PHYSICAL EDUCATION CURRICULUM: A
STUDY OF THE CURRENT DELIVERY
SYSTEM OF PHYSICAL EDUCATION IN
NEWFOUNDLAND AND LABRADOR SCHOOLS

CENTRE FOR NEWFOUNDLAND STUDIES

## TOTAL OF 10 PAGES ONLY MAY BE XEROXED

(Without Author's Permission)

ROGER MELENDY







PHYSICAL ROUGATION CURRICULUM:

A STUDY OF THE CURRENT DELIVERY SYSTEM OF PHYSICAL ROUGATION

IN MEMPOURDLAND AND LABRADOR SCHOOLS

@ ROGER MELENDY, B.F.E., B. Ed.

thesis submitted to the School of Graduate
Studies in partial fulfillment of the
requirements for the degree of
Master of Education

Department of Curriculum and Instruction Memorial University of Newfoundland July 1985

Newfoundland

The purpose of the study was to determine if specific school, setting factors were affecting the delivery of the . Physical Education curriculum in Newfoundiand and Labrador schools. This was determined by establishing relationships between the school setting factors and conformity to the Physical Education curriculum.

A stratified random selection of 150 schools from 33.

school poards constituted the sample group. From these
schools it was established that there were 419 teachers
responsible for teaching Physical Education to some portion
of the schools' pupil enrollment. Each of these teachers
received a questionnaire, via the school's principal,
related to the school setting factors and the Physical
Education curriculum.

The data analysis, based on the responses of 300 teachers from 120 schools, was conducted at two levels, i.e. the conformity level of the teacher taking into account the combination of all the achool levels in which he is teaching Physical Education and ii) individual school levels, i.e. the conformity level of the teacher at each school level in which he is teaching Physical Education. Using cross tabulations and chi square the following school setting factors were isolated as

affecting the delivery of the Physical Education curriculum (conformity): i) whole curriculum level, (school characterfatics) enrollment, school catchment area population, amount of equipment available, and quality of the equipment: (teacher characteristics) sex, degree held, university training in Physical Education, Physical Education inservice/workshop participation, and Qse of suggested guide books; (ii) school levels, primary - (school characteristics) availibility of a classroom/playroom; facility; (teacher characteristics) degree held, university training in Physical Education, and use of suggested guide books; elementary - (school characteristics) availability of gymnasium, availability of a playground, and amount of equipment available; (teacher characteristics) university training in Physical Education, access to the guide publication, and use of suggested guide books; junior high (teacher characteristic) access to the guide publication: senior high - low response rate restricted conclusive relationships. There were indications of other factors affecting the delivery of the Physical Education curriculum at both the whole curriculum level and the school levels.

The conclusions drawn from the ptudy were; 1. Physical Education is receiving very little amphasis within the educational system of Newfoundland and Labrador, 2. small schools are neglecting Physical Education due to Limited

settings, 3. senior high Physical Education curriculum suffering due to problems of implementation and financing, 4. many teachers feel incompetent with teaching Physical. Education, 5: there is a need for Physical Education ... specialists to be available to all schools, and 6. the availability and quality of equipment and facilities vari from school to school.

#### ACKNOWLEDGEMENTS

The success of my study was made possible through the heed work, time, and patience of others? I would like to take this opportunity to acknowledge the assistance I received from Dr. Gerald Murphy, Dr. Francis O'Connor, and Dr. William Spain for serving as my thesis advisory committee and Ms. Helen Banfield for her assistance with the computer analysis.

Personal thanks are extended to the superintendents for allowing me the opportunity to carry out my study in their school districts and to the participating school principals, and teachers for their efforts and immediate responses.

A special thanks to my sister in law, Cecelia, for her time and patience in typing my thesis and also to my wife, Marie, and my Easily for being so supportive during the course of my studies.

	Page
ARSTRACT	ii
ACKNOWLEDGEMENTS	v
하기 그리고 있다. 성기를 그리고 있다는 1억을 받았다.	1 4 5
LIST OF TABLES	viii
LIST OF ABBREVIATIONS	vxi
CHAPTER	
CHAPTER	11
I. INTRODUCTION	1
Statement of the Problem	
Hypotheses	5
Null Hypotheses	. 5
Null Hypotheses	6
Definition of Terms	6
. II. REVIEW OF LITERATURE	. 9
The History of Physical Education in	
Newfoundland and Labrador	9
The Status of Physical Education in	
Newfoundland and Labrador	#3
Review of Literature Related to Physical Education Curricula	15
Conclusion	19
Concideron	
ILI. METHODOLOGY	21
Population Base and Sample Group	
Procedure	
Development of the Questionnaire	26
Questionnaire Design	- 28
Data Analysis Breakdown	
Physical Education Curriculum	30
School Characteristics	34
. Teachet Characteristics	. 38
IV. RESULTS AND DISCUSSIONS	48
Physical Education Curriculum	
School Characteristics	
Teacher Characteristics	62
Analysis Summary	- 90
V. SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS	98
Summary	. 98
Conclusions	
Recommendations	104

BIBLIOGRAPHY ... APPENDIX THE QUESTIONNAIRE .... THE SPLITTHALF TECHNLOUE AND SPEARMAN-BROWN FORMULA TO DETERMINE THE RELIABILITY OF THE ATTITUDE SCALE USED IN THE QUESTIONNAIRE ...... LETTER TO SUPERINTENDENTS ........ DEPARTMENT OF EDUCATION, NEWFOUNDLAND AND LABRADOR, PHYSICAL EDUCATION CURRICULUM- PRIMARY, ELEMENTARY, JUNIOR HIGH, SENIOR HIGH ...... (vii)

#### LIST OF TABLES

ble	나와 다음을 하는 목으로 선택하는 사람이다. 그 사람들은 사람	Page
1.	Population Base	21
2.		•
1	Sample Group Breakdown	22
3.	Number of Physical Education Teachers at	
1	Each School Level (Sample Group)	23
1 :.		
4.	Further Breakdown of Sample Group	23
	Breakdown of the Physical Education	**************************************
1:	Teachers into School Levels	49
F.		14
6. /	Curriculum Scale Percentages at the	3
1	School Levels	50
7	Breakdown of the Senior High-Level With	e 1.
1	. Curriculum Scale Percentages	51.
1		100
8.	Grouped Enrollment Frequencies and Cross	Ġ.,
	Tabulation Results of the Conforming Groups	52 .
0	Grouped Community Population Frequencies	900
	and Gross Tabulation Results of the	
	Conforming Groups 4:	53
13.5		
10.	The Ranges and Modes of Period Length and Frequency for Each School Level	54
1 .	Frequency for Each School Level	34-
11.	Cross Tabulation Percentages of the Conforming	3.50
1.	Groups With the Factor "Period Length"	56
		1
12.	Frequencies of the Facilities and Their Ranking	59
1		
13.	Cross Tabulation Percentages of the Conforming	5
1 .	Groups With Facilities Groupe Not Available	1
F	and Available	60
14.	Cross Tabulation Percentages of Pupil Enrollment	
	and School Catchment Area Population With	
	Availability of Facilities	62
1		100
15.	Cross Tabulation Percentages of the Conforming	
100	Groups With the Factor "Equipment Available" .	6.3
16.	Cross Tabulation Percentages of the Conforming	
1	Groups With the Factor "Equipment Quality"	.65

able.	. *	10000	1	Control of the Control	D
apre.	V	the second	1		Pag
(	1 1 1 1 1 1		1.	The Table of the	or bearing
17.	Cross Tabul	ation Perce	ntages of 1	Squipment	
1.	Quality V	ith Equipme	nt Availab	le	66
7	1				
18.	Programates	and drage	Takul attan	Bermant	
10.	Frequencies	and Cross	labulation	Percentages	
	of the Co	nforming Gr	oups With	the Factor "Sex	. 67
		2	· · / · · ·		100
19.	Cross Tabul	ation Perce	ntages of	he Conforming	
	Groupe Wi	th' the Part	OF "ACA" (	rouped)	69
	Oroupa, m.	ch che race	or use "	oubear	
14	0.00			for the second second second	1
20.	Cross Tabul	ation Perce	ntages of	the Conforming	
9 8	. Groups Wi	thethe Fact	or "Teachi	ng Experience".	70
	2. Jan 1 1. 1. 1. 1.		0.5	<b>&gt;=</b>	
21.	Frequencies	. al cualita	a Dondon C		71
21.	treductor	or obeciti	C. Degree O	coupings	
A		"		Library of Land	: /::
22.	Cross Tabul	ation Perce	ntages, of	the Conforming.	
	Groups Wi	th the Fact	or "Degree	Held" (Grouped	) . 72
					1.1
23.				er blakering	
23.	CLOSS. Tabal	ation Perce	ntages or	the Conforming	We Late
	Groups Wi	th the Fact	or "Univer	sity Attended"	749
	The same of the	the state of the s		· A A COLOR	
24.	Number of 3	eachers Tes	chine Phys	cal Education	2 21
77	or Fach (	rede Torel	and the Ber	centage of	1 1
	at pacific	trade Peact	and, the re-	centage of	
				o, and Three	Con
**	. Classes s	t the Grade	Level		75
18	) .	10 mil 1	1.70	and the second of	2
25.	Physical Re	ucation Wor	kload Fren	sencies and	
				ing Percentages	76
	. Miore dar	IICUIUM Dev	er contoim.	rug rercentages	
Denter		The second of the	1 1 44.	to below the second to the	
26.				Jorkload With	
	Degree He	1d			78
	7	V 4 V			
27.	Cross Tabul	stion Parce	ntages of	he Conforming	1
	OLOGO TADO	th the Fact	He	one contorming	
					200
	Allocated	to Physics	l Education		79
2 000	to be to	0	A		1
28	Cross Tabul	ation Perce	ntages of	the Conforming	1000
	Croupe' Ui	th the Post	or "Burtuon	ity Training	
4	gryaps wi	al Education	n"	sed mariting .	
2.0	. In Physic	ar Educatio	n		81
S. Carlo		1			2000
29.	Cross Tabul	ation Perce	ntages of	the Conforming	
	Groups Wi	th the Fact	or "Univer	sity Training	2 1100
	in Photoic	al Educatio	n" (Groune		
		ar Budeacte	" (Groupe	.,	
20 8	40	5			
30.				the Conforming	1112
	Groups Wi	th the Fact	or "Access	to the Guide	2
	Publicati				83
1					
21			actual to i	al milesterist	
31.	.cross Tabul	action Perce	ntages of	he Conforming	
			or "Insery	ce/Workshop	110
	Participa	tion"			84
. 12	No contract to the contract to			Maria No.	
**			14.1 · ·	1000	

아이들 그 경에는 이프트 사이트를 가는 데 지난 등을 가고 있다면 생각이 되었다. 그리고 하는 모르다는 그림	
Table	Page (.
	-
32. Cross Tabulation Percentages of the Conforming	
Groups With the Factor "Using Suggested	7
Guide Books"	80 6
and the same and a field of the same of the control of the same	at Calabata
33. Attitude Scale Frequencies	89 .
	1.0
34. Obtained Chi Squares for the School Setting	
Factors Cross Tabulated With the Physical	1. 1. 1. 1.
Education Curriculum Scale (Whole Curriculum	
Level)	02
The second secon	
35. Obtained Chi Squares for the School Setting	
	2 2 2
Factors Cross Tabulated With the Physical	
Education Curriculum, Scale (School Levels)	6 95
	107
36. Cross Tabulation Percentages of the Conforming	
Groups With the Factor "Facility Quality"	132
37. Cross Tabulation Percentages of Equipment	1 1 1 1 1 1 1 1
Available With Enrollment	133
38. Cross Tabyfation Percentages of Equipment	9 . 1 Sec.
Quality With Enrollment	133
degrify with Paroliment	
A Mari Landino, N. B. Malfer affection abilities with the	17 124
39. Curriculum Question Response Frequencies	134
	100
	1 . The

LIST OF ABBREVIATIONS

El - Elementary achool level (Grades 4 - 6)

Jar - Junior high achool level (Grades 7 - 9)

E. - Primary school level (Grades K - 3)

Primary school level (Grades K - 3)

St idSenior high school level (Grades 10 - 12 (Levels I.
II, III)

Wh - Whole Curriculum level

### CHAPTER I

## INTRODUCTION

The history of formal advication in Newfoundland and Labrador Indicates that there have been a variety of changes in the advicational system over this brief time span. The school building, curricula, teacher training, government, policies, school size, pupil interest, and other elements, have undergone numerous changes. With many influencing factors, such as, a dispersed population, economic conditions, and government policies, there were inconsistencies in change when change took place. Therefore, over, the years there has developed a variety of school settings throughout the Province: (See Review of titersture, "The Bistory of Physical Education in Newfoundland and Labrador" (p. 5)).

Through the periods of change, Physical Education has been established in the curricula. (See Review of Liperature, "The Status of Physical Education in Newfoundland and Labrador" (p. 11D). However, the various curricula set by the Department of Education, Government of Rewfoundland, and Labrador, does not recognise the dramatic year ance between achool settings across the Province.

