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School transportation report.

School Transportation Report

School Transportation and Safety Education Division

Vol. XIV

December, 1979

PART I - SCHOOL TRANSPORTATION DATA

1978-79

1. VEHICLES:

	1978-1979	1977-1978
School Buses	6,245	6,533
Other Vehicles Used As School Buses	634	599
TOTAL	6,879	7,132

2. SCHOOL BUS DRIVERS:

	1978-1979	1977-1978
Male	7,608	7,518
Female	2,852	2,528
TOTAL	10,460	10,046

3. SCHOOL BUS ROUTES:

	1978-1979	1977-1978
Total # Regular	5,548	5,482
Total # Shuttle	1,309	1,316
Total # Kindergarten	909	928
TOTAL	7,766	7,726
Ave. Length/Regular Rt.	23.9	24.2

4. MILES TRAVELED:

	1978-1979	1977-1978
Daily Miles by Buses	322,318	324,409
Annual Miles by Buses: Regular Routes	57,818,116	58,165,795
Activity Trips	8,273,661	8,234,169
Other Persons	367,067	213,160
TOTAL	66,458,844	66,613,124

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5. PUPILS TRANSPORTED:

	1978-1979	1977-1978
by School Bus	278,288	286,816
by Parent	79	74
by Common Carrier	4,973	4,245
TOTAL	283,340	291,135
 Non-Required Transportation (TOTAL)	 31,733	 31,777
 Percent of all Pupils Transported	 50.7	 50.3

6. TRANSPORTATION COSTS:

	1978-1979	1977-1978
School Bus	\$46,441,942.44*	\$45,035,488.77*
Parent	31,395.92	20,571.74
Common Carrier	637,143.43	367,266.90
TOTAL	\$47,110,481.79*	\$45,423,327.41*
 Average Cost Per Pupil Transported:		
School Bus (District-Owned & Contractors)	\$166.88	\$157.01
Parent	397.41	277.99
Common Carrier	128.12	86.51
 Average Cost Per Mile (School Bus)	 \$0.803	 \$0.774

*Includes cost of transporting nonpublic school pupils

Table 1. PERCENTAGE OF OPERATING COST

	1978-79	1977-78
Salaries	41.4	40.4
Depreciation	17.5	17.8
Gasoline	15.0	14.9
Repairs, Parts & Labor	14.5	13.6
Other Expenses	5.2	5.0
Insurance	3.3	3.2
Tires & Tubes	1.8	1.8
Grease, Oil & Lubricants	0.7	0.7
Storage	0.6	0.7

Table 2. AVERAGE COST PER PUPIL TRANSPORTED

AVERAGE COST	NO. OF DISTRICTS	PERCENT
40-49.99	0	0.0
50-59.99	1	0.2
60-69.99	4	0.9
70-79.99	1	0.2
80-89.99	2	0.4
90-99.99	4	0.9
100-109.99	6	1.3
110-119.99	8	1.8
120-129.99	19	4.3
130-139.99	19	4.3
140-149.99	39	8.7
150-159.99	38	8.5
160-169.99	48	10.7
170-179.99	49	11.0
180-189.99	36	8.1
190-199.99	39	8.7
200-209.99	23	5.1
210-219.99	21	4.7
220-229.99	27	6.0
230-239.99	14	3.1
240-249.99	11	2.5
250-259.99	12	2.7
260-269.99	8	1.8
270-279.99	4	0.9
280-289.99	4	0.9
290-299.99	5	1.1
300-ABOVE	5	1.1

Table 3. BUS DRIVER'S SALARY HOURLY

BASE RATE PER HOUR	REGULAR ROUTE NO. OF DISTRICTS	KOBN ROUTE NO. OF DISTRICTS	ACTIVITY TRIPS NO. OF DISTRICTS
2.50-2.99	0	2	171
3.00-3.49	4	5	86
3.50-3.99	11	12	33
4.00-4.49	12	11	14
4.50-4.99	15	9	7
5.00-5.49	14	13	8
5.50-5.99	8	5	3
6.00-6.49	1	2	0
6.50-6.99	0	0	2
7.00-7.49	1	2	1
7.50-7.99	0	0	1
8.00-8.49	0	0	0
8.50-8.99	0	0	0
9.00-9.49	0	0	0
9.50-9.99	0	0	0
10.00-ABOVE	0	0	2
TOTAL DISTRICTS	66	61	328

Table 4.

