School Bus Shoulder/Lap Belt Pilot Project

Findings of Surveys Conducted with Parents, Principals, & Bus Drivers who participated in the Lap/Shoulder Belt Pilot Project

Conducted by Center for Urban Affairs & Community Services
NC State University

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I. Parent Survey Background Information: Pre- and Posttest

Table 1. Respondent Information: Parent Survey.

Parents who….	Parent Respondents	
	Number	Percent of Final Parent Sample
Completed either a pretest or posttest survey	434	100.0
Completed a pretest survey only	317	73.0
Completed a posttest survey only	152	35.0
Completed both pre- and posttest surveys	35	8.1

Table 2. Respondents' Children who Ride Buses to and from School (Q1a).

Number of children*	Parent Respondents	
	Number	Percent
1	154	50.5
2	113	37.1
3	30	9.8
4	6	1.9
5	2	0.7
Total	**305****	**100.0**

**Average number of children riding bus per respondent household = 1.65*
***129 respondents did not provide data*

Table 3. Age and Gender of Children Riding Buses with Lap/Shoulder Belts.

Gender	Age in Years Number / Percent of Children					Total	Average Age in Years
		3-5	6-9	10-13	14-17		
Female	n	63	102	133	43 12.61	341	10.0
	%	18.48	29.91	39.00		100.0	
Male	n	76	87 26.28	132	36 10.88	331	9.9
	%	22.96		39.88		100.0	
Total		**139**	**189**	**265**	**79**	**672**	

Frequency Missing = 4

Parent Survey

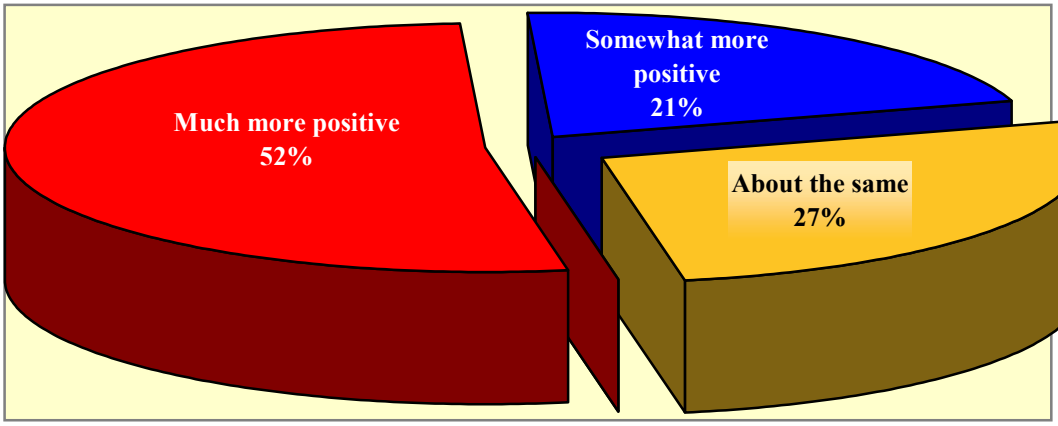
I. Parent Survey Background Information: Pre- and Posttest

Table 4. Children's Schools by Parents Participating in Survey.

School	Pretest Parent Respondents		Posttest Parent Respondents	
	Number	Percent	Number	Percent
Apex High	22	4.8	6	2.7
Barringer	3	0.7	0	0.0
Bellamy Elementary	14	3.1	13	5.9
Chestnut Grove Middle	23	5.1	7	3.2
Davis Drive Middle	16	3.5	9	4.2
Durant Middle	1	0.2	0	0.0
East Burke Middle	12	2.6	0	0.0
East Wake Middle	27	5.9	6	2.7
Eastern Elementary	1	0.2	0	0.0
Edwards Elementary	1	0.2	0	0.0
Floyd L. Knight	2	0.4	1	0.5
Fox Road Elementary	26	5.7	5	2.4
George Hildebran	31	6.8	32	14.6
Green Hope Elementary	33	7.3	19	8.7
Huntington Farm	1	0.2	0	0.0
Irvin Elementary	0	0.0	1	0.5
James Martin Middle	2	0.4	0	0.0
J. N. Freis	0	0.0	1	0.5
John Cotton Tayloe	2	0.4	1	0.5
John Small	2	0.4	0	0.0
Lee Senior	2	0.4	0	0.0
Lockhart Elementary	3	0.7	0	0.0
Lower Creek Elementary	20	4.4	28	12.8
Lufkin Middle	1	0.2	0	0.0
Marie G. Davis	3	0.7	1	0.5
Mt. Olive Elementary	1	0.2	0	0.0
Mt. Pleasant Middle	0	0.0	27	12.3
Murray Middle	4	0.9	5	2.4
Pinnacle Elementary	44	9.7	3	1.4
Princeton	14	3.1	13	5.9
PS Jones Middle	20	4.4	2	0.9
Salem Elementary	4	0.9	0	0.0
Tramway Elementary	52	11.4	28	12.8
University Meadows Elementary	4	0.9	0	0.0
Waccamaw Elementary	49	10.8	5	2.3
Waddell High	2	0.4	0	0.0
Wake Forest Rolesville High	2	0.4	1	0.5
Wakefield High	1	0.2	0	0.0
Warren Williams	1	0.2	0	0.0
Washington High	1	0.2	0	0.0
West Lee Middle	1	0.2	0	0.0
West Stokes High	3	0.7	0	0.0
William Lenoir Middle	4	0.9	3	1.4
TOTAL*	**455**	**100.0**	**217**	**100.0**