Teachers are responsible for following the specific curricula without repard to their individual school secting (i.e. facilities, equipment, pupil enrollagent, resources, etc.) or It is assessed the school setting has a significant impact on the programs which can be provided by teachers at the school level. (See Review of Literature, "Review of Literature Related to Physical Education Curricula" (p. 20)).

The respancher's training and experience in Physical Education indicates that there are discrepancies between the outlined Physical Education curriculum and the actual Physical Education curriculum which is taught in schools throughout the Province. This study will examine specific characteristics of the school setting to determine if the School setting has an impact on the delivery of the Physical Education curriculum.

## Statement of the Problem

Physical Education is now a saccognized part of the curricula in Newfoundland and Labrador schools and by law the School's act, 1970), Physical Education must be provided by every school. A structured Physical Education curriculum is provided and prometed by the Department of Education and teachers are responsible for the Lacching of

Does the school setting heve any effect upon the delivery of the Physical Education curriculum in Newfoundland and Labrador schools?

If the school setting does have an effect, are there specific claracteristics of the school setting which have greater effect than others? Are these characteristics affecting schools of smilar school settings?

Is there a difference in the delivery of the Physical advention curriculum at the various school levels relative to the school setting?

The proposed study will analyse the delivery of the Physical Education curriculum in Newtonadland and Labrador schools in relation to specific characteristics of the school setting and attempt to draw conclusions, based upon Poldtingships, that would aid in asswering these general questions.

Analysis of specific questions related to school

setting and the Physical Education curriculum will provide the information needed for determining the relationships between school setting, and the delivery of the Physical Education curriculum. The following areas will set the foundation for determining, school setting:

- Characteristics of the teacher age, sex, teaching experience, professional training, attitude, workload, and views.
- Cheracteristics of the achool entollment, facilities
  aviilable, equipment available, scheduling of Physical
  Education, support of staff and other groups, and the
  catchment area of the achool.
- The Physical Education program taught in relation to the Department of Education's Physical Education curriculum.

With the aid of a questionneire, specific questions "
directed toward each component of these three areas will
give answers to the following research questions:

- Is there a relationship between the school
   characteristics and the teachers' practices in the
   delivery of the Physical Education curriculum?
- characteristics and the teachers' practices in the

## Hypotheses

- There is a relationship between the components of school characteristics and the delivery of the Physical Education curriculum in Newfoundland and Labrador schools.
- (i) There is a relationship between the components of teacher characteristics, and the delivery of the Physical Education Carriculum in Newfondeland and Labrador actions.

## Null Hypotheses

HI There is no relationship between the components of school characteristics and the delivery of the Physical Education curriculum in Newfoundland and Labrador schools.

H<sub>2</sub> There is no relationahip between the components of teacher characteristics and the delivery of the Physical Education curriculum in Newfoundland and Labrador schools.

### Limitations

I. A low number of teachers were recorded from the achool levels of junior high aid senior high. This, in turn, distorted the percentages obtained in the cross babulations due to low numbers in specific cross tabulation cells. Ohis square calculations were also affected and were in some cases irrelevant.

2. The Physical Bducation Curriculum Scale applied at the whole curriculum level hinges upon the Physical Education curriculum acale applied at the school levels. With the low number of teachers from the junior high level and espacially the school high level and espacially the school high level this has a minor affect upon the Physical Education Curriculum Scale placement at the whole curriculum level.

## Definition of Terms

DELIVERY - The actual teaching presentation of the Physical Education curriculum.

PHYSICAL EDUCATION CURRICULUM - The Physical Education curriculum as set by the Department of Education, Covernment of Newfoundland and Labrador. PHYSICAL EDUCATION TRACERY - The teacher within the school responsible for teaching Physical Education. Either the trace of the teaching Physical Education to only a portion of the school or the teacher who is responsible for teaching Physical Education to the total school's enrollment.

SCHOOL CHARACTERISTICS - For the purpose of the study the following will constitute school characteristics; pupil enrollment, facilities available for Physical Education, quality of the facilities, equipment available for Physical Education, quality of the equipment, scheduling of Physical Education, support given by the staff, school board and other groups, and the catchment area of the schools. SCHOOL LEVELS - The school levels are as defined by the Department of Education, Government of Newfoundland and Labrador: Primary - Kindergarten to Grade 3. Elementary -Grade 4 to Grade 6, Junior High - Grade 7 to Grade 9, Senior High - Grade 10 to Grade 12 (Level, I to Level III). TEACHER CHARACTERISTICS - For the purpose of the study the following will constitute teacher characteristics; age, sex. teaching experience, professional training, attitude toward Physical Education, workload in Physical Education, use of Physical Education materials, exposure to Physical Education inservices/workshops, and views on Physical Education,

WHOLE CURRICULUM LEVEL - The conformity level of the teacher as determined by the application of the Physical Education curriculum scale taking into account the , combination of all the school levels which the teacher is responsible for teaching Physical Education.

### CHAPTER II

#### REVIEW OF LITERATURE

The review of literature has been divided into three acctions for the purpose of presentation. The first section "The History of Physical Education in Revfoundland and Labrador", is an overview of the forms educational system in Newfoundland and Labrador with amphasis on Physical Education. The second section, "The Status of Physical Education in Newfoundland and Labrador" is an overview of the Government of Newfoundland and Labrador Dapartment of Education's standpoint with respect to Physical Education abpart of the educational system. The third section, "Review of Literature Related to Physical Education curricula", is a critique of various studies of Physical Education in Newfoundland and Labrador.

The formal educational system in Newfoundland and Labraday has come a long way, especially eince the creation of the Department of Education in 1920 which established a chatral government agency to develop and implement policies, regulations, and curricule for educational standards

The design of school building(s) has undergone dramatic-

laboratories, administration offices, and gymnasia.

Structural changes in school buildings were promoted from the late 1950's to early 1950's when the Provincial Government made a commitment toward centralisation of public services (Duggas, 1970; Nowe, 1954). The centralisation time also directed selucational outlooks, 'Large Cestral and Regional Righ Schools were built-and one of the facilities' built as part of the school was a gymnasium or gymnatorium (Kowe, 1976). Rowever, during the mid-1970's, the concept of centralized schools gradually reverted Wach to the community school concept. The once small (one-to-three room) community schools had to be rebuilt.

Between 1965 and 1983, the number of schools in the Province was reduced from 1,266 to 627 although the student enrollment increased from 144,129 to 147,603 (Department of Education, 1984b; Warren, 1967). A change in the lifestyle and increased public expectstions for educational services in Newfoundland and Labrador promoted by the provision of Physical Education in the centralized schools, made construction of the new schools with gymnasia a priority

(Warren, 1978; Fisher, 1972). School buildings, increased is size with more and better facilities being made available. Rows (1976) indicated that in 1975 there were 300 schools which had symmagis as compared to 10 in 1949.

The appropriate facility became associated with the building of new allocate Rove, 1976). However, the availability of symmetic did not necessarily guarantee the teaching of the Physical Education curriculum, since Physical Education curriculum of the teachers.

Traditionally, Newfoundland teachers had little university training and taught only the "3 R's" (Warren, 1967), and one of the most neglected areas of education in Newfoundland was Physical Education and Recreation (Rove, 1976). With the increase in the number of gymnasia from the 1950's to the 1960's, and a change in educational expectations, teachers were compelled to teach, or attempted to teach, Physical Education.

The Department of Education sensed a need for teachers to be trained in the teaching of Physical Education. In 1958 Remorial University of Newfoundland started a Cartificate program for teachers of Physical Education. Prom 1958-1962, twenty-eight teachers received Physical Education certificates from Hemorial University. The annollment and program status according increased as the

demand for qualified Physical Education, teachers became provident. In 1963 the certificate program was changed to a / Physical Education diploma program wherebyrsix candidates, received Physical Education diplomari. In 1964 the university again changed the status from a diploma to a degree program. Serveen 1964-1983, 449 candidates have successfully completed the Bachelor of Physical Education program. (School of Physical Education and Athletica.)

The increase in trained professionals in the field of Physical Education and the increase in the sumber of symbolic across Reviguindiand and Labrador stigulated growth of Physical Education. The Report of the Royal Commission on Education and Youth (Warren, 1967) made recommendations that Physical Education in the elementary schools be made compulsory and that Physical Education be provided to all high school students (Recommendations 118 and 161). The report also gave a firm view of Physical Education which imphasized the importance of Physical Education in the curriculum.

The Comingion believes that a sound physical education programs should be of important part of the school curriculum, contributing to the lottal development of the child. Such a programs should provide opportunity for children of all ages to participate in worthwhile activities designed:

1. To develop and saintain physical fitness.

To promote the development of fundamental movements and skills; such as walking, catching and alike

- To improve physical, Intellectual, and psychological health through wholesome physical exercise
- To develop recreational skills
   To boister social and moral growth by providing situations in both tess sports and individual
- competitions

  6. To foster school spirit, pride, and loyality by
  participation in extra mural athletics. (Warren,
  1967, p. 159-160.)

Documented statements, Marcen (1967), have been significant to the Newclopment of Physical Education in Newtonbland and Labrador, but as indicated in a report compiled by Crocker and Riggs (1979) shore were only 665-97 Frinary and Elementary schools, and 921 of Junior High and Senior Righardools offering Phylifal Education, with only 25h Physical Education apactalists. Thesical Education, as a recognized part of the total educational system in Newtonouland and Labrador, has squancied and gained recognition but must receive more videapread acceptance before it is Taily recognized and accepted as part of the educational system in Newtonouland and Labrdor achools.

ii) The Status of Physical Education in Newfoundland and

The Department of Education has recognized for some time that Physical Education has an important place within the total aducational dystem (Department of Education) 1984a, 1984c, 1975, 1970; 1967, 1962, 1957). The emphasia that Physical Education should receive is explicitly stated; in An Act Respecting the Operation of Schools and Colleges in the Province, 1970 (The Schools Act). Physical Education is stated as a prograf area which all school boards must organize and carry out (Article 12, section f). Also, within the Act the duties of the teacher are outlined with specific mention of teaching diligently and faithfully all subjects he is required to teach (Article 81, section b). Implicit in these two specimes of The Schools Act is the Department of Sducation's philosophy to include Physical Education as a part of the curriculum to be taught in every school throughout the Province.

Along with the Department of Education's commitment to Physical Education in The Schools Act, the Department of Education has also documented direct statements, and viewpoints concerning Physical Education (Department of Education, 1984c, 1975, 1967, 1952). The Department of Education's views on Physical Education are concurrent with the views of others (The Physical Education Council of the Newfoundland Todohers Association, 1983; Gubsen, 1980; Grathart, 1978, Vancouver School Board, 1966).

The total educational benefits of a sound Physical Education program are recognized by the Department of Education. Currently, the provincial Physical Education

curriculum is organized in a manner which allows for a distinct program outline for each of the four achool levels of primary, elementary, Junior high, and senior high. These programs are outlined in the Department of Education's publications of "Physical Education Curriculum Duide Kindergarten - Grade Eleveni", (1975) and "Erogram of Studies Primary, Elementary, Secondary" (1984-1985). (See Appandix D.)

# iii) Review of Literature Related to Physical Education Cutricula

The delivery of a Physical Education curriculum within a school system can be influenced by many factors. Various, attains have show that the influencing Tectors are but consistent throughout (Dibbon, 1984; Kneer, 1983; Moody, 1983; Manitoba Department of Education, 1980; University of British Columbia; 1979; Classford, 1977; Math, 1979; Jacobson, 1973; Vancouver School Koard, 1986). A specific school or region may have intally different factors influencing its Physical Education curriculum compared to another echool or region. Bowever, studies have shown that there are some similarities.

Various reports and studies have cited the following as factors which may impede the delivery of Physical Education

curricula in school systems: insdequate facilities. inadequate supply of equipment, lack of teacher training in Physical Education, size of the school, negative attitude of teachers toward Physical Education, and workload was tooheavy (Diobon, 1984; Kneer, 1983; Moody, 1983; Bognar, 1980; University of British Columbia, 1979; Rove. 1976, 1958: Math. 1975: Faculty Council: 1973: Jacobsen, 1973: Wall. 1960). Also, various reports and studies have cited the following as factors which may enhance the delivery of Physical Education curricula in school systems; students positive attitude toward Physical Education, teachers' positive attitude toward Physical Education, and teachers satisfaction with facilities (Moody, 1983; Manitoba. Department of Education, 1980: University of British Columbia, 1979; Warren, 1978; Classford, 1977; Math. 1975; Wilson, 1969; Vancouver School Board, 1966).

From the reviewed studies related to Physical Education teachers, job satisfaction and attitudes toward Physical Education, a general outline of influencing variables upon teacher stitude toward Physical Education may be deduced; academic training, availability of aquipment, availability of fightities, confort and convenience of the job, help and support rederved from staff members, recognition received for work-performed, and workload outpide of regular teaching.

hours (cocurricular activities) (Dibbon, 1984; Moody, 1983; University of British Oblumbia, 1979; Math, 1975).

From the reviewed studies related to students'
attitudes toward Physical Education a general outline of
influencing variables upon students' attitude toward
Physical Education may be deduced; desirable outcomes
expected from participation in Ehysical Education, enjoyment
of Physical Education classes, participation in cocurricular/
activities, ranking of Physical Education in relation to:
other school subjects, ranking of time allotment for
Physical Education, and self ranking of physical skills
abilities (Moody, 1983; University of Entitsh Columbia,
1979; Classford, 1971; Mista, 1966).