BUS DRIVER'S SALARY PER TRIP

BASE RATE PER TRIP	REGULAR ROUTE NO. OF DISTRICTS	KOBN ROUTE NO. OF DISTRICTS	ACTIVITY TRIPS NO. OF DISTRICTS
3.00-3.49	1	3	6
3.50-3.99	0	2	1
4.00-4.49	1	2	1
4.50-4.99	0	2	0
5.00-5.49	1	2	2
5.50-5.99	3	5	0
6.00-6.49	7	7	2
6.50-6.99	18	8	2
7.00-7.49	6	13	4
7.50-7.99	3	11	8
8.00-8.49	2	1	4
8.50-8.99	3	8	4
9.00-9.49	1	1	2
9.50-9.99	0	0	0
10.00-10.49	0	0	17
10.50-10.99	1	2	0
11.00-11.49	0	1	2
11.50-11.99	0	1	2
12.00-12.49	0	1	2
12.50-12.99	1	0	3
13.00-13.49	1	2	2
13.50-13.99	1	0	1
14.00-14.49	2	2	1
14.50-14.99	0	0	0
15.00-ABOVE	6	1	11
TOTAL DISTRICTS	58	75	77

Table 5.

BUS DRIVER'S SALARY MONTHLY

BASE RATE PER MONTH	REGULAR ROUTE NO. OF DISTRICTS	KOBN ROUTE NO. OF DISTRICTS	ACTIVITY TRIPS NO. OF DISTRICTS
120-129.99	3	40	5
130-139.99	1	11	0
140-149.99	0	17	0
150-159.99	1	17	0
160-169.99	1	16	0
170-179.99	0	10	0
180-189.99	1	1	0
190-199.99	1	2	0
200-209.99	3	2	0
210-219.99	7	3	0
220-229.99	11	3	0
230-239.99	6	0	0
240-249.99	15	4	0
250-259.99	17	1	0
260-269.99	20	1	0
270-279.99	25	1	0
280-289.99	33	3	0
290-299.99	31	1	0
300-309.99	24	2	0
310-319.99	18	0	0
320-329.99	17	0	0
330-339.99	8	1	0
340-349.99	9	0	0
350-359.99	2	0	0
360-369.99	2	0	0
370-379.99	7	0	0
380-389.99	2	0	0
390-399.99	0	0	0
400-409.99	0	0	0
410-419.99	0	0	0
420-429.99	1	0	0
430-439.99	0	0	0
440-449.99	1	1	0
450-459.99	0	0	0
460-469.99	0	0	0
470-479.99	0	0	0
480-489.99	0	0	0
490-499.99	0	0	0
500-ABOVE	12	3	0
TOTAL DISTRICTS	279	140	5

Table 6.

