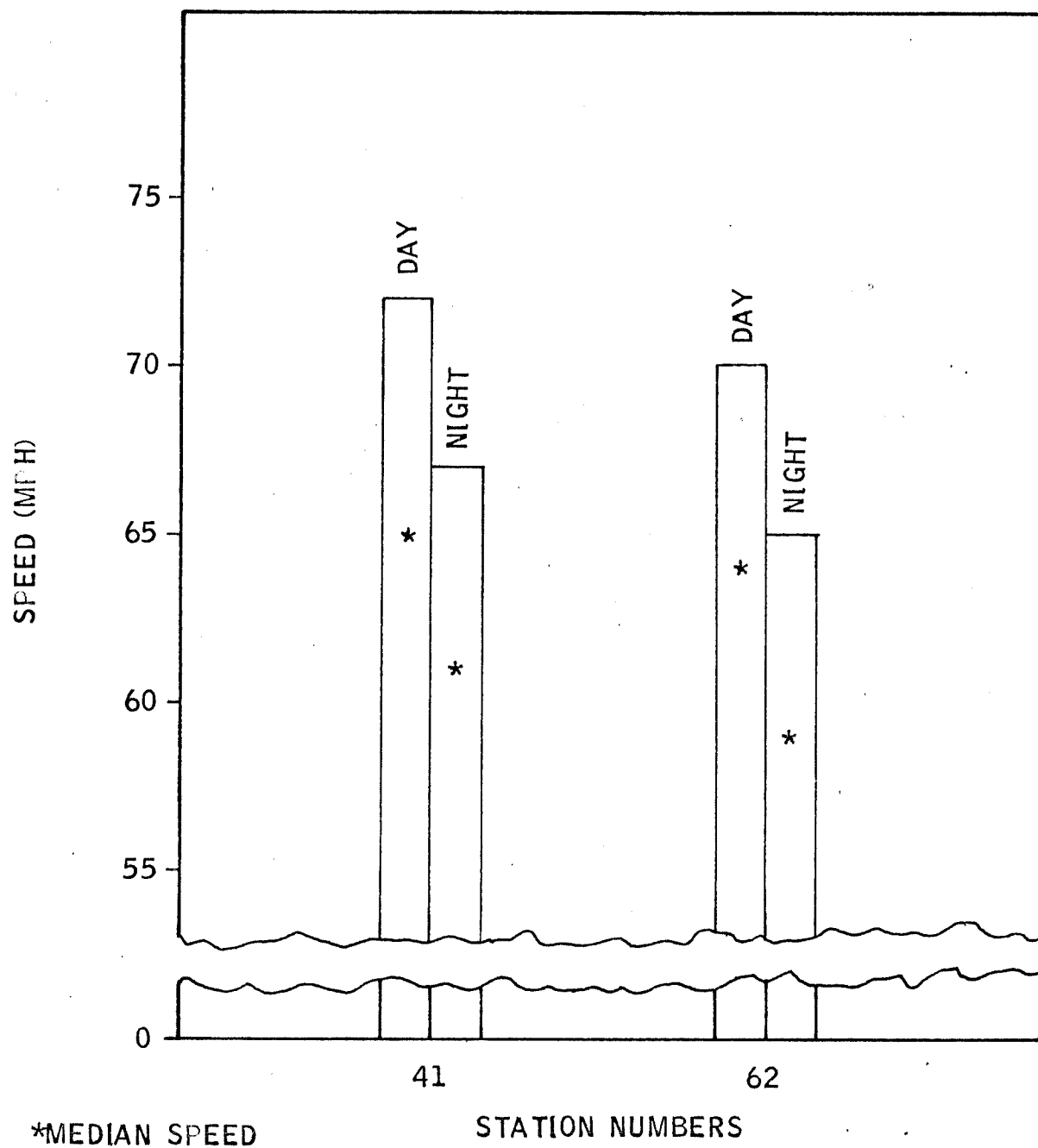
RURAL FREEWAY (1973)
PASSENGER VEHICLES 85TH PERCENTILE SPEEDS