II. Parents' Views of Lap/Shoulder Belts after Participation in Pilot Project: Posttest Data

Figure 1. Parents' Assessment of Change in Personal View of Lap/Shoulder Belts (Posttest Responses)



"In general, how would you describe your view of lap/shoulder belts in buses now, compared with before your child rode the bus with lap/shoulder belts"? (Q1e)

N=148 posttest respondents who indicated that they had completed a pretest survey (Q1a= Yes)
NOTE: No respondents selected Somewhat more Negative or Much more Negative

Parent Survey

II. Parents' Views of Lap/Shoulder Belts after Participation in Pilot Project: Posttest Data

Table 5. Reason for Change in View of Lap/Shoulder Belts among Parents Whose Opinion was "Much More Positive" or "Somewhat More Positive' after Pilot Project.

Q2fx: Reason for Positive Change in Opinion *(Q2e = 4 or 5)*
➢ A lot safer
➢ Because I felt my children ride to school was safe
➢ Because my child is more safe
➢ Because of the safety
➢ Because there is much more safety
➢ Buses also get involved in accidents, and we should try to protect our children as much as we can.
➢ Children are safer on buses with seatbelts.
➢ Children not getting up and down out of their seats.
➢ Feel like the safety of my child is at a greater degree.
➢ Felt safer in case of an accident
➢ Having the lap/shoulder belts kids will stay more in their seats and bus driver can focus more on the traffic.
➢ I didn't want my child riding the bus however she insisted. Seatbelts helped me to feel more comfortable about her safety.
➢ I do have some concern about the bully issue. For example if a child were restrained and the bully was not. Then again if all children are restrained.
➢ I enjoy the seat belts. It help my children to wear their seat belts in the car to protect themselves.
➢ I enjoy the seatbelts. It also helps the kids to wear seat belts in the car with there parents.
➢ I feel lap shoulder belts have improved the level of order/discipline and safety on the school bus my son rides
➢ I feel like wearing seat belts is safer than not wearing seat belts.
➢ I feel the children are safer w/ the belts
➢ I feel they are safer!
➢ I feel very confident in the safety of both my children on the bus. Mrs. Wendy is an excellent driver and disciplinarian.
➢ I realize the safety issue, it that means a lot.
➢ I think all buses should have safely restraints because of the younger children.
➢ I think all the children should wear a seatbelt for all reasons. 1. Safety 2. Accidents 3. Helps the bus driver. 4. It is the law
➢ I think buses need seatbelts. Children have to wear one in car and I think they need them in all vehicles for safety
➢ I think it is safer!
➢ I think it was a very positive choice to make. It will keep all of our kids safe.

Parent Survey

II. Parents' Views of Lap/Shoulder Belts after Participation in Pilot Project: Posttest Data

Table 5. Reason for Change in View of Lap/Shoulder Belts among Parents Whose Opinion was "Much More Positive" or "Somewhat More Positive' after Pilot Project.

Q2fx: Reason for Positive Change in Opinion *(Q2e = 4 or 5)*
➢ I think that the seat belts keep the children from standing up on the bus and moving around a lot. It keeps them safe in case of an accident.
➢ I think using seatbelts make travel in a vehicle much safer.
➢ In case of an accident my child would probably be a lot safer with the lap and shoulder belt than not wearing one at all.
➢ In my opinion seatbelts are very important the children feel secure
➢ My child has not had any problems riding the bus any that I am aware of.
➢ My child puts his seatbelt on instantly because he said he is used to it on the bus.
➢ My child told me that the seat belts didn't make a difference. The bus driver did not enforce it.
➢ My opinion changed because this is the first my children ever rode a bus with seatbelts and I think it's a very good idea!
➢ My son was complaining of a kid picking on him because of his bookbag and know it has stopped.
➢ No reported child injuries on buses.
➢ Por que es mucho mas seguro cuando usamos el cinturon y los ninos trenen menos posidilidades de la vautarse de sus asientos
➢ Same rules should apply to buses as well as cars.
➢ Seatbelts are a good thing to have on the bus but some children still don't use them.
➢ Seatbelts are good for keep a child in their seat and not getting thrown in an accident. But what if they're where a fire and the seat belt got jammed.
➢ Seatbelts are required in cars and therefore should be required on buses!
➢ Seatbelts do save lives-it's the law and everyone should be wearing one.
➢ Seatbelts keep the children safe from bullying and /or accidents.
➢ Seatbelts will at least keep children from falling out of seats during accidents.
➢ Stayed the same because lap belts do not change the actions of the driver or other trafficers on the road.
➢ Stayed the same, seatbelts saves lives!
➢ The belts are much safer then when they didn't have any at all.
➢ They are safer when they are buckled
➢ They like the new bus and were willing to ride the bus vs. Being a car rider.
➢ This is a good and safe project
➢ Using the seat belt shows the students on how to respect riding in a car
➢ You won't fall out of the seats and be safer

Parent Survey

II. Parents' Views of Lap/Shoulder Belts after Participation in Pilot Project: Posttest Data

Table 6. Reason for Lack of Change in View of Lap/Shoulder Belts Stayed the Same after Pilot Project.