Physical Education is an important part of the school's curriculum (Department of Education 1984s, 1984s, 1984c, 1975, 1970, 1967, 1962, 1957; The Physical Education Council of the Newfoundland Teachers Association, 1983; — Gubsen, 1980; Urgunart, 1979; Canadian Association of Health, Physical Education and Recreation (CAMPER), 1977; Glassford, 1977; Rowe, 1958, 1957) and it can be inflhenced by internal and external school factors.

The Canadian Association for Health Physical Education, and Recreation (1977) stated that a good steed that a good steed

program; daily instruction, maximum active participation, vide range of movement experience, total fitness activities, adequate and appropriate facilities and equipment, principles of child growth and development as its base, opportunities to develop positive attitudes to activities, suitable competition, and qualified, competent teachers.

While this list pertains to Physical Emeration programs in an elementary school, the list could apply to any type of educational facility. Other studies and reports, which take into account the four school levels, further substantiates the list of elements given by CAMPER (1977) as essentially for a good Physical Education program (Kneer, 1983; Moody, 1983; The School Physical Activities Program Committee, 1983; Manicoha Department of Education, 1980; Let's Go, 1979, 4; University of British Columbia, 1979; Department of Education, 1978, 1967, 1962; Faculty Council, 1973; Workman, 1968; Rowe, 1958).

However, other reports and studies contradict the remarks and geonclusions cited; such as the necessity for a physical Education specialist as a component of any Physical Education program. In 1966 the Anglican School Board for St. John's established a Physical Education curriculum and encouraged the teachers of the Primary grades to teach the Physical Education. The Physical Education curriculum. Presently, the Department of Education, Newfoundland and Labrador, has established a

provincial Physical Education curriculus which de-emphasizes, whe role of the Physical Education specialist and relies on the individual classroom teacher for teaching the program. A study by Mista (1969) concluded that inclusion or exclusion of a Physical Education program in a high school curricula, the time spint on Physical Education in school, and the community size, had no significant influence upon students' stritude toward Physical Education. Also, a minitar study by Dotson (1972) concluded that the size of the high school had no significant effect upon students' attitude toward Physical Education.

With the review of literature indicating (opposing conclusions and philosophies this illustrates that a variety of factors impinging on a school or region may have a Major influence on the delivery of a Physical Education curriculum. The school setting can dictate the delivery of a Physical Education curriculum (Kneer, 1983; Bognar, 1980; CAMPER, 1979; Let's Go, 1979; Prguhart, 1979; Workstan, 1968; Vancouver School Board, 1966).

## Conclusion

The review of literature revealed that school in many sreas found themselves with a variety of factors influencing

their Physical Education curricula. Newfoundland and Labrador is not in a unique situation with regards to the widelivery of Physical Education in the school system or with regards to having a variety of school settings. But, are there any relationships between components of a school setting and the actual delivery of a Physical Education curriculum! Any future curriculum developments in Physical Education for Newfoundland and Labrador must take into consideration such relationships. If they exist.

This study. "Physical Education Curriculum: A Study of the Current Delivery System of Physical Education in Newfoundland and Labrador Schools", will seek to determine if there are any relationships between components of school setting and the setual delivery of the current Physical Education. curriculum as set by the Department of Education, Newfoundland and Labrador. It can then be determined which components of school setting enhance the delivery of the current Physical-Education curriculum in Newfoundland and Labrador schools, and which components impede the delivery of the current Physical Education curriculum:

## CHAPTER III

## METHODOLOGY

## Population Base and Sample Group

PROXIMATE POPULATION - All schools and teachers responsible for teaching Physical Education within the schools from the Province of Newfoundiand and Labrador.

SAMPLE GROUP - Each of the 33 school board Superintendents, was sent a letter explaining the upcoming study and asking for their congent to have the schools/teachers of their school district included in the population base for selection of a sample group (see Table 1).

## Table 1 Population Base

School Boards		ol Boards Replies		1000	Giving Consent			
	2. 9	1 1	9 %				Pet age	
		· -		34	1 1 1 10		.33	,
		11.					Carried Services	. 69
		0 10 0	KI 25 190	1.00	1	>		· 10

Once the population base was stablished, the sample group of 150 schools was selected using the stratified random sampling technique. The schools of every district were stratified in categories of primary, elementary, junior high, senior high, primary-elementary, primary-elementary-junior high-senior high and junior high-senior high. This technique was used to insure that the sample group consisted of teachers from the four school levels, primary, elementary, junior high and senior high and to insure that each district could be represented as the school settings may vary from school to school and district to disprict.

Table 2 Sample Group Breakdown

Grade Levels or Portions in the Schools	Sch	al No. or ools in Province		Scho	l No.	n the	Tot	centa al No Schoo	
K-6		263	1		58	de	151	22	
7-12		147			37.		***	25	
K-12		214 624	3		150	2.4		*25	٠,

<sup>\*</sup> Percentage of schools included in the sample group.

The number of teachers teaching Physical Education at each of the school Tevels was established by contacting the co-ordinators Agronsible for Physical Education at each of the school founds involved (see Table 3).

#### Table :

# Number of Physical Education Teachers at Each School Level (Sample Group)

50001	Levels		* NO.	of Tea	chers T	eaching	P.E.
Primary			13	1	221	e je s	
Junior Senior			6.2 %		116		
					581		3 19
* Some	teachers	are tea	chine P	R. at	more th	an one	school
level.		1	curus			1.1.2	
2.0	. / .	. 19	Tabl	. 4	200		
	/				7 11	26.0	450
	· / F	urther B	reakdown	of Sam	ple Gro	up.	200
			1900	10.7	3.43		
- 8	1				2 2		
Grade 1	Levels or	1001		,		of Sch Sample	ools in
Portion	ns in Sch	1001		,			
Portion Primary Element	y Only tary Only	iooli		,			
Primar Element Junior	y Only tary Only High Onl	y		,			
Primar Element Junior Primar	y Only tary Only High Only	y	unior Hi	oh A		8 1 3 49	
Primary Element Junior Primary	y Only tary Only High Only B Elemen	y intary itary & J			the	8 1 3 49 19	
Primar Element Junior Primar Primar Primar	y Only tary Only High Only	y entary stary & Ju			the	8 1 3 49 19	
Primar Element Junior Primar Primar Primar	y Only tary Only High Only y & Eleme y, Elemen	y entary stary & Ju			the	8 1 3 49 19	

#### Procedure

The study is based on survey design, where the data are collected by questionnairs. The first step was to determine if there was a population base for the selection of a sample

group. Every superintendent of the Province's 35 school boards was sent a letter explaining the proposed study and saked for consent to have the schools, and teachbre of these schools, to be included in the population base for random selection of a sample group. A reply form and a stamped, addressed return envelope was enclosed with the letter. The response of 33 of 35 superintendents giving cohesent eatablished a population base for sample group selection.

Each of the school districts of the population base was then stratified into the school level categories and the sample group of 150 schools was randomly selected.

A questionnaire was to be sent to each teaching by sample group schools who was responsible for teaching by since the number of teachers responsible for teaching Physical Education in each of these schools had to be determined so that the correct number of questionnaires would be sent to each school. These numbers (teachers teaching Physical Education) were obtained by contacting the Physical Education coordinator, by telephone, of each school district. It was then determined that from the 150 schools of the sample group there were 419 teachers responsible for teaching Physical Education.

The questionnaire to be used for collecting the data

to components of school setting and the components of the Physical Education curriculum, Department of Education, Newfoundland and Labrador. Permission was granted by my thesis supervisory committee for the questionnaires to be sent to the sample group schools.

The state of the s

The names of the principals and the addresses for each of the sample group sphools was obtained from the Department of Education, Newfoundland and Labrador, publication
Directory of Schools Newfoundland and Labrador 1984-83. The survey packages were mailed to the principals. Each survey package included 1) a covering letter addressed to the principal (principal's letter), ii) a stamped, addressed return envelope, fii) a covering letter for each teacher responsible for teaching Physical Education in the school (colleague's letter), iv) a questionnaire for each teacher responsible for teaching Physical Education in the school, and v) a specially marked envelope for each questionnaire, (apecially marked envelopes were used so that the completed questionnaire could be sealed inside the envelope of kept confidential).

The principals had the responsibilities of distributing to each teacher responsible for teaching Physical Education in the school, one colleague's letter, one questionnaire and one specified date, but one specified date, and one specified was requested to tollect each of the sealed

specially marked envelopes, containing a completed questionnaire, and to mail all the specially marked envelopes collected to the researcher by using the stamped, addressed return envelope.

AND THE STATE OF T

One week after the mailing of the survey packages, a reminder mote was mailed to each principal of the sample.

Each return envelope received was called as one so that a school return percentage toold be recorded. Also, each questionnaire received yes tallied as one on that a teacher return percentage could be recorded.

The date were recorded and analysed using the Statistical Package for the Social Sciences (SPSS<sub>x</sub>) on the VAX Computer System at Memorial University of Newfoundland.

# Development of the Questionnaire

Within the review of literature, several cuestionnaire dealing with Physical Education and school setting factors were raviewed (Dibbon, 1984; Kneer, 1983; Moody, 1983; Manitoba Department of Education, 1980; University of British Columbia, 1979; Classeffer, 1977; Mach. 1975; Weer, 1955). None of the reviewed questionnaires were switching for the collection of the data needed for the study.

However, the reviewed questionnaires were helpful for determining wording and arrangement of questions, and selection of school setting factors for the development of the study's questionnaire.

The questionnaire has two major components, i) achool setting factors which are broken into school characteristics and tracher characteristics and tracher characteristics and ii) Physical Education curriculum, components which consists of the components of the Physical Education curriculum, Department of Education, Hestfoundland and Labrador, for each school level and components which are outside of the curriculum.

The questionnaire was reviewed, critiqued and tested. Five professors of Memorial University of Newfoundland reviewed and editiqued the questionnaire. The questionnaire was then tested using a pilor group consisting of one. Physical Education specialist presently in the school system, and six graduate students who were aiding Physical Education specialists or teachers who, at one time were responsible for teaching Physical Education. This group resolved to and then critiqued the questionnaire. Are result of input from the pilot group, necessary changes and adjustments were made to the questionnaire. The reliability of the questionnaire was not tested.

C. The State of th

#### Questionnaire Design

The questionnaire was designed to collect data, pertaining to the school setting and the Physical Education curriculum.

School setting is comprised of school characteristics and teacher characteristics. The school characteristics are; pupil encolinent, school's catchment area population, type of scheduling dyrid used, length of a Physical Education period, ffeduracy of Physical Education in a cycle for each school lavel, tagilities available for teaching Physical Education, quality of the facilities, equipment available for teaching Physical Education, quality of the equipment, and the support given by vertous internal and external persons of groups for the Physical Education program in the school.

The teacher characteristics are; sex, age, teaching experience, degrees held, university attended, grades for which the teacher is responsible for teaching Physical Education, number of classes at the grade level which the teacher is responsible for teaching Physical Education, amount of total teaching time allocated to teaching Physical Education, amount of total teaching time allocated to teaching Physical Education,

precious in physical recreational activities of serious process in physical recreations at a serious contains of serious participation in Physical Education workshops/inservices, year of the last Physical Education workshops/inservices attended, publications uses for teaching Physical Education activities of the contains of the cont

The Physical Education curriculus, component of the questionnaire is comprised of the Department of Education's, Newfoundiand and Labrador, Physical Education curriculum for each ighout level, primary, elementary, junior high, and senior high, and components of Physical Education which are outside of the Department of Education's curriculum.

# Data Analysis Breakdown

The data collected were recorded and analyzed using the Statistical Pickage for the Social Sciences (SPSE) on the VAX Computer bytem at Memorial University of Newfoundland. The following is the breakdown of the data analysis for each of the components of the questionnaire; Physical Education corrections, Almohi characteristics, and teacher characteristics, and

#### Physical Education Curriculus

The Physical Education Curriculum component of the questionnaire le in a checklist format and is used to determine conformity to the Department of Education's, Revioundland and Lahrador, Physical Education curriculum. There is a segrant shecklist for pach of the four school levels. The respondent is only responsible for responding to the checklist(a) which involves the school level(s) which he is teaching Physical Education. Each checklist contains; i) the specific components of the Physical Education curriculum as outlined by the Department of Education, ii) components of Physical Education which are not part of the Department of Education's curriculum, and iii) space to add other components which may be taught by the respondent within his Physical Education program.

A score of one point is allocated to each specific component of the Newfoundland and Labrador Department of Education's Physical Education curriculum. A score of zero is allocated to each component which is not part of the Department of Education's curriculum. Also, any component indicated in the open space by the respondent as part of his Physical Education program was scored ay sero. The sum

total score of the school level, as indicated by the respondent, will then be placed into one of the three curriculum scales to determine conformity to the Physical Education curriculum;

- conformance (to the curriculum)
- ii) partial conformance (to the curriculum) iii) no conformance (to the curriculum)

The following sum scores will determine the curriculus cale groups for each school level ..

