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ABSTRACT

This report is the result of a survey conducted in Connecticut to determine the status of environmental education in the elementary and secondary schools. One major purpose of the survey was to identify the principal strategies used to introduce environmental education to the school programs. The two most popular methods being used nationwide were integration and course addition. Different questionnaires for grades K-6 and 7-12 were developed and distributed throughout the state. The results of the survey indicated that integration was used most often in both elementary and secondary schools; however, the degree to which this method was utilized decreased in the higher grade levels where more course offerings were available. Also, it was found that the environmental education programs were primarily science oriented, at both the elementary and secondary levels. Recommendations included the need for more integration of the social, political, and aesthetic aspects of environmental education, as well as for more inservice teacher preparation and dissemination of information on existing environmental education materials. (MA)

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Connecticut State Department of Education Bureau of Elementary and Secondary Education

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Introduction

Over the past few years there has been a great deal of interest and activity in environmental education. Some support for this activity has come from federal, state, private, and other concerned institutions and groups. This support has been largely in the form of program and material development, and the organization of workshops, inservice opportunities, and conferences.

As a result of this interest, a veritable avalanche of environmental education materials has been developed. New programs and instructional approaches have come forth and are still coming forth with great frequency. This present abundance of programs is a happy contrast to the situation of a few years back when such resources were in short supply.

A major portion of the activity in environmental education has been undertaken by those groups on the firing line - the local school districts which must make provisions for their students.

In an effort to determine the status of environmental education in the elementary and secondary schools of Connecticut, a survey was undertaken to learn of the types of course and topic offerings, and the ways in which these offerings were placed in the school program. The survey was initiated by the Connecticut State Department of Education and the Connecticut State Council for Environmental Education with the support of the Northeast Environmental Education Development group, a consortium of nine northeastern states of which Connecticut is a member.

Special acknowledgment and thanks are given to the many individuals in local systems who filled out the questionnaires and returned them to the Department.

Environmental Education - Definition and Approaches to Instruction

Because it touches upon so many subject matter areas, environmental education is often defined as that discipline which is concerned with the biological, physical, and cultural aspects of our world. From an instructional standpoint, environmental education is especially suited to cross disciplinary approaches. It ranges from such science oriented topics as energy generation and air pollution to aesthetically oriented topics such as architecture and land usage to socially oriented concerns as the role of governments in the continual tradeoffs which must be considered in order to coordinate environmentalism with economics.

On a national scale, the literature indicates that two major strategies have been used in introducing environmental education into school programs - integration and course addition.

Integration involves the placement of appropriate environmental topics into existing subject offerings. For example, at the secondary school level, a course in biology can be modified to include topics such as eutrophication or biodegradation. A course in economics might be modified to include the effects of developing urban transportation systems on the economics of metropolitan areas. Integration can be used at the elementary level by introducing environmental topics into reading, science, social studies, and other programs.

The second approach to the placement of environmental education in the school program is by the addition of separate courses. Subjects uch as "Environment and Man'," "Science and Society," "Ecology," and "Environmental Education" are added to the program of studies on a full year, semester, or minicourse basis. Often these courses will utilize the instructional capabilities of teachers from various subject matter areas.

One of the major purposes of the survey was to determine what patterns were in use in Connecticut. Such information could then be used by those attempting to modify their school programs to include environmental education as an area of instruction.

The Survey

Two questionnaires were developed - one each for the K-6 and 7-12 levels. The elementary school questionnaire dealt with the patterns of environmental education offerings, methods of integration, time spent on topics, outside school activities, instructional responsibilities, utilization of guides and media, and the grade placement of selected topics.

The secondary school questionnaire dealt with patterns and grade levels of offerings, time devoted to courses or topics, outside activities, teachers backgrounds, and topic emphasis. It should be noted that questionnaires were sent to districts--not to individual schools--and that responses were collected on a district-wide basis.

Questionnaires were sent to all public school districts and Archdioceses in the State. Elementary school returns were received from 119 districts and the Archdioceses of Hartford and Bridgeport. Secondary school returns were received from 113 school districts, the Shanti School, and the Archdioceses of Bridgeport.

This represents a return of 80% for the public school districts and 67% for the private districts at the elementary school level. At the secondary school level there was a 76% return for the public school districts and a 33% return for the Archdiocese districts.