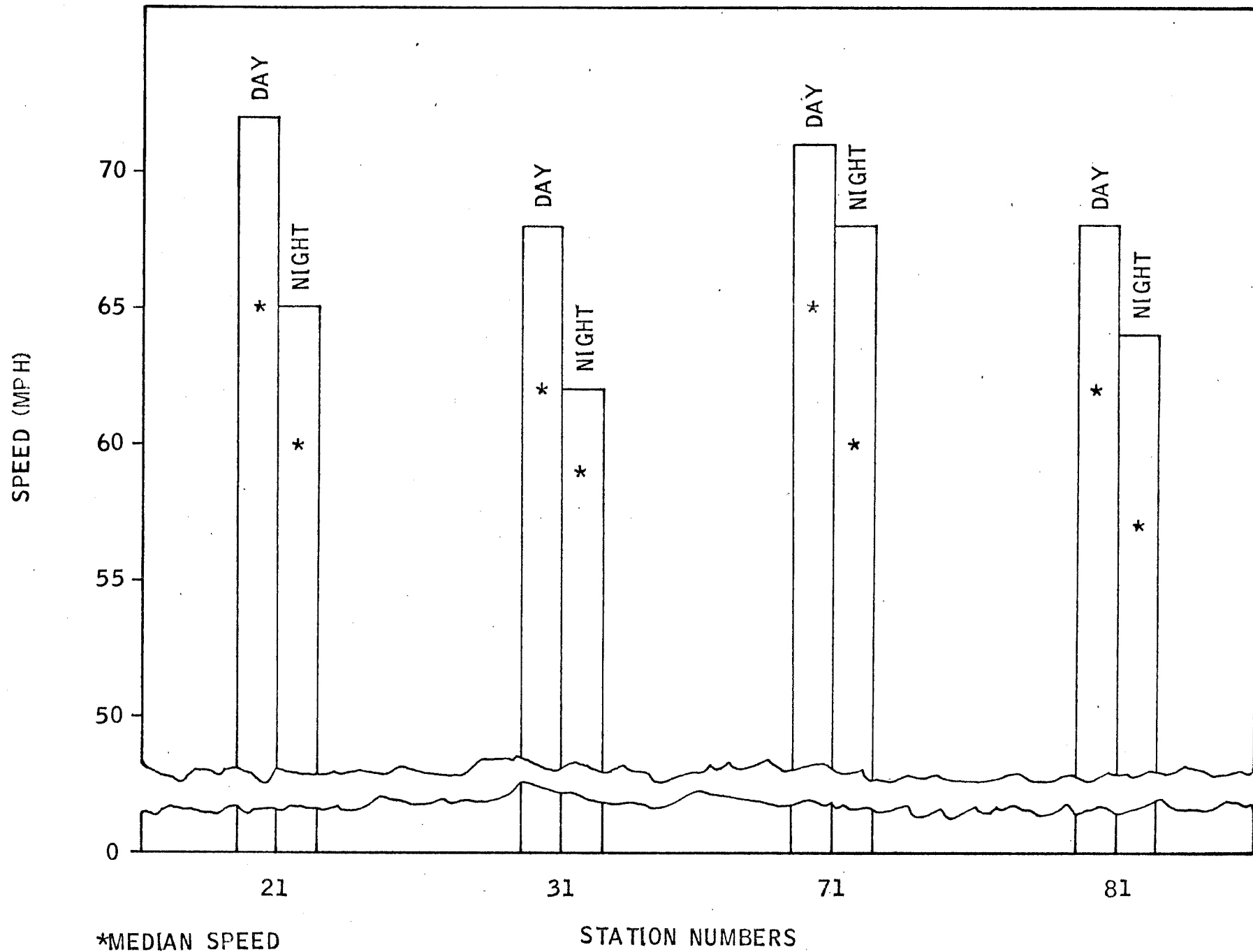
*MEDIAN SPEED

STATION NUMBERS

RURAL EXPRESSWAY (1973)
PASSENGER VEHICLES 85TH PERCENTILE SPEEDS



RURAL ARTERIAL (1973)
PASSENGER VEHICLES 85TH PERCENTILE SPEEDS



STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 11

SPEED STATION CHARACTERISTICS

SITE NO. - I-35 COUNTY - PINE CLASSIFICATION - RURAL FREEWAY
 LOCATION - 1.9 MILES SOUTH OF COUNTY ROAD 14 AT BEROUN (SOUTH-BOUND ROADWAY)
 GRADE, PERCENT AND LENGTH - NEGLIGIBLE CURVE, DEGREE AND LENGTH - NEGLIGIBLE TANGENT LENGTH - 3.0 MI.
 SURFACE TYPE - CONCRETE SURFACE WIDTH - 24 FT. SURFACE CONDITION - EXCELLENT
 SHOULDER TYPE - BITUMINOUS SHOULDER WIDTH - 10 FT. SHOULDER CONDITION - EXCELLENT
 NUMBER OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 70 NIGHT - 70 SIGHT DISTANCE - 1.9 MI.
 DATE OF INSPECTION - 6/27/73 ADT - 2525