1. Primary Level: Possible high score of 10. Conformance - Score 10' Partial Conformance - Score 6-9

No conformance - Score below 6 2: Elementary Level: Possible high score of 8, but only required to achieve 5 points (5 of 8 activities) as outlined by the curriculum guide.

Conformance - Score 5-8 Partial conformance - Score 3-4 No conformance - Score below 3

Junior High Level: Possible high score of 12 but only required to achieve 5 points (5 of 12 activities as outlined by the curriculum guide. Conformance - Score 5-12

Partial conformance - Score 3-4 No conformance - Score below 3

4. High School Level: Physical Education 1100: Possible high score of 9 but only required to achieve 5 points (5 of 9 activities) as outlined by the curriculum guide. -.Conformance - Score 5-9 Partial Conformance - Score 3-4 No conformance - Score below 3 Physical Education 2100: Possible high score of 10 but only required to achieve \$ (5 of 10 activities) as outlined by the curriculum gu Conformance - Score 5-10 Partial conformance - Score 3-4 No conformance - Score below 3 Physical Education 3100: There are no set activities or number of activities to be covered under Physical Education 3100, therefore a similar scale as Physical Education 2100 will be used with 1 point given for each activity. Conformance - Score or great

Conformance - Score or greater
Partial Conformance - Score 3-4
No conformance - Score below 3

Frequencies were resorded on the curriculus scales of conformance, partial conformance, and no conformance and then tabulated at three groupings; i) Frequencies for the school levels of primery, elementary, junior high, and each of the three senior high Physical Education courses. if Frequencies for each school level, primary, elementary, junior high, (these would be the same frequencies as those if grouping i), and senior high. At the senior high level the teacher has to be classified as "conformance" at each senior high Physical Education course he is teaching to be classified as "conformance" at the senior high level. If he is classified as "partial conformance" at one or more of the senior high Physical Education courses which he is teaching then he is classified as "partial conformance," at the senior high level. However, if he is classified as "no conformance" at one or more of the senior high Physical Education courses which he is teaching then he is classifie as "no conformance" at the senior high level. iii) Frequencies to show the teachers "whole" conformity rating, that is, for the combination of levels which the teacher is teaching Physical Education. To be classified as "conformance" on the "whole" curriculum the teacher has to be classified as "conformance" at each level which he. is teaching Physical Education, - To be classified as "partial conformance" on the "whole" curriculum the teacher has to be classified as "partial conformance" at one or more of the levels which he is teaching Physical Education. However, if he is classified as "no conformance" at one or more of the levels which he is teaching Physical Education then he is

classified as "no conformance" on the "whole" curriculum.

The recorded frequencies of the curriculum scale for groupings (i) (levels) and (iii) (whole) will be referred to under one term, Physical Education curriculum scores. The Physical Education curriculum scores were used as the main factor throughout the data analysis for cross tabulations.

## School Characteristics

Enrollment.— The ray scores were recorded and the frequencies tabulated on these ray scores. Appropriate intervals were then arranged and groups determined so that the smaller schools did not get entangled with the larger schools. The intervals are (12 to 30), (31 to 60), (61 to 99), (100 to 1907), (151 to 199), (200 to 299), (300 to 399), (400 to 499), and (500 to 1100). The scores of 12 and 1100 were the lowest and highest actors recorded. The grouped scores were cross tabulated with school catchment area population (grouped), facilities (availability), teaching experience (grouped), access to Physical Education guide, publications used for teaching Physical Education, and the Physical Education curriculum accress. The significance levels were determined by the calculation of this square.

School catchment area population. The raw acores were recorded and the frequencies tabulated on these ray scores. Appropriate intervals were then arranged and groups determined so that the smaller population areas did not get entangled with the larger population areas. The intervals are (60 to 249), (250 to 499), (500 to 749), (150 to 999), (1000 to 1999), (2000 to 3999), (4000 to 8999), (9000 to 13,999), and (14,000 to 70,000). The scores of 60 and 70,000 ere the lowest and highest acores recorded. The grouped scores were cross tabulated with grouped enrollment, facilities (availability), and the Physical Education curriculum scores. The significance lavels were determined by the calculation of this square.

Scheduling cycle — The type of scheduling cycle used by the school was recorded; 7 day cycle, 6 day cycle, or 5 day cycle. The data turned up a 10 day cycle and sn.8 day cycle, these were recorded accordingly. Fraquencies of the scheduling cycles and cross tabulations with period length, period frequency, and the Physical Education curticulum scores were tabulated. The significance levels were determined by the calculation of this square.

Period Length - The lengths of the Physical Education period

serior the respective school levels. Frequencies

of the period lengths and cross tabulations with scheduling cycle, period frequency, and the Physical Education curriculum scores were tabulated. The significance levels were determined by the calculation of chi square.

Period Prequency. The frequency of Physical Education patcycle was recorded for the respective school levels.

Frequencies of the period frequencies and group tabulations with period length, scheduling cycle, and the period length, scheduling cycle, and the first continuous contents of the second contents of the secon

Facilities available and quality of the facilities. Using a facilities' checklist the teacher was requested to check a rating to indicate the quality of the facilities; very adequate, adequate, satisfactory, inadequate, or very inadequate. The checklist also included spaces for a response of "do not use" and "not available". Frequencies of the rating responses, "do not use" and "not available" were recorded for each facility.

The facilities were grouped into not available (responses of "not available" and "do not use") and available (responses with a ruting; indicated the facility was available). These two groups, (availability of

The ratings were grouped into three categories is adequate (ratings of "adequate" and "very adequate"), satisfactory (rating of "satisfactory"), and inadequate (ratings of "inadequate" and "very inadequate"). These three rating groups were cross tabulated with the Physical Education curriculum acores. The significance levels were determined by the calculation of this square.

Equipment available. The teacher was requested to indicate the amount of equipment available for teaching the Physical Education curriculum by selecting, a percentage range of (75% to 100%), (50% po 75%), (25% to 50%), or (less than 25%). Prequencies of the equipment available responses and cross a tabulations with enrollment and the Physical Education curriculum scores were tabulated. The significance levels were determined by the calculation of thi source.

Quality of equipment - The teacher was requested to indicate the quality of the equipment by selecting a rating of excellent, good, fair, or poor. Frequencies of the ratings were tabulated. The ratings were cross tabulated with equipment available, and the Physical Education

curriculum scores. A rating combination of excellent and good, and fair and poor to give two rating groups was cross tabulated with enrollment. The significance levels were determined by the calculation of chi square.

Support given by internal and external persons or groups.

The teacher was requested to indicate which persons or groups were supportive of his Physical Education program. A checklist forstan was used for the responses. The checklist included school board administration, coordinator(s), school administration, other teachers of the school, community members, a open response for "others", and a response Sag "there is little to no support given". Prequencies of the support responses were tabulated,

## Teacher Characteristics

bax - The sex of the teacher was recorded. Frequencies of the sex and cross tabulations with the Physical Education curriculum scores were tabulated. The significance levels were determined by the calculation of chi square.

Age - The variably of age is in groupings of (20 to 24), (25 to 29), (30 to 34), (35 to 39), (40 to 44), (45 to 49); and (50+). The teacher was requested to indicate his age grouping. Frequencies of the age groupings and cross cabulations with teaching experience (grouped) and the Physical Education curriculus acores were tabulated. The significance levels were determined by the calculation of this equate.

Teaching Experience - The teacher was requested to give his total dumber of years for teaching. Any case Ware only a partial year was indicated was recorded as one full year. Frequencies were tabulated on the raw scores. The data were then grouped into the intervals (1 to 5 years), (6 to 10 years), (8 to 15 years), (16 to 20 years), (21 to 25 years), and (26 years). Frequencies of the teaching experience groupings and cross tabulations with age and the Physical Education curriculus scores were tabulated. The significance levels were determined by the calculation of this senare.

Degree(s) held and university(igs) attended. The teacher, was requested to give the mass of the degree or degrees which he had obtained and the name of the university or universities which he attended. Degree responses were grouped; Bachelor of Physical Education or Bachelor of. Physical Education and Education, Bachelor of Education or Bachelor of Education, and Education, Bachelor of Physical Education.

and any other (except B.Ed.), Master of Physical Education or Master of Physical Education and any other degree, any other Master, degree, Master of Education and Machelor of Physical Education, any other degree, and no degree. Prequencies of the degree groupings were tabulated. These groupings were condensed into three groups; Physical Education degree (all groupings where a Physical Education degree is indicated), no Physical Education degree is indicated, no Physical Education degree is indicated, no Physical Education degree (all groupings where no Physical Education degree is indicated), and no degree (the grouping "no degree"). These three groups were cross tabulated with enrollment and the Physical Education curriculum acores. The significance levels were determined by the calculation of chi square:

University, attended temponess were grouped; Memorial University of Newtonnal and (NUM), any other Canadian university, MUM and any other non-Canadian university. MUM and any other conclusions of the university groupings were tabulated. These groupings were concensed into two groups, MUM (all appings where MUM is indicated) and other universities (all groupings where MUM is indicated). These two groups were cross tabulated with the Physical Education curriculum scores. The significance levels were determined by the calculation of this square.

Grades responsible for teaching Physical Education - By using a checklist of all the grade level's (kindergarten to the three senior high school courses) the teacher was requested to indicate which grade(a) he has the responsibility of teaching Physical Education and the number of classes at the grade level which he has the responsibility of teaching Physical Education. Frequencies were tabulated on the grade levels. The total number of classes which the teacher has the responsibility of teaching Physical Education, workload (Physical Education), was ocalculated. Workload was calculated by adding together the total number of classes from kindergarten to the three senior high school courses. Prequencies of the workload scores and cross tabulations withedegrees held and the Physical Education curriculum scores were tabulated. The significance levels were determined by the calculation of chi souare.

Teaching time allocated to teaching Physical Education— The teacher was requested to indicate the total amount of his teaching time which was allocated to teaching Physical Education. Intervals of (85% to 100%), (70% to 84%), (5% to 69%), (40% to 54%), (30% to 33%), (20% to 29%), (10% to 13%), and (less than 10%), were used as the responses from which to indicate the percentage of teaching time allocated to teaching Physical Education: Frequencies of the percentage intervals and crops ighulations with the Physica Education curriculus scores were, tabulated. The significance levels were determined by the calculation of this square.

University training in Physical Education - As an indication of the teacher's university training in Physical Education, he was requested to select the best response from the list; Physical Education degree, over 9 university courses completed in Physical Education, 5 to 9 university courses completed in Physical Education, 1 to 4 university courses completed in Physical Education, completed Education 2191. 3070, or 3090 (these are Education courses related to the teaching of Physical Education offered at MUN), completed the non-credit Physical education course (this was a non-credit course that was part of the Education program at MUN), and no university courses completed in Physical Education. Frequencies of these responses and cross tabulations with the Physical Education curriculum acore were tabulated. The significance levels were determined by the calculation of chi square.

Personal involvement in physical recreational activities -

involvement in physical recreational activities outside of the school. The teacher was requested to respond to the frequency of his involvement by selecting one response of daily, several times a worth, about once a month, less than once a month, and almost never. Frequencies of these responses and cross tabulations with the patitive scale and the Physical Education curriculum scores were tabulated. The significance average were determined by the calculation of this square.

Access to the publication "Physical Education Guide Kindergarten - Grade Eleven" - The teacher was requested to indicate, by responding "yes" or "no", if he had access to the Department of Education's publication "Physical Education Guide Kindergarten - Grade Eleven". The frequencies of the responses and cross tabulations with enrollment and the Physical Education curriculum scores were tabulated. The significance levels were determined by the calculation of chiaquere.

Participation in Physical Education inservices/workshops The inservice/workshop factor is in four parts. The teacher
was requested to respond to "yes" or "no" if he had
participated in a Physical Education asservice/workshop. If
the response of "yes" was indicated them the teacher was

requested to respond to; i) the total number of Physical Edwarion inservices/workshops attended and fi) the date of the last Physical Education inservice/workshop attended. The teacher was then requested to indicate, by responding "yes" or "no", if he was unable to attend an inservice/workshop offered by his school board due to other teaching duties. Prequencies on all the responses to the inservice/workshop factor and cross tabulations with degrees held and the Physical Education curriculum scores were tabulated. The significance levels were determined by the calculation of this square.

Publications used air Physical Education planning - The teacher was requested to indicate which materials, publications, or guide books he used in planning the instructional portion of his Physical Education program. The responses were recorded according to the materials, publications, and guide books indicated. If the Department of Education's guide books were indicated for the appropriate school levels, then the responses were recorded as "yes". If the guide books were not indicated, then the responses were recorded as "no". "Yes" and "no" would indicate if the teacher is using the guide books as set by the Department of Education inplanning the instructional portion of his Physical Education program. The frequencies

of "yes" and "no" and cross tabulations with enrollment and the Physical Education curriculum acores were tabulated. The significance levels were determined by the calculation of thi square.