Highlights of the Survey

A. Elementary (K-6)

1. Ninety-nine percent of the districts responding indicated that environmental education was offered in some form in grades K and 1. One hundred percent of the districts responding indicated that environmental education topics were offered at each grade level from 2 through 6.



2. In over 96% of the cases, environmental education topics were integrated into other subjects either as a planned part of the other subject, as a planned unit added to the subject, or as incidental instruction deemed appropriate by the teacher.

3. In 3.6% of the districts, environmental education was offered as a separate subject. In such instances, two or less hours per week were offered by 77% of the districts, three hours per week by 21% of the districts, and four or more hours per week by the remaining 2% of the districts.

4. Sixty-seven percent of the districts integrating environmental education topics into existing subject matter areas do so into a combination of areas. This combination includes such subjects as language arts, mathematics, science, social studies, and art.

5. When environmental education is integrated into one subject matter area, science is the predominant choice (22% of the districts) followed by social studies (5% of the districts). Language arts, mathematics, art, and health (1% each) are utilized for this purpose to a much smaller extent.

6. The primary responsibility for instruction in EE lies with the classroom teacher in 85% of the cases. In 14% of the cases, the classroom teacher has the help of a specialist or coordinator. In less than 1% of the cases, environmental education topics are taught by a specialist, coordinator, or someone other than the classroom teacher.

7. Seventy percent of the districts report that some of the elementary school teachers have participated in EE workshops, curriculum development projects, or meetings within the last year.

8. Forty-seven percent of the districts indicated that their elementary schools make use of local curriculum guides, twenty-nine percent make use of State guides. Sixteen percent make use of an EE text series.

Eighty-seven percent reply on the teacher to select the content of the program. Ninety-five percent report the use of student activities in their program.

9. Only 3 percent make use of a standardized testing program in environmental education.

10. Eighteen percent of the reporting schools make use of films very often, 70% occasionally, and 12% rarely.

ll. Resource persons are utilized very often in the environmental education programs of 9% of the elementary schools; occasionally in 53%, rarely in 34%, and never in 4%.

12. The more popular topics in the primary grades are resource conservation, water pollution, food production and distribution, and personal and social responsibilities toward environmental quality.

In the intermediate grades, the more popular topics are urban development, use of technology, environmental laws, resource management, and population mobility.



B. Secondary (7-12)

1. Environmental education is offered in various ways in the secondary schools of Connecticut. Thirteen percent of the districts report that schools containing grades 7, 8, and 9 offer environmental education as a separate course. Thirty-four percent of the districts report that in schools containing grades 10-12 environmental education is offered as a separate course.

2. The percentage of schools offering environmental education as a separate course increases with each grade level from 8 (11%) to 12 (58%). Thirteen percent of the districts report their schools offer environmental education as a separate course in grade 7.

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3. The percentage of schools requiring of all students environmental education as a topic--not necessarily a course--decreases each year from 16% in grade 7 to 1% in grade 12.

4. In most cases (average of 62% for grades 7-9 and 53% for grades 10-12) environmental education topics are offered as a part of other courses. As at the elementary level, although by not as great a percentage, secondary schools utilize integration of environmental education topics as the predominant method for making offerings in that area.

5. When environmental education topics are integrated into other courses, they are usually placed in these courses as planned units (52% Grades 7-9, 41% Grades 10-12). Second to this approach is incidental instruction where deemed appropriate by the instructor (35% Grades 7-9, 29% Grades 10-12). In s smaller number of instances, the integrated units are a part of a planned program of study (12% Grades 7-9, 28% Grades 10-12).

6. When environmental education is offered as a separate subject, it usually receives four or more periods per week in which to be tuaght. These periods are most often 41-50 minutes in length.

7. Field trips are the most common form of extracurricular activity in environmental education (41% Grades 7-9, 36% Grades 10-12), followed by outdoor programs on school sites (37% Grades 7-9, 30% Grades 10-12), and then by trips to nature centers (14% Grades 7-9, 25% Grades 10-12). Other activities such as clubs, fairs, and so on are engaged in to a lesser degree.