DAY SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	921	47- 90	64-73	68	74	75
TRUCKS	131	46- 77	58-67	63	67	68

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	178	48- 87	63-72	68	75	76
TRUCKS	22	49- 76	61-70	61	67	68

NO CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

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VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 11
NIGHT SAMPLE

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	2	7	19	41
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
53	35	15	4	2	0	0	0	

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	1	3	3	9
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
5	0	1	0	0	0	0	0	

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	1	0	1
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
1	0	0	0	0	0	0	0	

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	0	0
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 21

SPEED STATION CHARACTERISTICS

T.H. NO. - T.H. 2 COUNTY - HUBBARD CLASSIFICATION - RURAL ARTERIAL
 LOCATION - 7.0 MILES EAST OF THE SOUTH JCT. WITH T.H. 71 IN BEMIDJI
 GRADE, PERCENT AND LENGTH - NEGLIGIBLE CURVE, DEGREE AND LENGTH - NEGLIGIBLE TANGENT LENGTH - 3.2 MI.
 SURFACE TYPE - BITUMINOUS SURFACE WIDTH - 24 FT. SURFACE CONDITION - GOOD
 SHOULDER TYPE - GRAVEL SHOULDER WIDTH - GOOD SHOULDER CONDITION - GOOD
 NUMBER OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 65 NIGHT - 55 SIGHT DISTANCE - 0.5 MI.
 DATE OF INSPECTION - 4/25/73 ADT - 3850

DAY SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	1286	40- 90	62-71	65	72	74
TRUCKS	571	39- 75	56-65	60	67	69

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	409	36- 78	56-65	60	65	66
TRUCKS	202	40- 80	54-63	58	65	66

NO CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

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VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 21
NIGHT SAMPLE

(TRUCKS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	1	0	19	40	84	34
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
23	0	1	0	0	0	0	0	

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STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 31

SPEED STATION CHARACTERISTICS

E NO. - T.H. 371 COUNTY - CROW WING CLASSIFICATION - RURAL ARTERIAL
 TION - 1.2 MILES SOUTH OF CSAH 27 (MP 20.77)
 E, PERCENT AND LENGTH - NEGLIGIBLE CURVE, DEGREE AND LENGTH - NEGLIGIBLE TANGENT LENGTH - 3.2 MI.
 ACE TYPE - BITUMINOUS SURFACE WIDTH - 24 FT. SURFACE CONDITION - GOOD
 LDER TYPE - BITUMINOUS SHOULDER WIDTH - 7.0 FT SHOULDER CONDITION - GOOD
 ER OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 65 NIGHT - 55 SIGHT DISTANCE - 3.2 MI.
 OF INSPECTION - 4/17/73 ADT - 2950

DAY SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	1784	40- 82	57-66	62	68	70
TRUCKS	274	42- 70	54-63	59	62	64

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	410	42- 80	53-62	59	62	65
TRUCKS	69	44- 62	52-61	58	60	61

0 CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

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20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	1	4	3	4	1
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 31
NIGHT SAMPLE

(PASSENGER CARS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	3	28	96	175	72
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
29	2	5	0	0	0	0	0	

(TRUCKS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	2	5	20	34	8
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

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STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 41

SPEED STATION CHARACTERISTICS

TE NO. - T.H. 10 COUNTY - BECKER CLASSIFICATION - RURAL EXPRESSWAY
 ATION - 1.3 MILES EAST OF AUDUBON (ON WESTBOUND ROADWAY OF DIVIDED HIGHWAY)
 DE, PERCENT AND LENGTH - NEGLIGIBLE CURVE, DEGREE AND LENGTH - NEGLIGIBLE TANGENT LENGTH - 1.0 MILE
 FACE TYPE - CONCRETE SURFACE WIDTH - 24 FT. SURFACE CONDITION - GOOD
 ULDER TYPE - BITUMINOUS SHOULDER WIDTH - 6 FT. SHOULDER CONDITION - GOOD
 BER OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 70 NIGHT - 60 SIGHT DISTANCE - 2.0 MI.
 E OF INSPECTION - 5/11/73 ADT - 2675

DAY SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	1257	45- 94	61-70	65	72	73
TRUCKS	297	44- 76	57-66	61	68	69