Views on Physical Education - The teacher was requested to respond to two open-questions on his views of Physical Education. First, he was requested to give two factors which he felt could be helwful in improving his Physical Education program. It was noted during analysis that there were several common factors listed by the teachers. The factors were then categorized into; more instructional time needed, improvement of facilities (especially the gymnasium), accessibility to guide books, smaller classe more funding, more inservices/workshops, to have a gymnasium, more equipment, more facilities, to have a Physical Education specialist, and to have a Physical Education coordinator. Frequencies to these categories were tabulated. The second open question on the teacher's view of Physical Education is the last question of the questionnaire. The teacher was given the opportunity to comment on how he perceived the Physical Education curriculum, (i.e. difficulties, emphasis, modifications, etc.). There were a variety of comments and they could not be categorized as the previous open question. Bach set of

comments was analyzed separately and some quoted foreference purposes.

Attitude toward Physical Education - The attitude factor is intended to access the attitude of the teacher toward Physical Education The attitude item consists of 10 statements which are related to Physical Education in school. The teacher was requested to respond to each statement by circling a number on a scale of 1 - 5 which best revealed his feelings toward the statement: (1 -Strongly Agree, 2 - Agree, 3 - Undecided, 4 - Disagree, 5 Strongly Disagree). Using the Likert method of scoring, a score of 5 - 1, (corresponding with the 1 - 5 scale), isgiven on each positive statement response and a score of 1 5, (corresponding with the 1 - ,5 scale), is given on each negative statement response. The sum total of the assigned scores, as indicated by the teacher, will indicate the attitude level of the teacher toward Physical Education. Frequencies of the responses to each of the 10 statements and frequencies of the sum total attitude scores were tabulated. Also the attitude scores were correlated with the Physical Education curriculum scores. The sum total attitude scores were grouped into the categories; very negative attitude (sum scores of 10 to 16), negative sattitude (sum scores of 17 to 24), neutral attitude (sum

scores of 25 to 35), positive attitude (sum scores of 36 to 43), and very positive attitude (aum scores of 44 to 50). Frequencies of these attitude categories and cross tabulations with the Physical Education curriculum scores were tabulated. The five categories were regrouped into three groups; negative attitude (sum scores of 10 to 24), neutral attitude (sum scores of 25 to 35), and positive attitude (aum scores of 65 to 50). Frequencies of these three groupings and cross tabulations with personal involvement in physical recreational activities and the Physical Education curriculum scores were tabulated. The significance levels were determined by the calculation of chi-square.

The reliability of the 10 statement attitude scale was obtained by using a pilot group of 10 graduate students, who responded to the attitude scale. Using the split-halves technique and the Spearman-Brown formula the reliability was calculated at .75. (See Appendix B.)

#### CHAPTER TV

### RESULTS AND DISCUSSIONS

A total of 120 of the 150 schools (80%) responded to the study. This accounted for 300 of the 419 Physical Education teachers (72%) responding to the questionneite. A breakdown of the 300 Physical Education teachers into the school levels and combinations of the school levels is shown in Table 5.

#### Physical Education Curriculum

The Physical Education curriculum scale, (conformance, partial conformance, and no conformance), applied to the sample group shows that 347 of the Physical Education teachers here conforming to the Physical Education curriculum, 421 are partially conforming, and 231 are not conforming. That is, the Physical Education teacher must be conforming to the Physical Education curriculum at all the school levels which he is teaching Physical Education to order to be classified as "conformance". If he is partially conforming at a school level he is classified as "partial conformance", and if he falls below partial conformance then

Table 5

Breakdown of the Physical Education

Teachers into School Levels

	12	1	× 0		6.8			3.0	
No.	of Te	chers	281	n,		Scho	ol Level		ž. 1
	108 .47 .28 .11 .19 .26 .13					Jr Sr All Pr a	levels	Jr	
4	1 12 5 30		*			Pr, El, El,	El, and Jr, and Jr, and nd Sr	Sr .	

he is classified as "no conformance". As the frequencies show there are only 34% of the Physical Education teachers conforming to the Physical Education curriculum.

Table 6 shows the results of the Physical Education curriculum scale as applied at the school levels. Note, whose teachers are teaching Physical Education at more than one level and they are tallied at each level they teach Physical Education.

A further breakdown of the senior high school level into the three Physical education courses is iblustrated in Table 7.

	School Level.		100	Conformance				Partial Conformance			No Conformance			0				
-				(2)									31	16		-		_
		Pr				8		54				36			10			
		B1						41			226	30-			. 29			
	18	Jr						61				28		200	1.1			
		Sr	N.	1	141			56				35			8		-	

The Physical Education curriculum scale frequencies indicate that there are only approximately half of the teachers who are conforming to the Department of Education's Physical Education curriculum at their respective school level and only one third who are conforming at all the school levels which they are teaching Physical Education.

The main focus of the analysis is now on determining if there are any relationships between the school setting (school and teacher characteristics), and conformity to the fourticulum (Physica) Education curriculum scale.) Can these relationships give possible reasons as to why there is a law percentage of Physical Education tagglers conforming to the Physical Education curriculum?

The analysis results will be presented in the format; the characteristic - noteworthy frequencies - relationship of the characteristic with the Physical Education curriculum scale as applied to the whole sample group - relationship of

Breakdown of the Senior High Level With Curriculum Scale Percentages

School Level	Conformance	Partial Conformance	No Conformance
P.E. 1100 P.E. 2100 P.E. 3100	50 - 38 86	43 50 7	1 7 12 7

the characteristic with the Physical Education curriculum scale as applied to the school levels.

## School Characteristics

Enrollment - The pupil enrollment ranged from 12 to 1400 with the mode at 250, 13 cases. The frequency of 12 was recorded at 150 and 350. The pupil enrollment scores were grouped and cross tabulated with the Physical Education curriculum scores (see Table 8).

As indicated in Table 8 there is a definite decrease in the percentage of teachers conforming to the curriculum as the pupil enrollment decreases. The percentages at the school levels indicate the same trend, however, low number of teachers at certain groupings tend to distort the percentages. Enrollment does not appear to be a major

Grouped Enrollment Frequencies and Cross Tabulation
Results of the Conforming Groups

>			··· ,					
Group		Freq.		Conf	orming	(2')		
		- 11	· Wh*	Pr	E1	' Jr	Sr	
12-30		. 18	1,7	46	8	. 0	147	
31-60		41	₹20	29	26	20~	. 0	
61-99	•	26	24-	40	0	20	0	
100-150	1	.65	-36	60	38	. 56	20 '	
151-199		35	34	50.	29	67	67	31
200-299		4 40	1: 35	62	61	67 -	32	
300-399		23 .	43	71	73	. 70	20 -	
400-499		14	43	67	100	85	33 .	10
> 499		38	. 50	67.	80	80	31	100

## \*p ( .05.

factor related to conformity at the primary level with mid-range percentages. Also, enrollment does not appear to be a factor related to conformity at the senior high level with consistently low percentages at all recorded enrollment groupings.

'School catchment area population - The school catchment area population (community population) ranged from 60 to 70,000 with the mode at 1000, 16 cases. Prequencies of 15, 11, and 11 were recorded at 500, 250, and 4000 respectively.

The community population scores were grouped and cross tabulated with the Physical Education curriculum scores (see Table 9).

As indicated in Table 9 there is a decrease in the percentage of teachers conforming to the curriculum as the school catchment area population decreases. This relationship falls in line with the relationship indicated with pupil enrollment (Table 8) and pupil enrollment is related to the school catchment area population.

Table 9

Grouped Community Population Frequencies and Cross Tabulation Results of the Conforming Groups

Group .		req.	11	0	Сод	forming	(%)	
	- 1		11:	Wh*	Pr	El	Jr .	Sr
60-249	. 2	2	/	, 9 .	T40			0 .
250-499	3	2	· .	31	. 41	39	- 50	0
500-749	. 4	5	S. S	18 -	39	. 33	39 **	20
750-999	. 2	4		35	. 57		. 67	50
1000-1999	. 5	8 .	4	33	49	-48	- 64	39
2000-3999	. 3	0		50	74	80	82	29
4000-8999	4	5 .	A.	. 47	77	50	78	29
9000-13,999	. 1	7	W 400	53	63	100	63	50
> 13,999		3		46	100	1.00	50	0

## p < .01.

The percentages at the senior high level does not indicate the school catchment area population as a factor related to conformity. Again, caution has to be taken with the percentages due to the low frequencies at the population groupings.

Physical Education period length and frequency; and school's school scho

the period lengths and frequencies per cycle for each school level.

#### Table 10

The Ranges and Hodes of Period Length and Frequency
for Each School Level

School	. Period Length.	Period Frequency
Br. grant	Range Hode	Range Hode (per cycle)
Pr	15-80 30	infreq
E1 /	20-80 40	1 - daily 2
Jr (	30-90 40	1 - daily 2
Sr	40-90 40	infreq
/		daily 3

t the primary level 46% of the teachers have 30 minute Physical Education periods and 27% have 40 minute periods. A chass reportion of period length by period frequency above that 74% of the 30 minute period group have Physical Education twice per cycle and 65% of the 40 minute period group have Physical Education twice per tycle. For the 30 minute group there is almost a 50/50 split between the scheduling cycle used; 5 day and 6 day cycle. For the 40 minute period group 75% of this group operate under a 6 day cycle and 21% operate under a 5 day cycle.

At the elementary level 592 of the teachers have 40 minute Physical Education periods. Seventy one percent of this group have Physical Education twice a week. Sixty nine

percent operate under a 6 day cycle and 31% operate under a 5 day cycle.

At the juntor high level 68% of the teachers have 40 minute Physical Education periods and 19% have 45 minute Physical Education periods. Fifty one percent of the 40 minute period group have Physical Education twice a week and 32% have Physical Education three times a week. Of the 45, minute period group 47% have Physical Education twice a week and 47% have Physical Education twice a week and 47% have Physical Education three times a week. The wast anjorityr of these groups operate under a 6 day cycle as 88% of all the junior high level teachers indicated that they operated under a 6 day cycle.

At the serior high level 68% of the teachers have 40 minute Physical Education periods and 21% have 45 minute periods. Eighty six percent of each of the 40 minute and 45 minute period groups have Physical Education three times a week. Over 90% of all the senior high level teachers operate under a 6 day cycle.

Three teachers at the primary level indicated that their Physical Education periods were infrequent or none. One teacher at the senior high level indicated the same.

Table 11 shows the cross tabulation percentages of the conforming groups for the period lengths of 30, 40, and 45 minutes.

Table 11

Cross Tabulation Percentages of the Conforming
Groups With the Factor "Period Length"

Period I	ength '	•		2.0	Confe	rming	(%)	0.00	E	1
(mins	.)		7.71	Pr	E1	Jr	9	Sr	Ē.	Ď
3 ŏ	80 11	10	- 1	61	29	· .	760	N_ 5	1	
40				63 :	51	68		23		
. 45	200	V		40 ,	62	71		36	4	

The results shown in Table II indicate that at the primary level a higher percentage of teachers are conforming to the curriculum at the 30 and 40 minute period lengths than at the 45 minute period length. But at the elementary and junior high levels 45 minute period lengths reveal the higher percentages of teachers conforming to the curriculum. The percentages at the senior high level are distorted by low number of responses in the cross tabulation cells.

Period lengths can not be considered as a factor of conformity because the significance levels obtained are too large. However, there are indications that specific period lengths are influencing conformity at the school levels.

The results of frequency of Physical Education per cycle draw the same conclusion as period length. Due to low number of responses in specific cross tabulation cells the eignificance levels are too large. Rowers, there are indications that three periods per cycle at the primary level, elementary level, and junior high level are more conductive to conformity than one or two periods per cycle. The senior high level percentages are distorted, however, they show that 40% of the teachers are conforming at one period per cycle, 20% at two periods per cycle, and 28% at three periods per cycle, 20% at two periods per cycle, and 28% at three periods per cycle.

The school's scheduling cycle is only meaningful at the primary and elementary levels as the junior high and senior high levels have a high percentage, (90X), of the reachers' operating under one scheduling cycle only, the 6 day cycle.

At the primary level 1965 of the teachers operate under a 6 day cycle. Of this group, 59% are conforming to the curriculum. Forty two percent of the primary teachers operate updet a five day cycle, 49% of this group are conforming to the compliculum.

At the elementary level 58% of the teachers operate under a 6 day cycle, 55% of this group are conforming to the curriculum. Forty (to percent of the elementary teachers operate under a 5 day cycle, 22% are conforming to the curriculum.

At both the primary and elementary levels there are indications that the 6 day cycle would be more conducive to conformity than the 5 day cycle. As a conclusion to this subsection there are indications of a combination of specific period lengths, period frequencies, and scheduling cycles that are conducive to conformity at the school levels. The combinations are; primary level - 30 or 40 minute periods with three per 6 day cycle; elementary level - 45 minute periods with three per 6 day cycle; junior high level - 45 (or 40) minute periods with three per 6 day cycle; senior high level - (distorted by low responses in cross tabulation cells).

Pacilities available and quality of the facilities - The frequencies of the facilities and the ranking (quality) as given by the Physical Education teachers are shown in Table 12.