Q2fx: Reason for No Change (View of Lap/Shoulder Belts stayed "About the Same"--*Q2e=3*)
➢ **Because my children are small for their ages, I worried about them riding without the seatbelts but now I am more at ease.**
➢ Because we always wanted seat belts
➢ I agree on the seatbelt but I have concerned if in accident and bus catch on fire, etc. Could not get the children out in time because of seatbelt.
➢ I don't know
➢ I feel that my child's ride to and from school was already safe. By adding lap belts this has increased.
➢ I have always felt seat belts were needed.
➢ I have always had the view that seatbelts increase safety.
➢ I have always thought seatbelts were a good idea
➢ I have always thought there needed to be seatbelts on school buses.
➢ I think lap/shoulder belts are safer than not having any.
➢ It is no different there wasn't any accidents
➢ I've always felt it would be safer for all children on the bus if there were seatbelts on the buses.
➢ I've always felt that seatbelts were safer. I wish I had them when I was a kid riding the bus.
➢ Lap belts aren't worn at all times while bus is moving.
➢ My child said they don't use the seat belts - but I still think it is a good idea.
➢ My son didn't wear lap belts every time he gets on the bus
➢ No changes
➢ Not many of the children wore seatbelts while on the bus
➢ Not many of the kids wore the seatbelts, so everything stayed the same
➢ Safety restraints are not an option in my opinion - they are a necessity and should be on all buses.
➢ Safety wise it is better as far as restraint but concerning bullying and fighting it is the same. The students don't always wear their belts, children.
➢ Stayed same
➢ The bus was good experience and we never thought it would be anything but good-we have a great driver!
➢ They're belts and you wear them. No comments

Parent Survey

II. Parents' Views of Lap/Shoulder Belts after Participation in Pilot Project: Posttest Data

Table 7. Agreement with Statements Concerning Aspects of Lap/Shoulder Belts in School Buses, Posttest: Total Sample.

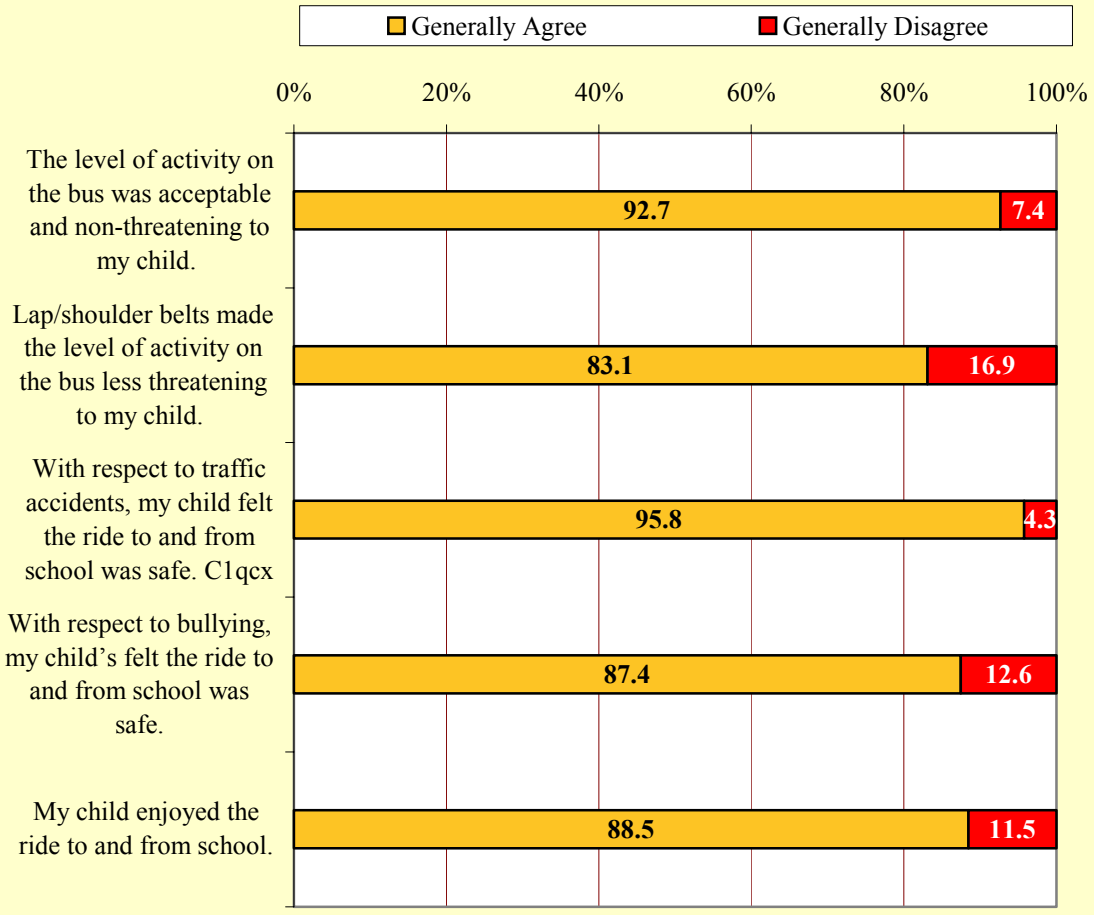
Statement	Level of Agreement Percentage Responses					Mean*	N
	Strongly Agree	Agree	Neither	Disagree	Strongly Disagree		
a. My child's ride to and from school is safe with respect to traffic accidents.	56.0	40.7	2.0	0.67	0.7	4.5	150
b. My child's ride to and from school is safe with respect to bullying or fighting with other children.	42.7	42.7	11.3	1.3	2.0	4.2	150
c. Seatbelts in school buses will make the ride to and from school safer with respect to traffic accidents.	54.0	38.0	6.0	1.3	0.7	4.4	150
d. Seatbelts in school buses will make the ride to and from school safer with respect to bullying.	38.0	40.0	17.3	3.3	1.3	4.1	150
e. In general, installing lap/shoulder belts ins buses is a good idea.	66.0	26.7	4.7	1.3	1.3	4.5	150
f. In general, installation of lap/shoulder belts will result in improved transportation of my child.	60.00	30.67	6.67	2.00	0.67	4.5	150