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	388	39- 80	57-66	61	67	69
TRUCKS	54	48- 75	58-67	60	65	67

1973 SPEED TREND

VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS STATION NO 41 DAY SAMPLE

(PASSENGER CARS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	2	48	85	201	303
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
358	203	52	3	1	1	0	0	

(TRUCKS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	3	24	32	79	95
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
57	6	1	0	0	0	0	0	

(COMMERCIAL BUSES)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	0	0
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

(SCHOOL BUSES)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	2	8	5
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
2	0	0	0	0	0	0	0	

VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 41
NIGHT SAMPLE

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	2	5	13	43	109	124
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
71	17	4	0	0	0	0	0	

AGE GROUPS								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	1	8	21	16
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
7	1	0	0	0	0	0	0	

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	0	0
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
3	0	0	0	0	0	0	0	

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	0	0
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 42

SPEED STATION CHARACTERISTICS

TE NO. - I-94 COUNTY - GRANT CLASSIFICATION - RURAL FREEWAY
 ATION - 2.04 MILES SOUTH OF OTTER TAIL - GRANT CO. LINE (EASTBOUND LANE) MP 73
 DE, PERCENT AND LENGTH - NEGLIGIBLE CURVE, DEGREE AND LENGTH - NEGLIGIBLE TANGENT LENGTH - 2.0 MI.
 FACE TYPE - CONCRETE SURFACE WIDTH - 24 FT. SURFACE CONDITION - GOOD
 ULDER TYPE - BITUMINOUS SHOULDER WIDTH - 10 FT. SHOULDER CONDITION - GOOD
 BER OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 70 NIGHT - 70 SIGHT DISTANCE - 0.7 MI.
 E OF INSPECTION - 5/14/73 ADT - 2175

DAY SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	1498	49- 89	66-75	70	76	77
TRUCKS	328	50- 75	58-67	63	68	69

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	142	53- 92	64-73	68	75	76
TRUCKS	216	49- 75	60-69	64	69	70

NO CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 42
DAY SAMPLE

(TRUCKS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	2	22	84	112
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
85	23	0	0	0	0	0	0	

(COMMERCIAL BUSES)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	0	0
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
4	4	0	0	0	0	0	0	

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STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 51

SPEED STATION CHARACTERISTICS

TE NO. - T.H. 10 COUNTY - ANOKA CLASSIFICATION - SUBURBAN FREEWAY
 ATION - 3800 FT. EAST OF T.H. 242 BRIDGE (EASTBOUND ROADWAY)
 DE, PERCENT AND LENGTH - NEGLIGIBLE CURVE, DEGREE AND LENGTH - 1988 TANGENT LENGTH - 1.5 MI.
 FACE TYPE - BITUMINOUS SURFACE WIDTH - 24 FT. SURFACE CONDITION - GOOD
 ULDER TYPE - BITUMINOUS SHOULDER WIDTH - 10 FT. SHOULDER CONDITION - GOOD
 BER OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 70 NIGHT - 60 SIGHT DISTANCE - 0.5 MI.
 E OF INSPECTION - 4/18/73 ADT - 11025

DAY SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	3751	33-104	60-69	65	71	72
TRUCKS	892	35- 76	53-62	59	65	66

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	1554	33- 91	56-65	60	65	67
TRUCKS	196	40- 73	55-64	59	62	64

NO CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

1973 SPEED TREND

VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS STATION NO 51 DAY SAMPLE

(PASSENGER CARS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	1	1	6	55	202	625	1127
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
1118	500	90	22	2	1	0	1	

(TRUCKS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	1	2	13	71	180	270	253
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
89	11	2	0	0	0	0	0	

(COMMERCIAL BUSES)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	0	1
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
1	0	0	0	0	0	0	0	

(SCHOOL BUSES)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	2	3	10	6
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
2	0	0	0	0	0	0	0	

VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 51
NIGHT SAMPLE

(PASSENGER CARS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	1	3	14	78	232	506	495
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
168	42	10	1	3	1	0	0	

(TRUCKS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	1	0	7	41	86	55
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
4	2	0	0	0	0	0	0	

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STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 52