Further analysis of the three facilities classroom/playroom, gymnasium, and playsround, which (in the researcher's
opinion) would be reasonable for all schools to have, is of
interest. One third of the teachers ranked the classroom/
playroom facility as very inadequate to inadequate. Twenty
eight percent of the Physical Education teachers are in
achools which have no gymnasium and another 14% ranked their
gymnasium faggifty as very inadequate to inadequate. Thirty
six percent of the Physical Education teachers are in
achools which have no playsround facility and another 34%
ranked their playsround facility, as very inadequate to
inadequate. These percentages show that over one there of

Facility		•		Rank	king'			n
	V.A	A	s	, I	VI	Do not Use	Not Avail.	
Classroom/					4			
Playroom	21	-35	54	. 50	35	38	26	259
Gymnasium	. 61	42	63	. 24	17		. 81	- 288 -
Playing					-			
Field .	1-2	20	31	39	39	12	113	266
Playground Softball	5.	. 19	35	51	43	19	98	270
Field Stadium/	. 8	16	24	. 23	14	. 20	. 165	270
Rink Swimming	11	13	. 15	.7	4.	. 22	193	265
Pool :	7	: 3.	6	2.	. 4	- 18	223	263

Note: V.A. - very adequate A - adequate S - Satisfactory

the Physical Education teachers are teaching the Physical Education corriculum in schools where the essential facilities are not available or the facilities are in need of improvements.

Table 13 shows the percentage results of the conforming groups as cross tabulated with the familities grouped "not available" and "available".

The results shown in Table 13 indicate that the againability of facilities may be a factor related to conformity, however, the significance levels are too large to confirm the results.

Table 13

Cross Tabulation Percentages of the Conforming Groups
With Pacilities Grouped Not Available and Available

Facility		Confo	rming (%)		
3.4 3	Wh*	Pr	El	Jr .	Sr
Classroom/ No	a 43.	74	43	64 .	33
Playroom A	J. 32	50	. 37 .	. 63	21
,	/ .2363	.0361*	.3762	N/A	N/A
	/				1
Gymnasium N	35	49	21	30	. 0
, A	34	55	49	65	. 28
1000	.2540	.5391	.0030**	N/A	N/A
9		0.70	10000		
Playing N	29	. 52	39	. 55	28-
Field A	42	62	.48	. 68	29
	.0837	.4210	3205	.1791	,9593
1	4		4		
Play- N	- 28	54	35	55	. 26.
ground A	49	57	48	71	- 31
	.0626	.8420	.0291*	N/A	'N/A
		A TOTAL STREET	18		4.
Soft/base N	3.3	50.	39	58	24
ball field 'A	38	72	47	65	31
4	.7052	.0528	.6546	.4292	.7365
	- T. C. C. C.				Decre A
Stadium/ N	33	53 '	36 *	59	20
rink A	39	. 63	. 59	73	44
	.2219	.5553	.0803	.3643	.0998
100			1		y for a
Swimming N	33	53 \	38	-61	22 .
pool A	36	67 }	70	63	46
* t	2173	N/Á	N/A	N/A	N/A
					1 .

Note: N/A indicates that the level of significance is not applicable due to low number of responses in the cross tabulation cells.

N - facility not available A - facility available

> p < 0.05

\*\* p < .01.

Cross tabulations with facilities grouped "not available" and "wailable" by pupil enrollment and by school catchment area population show that there is a relationship between the facilities which are available and the pupil enrollment, and the facilities which are available and the school catchment area population. Both pupil enrollment and school catchment area population are indicators to the size of the chool. The cross tabulation relationships show that the larger the achool the more likely the school will have the facilities available. The smaller schools are more likely to have the facilities of a classroom/playroom, a playing field, and/or a playground. (See Table 14 for the feasures.)

Since it is the smaller schools that are lacking in availability (or accessibility) of facilities and there are indications that availability of facilities may be a factor

Cross Tabulation Percentages of Pupil School Catchment Area Population With Availability of Facilities

Groups !	Class	Gym**	Play.		Soft/	Stad/	-
Groups .	room**	Gym~~	Play.				Poo
	roomwx	11 . 15	field**	ground		rink	
8" 8 9					ball		
. 4	3	7	W. If		field**	0.00	
2 8 85			M 8 8		270 ×		
N 250 708	Pupil	Enrollme	ent (faoi	ility av	ailable	2)	2 2
12-30	95	56	83	57	20	13	13
31-60	9.7	56 .	48	60	38	2-1	8 -
61-99	68	38	55.	36 6	. 9	13	0 -
100-150	76	70	38 -	62 - 1	15	13 :	. 2
151-199	63	67	66		37	20	3
200-299	83 - :	75 .	36	54	38	15	10
300-399	65 :	100 -	70:->	62	38	22	21
400-499	62	100	64	31		36	21
> 499	57	95	60	68		27	13
, 122	and the			00	40	31	
	4 P		n (facil			*1	1
O N 10 22	Alea.F	opulati	u (laci	ILLY ave	FIRDIE	*/	-
60-249	95	33	68 .	48	25		
25.0-499	93	61	53	68			5
	.74	86	44		29	1	0
	63			45	15	8.	3
750-999		52 .	29,	57		14	5
1000-1999	81	59	53	60	35.	32	: 4
2000-3999	67-		3-7	62		22	11
4000-8999	62	88	57	45 .	50 ; :	23	10
9000-13,999		100	94	88		50	47
> 13,999	.7.5	85	.62	42	18	0 .	0.

es that are more likely not to conform to the

catchment area population were already determined as factors related to conformity (see Tables 8 and 9).

Equipment available. The percentage of teachers who indicated that they had less than 25% of the needed equipment was 31%. The other percentage grouping were; 23%-50% equipment, 18%; 50%-75% equipment, 28%; and 75%-100% equipment, 23%. Three quarters of the Physical Education teachers are teaching in schools where there is less than 75% of the equipment available. A cross tabulation between the amount of equipment available and the Physical Education curriculum scores clearly indicates that the amount of equipment available is a factor related to conformity (see Table 15).

Table 15

Cross Tabulation Fercentages of the Conforming Groups

With the Factor "Equipment Available"

Equipment		,	Conforming	<u> </u>	for an in-
- " - X		Wh*	Pr . E1*	Jr	Sr
		- 10 <sup>1</sup>			y 6 4
757-1007		45	61 67.	7.2	33
507-757		43	64 62	74	36
25%-50%	S	. 30	61 48	61	. 0
₹ 25%	T	20	37 7	. 12	33

<sup>\*</sup> p < .01.

The amount of equipment available is not a factor at the primary level except where indicated that there was less than 25% of the equipment available. The researcher postulates that due to the limited equipment needed for the primary curriculum and the enphasis of the curriculum on body movement, balance, spatial avarences, and games which require little to no equipment, this is the reason for the amount, of equipment available more having the same impact at the primary level as it does on the other levels.

The factor amount of equipment available is related to Barollment (school airs). The lower amounts of equipment available tend to be at the schools with the lower arcliments. (See Appendix E, Table 37.)

Quality of the equipment - The frequency percentages for the teachers' ratings of equipment quality are, excellent
11%, good - 49%, fair - 25%, and poor - 13%. The cross tabulation of equipment quality and the Physical Education curriculum scale indicates that the quality of the equipment is a factor related to conformity (see Table 15).

A cross tabulation of equipment quality with enrollment shows that the quality rating is related to the enrollment (school size). The smaller schools tand to have lower quality equipment. (See Appendix E, Table 38.) Since it is the smaller schools which tend to have the least amount of equipment available. (Appendix E, Table 37), it would

Table 16.

Cross Tabulation Percentage of the Conforming Groups
With the Factor "Equipment Quality"

Facility		2		Conforming	(%)		
	2	Wh*	Pr	E1	(4)	Jr	Sr
Excellent Good		30	33			73.	22 .
Fair Poor	201	20	. 44	33	Jan 1	46	31

## \* p < .01.

theyefore follow that the smaller schools have small amounts of low quality equipment. A cross tabulation between equipment quality and amount of equipment available confirms that there is a relationship between the two factors. The schools with the low quality equipment tend to have the lower amounts of equipment (see Table 17).

Support given by internal and external persons and groups.
The response frequencies of each support group were; i)
support from school board administration, 120, ii) support
from Coordinators, 129, iii) support from school
administration, 177, iv) support from other teachers, 187,
v) support from community members, 73; vi) other groups, 14
(students and volunteer coaches were indicated as other

Table 17
Cross Tabulation Percent ges of Equipment Quality
With Equipment Available\*

Equipment	T.	i	Equipment .	Available	(X)	
Quality		75-100		25-50		25
Excellent	140	7.0	21	6		3
Good		27	> 41	. 18		14 -
Fair	8	-7 .	19.	30 '	× 5	44
Poor ·	7	0 -	. 3	8	7 10 1	89.

\* p < .01.

groups), and vii) little to no support, 46. The internal school groups, school advaniation and other trachers, are giving support to a majority of the Physical Education teachers. For the school board level only 43% of the teachers indicated that the coordinators were giving support and only 40% of the teachers indicated that the school board administration was giving support. Fifteen percent of the teachers indicated that the school board administration was giving support. Fifteen percent of the teachers indicated that they received little to no support. A cross tabulation with enrollment shows that of this group 68% of the teachers are in schools with an enrollment of 150 or less.

## Teacher Characteristics

Yes. Frequency of the sex of the teacher show that 134 are sales and 161 are females. Table 18 shows the frequency of teachers characterized by sex as a whole group and at the school levels, and the cross tabulation results of the conforming groups with the factor sex.

Table 18

Frequencies and Cross Tabulation Percentages of the
Conforming Groups With the Factor "Sax"

School .	Frequ		Conform	
Levels	Male	Female	Male .	Female
Wh Pr El	133 37 71	158 124 46	26 60 %	40* 52 39
Jr Sr	81 53	23 - 16.	57 30	78 19

\*p ( .05.

With the Physical Taucation surriculus acale applied at the whole curriculum level there is a higher percentage of females conforming to the Physical Education curriculum than males. However, as indicated by the school levels this initial female conforming percentage is not consistent at the school levels. Only at the juntor high level does there occur a higher female conforming percentage than the male conforming percentage. Table 18 also indicates that only at

the offinary level are there more females teaching Physical Education than males and as the school level advances the number of females teaching Physical Education decreases.

At the whole curriculum level sex appears to be a factor of conformity, however, the high number of female teachers teaching at the primary level only, combined with the high percentage of teachers conforming to the primary corriculum say be discorting the data.

Age - Frequency of the sig grouping show that 131 of the teachers are between 20-24 years, 231 between 25-29 years, 332 between 30-34 years, 162 between 35-39 years, 32 between 40-44 years, 22 between 45-49 years, and 22 50 years or older. Table 19 shows the cross tebulation-percentages of the conforming groups with the factor age.

At the whole curriculum level there is an indication that the older teachers are conforming to the Physical Squestion curriculum more than the younger teachers, however, the level of significance, 1157, is too large to verify this relationship. At the school levels it is only at the primary level where the older teachers tend to conform to the Physical Education curriculum more than the younger teachers. At the exementary level there is a shift

Table 19
Cross Tabulation Percentages of the Conforming Groups
(With the Factor "Age" (Grouped)

Âge				Conf	ormin	g (1)	٠,			
(yrs.)			-			7 :50				
		Wh	Pr -		El		Jr		. Sr	
		4	 -				,			
20 - 2	4 .	18:	- 32	2	7		. 42		· T1	
25 - 2	9 .	. 36 .	 52		- 69		- 69		30	200
30 - 3	4	28	 .53		38		65	-3	. 23	
35 - 3	9	40	 65		. 45	1 25	53		50	42.
40 - 4	4	58	 80		: 40	:	33			
45 - 4	9	60.	67		. 0		100			
over 4	9	29	60	3.3	. 0					

to the younger teachers conforming more to the Physical.

Education curriculum. The percentages given for the packool
levels are distorted due to low numbers of responses in the
cross tabulation cells. The junior high and senior high
levels are effected more by the lower cross tabulation cell
pumbers than the primary and elementary levels.

The factor of age can not be considered as a factor related to conformity (level of significance .2157), however there are indications that age may have some influence.

Telching Experience - Frequency of teaching experience show, that 521 of the Co<mark>m</mark>inhe<u>re have been teaching from one to sine</u> years. The range is one year to 18 years with a high frequency of 20 occurring at two, three, eight, and twelve years. The grouped teaching experience frequency shows 27% of the teachers between 1 to 5 years, 23% between 6 to 10 years, 23% Detween 11 to 15 years, 11% between 16 to 20 oyears, 5% between 21 to 25 years, and 3% 26 years or more. Table 20 shows the cross tabulation percentages for the conforming group with the factor teaching experience.

Cross Tabulation Percentages of the Conforming Groups
With the Factor "Teaching Experience" (Grouped)

Teaching \	1		1	Cor	forming	(2)		•
Exp. (yrs.	Wh	, .	Pr.		El	Jr	Sr	
			40		. 39	. 59		
6 - 10	38	-	57.		54	. 65	38	
11 - 15	31		.55		30	60	29	
16 - 20	39		71		38	43	67	
21 - 25	64		67.		. 50	. 67	-	
over_25	33		50	. •	0	C	· · · · · -	

Teaching experience can not be considered as a factor of conformity (level of significance .2157), however, there are indications that teaching experience may have some influence. There is a high conformity percentage of the 21 to .25 years group at the whole curriculum level and at the primary level. Also at the primary level a high percentage of the 16 to 20 years group are conforming to the curriculum, at the elementary and justor high levels there

is a gradual shift to the 6 to 15 years groups and then back to the 16 to 20 years group at the senior high levely. This trend coincides with the age factor observations, and age and teaching experience are related.