8. The academic background of the teacher or teachers offering instruction in environmental education is most often in the sciences (43% Grades 7-9, 60% Grades 10-12). Teachers whose backgrounds cross subject discipline areas or teams of teachers with different subject matter backgrounds are next in frequency (31% Grades 7-9, 18% Grades 10-12). Teachers with backgrounds in the social studies (4% Grades 7-9, 5% Grades 10-12), fine arts (3% Grades 7-9, 2% Grades 10-12), or the practical arts (3% Grades 7-9, 2% Grades .10-12) are involved much less frequently.

9. When environmental education is integrated into existing subjects, it is most often placed into a combination of disciplines (51% Grades 7-9, 44% Grades 10-12). The most popular single subject utilized for integration is science (38% Grades 7-9, 40% Grades 10-12). This is followed by social studies (13% Grades 7-9, 13% Grades 10-12): Language arts and fine arts are utilized to a very small (1-2%) degree.



10. Over 50% of the districts responding indicate that, at the secondary school level, they give major emphasis to recycling, food chains, and webs, personal and social responsibilities to environmental quality, wetlands, air pollution, water pollution, and water resources. Over 50% of the districts responding indicate that they give minor attention to mineral resources, forest resources, land usage, soil pollution, urban development, solid waste disposal, population patterns, food production and distribution, sewage disposal, environmental aesthetics, open space rerequirements, and mass transportation. Of those districts reporting no instruction in a given topic--coastal zone management scored highest with 42%.

11. Many resources and resource personnel are used in environmental education. Occastional use is made of local curriculum guides (24%), state curriculum guides (40%), environmental textbooks (34%), outside resource persons (54%), and displays (58%). Frequent use is made of student planned activities (43%), supplementary readings (45%), and films (52%).

Discussion

Environmental education is making its way into the instructional programs of Connecticut's schools. The predominant form of presentation of environmental education topics is integration at both the elementary and secondary levels. As should be expected, the degree to which this procedure is utilized decreases as one proceeds up the grade sequence and opportunities for course offerings increase.

E-vironmental education offerings are heavily science oriented. The data gathered indicate that this is true at both the elementary and secondary levels. Since environmental education is cross disciplinary, consideration should be given to increasing attention to environmental concerns in other subject-matter areas. While it is true that many environmental topics such as energy utilization, air pollution, land use planning, and environmental legislation, have had the science implications stressed, the social, political and aesthetic implications are equally important and will, perhaps, in the future, have har reaching effects on our standards of living and our ability to survive on this planet. This emphasis on futurism and the closed ecosystem is a viable need in the social studies and humanities programs of the schools.

Combining results for the returns from the elementary and secondary school indicates that in the majority of instances environmental education topics are integrated into existing subjects as incidental instruction or as unspecified units. It would appear therefore, that additional attention should be given to inservice education and the dissemination of information about presently existing environmental materials and teaching techniques. This would provide a means to enhance the integration of environmental education topics into the planned activities of the subject areas in which they are taught.



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CONNECTICUT STATE DEPARTMENT OF EDUCATION Bureau of Elementary and Secondary Education Hartford

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Elerentary Schools

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Que	estic	ons								
A.	Whi	ich pattern of environmental			Re	spon	se			
	at	each grade level?	Grade K	a 2%	ь 46%	c 11%	d 40%	e 17	<i>1</i> b	
	a.	a separate subject scheduled each week	1	2	63	9	25	1		
	ь.	correlated or integrated in	2	3	62	15	20	0		
		other subjects but not as specific units	3	4	64	19	13	0		
	c.	planned units taught in other	4	5	5 9	26	10	0		
	- •	subjects	5	4	5 5	29	12	0		
	đ.	incidental instruction when deemed appropriate by the teacher	6	5	53	28	14	0		
	е.	not taught				•				
Β.	If	you chose answer a. (separate		_	Res	spon	se			
	sub gra wee	de, estimate how many hours per k are devoted to environmental	Grade K	а 86%	b 0%	с Ц%	d 0%			
	edu	cation:	1	43	57	0	0			
	a.	l or less	2	33	67	0	0			
	Ъ.	2	3	30	40	30	0			
	¢.	3	4	40	20	30	10			
	d.	4 or more	5	25	3 8	37	Ο.			
			6	2 9	42	29	0			
C.	If	you answered (b) or (c) to			Res	pons	se		_	
	env: teg:	ironmental education is in- rated into courses	Grade K	a 10,5	ь 0%	c 11%	d 5%	е 2%	f 71%	g],
	•	Jenmus de leute	1	3 ·	1	18	7	j	69	1
	a ,	Tanguage ares	2	1	1	19	8	1	69	1
	b.	mathematics	. 3 .	0	1	2 1	8	1	65	ו
	с.	sciences	,	7	-	00		- -	()	~
	d.	social studies	4	T	т . •	KY ~ .	4	T	60	T
C	c.	art :	5	0	2	24	4	1	68	1
W ERIC				8						