SPEED STATION CHARACTERISTICS

ROUTE NO. - I-494 COUNTY - HENNEPIN CLASSIFICATION - SUBURBAN FREEWAY
LOCATION - 2750 FT. NORTH OF BRIDGE OVER T.H. 12 (NORTHBOUND ROADWAY) MP 8.07
CURVE, PERCENT AND LENGTH - NEGLIGIBLE CURVE, DEGREE AND LENGTH - NEGLIGIBLE TANGENT LENGTH - 1.5 MI.
SURFACE TYPE - CONCRETE SURFACE WIDTH - 24 FT. SURFACE CONDITION - GOOD
PAVEMENT TYPE - BITUMINOUS SHOULDER WIDTH - 10 FT. SHOULDER CONDITION - GOOD
NUMBER OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 70 NIGHT - 70 SIGHT DISTANCE - 0.5 MI.
DATE OF INSPECTION - 4/17/73 ADT - 8750

DAY SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	2829	39- 90	63-72	67	73	75
TRUCKS	1138	37- 78	56-65	60	66	68

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	1143	43- 98	63-72	65	72	73
TRUCKS	150	39- 75	55-64	60	65	67

1973 SPEED TREND

VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS STATION NO 52 DAY SAMPLE

(PASSENGER CARS)

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	1	3	19	96	321	674
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
901	606	182	22	4	0	0	0	

(TRUCKS)

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	3	17	56	180	324	348
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
173	31	4	0	0	0	0	0	

(COMMERCIAL BUSES)

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	0	0
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
1	0	0	0	0	0	0	0	

(SCHOOL BUSES)

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	1	3	5	5
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
1	0	0	0	0	0	0	0	

1973 SPEED TREND

VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 52
NIGHT SAMPLE

(PASSENGER CARS)

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	1	25	72	187	300
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
315	195	39	7	1	0	1	0	

(TRUCKS)

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	3	5	7	27	43	44
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
18	3	0	0	0	0	0	0	

(COMMERCIAL BUSES)

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	0	0
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

(SCHOOL BUSES)

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	0	1
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 53

SPEED STATION CHARACTERISTICS

TE NO. - T.H. 36 COUNTY - HENNEPIN CLASSIFICATION - URBAN EXPRESSWAY
 ATION - 350 FT. SOUTH OF 73RD STREET SO. (SOUTHBOUND ROADWAY) MP 97.73
 DE, PERCENT AND LENGTH - NEGLIGIBLE CURVE, DEGREE AND LENGTH - NEGLIGIBLE TANGENT LENGTH - 2.0 MI.
 FACE TYPE - CONCRETE SURFACE WIDTH - 24 FT. SURFACE CONDITION - GOOD
 ULDER TYPE - BITUMINOUS SHOULDER WIDTH - 10 FT. SHOULDER CONDITION - GOOD
 BER OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 60 NIGHT - 60 SIGHT DISTANCE - 0.5 MI.
 E OF INSPECTION - 4/23/73 ADT - 11475

DAY SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	4301	31-101	56-65	60	65	67
TRUCKS	424	32- 72	49-58	54	61	62

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	1869	36- 87	54-63	58	64	65
TRUCKS	11	46- 63	46-55	52	59	59

0 CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

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VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 53
NIGHT SAMPLE

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	11	19	128	398	699	462
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
115	23	13	0	1	0	0	0	

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	5	3	2	1
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	0	0
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	0	0
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 61

SPEED STATION CHARACTERISTICS

TE NO. - I-90 COUNTY - MOWER CLASSIFICATION - RURAL FREEWAY
 ATION - 2.0 MI. E. OF JCT. T.H. 56 & I-90, DIRECTLY UNDER CO.RD.19 OVERPASS (E.B.)
 DE, PERCENT AND LENGTH - NEGLIGIBLE CURVE, DEGREE AND LENGTH - NEGLIGIBLE TANGENT LENGTH - 1.0 MI.
 FACE TYPE - CONCRETE SURFACE WIDTH - 24 FT. SURFACE CONDITION - GOOD
 ULDER TYPE - BITUMINOUS SHOULDER WIDTH - 10 FT. SHOULDER CONDITION - GOOD
 BER OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 70 NIGHT - 70 SIGHT DISTANCE - 1.0 MI.
 E OF INSPECTION - 5/14/73 ADT - 3875

DAY SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	1722	45- 90	61-70	65	71	72
TRUCKS	361	44- 73	56-65	60	65	66

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	265	45- 82	60-69	63	70	70
TRUCKS	105	48- 70	56-65	60	65	65

NO CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 61
NIGHT SAMPLE

(PASSENGER CARS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	1	6	23	60	94
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
58	17	5	1	0	0	0	0	

(TRUCKS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	12	22	32	33
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
6	0	0	0	0	0	0	0	