**Based on a five point scale as follows: Strongly Agree=5; Agree=4; Neither Agree nor Disagree=3; Disagree=2; Strongly Disagree=1;*

Parent Survey

III. Children's View of Lap/Shoulder Belts on Buses after Participation in Pilot Project

Figure 2. Children's Attitudes toward Safety of Ride to and from School after Installation of Lap/Shoulder Belts (Posttest Responses).



Parent Survey

III. Children's View of Lap/Shoulder Belts on Buses after Participation in Pilot Project

Table 8. Child's Age by View of Activity Level on the Bus—Posttest.

Age in Years	qa2(Activity level on the bus is acceptable and non-threatening.--Posttest)		Total
	Generally Agree	Generally Disagree	
3-5	36 97.30	1 2.70	37
6-9	62 92.54	5 7.46	67
10-13	72 91.14	7 8.86	79
14-17	18 90.00	2 10.00	20
Total	188	15	203

Table 9. Child's Age by View of Impact of Lap/Shoulder Belts on Activity Level on the Bus—Posttest.

Age in Years	qb2(Seatbelts will make the activity level less threatening.--Posttest)			Total
		Generally Agree	Generally Disagree	
3-5	**n** **%**	34 91.89	3 8.11	37
6-9	**n** **%**	57 86.36	9 13.64	66
10-13	**n** **%**	61 81.33	14 18.67	75
14-17	**n** **%**	10 62.50	6 37.50	16
Total		162	32	194

Table 10. Child's Age by View of Ride to and from School with Respect to Traffic Accidents—Posttest.

Age in Years	qc2(With respect to traffic accidents, my child feels the ride is safe.--Posttest)			Total
		Generally Agree	Generally Disagree	
3-5	**n** **%**	37 100.00	0 0.00	37
6-9	**n** **%**	63 90.00	7 10.00	70
10-13	**n** **%**	82 97.62	2 2.38	84
14-17	**n** **%**	20 100.00	0 0.00	20
Total		202	9	211

Parent Survey

III. Children's View of Lap/Shoulder Belts on Buses after Participation in Pilot Project

Table 11. Child's Age by View of the Ride to and from School with Respect to Bullying—Posttest.

Age in Years	qd2(With respect to bullying, my child feels the ride is safe.--Posttest)			Total
		Generally Agree	Generally Disagree	
3-5	n	35	2	37
	%	94.59	5.41	
6-9	n	53	12	65
	%	81.54	18.46	
10-13	n	70	9	79
	%	88.61	11.39	
14-17	n	15	2	17
	%	88.24	11.76	
Total		173	25	198

Table 12. Child's Age by Enjoyment of the Ride to and from School—Posttest.

Age in Years	qe2(My child enjoys the ride to and from school.--Posttest)			Total
		Generally Agree	Generally Disagree	
3-5	n	35	1	36
	%	97.22	2.78	
6-9	n	63	6	69
	%	91.30	8.70	
10-13	n	74	11	85
	%	87.06	12.94	
14-17	n	12	5	17
	%	70.59	29.41	
Total		184	23	207

Parent Survey

III. Children's View of Lap/Shoulder Belts on Buses after Participation in Pilot Project

Table 13. Child's Gender by View of Activity Level on the Bus—Posttest.

Gender		qa2(Activity level on the bus is acceptable and non-threatening.--Posttest)		Total
		Generally Agree	Generally Disagree	
Female	n	98	11	109
	%	89.91	10.09	
Male	n	91	4	95
	%	95.79	4.21	
Total		189	15	204

Table 14. Child's Gender by View of Impact of Seatbelts on Activity Level—Posttest Scores.