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Questions C. (Cont'd)

	•		Response											
	I.	combination of above	Grede 5	a 0	b 2	с 21,	, ,	1	e 1	f 68	g			
	8.	Health Education			~		-	•	*	00	-			
D.	Wh	at is the estimated number of	6	0	2	27 R	[espc	nse	l e	68	1			
	vi	ronmental education?	Grade K	a 83%	ь 16%	с 1	ž Č	1 175	е 0%					
	а.	less than 40	1-3	63	31	3	3	\$	0	•				
•	ъ.	41-75	4	48	42	6	4	•	0					
	, c.	76-110	5	42	41	12	4		1					
	d.	111-150	6 [.]	42	39	12	5		2					
	e.	more than 150												
E.	Wha are	t activities outside the school included in the environmental	Grada	a	ь (Re	espo:	nse	2					
	edu	cation program?	K	71%	61%:	2%	19%	4%						
	а.	field trips	1-3	7 9	70 3	} .	36	6						
	Ъ.	outdoor programs on school sites	4	75	69 5	5	36	6						
	с.	summer camps	5	7!	73 3	}	38	7						
	•	•	6	63	85 4	F	34	9						
	α.	nature centers						•						
	e	others (please specify)												
F.	Who	has the primary responsibility	•			Re	spon	se						
	101	the class in the class	Grade K~3	a 88	ю 12	с 0	d 0	e	€)					
	8.	the classroom teacher	١.	85	15	0	0	~	`					
	Ъ.	classroom teacher with help of	*		L)	U	.0	.C	,					
		a specialist or coordinator	5	85	14	l	0	0)					
	с.	environmental education coor- dinator, supervisor or spe- cialist	6	83 	16	1	0	0) -					
	d.	environmental education teacher												

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other (specify) €.



Questions

G. During the past school year, did elementary classroom teachers participate in teachers meetings, workshops, or curriculum development in any area of environmental education?

Response a b 70% 30%

- a. yes
- b. no
- H. In your program of environmental Response education, do your elementary Ъ a schools 2% 71% a. yes use state curriculum guide? 47 53 Ъ. no use a local curriculum guide? 16 84 use an environmental educa-87 13 tion text series? 95 5 leave the content to the individual teacher? 3 97 utilize pupil activities in the program use standardized testing programs I. To what extent do your elementary
- Response schools use films in environmental Grade a Ъ C d education? K-3 15% 69% 16% 0% a. very often 4-6 22 70 8 0
 - b. occasionally
 - c. rarely
 - d. never

J. To what extent do your elementary Response ... schools use resource persons in en- Grade a b c d vironmental education? K-3 8% 49% 39% 4%

a. very often 4-6 10 57. 30

b. occasionally

- c. rarely
- d. never

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- K. Where do the following topics first receive major emphasis in your environmental education program
 - a. Grades K-2
 - b. Grades 3-4
 - c. Grades 5-6
 - d. not considered

e. no planned program		Re	spon	ses	• • •
Mineral Resources	a 22%	ь 37%	с 26%	d 25	e 13%
Wet Lands	14	39	30	3	14
Air Pollution	53	21	15	0	11
Forest Resources	35	40	16	0	9
Water Pollution	51	27	12	1	9
Land Usage	1/4	40	25	3	18
Coastal Zone Mgt.	1	10	:4	16	[.] 49
Soil Pollution	15	31	33	2	19
Urban Development	7	24	3 1	9	29
Mass Transp.	18	20	25	7	30
Water Resources	28	35	25	0	12
Solid Waste Disposal	7	11	37	11	34
Population Patterns	3	15	34	14	34
Food Prod. & Distribution	38	29	16	0	17
Recycling	31	26	23	3	17
Sewage Disposal	5	18	39	6	32
Fopulation Mobility	4-	17	29	10	40
Environmental Aesthetics	36	15	21	2	26
Open Space Requirements	5	10	29	12	44
Food Chains & Webs	28,	27	18	3	24
Birth-Death Ratio	3	4	26	16	51
Pers. & Social Resp. toward Environmental Quality	53	14 4	12	4	17
		· 74			