(COMMERCIAL BUSES)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	1	0
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

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STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 62

SPEED STATION CHARACTERISTICS

E NO. - T.H.52 COUNTY - OLMSTED CLASSIFICATION - RURAL EXPRESSWAY
 TION - 0.5 MILE SOUTH OF GOODHUE-OLMSTED COUNTY LINE (EASTBOUND ROADWAY)
 E, PERCENT AND LENGTH - NEGLIGIBLE CURVE, DEGREE AND LENGTH - NEGLIGIBLE TANGENT LENGTH - 1.9 MI.
 ACE TYPE - CONCRETE SURFACE WIDTH - 24 FT. SURFACE CONDITION - GOOD
 LDER TYPE - GRAVEL SHOULDER WIDTH - 8 FT. SHOULDER CONDITION - GOOD
 ER OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 70 NIGHT - 60 SIGHT DISTANCE - 2000 FT.
 E OF INSPECTION - 5/14/73 ADT - 3525

DAY SPEEDS

	SAMPLE SIZE	RANGE	PAGE	MEDIAN	85%	90%
PASSENGER CARS	2016	40- 90	60-69	64	70	71
TRUCKS	328	36- 70	53-62	58	63	65

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PAGE	MEDIAN	85%	90%
PASSENGER CARS	470	35- 90	54-63	59	65	65
TRUCKS	87	45- 70	52-61	56	60	61

VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 62
NIGHT SAMPLE

(TRUCKS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	5	7	29	35	10
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
1	0	0	0	0	0	0	0	

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STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 71

SPEED STATION CHARACTERISTICS

E NO. - T.H. 60 COUNTY - WATONWAN CLASSIFICATION - RURAL ARTERIAL
 TION - 200 FT. WEST OF C.S.A.H. 16
 IE, PERCENT AND LENGTH - NEGLIGIBLE CURVE, DEGREE AND LENGTH - NEGLIGIBLE TANGENT LENGTH - 2.0 MI.
 ACE TYPE - CONCRETE SURFACE WIDTH - 24 FT. SURFACE CONDITION - GOOD
 ILDER TYPE - GRAVEL SHOULDER WIDTH - 8 FT. SHOULDER CONDITION - GOOD
 ER OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 65 NIGHT - 55 SIGHT DISTANCE - 1.0 MI.
 OF INSPECTION - 4/25/73 ADT - 3850

DAY SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	1468	46- 90	61-70	65	71	73
TRUCKS	518	40- 75	54-63	59	65	66

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	321	45-100	54-63	60	68	70
TRUCKS	164	40- 71	55-64	58	65	65

ALL CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

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20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	1	0
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 71
NIGHT SAMPLE

(TRUCKS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	1	2	17	48	52	37
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
6	1	0	0	0	0	0	0	

(COMMERCIAL BUSES)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	0	0
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

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STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 81

SPEED STATION CHARACTERISTICS

T.H. NO. - T.H. 12 COUNTY - MEEKER CLASSIFICATION - RURAL ARTERIAL
 LOCATION - 3.3 MILES WEST OF THE NORTH JCT. OF T.H. 12 & T.H. 22 (MP 95.55)
 GRADE, PERCENT AND LENGTH - NEGLIGIBLE CURVE, DEGREE AND LENGTH - NEGLIGIBLE TANGENT LENGTH - 3.0 MI.
 SURFACE TYPE - BITUMINOUS SURFACE WIDTH - 24 FT. SURFACE CONDITION - GOOD
 SHOULDER TYPE - BITUMINOUS SHOULDER WIDTH - 8 FT. SHOULDER CONDITION - GOOD
 NUMBER OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 65 NIGHT - 55 SIGHT DISTANCE - 3.0 MI.
 DATE OF INSPECTION - 4/26/73 ADT - 2650

DAY SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	1645	36- 93	57-66	62	68	70
TRUCKS	527	35- 71	50-59	55	60	61

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	413	40- 83	53-62	57	64	65
TRUCKS	77	40- 71	53-62	55	60	61

NO CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 81
DAY SAMPLE

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	6	8	56	167	408	594
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
277	97	26	5	0	1	0	0	

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	1	6	27	98	172	157	58
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
7	1	0	0	0	0	0	0	

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	0	3
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
3	0	0	0	0	0	0	0	

20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	1	5	5	7	0
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 81
NIGHT SAMPLE

(PASSENGER CARS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	1	10	28	113	130	93
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
19	16	1	2	0	0	0	0	