HEAD MECHANIC'S SALARY

ANNUAL SALARY RANGE	NO. OF DISTRICTS MECHANICS DO NOT DRIVE	NO. OF DISTRICTS MECHANICS DRIVE
UNDER 4,000	8	10
4,000-4,499	4	2
4,500-4,999	0	0
5,000-5,499	0	0
5,500-5,999	1	1
6,000-6,499	2	3
6,500-6,999	0	1
7,000-7,499	2	0
7,500-7,999	1	2
8,000-8,499	1	3
8,500-8,999	2	7
9,000-9,499	3	5
9,500-9,999	3	4
10,000-10,499	4	9
10,500-10,999	4	11
11,000-11,499	16	12
11,500-11,999	10	8
12,000-12,499	13	14
12,500-12,999	9	8
13,000-13,499	12	4
13,500-13,999	10	4
14,000-14,499	9	2
14,500-14,999	5	5
15,000-15,499	6	0
15,500-15,999	5	0
16,000-16,499	6	1
16,500-16,999	3	0
17,000-17,499	0	1
17,500-17,999	3	0
18,000-18,499	5	0
18,500-18,999	2	0
19,000-19,499	0	0
19,500-19,999	1	0
20,000-20,499	0	0
20,500-20,999	0	0
21,000-21,499	0	0
21,500-21,999	0	0
22,000-22,499	0	0
22,500-22,999	0	0
23,000-23,499	0	0
23,500-23,999	0	0
24,000-24,499	0	0
24,500-24,999	0	0
25,000-ABOVE	0	0
TOTAL DISTRICTS	150	117

Table 7.

SCHOOL BUSES BY CAPACITY RATING

CAPACITY	# OF BUSES	CAPACITY	# OF BUSES	CAPACITY	# OF BUSES
85	1	59	122	30	56
84	17	57	1	29	6
83	1	55	5	28	2
78	40	54	2,142	26	3
76	1	53	122	25	1
73	2	48	497	24	6
72	103	47	16	23	26
71	5	42	16	22	15
70	1	38	1	21	2
66	1,087	36	35	20	12
65	135	35	7	19	7
64	9	34	4	18	30
60	1,633	32	3	16 or less	73

PART II - SCHOOL BUS ACCIDENT STATISTICS

1978-79

Data for this report has been collected as per Chapter 22.36, Iowa Administrative Code, which states in part that:

"THE SUPERINTENDENT OF SCHOOLS SHALL MAKE A REPORT TO THE SCHOOL TRANSPORTATION AND SAFETY EDUCATION DIVISION, DEPARTMENT OF PUBLIC INSTRUCTION, ON ANY ACCIDENT INVOLVING ANY VEHICLE IN USE AS A SCHOOL BUS. THE DRIVER OF THE BUS SHALL CO-OPERATE WITH THE SUPERINTENDENT IN MAKING SUCH REPORT."

The School Transportation and Safety Education Division of the Department of Public Instruction defines a school bus accident as, "A MISHAP INVOLVING A VEHICLE IN USE AS A SCHOOL BUS."

Six hundred twenty-three (623) school bus accidents were reported to the Department of Public Instruction during the Fiscal Year beginning July 1, 1978. This represents a 7.8 percent increase over the preceding year when 578 accidents were reported.

The number of injuries sustained in school bus accidents increased for 1978-79 while the number of deaths decreased. One hundred twenty-two (122) injuries and 1 death were reported as compared to 104 injuries and 3 deaths during 1977-78. Persons injured in 1978-79 included 85 pupils, 15 school bus drivers, and 22 other persons as compared to 75 pupils, 10 drivers, and 19 other persons the previous year.

The fatality occurred in northwest Iowa when a school bus stopped to discharge a 16-year old girl at her home following a night basketball game. A semi-trailer truck stopped behind the bus apparently obscuring the bus and its warning lights from a second semi-truck. The second truck passed the stopped semi and school bus and struck the girl as she crossed the highway toward her home. The girl was taken to a local hospital where she died an hour later.

Estimated property damage reported during 1978-79 was relatively minor when current automotive repair costs are considered. In 70.6 percent of the accidents reported, property damage was less than \$500. Of these, 24.8 percent involved no property damage.