K. (Cont'd)

Where do the following topics first receive major emphasis in your environmental education program

- Grades K-2 8.
- Grades 3-4 ъ.
- Grades 5-6 ¢.
- d. not considered
- e. no planned program

e. no planned program				Res	ponses
Man-Land Ratio	a 4%	ь 7%	с 28%	d 12%	e 49
Use of Technology	6	24	34	7	29
Environmental Laws	6	21	37	5	31
Resource Management	5	13	31	10	41

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Secondary Schools

Questions A. Do your secondary schools offer a Response separate course in environmental Grade b a education? 13% 87% 7 yes a. 8 11 89 Ъ. no 9 16 84 10 23 77 11 38 62 12 42 58

Β.	Whi	ch best describes the status of	Response					
	ond	lary schools?	- Grad 7	le a 24%	ь 1%	с 4%	d 5%	e 12%
	a.	required of all students	8	16	2	6	60	16
	Ъ.	required of some students	9	8	2	14	66	10
	с.	an elective course is offered	10	7	3	23	64	3
	đ.	some environmental education is available in other courses	11	1	2	43	49	5
	е.	none is offered	12	1	2	46	47	4
C.	If teg: bes:	environmental education is in- rated into other courses, which t describes how this is done?	Grade 7	Re • • a 34%	spons b 55%	se - c 10%	d 1%	~
	a.	incidental instruction when deemed appropriate	8	41	46	12	1	
	•		9	32	55	13	0	

- planned units included in Ъ. other courses
- a planned program of study c. .ich specific units planned in various courses
- d. other (specify)



13

26 1

27 3

28 3

10

11 ·

12

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23

35 35

32 37

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Questions (Cont'd)

D.	If fe: mai	environmental cducation is of- red as a separate subject, how my periods per week are devoted	Grade 7	Ra a	b b	ise Č	d arr
	to	it.	1	00/3	ניוכ יו	0%	Sliv
	a.	l or less	8	27	6	0	67
	ъ.	2	9	7	7	0	8 6
	c.	3	10	5	5	15	75
	d.	4 or more	11	3	3	11	83
			12	2	2	11	85
E.	Wha men	t is the length of the environ- tal education class period?	Grade	Re	spon:	se	A
	a.	30 minutes or less	7-8	45	8%	72%	16%
	b.	31-40 minutes	9	0	20	50	30
	c.	41-50 minutes	10-12	0	ц	61	23

d. 50 or more minutes

What activities outside the school F. Response are included in the environmental Grade a Ъ С d education program? (Circle more е 7 62% 57% 2% 22% 11% than one letter if appropriate.) 8 55 57 2 19 10

- a. field trips 9 45 48 2 b. outdoor programs on school ____ sites 10 52 48 3 c. summer camps 11 **48** 37 2
- d. nature centers
- e. others (please specify)

G. Where environmental education is Response offered as a separate course, what Grade b а đ best describes the academic back-С е h 0% 15% 7 25 43% 2% 3% 0% 35% ground of the teacher(s) involved? 8 3 42 3 0 3 0 15 34 a. social studies 9 7 44 4 0 4 0 19 22 Ъ. sciences 10 12 44 3 0 3 0 15 23 c. practical arts 11 64 4 2 0 2 2 10 16 language arts d. 12 2 66 2 0 2 2 9 17 fine arts e. ſ. mathematics