Gender		qb2(Installing lap/shoulder will make the activity level less threatening.--Posttest)		Total
		Generally Agree	Generally Disagree	
Female	n	86	16	102
	%	84.31	15.69	
Male	n	76	17	93
	%	81.72	18.28	
Total		162	33	195

Table 15. Child's Gender by View of Safety with Respect to Traffic Accidents—Posttest.

Gender		qc2(With respect to traffic accidents, my child feels the ride is safe.--Posttest)		Total
		Generally Agree	Generally Disagree	
Female	n	106	5	111
	%	95.50	4.50	
Male	n	97	4	101
	%	96.04	3.96	
Total		203	9	212

Table 16. Child's Gender by View of Safety with Respect to Bullying—Posttest.

Gender		qd2(With respect to bullying, my child feels the ride is safe.--Posttest)		Total
		Generally Agree	Generally Disagree	
Female	n	96	10	106
	%	90.57	9.43	
Male	n	78	15	93
	%	83.87	16.13	
Total		174	25	199

Parent Survey

III. Children's View of Lap/Shoulder Belts on Buses after Participation in Pilot Project

Table 17. Child's Gender by Enjoyment of the Ride to and from School—Posttest.

Gender		qe2(My child enjoys the ride to and from school.--Posttest)		Total
		Generally Agree	Generally Disagree	
Female	n	95	12	107
	%	88.79	11.21	
Male	n	89	12	101
	%	88.12	11.88	
Total		184	24	208

Table 18. Child's Gender by View of Activity Level on the Bus.

Gender		qa2(Activity level on the bus is acceptable and non-threatening.--Posttest)		Total
		Generally Agree	Generally Disagree	
Female	n	69	6	75
	%	92.00	8.00	
Male	n	54	3	57
	%	94.74	5.26	
Total		123	9	132

Table 19. Child's Gender by View of Impact of Lap/Shoulder Belts on Activity Level on the Bus—Posttest Scores

Gender		qb2(Seatbelts will make the activity level less threatening.--Posttest)		Total
		Generally Agree	Generally Disagree	
Female	n	61	10	71
	%	85.92	14.08	
Male	n	51	7	58
	%	87.93	12.07	
Total		112	17	129

Table 20. Child's Gender by View of Safety of the Ride with Respect to Traffic Accidents—Posttest Scores

Gender		qc2(With respect to traffic accidents, my child feels the ride is safe.--Posttest)		Total
		Generally Agree	Generally Disagree	
Female	n	73	3	76
	%	96.05	3.95	
Male	n	59	2	61
	%	96.72	3.28	
Total		132	5	137

Parent Survey

III. Children's View of Lap/Shoulder Belts on Buses after Participation in Pilot Project

Table 21. Child's Gender by View of Safety of the Ride with Respect to Bullying—Posttest Scores

Gender	qd2(With respect to bullying, my child feels the ride is safe.--Posttest)			Total
		Generally Agree	Generally Disagree	
Female	n	65	6	71
	%	91.55	8.45	
Male	n	45	12	57
	%	78.95	21.05	
Total		110	18	128

Table 22. Gender by Child's Enjoyment of the Ride to and from School—Posttest Scores

Gender	qe2(My child enjoys the ride to and from school.--Posttest)			Total
		Generally Agree	Generally Disagree	
Female	n	69	4	73
	%	94.52	5.48	
Male	n	55	7	62
	%	88.71	11.29	
Total		124	11	135

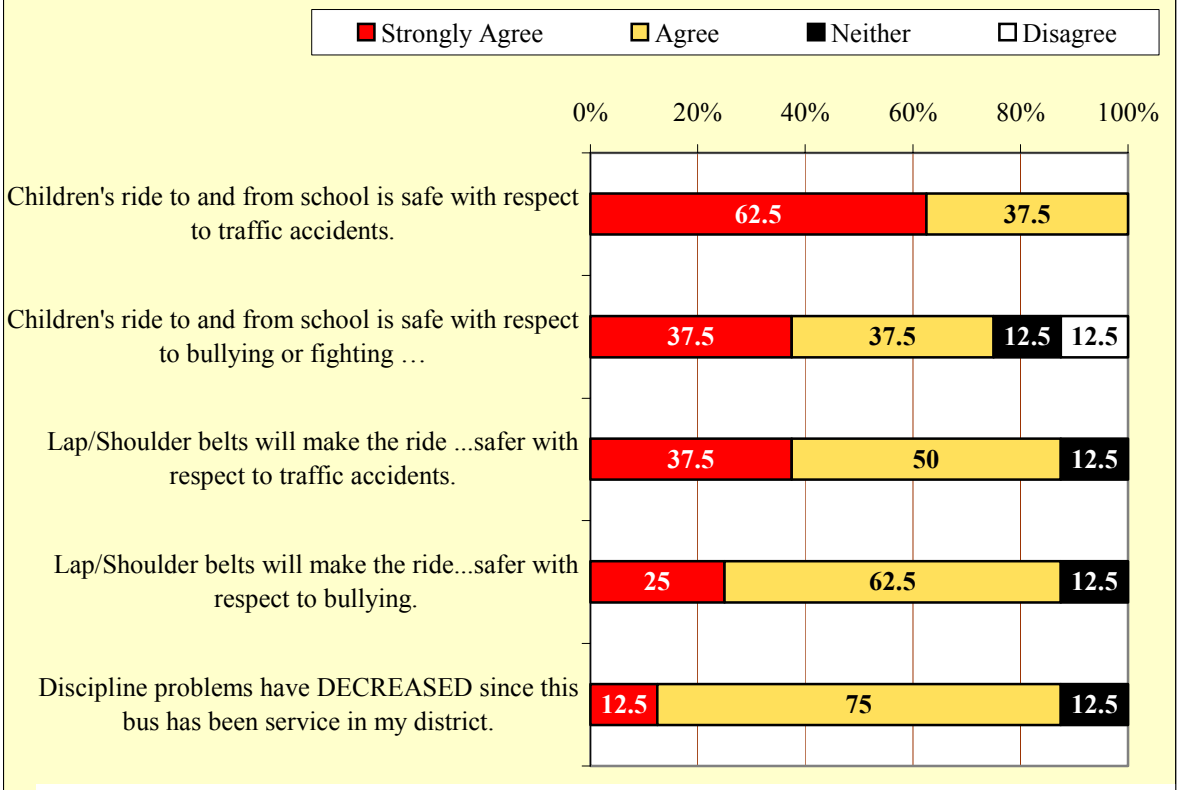
IV. Principal View of Lap/Shoulder Belts after Participation in Pilot Project: Posttest Data