I. Other Information

1978-79

1977-78

A. Location of Accidents

Accidents--% of Total

Accidents--% of Total

Urban Areas
Suburban & Rural Areas

479	76.89
144	23.11

450	77.85
128	22.15

B. Locality

City Street
Rural Route (Gravel)
Parking Lot
Rural Road (Hard Surface)
Primary Road
Loading Zone at Attendance Centers
Driveways
Bus Lot

358	57.46
66	10.59
53	8.51
44	7.06
33	5.30
28	4.49
26	4.17
15	2.41

339	58.65
59	10.20
48	8.30
30	5.19
47	8.13
24	4.15
18	3.11
13	2.24

C. Time of Day

A.M.
P.M.
Not Stated

313	50.24
310	49.76
0	0

269	46.54
308	53.29
1	.17

D. Day of Week

Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday

126	20.22
125	20.06
119	19.10
118	18.94
122	19.58
11	1.78
2	.32

122	21.11
139	24.05
97	16.78
104	17.99
100	17.30
11	1.90
5	.87

E. Light Factors

Daylight
Dark
Dusk
Dawn
Not Stated

574	92.14
23	3.69
13	2.08
10	1.61
3	.48

519	89.79
21	3.63
22	3.81
12	2.08
4	.69

F. Weather Conditions

Clear
Cloudy
Snow-Sleet
Rain-Mist
Fog-Smoke
Not Stated

356	57.14
103	16.53
96	15.41
36	5.78
20	3.21
12	1.93

324	56.05
103	17.82
85	14.71
29	5.01
22	3.81
15	2.60

	<u>1978-79</u>		<u>1977-78</u>	
G. <u>Road Surface Condition</u>	# Accidents--% of Total		# Accidents--% of Total	
Snow Covered or Icy	333	53.45	248	42.90
Dry	223	35.80	255	44.12
Wet	59	9.47	63	10.90
Muddy	8	1.28	6	1.04
Not Stated	0	.00	6	1.04
H. <u>Type of Road Surface</u>				
Hard Surface	514	82.50	482	83.39
Gravel or Dirt	109	17.50	92	15.92
Not Stated	0	.00	4	.69
I. <u>Character of Road</u>				
Straight	262	42.06	209	36.16
Intersection	179	28.73	206	35.64
Parking Lot	61	9.80	52	9.00
Curved	45	7.22	35	6.05
Driveway	27	4.33	29	5.02
Loading Zones at Attendance Centers	23	3.69	18	3.11
Driveway Intersection (Pupil Residence)	15	2.41	14	2.42
Railroad Crossing	7	1.12	10	1.73
Bridge	4	.64	5	.87
J. <u>Responsibility for Accidents</u>				
School Bus Driver	401	64.37	334	57.78
Other Drivers	198	31.78	205	35.47
Both Drivers	19	3.50	26	4.50
Mechanical Failure	2	.32	4	.69
Livestock Jumped from Ditch in Front of Bus	2	.32	0	.00
Undetermined	1	.16	9	1.56
K. <u>Reported Total Property Damage</u>				
No Damage	155	24.88	187	32.35
Less than \$100	229	36.76	249	43.08
Less than \$250	345	55.38	358	61.94
Less than \$500	440	70.63	444	76.82

L. <u>Impact Area</u>	<u>1978-79</u>		<u>1977-78</u>	
	# Accidents	--% of Total	# Accidents	--% of Total
Front:				
Left Front	96	15.41	81	14.01
Right Front	60	9.63	61	10.55
Middle Front	53	8.51	40	6.92
Rear:				
Left Rear	88	14.13	66	11.42
Middle Rear	79	12.68	78	13.49
Right Rear	64	10.27	53	9.17
Right Side:				
Middle	32	5.14	27	4.67
Forward	17	2.73	19	3.29
Back	16	2.57	28	4.84
Entire Side	5	.80	9	1.56
Left Side:				
Middle	48	7.70	34	5.88
Back	21	3.37	33	5.71
Forward	18	2.89	18	3.11
Entire Side	4	.64	4	.69
No Damage, Non-Collision, Not Involved, Ran Off Road	18	2.89	19	3.29
Roll Over or Entire Loss	3	.48	6	1.04
Top of Bus	1	.16	2	.35
Not Stated	0	.00	0	.00