(TRUCKS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	1	5	6	28	26	10
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	1	0	0	0	0	0	0	

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STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 91

SPEED STATION CHARACTERISTICS

E NO. - I-35 COUNTY - SCOTT CLASSIFICATION - SUBURBAN FREEWAY
 TION - 1000 FT. NORTH OF CO. RD. 29 BRIDGE (1.5 MI. SO. OF CO. RD. 70) N.B.
 E, PERCENT AND LENGTH - NEGLIGIBLE CURVE, DEGREE AND LENGTH - NEGLIGIBLE TANGENT LENGTH - 1.0 MI.
 ACE TYPE - CONCRETE SURFACE WIDTH - 24 FT. SURFACE CONDITION - VERY GOOD
 LDER TYPE - BITUMINOUS SHOULDER WIDTH - 10 FT. SHOULDER CONDITION - GOOD
 ER OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 70 NIGHT - 70 SIGHT DISTANCE - 0.7 MI.
 OF INSPECTION - 4/25/73 ADT - 4425

DAY SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	2211	40-100	63-72	68	73	74
TRUCKS	470	34- 75	54-63	58	63	65

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	609	41- 85	63-72	67	72	73
TRUCKS	140	38- 70	51-60	54	60	63

ALL CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

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VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 91
NIGHT SAMPLE

(PASSENGER CARS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	3	4	22	72	164
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
189	128	22	5	0	0	0	0	

(TRUCKS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	3	10	24	44	39	17
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
3	0	0	0	0	0	0	0	

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STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 92

SPEED STATION CHARACTERISTICS

E NO. - T.H. 36 COUNTY - RAMSEY CLASSIFICATION - SUBURBAN EXPRESSWAY
 TION - 150 FT. WEST OF THE T.H. 49 (RICE ST.) BRIDGE ON W.B. ROADWAY
 E, PERCENT AND LENGTH - -0.8%.23MI CURVE, DEGREE AND LENGTH - 1 30'2500' TANGENT LENGTH - 1600 FT.
 ACE TYPE - CONCRETE SURFACE WIDTH - 24 FT. SURFACE CONDITION - GOOD
 LDER TYPE - BITUMINOUS SHOULDER WIDTH - 10 FT. SHOULDER CONDITION - GOOD
 ER OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 60 NIGHT - 50 SIGHT DISTANCE - 0.5 MILE
 OF INSPECTION - 4/18/73 ADT - 14175

DAY SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	4942	35- 85	57-66	61	67	68
TRUCKS	703	34- 73	49-58	52	60	61

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	1473	38- 77	49-58	55	61	63
TRUCKS	68	36- 65	44-53	47	55	55

VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 92
DAY SAMPLE

(PASSENGER CARS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	1	4	59	221	555	1416	1665
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
829	173	15	4	0	0	0	0	

(TRUCKS)								
20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	2	14	103	178	178	141	70
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
15	2	0	0	0	0	0	0	

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VEHICLE SPEEDS IN 5 MILE PER HOUR INCREMENTS
STATION NO 92
NIGHT SAMPLE

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STATE OF MINNESOTA

1973 SPEED TREND

STATION NO. 93

SPEED STATION CHARACTERISTICS

NO. - T.H. 61 COUNTY - WASHINGTON CLASSIFICATION - SUBURBAN EXPRESSWAY
 ION - 300 FT. SOUTH OF THE ST. PAUL PARK INTERCHANGE BRIDGE (N.B. ROADWAY)
 , PERCENT AND LENGTH - NEGLIGIBLE CURVE, DEGREE AND LENGTH - NEGLIGIBLE TANGENT LENGTH - 5000 FT.
 CE TYPE - CONCRETE SURFACE WIDTH - 24 FT. SURFACE CONDITION - GOOD
 DER TYPE - BITUMINOUS SHOULDER WIDTH - 10 FT. SHOULDER CONDITION - GOOD
 R OF TRAVELED LANES - 2 POSTED SPEED LIMITS DAY - 65 NIGHT - 55 SIGHT DISTANCE - 0.7 MILE
 OF INSPECTION - 4/24/73 ADT - 9825

DAY SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	3611	37- 87	57-66	61	67	69
TRUCKS	560	33- 74	50-59	54	60	61