Table 23. Schools Represented in Principal Survey.

School	Pretest	Posttest
Davis Drive Middle School	✓	
E.E. Waddell High School		✓
Fox Road Elementary		✓
Heyward C. Bellamy		✓
Lower Creek	✓	
Mt. Pleasant Elementary School		✓
Mt. Pleasant Middle	✓	
Murray Middle School		✓
Newell Elementary	✓	✓
P.S. Jones Middle School		✓
Pinnacle Elementary	✓	
Tramway Elementary		✓
University Meadows Elementary		✓
Waccamaw School	✓	
Total Number	**6**	**9**

IV. Principal View of Lap/Shoulder Belts after Participation in Pilot Project: Posttest Data

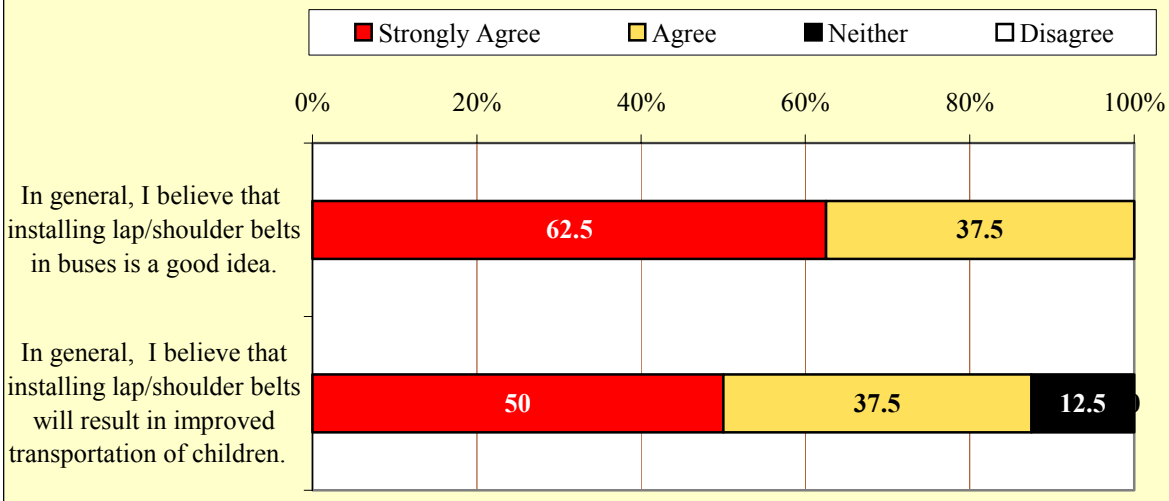
Figure 3. Level of Agreement with Items Pertaining to Lap/Shoulder Belts in Buses(QIa-Q1d, Q2a-Q2b): Posttest Responses-Principals.



**No respondents chose Strongly Disagree. NOTE: Analysis is based on group data, rather than matched pairs, and thus, cannot be treated as indicating change over time*

IV. Principal View of Lap/Shoulder Belts after Participation in Pilot Project: Posttest Data

Figure 4. General Assessment of Lap/Shoulder Belts in Buses(QIa-Q1d, Q2a-Q2b): Posttest Responses-Principals.



N=9

**No respondents chose Disagree or Strongly Disagree. NOTE: Analysis is based on group data, rather than matched pairs, and thus, cannot be treated as indicating change over time*

Table 24. Principal Comments on Lap/Shoulder Belts, (Pre- and Posttest Q2c).