M. Major Cause of Accidents When Driver at Fault

Inattention	150	24.08	99	17.13
Failure to Have Control	89	14.29	79	13.67
Misjudge Space Between Other Vehicle or Edge of Roadway	57	9.15	64	11.07
Improper Turn	50	8.03	7	1.21
Failure to Yield Right-of-way	44	7.06	55	9.52
Misjudge Turning Radius	13	2.09	43	7.44
Driving Too Fast for Conditions	7	1.12	10	1.73
Following Too Close	4	.64	8	1.38

II. Over half of the accidents were of the four types listed below:

A. For the 1978-79 fiscal year (Table 8) 307, or about 49 percent of the 623 accidents reported, can be grouped as follows:

1. Collisions at Intersections	162 - 26.00%
2. Back-Up (on and off roadway)	107 - 17.18%
3. Bus Ran Off Roadway	22 3.53%
4. Bus Stopped On Highway To Pick up or discharge Pupils	17 - <u>2.73%</u>
	49.28% (Total Percent)

B. The above figures compare to the following for the twenty-four year period from July 1, 1955, through June 30, 1979. (Table 9)

1. Collisions at Intersection	2,246 - 27.33%
2. Back-Up (on and off roadway)	1,597 - 19.44%
3. Bus Ran Off Roadway	616 7.50%
4. Bus Stopped on Highway to Pick up or discharge Pupils	461 - <u>5.61%</u>
	59.88% (Total Percent)

Table 7. BREAKDOWN OF ACCIDENTS BY AGE GROUP AND SEX

<u>Age Group</u>	<u>Male</u>	<u>Female</u>	<u>Percent in Each Age Group</u>
20 and under	44	11	8.87%
21 - 25	68	38	17.10%
26 - 30	47	26	11.77%
31 - 35	31	52	13.39%
36 - 40	31	60	14.68%
41 - 45	18	32	8.06%
46 - 50	14	20	5.48%
51 - 55	24	15	6.29%
56 - 60	37	14	8.23%
61 - 65	35	2	5.97%
66 and above	<u>1</u>	<u>0</u>	<u>.16%</u>
	350*	270*	100.00%

*(Three of the accidents involved buses that were parked. There were no drivers in the vehicles. This accounts for the difference in the number of drivers and the number of accidents.)

III. Accident Data By Sex Groupings

During the 1978-79 fiscal year the Department issued school bus driver permits to 10,460 individuals. Of these, 7,608 or 72.73% were male drivers and 2,852 or 27.27% were female drivers.

The following compares involvement of male and female drivers in school bus accidents during the 1978-79 fiscal year.

	<u>Male Drivers</u>	<u>Female Drivers</u>
1. No. of drivers involved in school bus accidents	350*	270*
2. Percent of <u>all</u> drivers involved in school bus accidents	4.60%	9.47%
3. No. of injury accidents	26	20
4. Percent of injury accidents	56.52%	43.48%
5. No. of persons injured in accidents		
Pupils	39	46
Bus Drivers	8	7
Others	<u>14</u>	<u>8</u>
TOTAL	61	61
6. Percent of injuries		
Pupils	45.88%	54.12%
Bus Drivers	53.33%	46.67%
Others	63.64%	36.36%
7. No. of deaths		
Pupils	1	0
Bus Drivers	0	0
Others	<u>0</u>	<u>0</u>
TOTAL	1	0

*(In three of the accidents there was no school bus driver directly involved, which accounts for the difference in number of drivers and the total number of accidents.)