NIGHT SPEEDS

	SAMPLE SIZE	RANGE	PACE	MEDIAN	85%	90%
PASSENGER CARS	1033	40- 80	52-61	57	62	63
TRUCKS	49	40- 62	50-59	55	58	61

CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

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20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
0	0	0	0	0	0	0	0	0
65-70	70-75	75-80	80-85	85-90	90-95	95-100	100+	
0	0	0	0	0	0	0	0	

STATE OF MINNESOTA

1973 SPEED TREND

SUMMARY - SUBURBAN FREEWAY STATION NUMBERS 51, 52, 91

DAY SPEEDS

	PACE	MEDIAN	85%	90%
PASSENGER CARS	62-71	66	72	74
TRUCKS	55-64	60	65	67
COMM. BUS	59-68	63	73	73
SCHOOL BUS	54-63	59	63	64

NIGHT SPEEDS

	PACE	MEDIAN	85%	90%
PASSENGER CARS	58-67	63	70	72
TRUCKS	53-62	58	63	64
COMM. BUS	**-**	**	**	**
SCHOOL BUS	**-**	**	**	**

** NO CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

STATE OF MINNESOTA

1973 SPEED TREND

SUMMARY - URBAN EXPRESSWAY
STATION NUMBER 53

DAY SPEEDS

	PACE	MEDIAN	85%	90%
PASSENGER CARS	56-65	60	65	67
TRUCKS	49-58	54	61	62
COMM. BUS	**-**	**	**	**
SCHOOL BUS	**-**	**	**	**

NIGHT SPEEDS

	PACE	MEDIAN	85%	90%
PASSENGER CARS	54-63	58	64	65
TRUCKS	46-55	52	59	59
COMM. BUS	**-**	**	**	**
SCHOOL BUS	**-**	**	**	**

** NO CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

STATE OF MINNESOTA

1973 SPEED TREND

SUMMARY - SUBURBAN EXPRESSWAY STATION NUMBERS 92, 93

DAY SPEEDS

	PACE	MEDIAN	85%	90%
PASSENGER CARS	57-66	61	67	68
TRUCKS	49-58	53	60	61
COMM. BUS	**-**	**	**	**
SCHOOL BUS	50-59	53	59	62

NIGHT SPEEDS

	PACE	MEDIAN	85%	90%
PASSENGER CARS	51-60	56	62	63
TRUCKS	47-56	50	57	58
COMM. BUS	**-**	**	**	**
SCHOOL BUS	**-**	**	**	**

** NO CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

STATE OF MINNESOTA

1973 SPEED TREND

SUMMARY - RURAL FREEWAY STATION NUMBERS 11, 42, 61

DAY SPEEDS

	PACE	MEDIAN	85%	90%
PASSENGER CARS	63-72	68	74	75
TRUCKS	58-67	61	67	68
COMM. BUS	63-72	68	72	72
SCHOOL BUS	55-64	55	65	65

NIGHT SPEEDS

	PACE	MEDIAN	85%	90%
PASSENGER CARS	60-69	65	73	75
TRUCKS	60-69	62	68	69
COMM. BUS	**-**	**	**	**
SCHOOL BUS	**-**	**	**	**

** NO CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

STATE OF MINNESOTA

1973 SPEED TREND

SUMMARY - RURAL ARTERIAL STATION NUMBERS 21, 31, 71, 81

DAY SPEEDS

	PACE	MEDIAN	85%	90%
PASSENGER CARS	59-68	63	70	71
TRUCKS	53-62	58	65	66
COMM. BUS	62-71	65	68	70
SCHOOL BUS	49-58	53	60	60

NIGHT SPEEDS

	PACE	MEDIAN	85%	90%
PASSENGER CARS	53-62	59	65	66
TRUCKS	53-62	58	62	65
COMM. BUS	**-**	**	**	**
SCHOOL BUS	**-**	**	**	**

** NO CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

STATE OF MINNESOTA

1973 SPEED TREND

SUMMARY - RURAL EXPRESSWAY STATION NUMBERS 41, 62

DAY SPEEDS

	PACE	MEDIAN	85%	90%
PASSENGER CARS	60-69	64	71	72
TRUCKS	55-64	59	65	66
COMM. BUS	**-**	**	**	**
SCHOOL BUS	54-63	58	62	63

NIGHT SPEEDS

	PACE	MEDIAN	85%	90%
PASSENGER CARS	55-64	60	65	67
TRUCKS	52-61	59	62	65
COMM. BUS	**-**	**	**	**
SCHOOL BUS	**-**	**	**	**

** NO CALCULATIONS ARE DONE ON SAMPLE SIZES LESS THAN 10.

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