➢ My concern is that if an accident did occur how quickly we could get kids out of little out door. After seeing bus I'm concerned about room between seats for leg room and width/I don't think we can get as many in seats as it says.
➢ I believe that lap/shoulder belts on this bus has improved our safety and discipline while transporting students. However, we had trouble enforcing the use of the belts since students were told that we could not require them to wear them. I encouraged students to wear the whenever possible, but without being able to enforce the rule, it was difficult to tell whether the belts made much of a difference or not.
➢ Safety is a major factor related to seat belts. I would like to see safety belts (lap/shoulder belts) on all of our buses. Thank you for your interest in the safety of our students.

Bus Driver Survey

V. Bus Driver Survey Background Information[3]

Table 25. Bus Driver Survey—Respondent Information.

School	Title	Bus
Bellamy Elementary/Murray Middle School	Driver	306
Caldwell County Schools	Driver	116
East Wake	Driver	1085
Green Hope High	Driver	1102
Lower Creek Elementary	Driver	116
MPMS/MPHS 323	Driver	134
Mt. Pleasant Elementary	AP/Bus Supervisor	134
New Hanover County	Transportation Coordinator	
Pinnacle	Driver	196
Stokes County	Transportation Director	196
Tramway Elementary	Transportation Director	194
Tramway Elementary	Driver	194
Total Schools Represented: 12	**Total Drivers Responding: 12**	

[3] *Note: Bus drivers were surveyed only during the posttest phase.*

Bus Driver Survey

VI. Bus Driver Agreement with Statements Concerning Lap/Shoulder Belts after Participation in Pilot Project: Posttest Data.

Table 26. Bus Driver Agreement with Statement: Lap/shoulder have made children's ride to and from school safer with respect to possible traffic accidents (q1a).

q1a	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Strongly Agree	5	41.67	5	41.67
Agree	7	58.33	12	100.00

Table 27. Bus Driver Agreement with Statement: Lap/shoulder have made children's ride to and from school safer with respect to bullying or fighting with other children (q1b).

q1b	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Strongly Agree	7	58.33	7	58.33
Agree	4	33.33	11	91.67
Neither	1	8.33	12	100.00

Table 28. Bus Driver Agreement with Statement: Lap/shoulder belts in school buses have reduced discipline problems on the bus I drive (q1c).

q1c	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Strongly Agree	6	50.00	6	50.00
Agree	5	41.67	11	91.67
Disagree	1	8.33	12	100.00

Table 29. Mean Scores on Items Pertaining to Agreement with Statements Concerning Lap/Shoulder Belts—Bus Driver Survey.*

Question	Statement	Mean	N
q1a	Lap/shoulder have made children's ride to and from school safer with respect to possible traffic accidents.	4.4	12
q1b	Lap/shoulder have made children's ride to and from school safer with respect to bullying or fighting with other children.	4.5	12
q1c	Lap/shoulder belts in school buses have reduced discipline problems on the bus I drive.	4.3	12

**Based on a five point scale as follows: Strongly Agree=5; Agree=4; Neither Agree nor Disagree=3; Disagree=2; Strongly Disagree=1;*

Bus Driver Survey

VII. Responsibility for Requiring Fulltime Use of Lap/Shoulder Belts: Posttest Data

Table 30. Party Responsible for Setting Expectation to Wear Lap/Shoulder Belts--Elementary Schools.

q2a_1 by q2b_1			
School		Bus Driver	Total
		Yes	
Yes	n	10	10
	%	83.33	83.33
No	n	2	2
	%	16.67	16.67
Total		12	12
		100.00	100.00

Table 31. Party Responsible for Setting Expectation to Wear Lap/Shoulder Belts--Middle Schools.

q2a_2 by q2b_2			
School		Bus Driver	Total
		Yes	
Yes	n	3	3
	%	50.00	50.00
No	n	3	3
	%	50.00	50.00
Total		6	6
		100.00	100.00

Table 32. Party Responsible for Setting Expectation--High Schools

q2a_3 by q2b_3			
School		Bus Driver	Total
		Yes	
Yes	n	2	2
	%	100.00	100.00
No	n	2	2
	%	100.00	100.00
Total		2	2
		100.00	100.00

Bus Driver Survey

VIII. Regular Student Use on Bus Run: Posttest Data

Table 33. Elementary School: Estimate the percentage of regular usage by the students on each bus run

q2d_1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
80%	1	9.09	1	9.09
95	2	18.18	3	27.27
98	3	27.27	6	54.55
100	5	45.45	11	100.00

Table 34. Middle School: Estimate the percentage of regular usage by the students on each bus run

q2d_2	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0%	1	20.00	1	20.00
60%	2	40.00	3	60.00
80%	1	20.00	4	80.00
95%	1	20.00	5	100.00

Table 35. High School: Percentage of regular usage by the students on each bus run

q2d_3	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0%	1	50.00	1	50.00
80%	1	50.00	2	100.00

Table 36. Summary Table: Percentage Regular Student Use of Bus.