Degrees held - The frequency of specific degrees held by

Table 21
Frequencies of Specific Degree Groupings

		200			. 7	
Degree(s) He	1d ,		Ft	equency		- T
B.Ed. or B.A. (Ed	1,)		•	164		T
B.P.E. or B.P.E.	& B.Ed.		100	64		
B.P.E & Other	2 2 2	2.5		. 3		
M.P.E. or M.P.E.	& Other			-4	-	
M.Ed. & B.P.E.			1	. 4	-	. 0
Other masters	6.50 600			7	1. 8	
Other degrees	100	100		3 .		
No degree				. 26	4.0	

The teachers grouped into degree categories of Physical Education degree, no Physical Education degree, and no degree is shown in Table 22 with the cross tabulation percentages of the conforming groups.

As the percentages indicate the factor of degree held is a factor related to conformity. At all levels (excluding senior high) the teachers with a Physical Education degree have a higher conformity percentage than the teachers who have no Physical Education degree or no degree. (The low number of responses in specific cross tabulation cells at the

Table 22

Cross Tabulation Percentages of the Conforming Groups

With the Factor "Degree Held" (Grouped)

Degree /				•	Conf	orming	(1).	, .		4 25
Groups.	Wh*	9		Pr**		E1	_	Jr	- 1	Sr
P.E. Degree	41			84		77		78	4.	15
No P.E. Degree			1	44.	٠	18		32 -		17-
No degree	19.			37		40		75	- 1	33
			¥			V 2	2			

\* p < .05.

elementary, junior high and senior high levels have distorted the percentages, especially at the senior high level.)

A cross tabulation of the three groupings for degrees held with enrollment shows that there are indications of the degrees held groupings being related to enhollment.

However, due to the low number of responses in specific cross tabulation cells this relationship can not be verified. Thirty two percent of the teachers with a service of the teachers with a Physical Education degree are teaching in schools where the enrollment is 200 or greater (this includes the enrollment group of greater than 499) and there are no teachers with a Physical Education degree in

schools where the enrollment is less than 61.

Of the teachers who have no degree and other degrees the percentages as compared to enrollment are; enrollment less than 61, no degree, 30%, other degrees 24%; enrollment greater than 200, no degree 19%, other degrees 26%, enrollment greater than 499, no degree 8%, other degrees 55. It is the larger schools which have the Physical Education specialists teaching Physical Education and the smaller schools which have the non-Physical Education specialists teaching Physical Education. With degrees held by the teacher a factor of conformity it is therefore nore likely that the smaller the enrollment, the less of a chance for conformers of the Physical Education curriculum to be occurring,

University attended The fraquency of the university attended groups show, Memorial University of Newfoundland (NUN) 169 MUN and other Canadian universities 6, MUN and other non-Canadian universities 7, and other non-Canadian universities 7, One third of the teachers did not indicate the university they attended. The researcher postulates this high percentage of missing data in that, many of the teachers may have assumed that the university attended would be recorded as Memorial University of Newfoundland.

A cross fabulation between university attended and the Physical Education curriculum scores indicates that there is no relationship (see Table 23).

Table 23

© Cross Tabulation Percentages of the Conforming Groups

With the Factor "University Attended"

	0.52.5	777			×4	
University			1.5	Conforming	g (X)	5.8
Attende	4	Wh'	Pr	, E4	./.	Sr.
HUN	12,	38	58	45	64	35
Others.	2.1	40	67	50	. 46	14.

Grades responsible for teaching Physical Education - Table
24 shows the number of teachers teaching Physical Education
at each grade level and the three senior high level Physical
Education courses. At every grade level the highest
percantages for the number of classes taught at the grade
level was one, two, and three classes (see Table 24).

The number of teachers and the percentages for number of classes indicate that at the primary level many of the teachers must be teaching Physical Education to their own class. This is indicated by the high teacher percentage at I class for each grade of K, 1, 2, and 3. As the school level advances the percentage decreases at the I class grouping and increases at the 3 class grouping. This shift of percentages is an indication that there is a higher

Table 24

Number of Teachers Teaching Physical Education at Each Grade Level and the Percentage of These Teachers Teaching One, Two, and Three Classes at the Grade Level

Grade	No. of	No.	of Classes	(X)
	Teachers.	l class	2 classes	3 classes
, and h	75 -	71	20	~
T To a series	82	71	20	5
2	87	70	. 18	8.
3	92.	70.	.19	3
4	85	.69	18	6
5	83	. 6.9	22	- 4
6	81 '	68	20	7
7	81 -	52	19	9
8	76	43	. 25	15
9	80	51	- 18	13
PE- 1100	- 57	51	15	- 26
PE- 2100	46	57	11	. 26
PE 3100	. 42	52	14	28

Note: Some teachers are teaching Physical Education at more than one grade level.

percentage of teachers at the junior and senior high levels spending more of their teaching time teaching Physical Education as compared to the primary and elementary levels.

A Physical Education workload calculated for each teacher shows a range of 1 class to 36 classes. One hundred and two teachers are teaching Physical Education to only one class and one teacher is teaching Physical Education to 36 classes (see Table 25).

A cross tabulation of workload with the Physical

Table 25

Physical Education Workload Frequencies and Whole
Curriculum Level Conforming Percentages

Workload (No. of Classes)	Frequency (No. or Teachers)	Wh Conforming (%)
1 - ,	102	. 3
2	- , 50	34
3	36	. 17
4	12	50
5 .	6	- 50
6	11	1. 27
7	6	33
. 8	9 .	67
9	3 '	0
10 :	. 9	33
11	. 5 .	20
12	2	. 0
13	6	17
14	7	100
15		63
16		100
17		67
1.8		
19		25
19		25
20 21		50
21		
22		50
		Ü
24		
25	1	. 0
28	4	50
29	5- 5-7 ( <b>1</b>	0
30	1	0
34	1	
35	1.	0.
36		- 100

Education curriculum scores indicated that workload may be, a factor related to conformity, but with the high number of empty and low response cross tabulation cells the level of. significance is invalid. . The cross tabulation results showed that at the primary level of the teachers teaching Physical Education to only one class 43% were conforming to the curriculum, 'This percentage steadily increases as workload increases. The teachers at workloads of 11, 14, 15, 16, 17, 19, 22, 29, 34, and 35 were all conforming to the curriculum. At the elementary level of the teachers teaching Physical Education to only one class 23% were conforming to the curriculum. This percentage steadily. increases as workload increases. The teachers at workloads of 8, 9, 10, 11, 14, 15, 16, 17, 18, 21, 28, 29, 34, 36 were all conforming to the curriculum. At the junior high level of the teachers teaching Physical Education to only one class 40% were conforming to the curriculum. This percentage steadily increases as workload increases. The teachers at workloads of 5, 10, 15, 16, 18, 20, 21, 22, 23, 28: 29. 30: 34. and 36 were all conforming to the curriculum

The senior fligh level percentages are greatly distorted by the third number of respondents, 69, and the large number of cross tabulation cells, 84. Seventeen percent of the teachers teaching Physical Education to only one class were conforming to the curriculum. At workloads of 2, 16, and 36 all of the teachers were conforming to the curriculum.

The cross tabulation percentages of the whole curriculum level does not give the same teer of workload as the school level percentages. The effect of workload on conformity is distorted mainly due to the denior migh level distortion. (see Table 29).

The researchor gostulates that one reason for the indications of workload being a factor related to conformity is that the teachers with the heavier workloads in teaching Physical Education are the Physical Education specialists. Therefore, with the factor of degree held being a factor related to conformity, this would help explain why the results of workload are showing indications of being a factor related to conformity. (see Table 26).

Table 26
Cross Tabulation Frequencies of Workload With Degree Held

Workload	- <u>- 1</u>	Degree	ald	(No.	of Teac	hers	
(Classes)	P.E.	Degree	No	P.E.	Degree	No	Degree
1 - 5	F. A.	8 :		. 157			21
6 - 10	A 4 7 12	25		10	8000		1
11 - 15		11		. 4		20	1
21 - 36		16		2	. 3-	2 - 42	o .

Teaching time allocated to teaching Physical Education - The results of the cross sabulations between allocated time and the Physical Education curriculum scores forther establish the conclusions drawn from the workload anglysis.

There are indications that the greater the total amount of teaching time spent teaching Physical Education the higher the percentage of conformity, at all levels (see Table 27). Again as in the workload analysis, the factor of degree held in related to the total amount of teaching time allocated to teaching Physical Education.

Table 27

Cross Tabulation Percentages of the Conforming Groups

With the Pactor "Teaching Time Allocated to

Physical Education"

Allo		100	Freq.		Confo	rming (%)		8 8
Time	(2)		(2)	Wh*	Pr**	E1	Jr	Sr
85 -	100		10	.43	83	74	82	. 27
70 -	84	2	6	32	78	89 1	89	- 29
55 -	69 .	80	5	31	100 .	83 /	71'	23
40 -	54		4	46.	71	86	78	38
30 -	37	9 9	. 3	.22	40	40	71	. 0
20 -	291		. 2 .	0	.25	0	0	50
10 -	19		17	37	52	29	31	40
: <	10		52	34	47	16	32	29

\* p < .05. \*\* p < .01.

University training in Physical Education - Erequencies of the categories of university training in Physical Education show that 26% of the teachers have a Physical Education degree; 3% completed over 9 courses in Physical Education, 1% completed 5 to 9 courses in Physical Education, 10% completed I to 4 courses in Physical Education, 15X
completed Education 2191, 3070, or 3090, 12X completed the
non-credit Physical Education course, and 33X had no courses
in Physical Education.

The cross tabulation results indicate that a Higher percentage of the teachers who had some Physical Education training were conforming to the curriculum than the teachers who had no Physical Education training (see Table 28).

A grouped university training cross tabulation -Physical Education degree, all the categories with Physical
Education courses indicated, and no courses in Physical
Education -- reveals the relationship more explicitly (see
Table 29). University training in Physical Education is a
factor related to conformity.

Personal involvement in physical recreational activities -The frequencies of the physical recreational activities time categories were; daily, 35; aeveral a week, 86; several a month, 56; gnce a month, 14; less than once a month, 24; and almost never, 82.

A cross tabulation between personal involvement in hysical recreational activities and the attitude acple was irrelevant due to the high percentage of teachers falling in the positive attitude acale.

The cross tabulation with the Physical Education

Cross Tabulation Percentages of the Conformi With the Factor "University Training in Physical Education"

University Training	, )	Conf	forming (	2)
	Wh*	Pr**	El	Jr Sr
		5		11 11 11
P.E. Degree	-42	86	. 75 .	. 78 28
>9 P.E. Courses	22	50	100	. 75 25
5 - 9 P.E. Courses	-50	- 50 -	.100	100 33
1 - 4 P.E. Courses	32	65 .	0	0 . 0
Ed. P.E. Course	37	61 .	. 18	0 -
Non-credit .	· rei		. ( )	
P.E. Course	46	61 -	- 29	50 . 67
No P.E. Course	23	26	15.	. 17 / 14

Tabulation Percentages of the Conforming With the Factor "University Training in Physical Education" (Grouped)

University Traini	Conforming (X)	
. # Table 1.1	What Pras Elss Jrss	Ør :
P.E. Degree	42 86 75 .78	115
P.E. Courses	38 61 28 50.	17/

carriculum accres gave indications of a relationship between personal involvement in physical recreational activities and conformity, however, the significance levels were too large to conform the relationship. A cross tabulation between personal involvement in physical fecreational activities and degrees held (groupid) was tabulated. The results showed that the conforming groups of the categories daily and several a week were mainly comprised of teachers with Physical Education degrees. As the amount of time spent on personal involvement in physical recreational activities decreased so did the number of teachers with Physical Education degrees. This relationship could help to explain the indicated relationship between personal involvement in physical recreational activities and conformity.

Access to the publication "Physical Education Kindergerten - Grade Eleven" - The frequency above that 223 teachers had access to the guide publication "Physical Education Kindergerten - Grade Eleven" and 67 teachers had no access to the publication. A cross tabulation between access to the publication with discollent revealed that enrollent (achool size) has no bearing on having access to the publication. Of the 67 teachers who indicated that they did not have access to the publication, the enrollents of

(6) to 99) and (greater them 499) each had 10 teachers with no access to the publication and the enrollments of (100 to 150) and (200 to 299) each had 11 teachers.

A cross tabulation between Access to the publication.

And the Physical Education curriculum scores indicates that
there may be a relationship. The elementary and junior high
levels show a significant relationship and the primary and
whole curriculum levels give indications of a relationship.
The senior high level percentages are once again distorted
(see Table 30).

# Table 10

Cross Tabulation Percentages of the Conforming Groups:
With the Factor "Access to the Guide Publication".