IV. Other Data for the Period July 1, 1974 through June 30, 1979

	<u>1974-75</u>	<u>1975-76</u>	<u>1976-77</u>	<u>1977-78</u>	<u>1978-79</u>
No. of Accidents	524	375	420	478	623
No. Injured	193	109	115	104	122
No. Killed	4*	1*	8 (2 pupils, 5 others, 1 driver)	3*	1
*Not pupils					
Property Damage	\$346,665,41	\$237,525.00	\$411,380.00	\$272,123.00	\$381,251.00
No. of vehicles used in transporting school children	6,616	6,780	6,863	7,132	6,879
No. of Miles Traveled	62,069,489*	65,383,270*	66,197,679*	66,613,124**	66,172,211**
Miles Per Accident	118,453	186,334	157,614	115,247	106,215
Miles Per All Injuries	321,604	641,058	575,632	640,510	542,395
Miles Per Pupil Injury	422,241	1,058,717	1,002,995	888,174	778,496

*Includes activity trip mileage

**Includes activity trip and "other persons" mileage

Table 8. SCHOOL BUS ACCIDENTS BY ACCIDENT TYPE. (JULY 1, 1978 to JUNE 30, 1979)

TYPES OF SCHOOL BUS ACCIDENTS		Total Number Accidents	KILLED			INJURED			Property Damage
			Pupils	School Bus Drivers	Others	Pupils	School Bus Drivers	Other	
Collisions on Highway	A. Bus turning left	68				4	1	3	31,599
	B. Bus turning right	47					2		9,847
	C. Bus going straight thru intersection	47				8	2	4	55,428
	D. Collision of other cars - Bus not directly involved								00
	E. Struck from rear when stopped to pick up or discharge pupils	14					1	7	48,886
	F. Struck from front when stopped to pick up or discharge pupils	3							1,406
	G. Bus struck when backing up	5							1,144
	H. Backing bus strikes parked car	52							13,971
	I. Cars back into bus	18							9,300
	J. Bus struck in rear when stopped at stop sign or railroad crossing	28					1		20,897
	K. Bus strikes car stopped at stop sign or R.R. crossing	39				15	1	2	27,765
	L. Sideswipes on straight highway	123				13	4	4	54,606
	M. Sideswipes on curves	16							18,643
	N. Other collisions on road	38				1	1	1	28,753
Collisions with trains									00
Collisions	O. Bus runs into objects off road	34							6,426
	P. Bus backs into objects off road	50							12,561
	Q. Bus parked when struck	9				1			3,495
	R. Other	3							1,247
	S. Bus ran off roadway	22				41	2	1	34,712
	T. Other non-collision accidents	1							565
Pupil Struck	U. Pupil struck crossing road to bus	1							00
	V. Pupil struck crossing road from bus	1	1						00
	W. Pupil struck at loading station	2				2			00
	X. Other pupil accidents	2							00
TOTALS		623	1			85	15	22	381,251

Table 9. SCHOOL BUS ACCIDENTS BY ACCIDENT TYPE (JULY 1, 1955 TO JUNE 30, 1979)

Types of School Bus Accidents	Total Number of Accidents	Pupils		School Bus Driver		Others	
		Killed	Injured	Killed	Injured	Killed	Injured
While bus is turning left	625	1	120		11	1	63
While bus is turning right	410		40		7		13
Other intersection collisions	1,211	3*	422	1	54	17	271
Bus is stopped on highway to pick up or discharge pupils	461	1	167		25	8	102
Backing up	1,597		10		1		8
Other collisions on highway	1,595		316		39	13	181
Collisions with railroad trains	5		5	1	2		
Other types of collisions	1,433		113		8		67
Bus ran off roadway	616		1,010		60		4
Other non-collision accidents	112		60		4	2	21
Pupil struck crossing road to board bus	7	1	5				
Pupil struck crossing road leaving bus	29	4	26				1
Pupil struck at loading zone	35	5	27				
Other pupil accidents	81	2	74		1		4
TOTALS	8,217	17	2,395	2	212	41	735**

PROPERTY DAMAGE

School Buses	\$1,833,349.03
Other Vehicles	2,142,186.43
TOTAL PROPERTY DAMAGE	\$3,975,535.46

*Pupils were in a school station wagon being used as a school bus and not a conventional type bus.

**Four died from injuries sustained in accidents.

Table 10.