Elementary Schools		Middle Schools		High Schools	
Percentage Reported	**Number of Schools**	**Percentage Reported**	**Number of Schools**	**Percentage Reported**	**Number of Schools**
80%	1	0%	1	0%	1
95%	2	60%	2	80%	1
98%	3	80%	1		
100%	5	95%	1		
Average Percentage:	**96.7**	**Average Percentage:**	**59.0**		

IX. Bus Driver Agreement with Statements Concerning General Usefulness of Lap/Shoulder Belts: Posttest Data

Table 37. Bus Driver Agreement with Statement: In general, Installing Lap/Shoulder Belts in Buses is a Good Idea.

Q3a	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Strongly Agree	6	50.00	6	50.00
Agree	4	33.33	10	83.33
Neither	1	8.33	11	91.67
Disagree	1	8.33	12	100.00

Table 38. Bus Driver Agreement with Statement: In general, I believe that Installation of Lap/Shoulder Belts Resulted in Improved Transportation of Children.

Q3b	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Strongly Agree	6	50.00	6	50.00
Agree	5	41.67	11	91.67
Neither	1	8.33	12	100.00

X. Bus Driver Comments on Lap/Shoulder Belts: Posttest Data

Table 39. Driver ID by Problems Encountered in Use of Seatbelts and General Comments*

Driver ID	q4a: Problems Encountered	q5a: General Comments
1	All problems encountered were minor such as: young or special needs children had trouble fastening their own seatbelts, and the seat backs are so high that I have to depend on other students to tell me if someone unbuckles (they are usually glad to do that).	In general, they help to produce a much calmer atmosphere where I can concentrate on driving rather than discipline. They also prevented my sleepy little ones from falling off the seats if they went to sleep.
2		The current configuration of the 3-point seats is not conducive to middle and high school students.
3	The inability to monitor the activities in the seats due to the blocked vision of high backed seats. Not being able to see out backdoor due to position and height of seats	For elementary students, the seatbelts enables me to keep small children seated and out of the aisle. The higher seats stop all playing between children in seats in front of them. All in all, they worked well for small children.
6	I'm not having any problems with the seat belts. I love them. The children's bus ride home has been safer. My reasons for saying that is you don't have to stay on the kids for not being in their seats, so the bus driver can focus more on the road. When you are constantly having to take your eyes off the road to talk to children about being out of their seat, that quickly you could run off the road. It really doesn't take much. So, I say again, installing seat belts on the bus was the best thing you could have ever come up with! Thanks!	Also, if the children have to ride in the cars with seat belts for safety, they should have to on the bus and anything else they have to transport kids in.
7	There is too much slack in the seatbelts. Even with them buckled, there are kids who stand, turn around, lean way out in the aisle, etc.	
9	The seats are much higher and I can't see the children. The aisle is off center and I can only see the outside of the right side seats. The bus is longer and I can't be heard in the back of the bus. The aisle is very narrow, and combined with the higher seat back, it is had to walk down the aisle. The space between the sears is so close there is limited space for book bags. The space allotted in each seat makes it crowded for middle and high school students.	
12	Several students, even after being shown how to wear the belts correctly, did not wear the belts at all or properly. The students were told that we would like for them to wear the belts, but we could not require them to be worn. It would be nice if we could enforce the rule.	I think the belts are a good idea and that they improve the quality of transportation of students. Is there any way to decrease the height of the passenger seats? The improved discipline may be a result of not being able to see what is happening.

**No comments or problems were cited by respondents 4, 5, 8, 10, and 11.*

Bus Driver Survey

X. Bus Driver Comments on Lap/Shoulder Belts: Posttest Data

Table 40. ***Problems Encountered in Use of Seatbelts--Categories***

Category of Problem	Number of Times Problem was Cited
➢ High backed seats impair driver's ability to see children and activities in back of bus	3
➢ Children have trouble fastening seatbelt	1
➢ Too much slack in belts when kids are buckled in	1
➢ Length of bus impairs driver's ability to hear children in back	1
➢ Limited space in aisles and between seats	1
➢ Children refuse to wear the belts. Should be enforceable.	1
➢ No problems: seatbelts are great	1

Table 41. Agreement with Statements Concerning General Usefulness of Lap/Shoulder Belts by Driver ID and Type of Problems Encountered with Use of Lap/Shoulder Belts.

Driver ID	Statement / Response		Problems Cited in Question 4						
	q3a In general,… installing lap/shoulder belts in buses is a good idea.	**q3b** In general, …insta-llation of lap/ shoulder belts results in improved transporta-tion...	*High backed seats impair driver's ability to see children/ activities in back of bus*	*Children have trouble fastening seatbelt*	*Too much slack in belts when kids are buckled in*	*Length of bus impairs driver's ability to hear children in back*	*Limited space in aisles and between seats*	*Some students refuse to wear belts; must be able to enforce the rules.*	*No problems: seatbelts are great*
1	Strongly Agree	Strongly Agree	✓	✓					
2	Strongly Agree	Strongly Agree							
3	Disagree	Agree	✓						
6	Strongly Agree	Strongly Agree							✓
7	Strongly Agree	Strongly Agree			✓				
9	Agree	Agree	✓			✓	✓		
12	Agree	Agree						✓	

**Seven of the twelve drivers made comments in question 4.*