12

52 42

other (specify) H. comb. of above

14

12

17

17

2 18

8

10

12

<u>Que</u> H.	estic If is are do	ons (Cont'd) planned environmental education incorporated into other subject eas, where is this most typically ne?	Grade 7-9	a 35%	b 3 13	e c e c	Re:	spo d 0%	nse e 0%	f 1%	Е 0%	h 51%
	a.	sciences	10-12	40	13	1	. (0	0	1	1	44
	Ъ.	social studies										
	c.	language arts										
	d.	mathematics										
	e.	practical arts										
	f.	fine arts	-									
	g.	other (specify)										
	h.	comb. of above										
1.	In ext fol	your secondary schools, to what ent do you make use of the lowing?										·
	a. [.]	always										
	b .	very often				•						
	c.	occasionally										
	d.	rarely										
	e.	never										
		local curriculum guide in environmental education	a 16%	Resj b 243	pons c 26%	e . d %	e 25)	3				
		state curriculum guide	l	6	40	21	32					
		environmental education textbooks	14	28	34	13	11					
		student planned activities	7	43	37	9	4					
		outside resource persons	4	16	54	2 1	5	•			•	•
		supplementary readings	14	45	36	4	1					
	•	films	6	52	38	3	l					•
		displays	. 1	17	58	23	1					•
					•							

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Questions (Cont'd)

Please indicate for each of the J. following the degree of emphasis it receives in your secondary school environmental education program:

 \sim

a. major

minor Ъ.

none c.

Response Ъ a C minéral resources 40% 57% 3% wetlands 55 39 6 air pollution 75 25 0 forest resources 35 60 5 water pollution 83 17 0 land usage 35 63 2 coastal zone management 44 42 14 soil pollution 58 8 34 urban development 27 51. 22 mass transportation 60 20 20 wate . resources 70 27 3 solid waste disposal 33 62 5 population patterns 30 54 16 food production and distribution 27 64 9 recycling 53 47 0 sewage disposal 36 58 6 population mobility 11 69 20 environmental aesthetics 30 57 13 open space requirements ·20 67 13 food chains and webs 61 30 9 birth-death ratio 25 63 12 73 personal and social responsibilities 26 1 toward environmental quality



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- Questions (Cont'd) J. Please indicate for each of the following the degree of emphasis it receives in your secondary school environmental education program.
 - a. major
 - b. minor
 - c. none

	Re	spons	se 🗎
Man-land ratio	a 16%	ь 61%	с 21%
use of technology	42	50	8
environmental laws	35	57	8
resource management	21	72	8



DISTRICTS REPORTING THAT THEIR SECONDARY SCHOOLS

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EK AFull Text P OFFER A SEPARATE COURSE IN ENVIRONMENTAL EDUCATION

	Grade	Gradə	Grade	Grade	Grade	Grade	
Aug			9	<u>i</u> O	<u>-</u>	12	
Avon		<u> </u>	X		1		
Bloomfield			X		X	X	
Bristol	X				X	X	
Chesnire	X	X				·X	
Corchester					X	X	
Coventry			X	X	X	X	
Danbury		X	X				
East Haddam					X	X	
Enfield	X	X	X	X	X	X	
Fairfield				X	<u>x</u> -1	X	
Farmington		X					
Griswold							
Groton			X			Y	
Guilford	X			<u>x</u>	<u>x</u>		
Haddam	1				<u>x</u> -+		
Killingly		í			<u>^</u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Manchester		i			^		
Meriden		<u>-</u>		A		÷	
Milford	- -i-				÷	A	
Naugatuck					^	X	
New Britain						<u>A</u>	
New Canaan	- x					<u> </u>	
Newtown		<u>^</u>				. <u> </u>	
North Branford					X	<u>X</u>	
Norwalk			<u>A</u>	X	X	<u>X</u>	
Norwich						<u> </u>	
Old Saybrook		~					
Plainville	-+						
Plymouth					X	<u> </u>	ريرزامالكسورد م
Redding				X			
Ridgefield	- 	^					
Bucky Hill	+				<u> </u>	<u> </u>	
Sheltor							
Simshumr		- <u></u>		<u> </u>	<u> </u>	X	
Stafford	╶╁╾╾╾┼╸	<u>^</u>				X	
Stonington				<u> </u>	<u> </u>	<u> </u>	
Stratford				<u> </u>	<u>X</u>	<u> </u>	
Trumbull	- 						
Watertown	- 	A	<u> </u>				
West Hantford					<u> </u>	X	
West Haven			+	X	X	X	
West on				X	X	X	
Westmant							
Wilter	++			<u> </u>	X	<u>X</u>]	
Windoon	-+				X	X	
Millasor	<u> </u>			<u> </u>			
Amity High	+				X	X	
nnam High	- <u> </u>		<u> </u>	X	X	X	
JOEL Barlow High			X	X	X	X	
L. S. Mills High			Х	X	X	Х	
nepaug Village				X	X	X	