SCHOOL BUS ACCIDENTS BY AGE (JULY 1, 1955 TO JUNE 30, 1979)

Age	Drivers in Accidents	Number of Accidents	Total No. of Drivers Enrolled	% of Drivers Who Had Accidents	Number Persons Injured	Number Persons Killed
16	35	35	1,265	2.767	32	0
17	106	107	2,603	4.111	30	3
18	183	195	2,433	8.015	95	0
19	255	269	3,371	7.980	78	0
20	231	252	2,822	8.930	100	0
21	236	263	3,214	8.183	83	3
22	195	210	3,526	5.956	59	3
23	162	172	4,050	4.247	61	1
24	148	164	4,169	3.934	69	1
25	167	178	4,307	4.133	69	0
26	139	145	4,377	3.313	47	0
27	148	154	4,451	3.460	77	1
28	144	153	4,543	3.368	111	0
29	144	152	4,519	3.364	59	1
30	146	152	4,559	3.334	57	1
31	135	142	4,599	3.088	52	1
32	150	165	4,455	3.704	55	4
33	144	144	4,482	3.213	34	0
34	146	173	4,629	3.737	48	2
35	155	163	4,527	3.601	36	1
36	180	191	4,499	4.245	78	1
37	147	151	4,658	3.242	48	3
38	172	192	4,780	4.017	40	0
39	151	159	4,807	3.308	67	4
40	166	176	4,730	3.721	74	0
41	159	160	4,669	3.427	54	3
42	169	177	4,815	3.676	68	0
43	183	189	4,767	3.965	73	1
44	158	168	4,544	3.697	126	0
45	168	193	4,581	4.213	47	2
46	173	190	4,579	4.149	88	2
47	165	174	4,497	3.869	78	1
48	154	156	4,413	3.535	88	1
49	195	200	4,325	4.624	104*	3
50	162	165	4,140	3.986	49	2
51	169	179	4,004	4.471	149	1
52	154	163	3,912	4.167	55*	2
53	160	165	3,860	4.275	61	1
54	153	156	3,795	4.111	54*	1
55	138	148	3,585	4.128	55	2
56	164	169	3,434	4.921	84	0
57	172	178	3,375	5.274	107	1
58	163	169	4,176	4.047	85	0
59	160	168	3,103	5.414	59	0
60	168	179	2,877	6.222	84	2
61	151	162	2,626	6.169	55	0
62	151	160	2,461	6.501	43	1
63	127	118	2,212	5.335	57*	2
64	112	120	1,750	6.857	54	0
65	48	50	655	7.634	39	0
66	7	7	106	6.604	1	0
67	3	3	46	6.522	7	0
Age Not indicated	36	45	--	--	17	2

*One died as result of injuries

Table 11.

MONTHS IN WHICH ACCIDENT OCCURRED

MONTH	1978-1979		1977-1978		1976-1977	
	No.	Percent	No.	Percent	No.	Percent
July	0	0	4	.69	4	.95
August	10	1.60	10	1.73	5	1.19
September	32	5.14	40	6.92	37	8.81
October	48	7.70	50	8.65	43	10.24
November	48	7.70	66	11.42	31	7.38
December	51	8.19	80	13.84	49	11.67
January	154	24.72	103	17.82	88	20.95
February	148	23.76	96	16.61	47	11.19
March	53	8.51	55	9.52	37	8.81
April	37	5.94	30	5.19	39	9.29
May	37	5.94	38	6.57	37	8.81
June	5	.80	6	1.04	3	.71
TOTALS	623	100.00	578	100.00	420	100.00

V. The Trained Drivers Vs. The Non-Trained Driver - (A Comparison of "Preventable" accidents)

Since the 1974-75 fiscal year, over 4,600 Iowa school bus drivers have completed the "Iowa School Bus Driver Training Program" developed by the Department of Public Instruction and offered through the Adult and Continuing Education Divisions of Iowa's Merged Area Community Colleges and Vocational Technical Schools.

Table 12 compares "trained" and "non-trained" drivers involved in preventable accidents during the 1978-79 fiscal year. A "preventable accident" is one in which the driver failed to do everything that reasonably could have been done to prevent the accident from occurring. This determination was made by the Department of Public Instruction staff members based upon the facts and descriptions of accidents provided on school bus accident report forms.

Types of School Bus Accidents	TRAINING STATUS CODE:										
	N. COMP = Driver did not complete approved training COMP = Driver completed approved training										
	Driver Training Status	Number of Accidents	(Killed)			(Injured)			(Damages)		
			Pupils	School Bus Drivers	Others	Pupils	School Bus Drivers	Others	Bus	Other	Total
A. Bus Turning Left	N. COMP	45						2	4,112	12,981	17,093
	COMP	11							373	4,036	4,409
B. Bus Turning Right	N. COMP	36							2,315	4,754	7,069
	COMP	5							60	843	903
C. Bus Going Straight Thru Intersection	N. COMP	16				1			7,143	4,429	11,572
	COMP	6				1	2		5,410	4,184	9,594
D. Collision of other cars - Bus not directly involved	N. COMP										
	COMP										
E. Struck from Rear When Stopped to Pick Up or discharge pupils	N. COMP	1							1,200	5,000	6,200
	COMP										
F. Struck from Front When Stopped to Pick up or discharge pupils	N. COMP										
	COMP										
G. Bus Struck When Backing up	N. COMP	4							2	923	925
	COMP	1								219	219
H. Backing Bus Strikes Parked Car	N. COMP	39							50	10,862	10,912
	COMP	12								2,959	2,959
I. Cars Back Into Bus	N. COMP	2							400		400
	COMP										
J. Bus Struck in Rear When Stopped on Hwy., at Stop Sign, or R.R.	N. COMP	1							150		150
	COMP										
K. Bus Strikes Car Stopped on Highway, at Stop Sign, or R.R.	N. COMP	24			10	1	1		4,900	6,700	11,600
	COMP	13			5				4,352	6,263	10,615
L. Sideswipes on Straight Highway	N. COMP	59							1,517	10,113	11,630
	COMP	13							450	2,820	3,270
M. Sideswipes on Curves	N. COMP	6							1,600	4,567	6,167
	COMP	3							125	1,356	1,481
N. Other Collisions on Road	N. COMP	10			1		1		6,900	722	7,622
	COMP	4								2,000	2,000
Collisions with Trains	N. COMP										
	COMP										
O. Bus Runs Into Object or Vehicles Off Road	N. COMP	24							1,000	2,646	3,646
	COMP	10							1,017	1,763	2,780
P. Bus Backs Into Object or Vehicles Off Road	N. COMP	33							315	5,700	6,015
	COMP	14							842	3,054	3,896
Q. Bus Parked When Struck	N. COMP										
	COMP										
R. Other Collisions	N. COMP										
	COMP										
S. Bus Ran Off Roadway	N. COMP	17			22	2	1		31,167	25	31,192
	COMP	3			17				1,520		1,520
T. Other Non-Collision Accidents	N. COMP	1							565		565
	COMP										
U. Pupil Struck Crossing Road to Bus	N. COMP										
	COMP										
V. Pupil Struck Crossing Road from Bus	N. COMP	1			1						
	COMP										
W. Pupil Struck at Loading Station	N. COMP	1			1						
	COMP										
X. Other Pupil Accidents	N. COMP	1									
	COMP										
Individual Totals	N. COMP	319			36	4	5		62,771	69,422	132,193
	COMP	97			24	1	2		14,714	29,497	44,211
TOTALS		416			60	5	7		77,485	98,919	176,404

ADMINISTRATION BRANCH

L. N. Jensen, Associate Superintendent

Dwight R. Carlson, Director, School Transportation & Safety Education

Terry L. Voy, Consultant, School Transportation

Donald E. Koroch, Consultant, Driver & Safety Education

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