Access		Con	forming (Z)		
March.	WH	1.47.2 - 4	E1*	Jr*	Sr
Yes	37	56	46	69	27
No	24	47	17	39	- 29
	1		1 1 1 1 1	10000	4

<sup>\* # 4.05.</sup> 

Participation in Physical Education inservices/vorkshops — The frequencies show that 165 fracthers had attended Physical Education inservices/vorkshops and 135 teachers had not. Of the teachers indicating that they had attended Physical Education inservices/workshops the ange for number of inservices/workshops attended to 1 to 25 with 62% of the teachers attending only one inservice/workshop. The range for the most recent inservice/workshop attended was the years 1973 to 1985 with 36% of the neachers attending their last inservice/workshop in 1985. Eighty nine percent of the teachers indicated that they had not nissed a Physical Education inservice/workshop due to other teaching duties. A cross tabilation between participation in Physical Education courficulum scores shows there is a relationship between the two factors. Those teachers who had the opportunity fo participate in Physical Education inservices/workshops with the Opportunity for participate in Physical Education inservices/workshops show high conformity percentage (see Table 31).

Cross Tabulation Percentages of the Conforming Groups
With the Factor "Inservice/Workshop Participation"

 Partici	pation.				Co	nforming	·(z)	B)	
	. 4	7	Wh*		Pr*	E1*	Jr*		S E
Yes		1.	38		64-	54	71		31
No .			28	75	39	25	38		. 14

<sup>\*</sup> P < .01.

A cross tabulation between participation in Physical Education inservices/workshops with degrees held shows that of the teachers who have participated in an inservice/workshop of the teachers who have a Physical Education degree, 471 have any other degree, and 81 have no degree. Of the teachers who had not attended an inservice/workshop 61 have a Physical Education degree, 842 have any other degree, and 101 have no degree: These percentages Indicate it is the Physical Education specialists who are getting the benefits of attending Physical Education inservices/workshops while other teachers who are teaching Physical Education to not benefit from the inservices/workshops.

Publications used in Physical Education Planning. The frequency of the fesponses for publications used, "res" - suggested guides used, "no" suggested guides not used, are yea, 137 teachers and no, 102 teachers. A cross tabulation between publications used with enrollment shows that of the 102 teachers indicating they did not use the guide, 57 are in schools with enrollments of 12 to 150.

A cross tabulation between publications used and the Physical Education curriculum scores shows a relationship between the two factors (see Table 32). Those teachers, using the suggested guide books have a higher conformity percentage than those who use other sources for planning Physical Education classes. The relationship indicates that the suggested guide books are appropriate for meeting the Department of Education's goals of their Physical Education curriculum.

Views on Physical Education - The frequencies of the comments on improvements were; more instructional time needed, 31; improvement of facilities (especially the gymnasium), 46; accessibility for guide books, 22; smaller Table, 32

Cross Tabulation Percentages of the Conforming Groups
With the Factor "Using Suggested Guida Books"

Using	Guid	es ·	. 15	Co	nforming (%	) '	
		161	Wh*	Pr*	E1*	Jr .	Sr.
Yes			43.	. 66	56	7,8	1/27
No		.*	33	40	32	61 .	29

<sup>\*</sup> P < ..01.

classes, 18; more funding, 19; more inservices/workshopa,
514 to have a symmasium, 65; more equipment, 102; more
facilities, 39; to have a Physical Education specialist, 64;
and to have a Physical Education coordinator, 1. The
improvement emphasis would appear to be in four areas, more
equipment, to have a symmasium, to have a Physical Education

The second open question to obtain the teachers' views was directed toward the Physical Education curriculum in terms of difficulties, emphasis, modifications, etc. Two hundred and forty one teachers wrote comments with respect to their situation, Thirteen of the teachers who responded made comments of the purriculum being adequate or that they had no difficulties with the curriculum. It was noted that nime of the 13 were teaching at the primary level only.

Many of the comments centered around the II inprovement factors listed in the first open question. However, many of the teachers tried to relate the comments more specifically to their school setting. The following comments will indicate the concerns some teachers have about Physical Education.

"In this school it is practically non-existent due mainly to the size and resource capabilities of the school. With the turn over rate of teachers here, I fear it will continue as such. Yet, with more interest from outside sources, I think it could be improved upon."

"We have no gymnasium in the school nor is there a qualified instructor. Due to this, in the primary arba there is no Physical Education program."

"We do not have a Physical Education program. This is a multi-grade school (K-5) in one room, (6-9) in another, room, to have an adequate program with so few numbers and watying ages and sizes makes Physical Education difficult."

"Being a small school with no proper gym limits our program somewhat" However, we do try to do the best possible job with the program."

www.af.compagnoticality bounds and indicated and the company

"Our school is bounded by a barren on the back, a graver road on the front, a house on one side, and a cliff on the other. The inside is comprised of the conductive to any corthwhile physical. Education program. What I do is sore as a reprise ve from seature for by students than it is for the other values of Physical Education."

"For our school, as already stated, there is a lack of facilities and equipment. This greatly hampers, almost to the point of nullifying, any attempt at a Physical Education program."

"The curriculum is A good one but I feel that I am not adequately prepared to do a good job of teaching it."

"It is very difficult and very frustrating to teach elementary Physical Sucception with not training. Each year I gain more of a background with respect to activities/games that I am tighth, if feel that call the summer of the

"Personally I can not see how you can consider us to have a program. None of our teachers have training and we do not have the facilities to implement the curriculum we are expected to teach."

"Good on paper, but it is a lot more difficult to implement and finance." (senior high school program)

"As a specialist in this field I feel quality Myssical Education can be provided for each full with program enrichment and variation at the various grade/ age levels, especially K-6. The upper, end of junion high sees the need for greater bottvational factor, age of the program of the progr

"I feel that provincially the Physical Education curriculum is aduly lacking in the primary/elementary area. Not enough emphasia is placed on early childhood motor-development. Areas in movement, such as creative dance, are not given enough importance. Also there is little consistency in the programa island videe. Attitude toward Physical Education - The frequencies of the total attitude accords show that there is a range of [1] to 50 with the mode at 44, 39 cases. However, 95% of the teachers fall within the access of 36 to 30. This indicates that a large majority of the teachers have a positive attitude toward Physical Education.

With the high percentage of teachers being rated as positive to very positive attitudes toward Physical Education the correlation and cross tabulations therefore become irrelevant for the purpose of the study. Table 33 above the frequencies of the attitude scale acores.

Table 33 .
Attitude Scale Frequencies

	Attitude		×	1	7	Freque	ency		s:		,		
				 1			-				-		
	Very Negative					1							
	Negative					. 1						-	- 7
	Neutral					13							
	Positive Very Positive	•				143							
1					-	7+		2	,			1.7	1
	. —												

### Analysis Summary

The purpose of the study was to determine if there were any relectionships between school characteristics and teacher characteristics — (school setting) — with respect to the delivery of the Physical Education curriculum (conformity). The data were analyzed to reveal possible relationships of school characteristics and teacher the characteristics with the delivery of the Physical Education curriculum at two levels (1) at a whole curriculum level and (ii) at each school level.

Determining relationships at the whole curriculum level was the mala focus of the study, however, these relationships hinged upon the relationships at the school levels. Unfortunately, the low number of teachers responding from the senior high level had an effect on the whole curriculum level-relationships and conclusions that could be drawn. But, relationships (and indications of relationships) could stiff be disclosed.

The obtained chi squares calculated from each school setting factor when cross tabulated with the Physical Education corriculum scale at the whole curriculum layel are shown in Table 34. From the analysis and discussion of each factor plus Table 34, it can be clearly seen which school characteristics and which teacher characteristics are

factors related to conformity with respect to the Physical Education curriculum. The school characteristics of ancillment, school catchment area population equipment exailable, and equipment quality are factors of conformity. The tracher characteristics of sbx, degrees held, university training in Physical Education, Physical Education innervice/workshop participation, and use of suggested guide books are factors of conformity.

The cross tabulations also showed several other factors that may be influencing conformity. They are the school characteristics of Physical Education period length,

Physical Education period frequency, scheduling cycle used, symilability of facilities, and quality of the facilities; the teacher characteristics of age, teaching experience,

Physical Education workload, teaching time allocated to teaching Physical Education, personal involvement in 'physical recreational activities, and access to the guide publication.

Primary - School characteristics of availability of the facility classroom/playroom; teacher characteristics of degrees held, univeristy training in Physical Education, and use of suggested guide books. Other indicated factors were; the school characteristics of Physical Education period tracement, schooluling the property of the school characteristics of Physical Education period frequency.

Table 3

Obtained Chi Squares for the School Setting Factors

Cross Tabulated With the Physical Education Curriculum

Scale (Whole Curriculum Level)

Characteristics	Chi <sup>2</sup>	df 4	Level	
	Obtained		. Signifi	cance
· · · · · · · · · · · · · · · · · · ·	. 1	· 5	4" I	y . " "
School		¥ 10 %	78 1 4 1	
Characteristics \		2 K Z		
	- 1	78 19		×
				10.1
Enrollment \ ·	28.07	16 .	.031	0**
School catchment	2 2	v	THE REAL PROPERTY.	4
area	47.59	16	:000	I **
Scheduling cycle	N/A	N/A	N/A	Se 3 8 8
Period length	N/A	N/A	N/A	
Period frequency	-N/A	N/A	NAA	
Facilities (avail.)		a seed to be	1.50%	
Class/playroom	2.88	. 2 '	236	3
Gymnasium	2:74	2 ::	. 254	0
Playing field	4.96	. 2	.083	7
Playground	5.54	2	.062	6
Soft/baseball field	.69	2	705	2
Stadium/rink	3.01	2	.221	9 2
Swimming pool	3.05	2 .		
Facilities (quality)	make .	* 1	A 196 A 197	
Class/playroom	5.72	* 4 .	.220	3 .
Gymnsaium	7.30	. 4	120	
Playing field	1.78	4	.776	1
Playground -	2.51	4	.444	2
Soft/baseball field	3.72	4-21.00	9.04	
Stadium rink .	1.03	4	.073	
Swimming pool	8.55	× 4	.073	
		to the state of	4	E 4. 9 9
Equipment (avail.)	42.41	6	000	0 **
· de la	F	British Care		0.0
Equipment (quality)	38.58	6	.000	0**
Wall Committee of the C	Ec. 1"	- (Co	ntinued)	

\* p < .05. \*\* p < .01.

cycle used, and availability of facilities; the teacher characteristics of age, Physical Education workload, time allocated to teaching Physical Education, personal involvement in physical recreational activities, and access to the guide publication.

Elementary. School characteristics of availability of the facilities gymnasium and playground, and equipment available; teacher characteristics of university training, access to the guide publication, and use of suggested guide

books. Other indicated factors were; the school characteristics of Physical Education period length and Physical Education period frequency; the teacher characteristics of age, Physical Education workload, time allocated to teaching Physical Education, and personal involvement in physical recreational activities.

Junior High - Teacher characteristics of access to the school suffer publication. Other indicated factors were; the school characteristics of Physical Education period frequency and the geneduling cycle used; the teacher characteristics of Physical Education workload, time allocated to teaching Physical Education, and personal involvement in physical recreational activities.

Senior High - Relationships or indications of relationships could, not be determined due to the low number of teachers responding from the senior high level. (See Table 35 for the obtained, this quares calculated from each school setting factor when bross tabulated with the Physical Education curriculus scale at the school levels.)

As a final conclusion of the data analysis the null hypotheses will have to be rejected, in part, at the 05 level of significance. That is, there are some school characteristics and some ceacher characteristics which are related to the delivery of the Physical Education curriculum in Newfoundland and Labrador.

# Table 35

Obtained Chi Squares for the School Setting Factors

Cross Tabulated With the Physical Education Curriculum

Scale (School Zevel)

	X17 1 F	0		4 4 6 1 10
Characteristics	School	Chi2	df	Level of
Harris and the	. Level	Obtained .	1	Significance
7. The state of th	. : "			8
School	4			A transfer bearing
Characteristics				
Enrollment		N/A	N/A	N/A
School catchment				
area		N/A	N/A	N/A
Scheduling cycle		N/-A	N/A	N/A
Period length -		N/A	N/A	. N/A
Period frequency		N/A:	N/A	N/A
Facilities (avail.)	18 24 3			
Class/playroom	Pr	6.64	. 2	.0361
- · /· · · · · · · · · · · · · · · · · ·	. : B1 ·	1.95	2.	.3762 €
1 1 1 1	Jr	N/A	N/A:	N/A
	Sr	N/A	N/A	N/A-
Gymnasium	Pr	1.23	. 2.	:5391
1.1.1	El:	11.59	2.	.0030**
	A Jr	.N/A	N/A	N/A
•	Sr	N/A	N/A	N/A
Playing field	Pr	1.773	. 2.	.4210
	El	2.27	. 2	3205
	Jr	3.43	. 2.	
	· Sr		2	.9593
Playground .	Pr	. 34	2 .	. 8420
113	E1 .	7:07	- 2	.0291*
VU.	Jr	N/A ·	R/A	N/A
	Sr	68	2	.7095
Soft/baseball field	Pr.	. 34	. 2	
	El'	.84 ,	. 2	. 6546
	Jr .	1.69	. 2	.4292
	Sr .	61	2 .	.7365
and the state of the			(0	ontinued) .

July July 2	1.77	>		96
A Day	1 4			1
~ " · · · ·	4	Tab	le 35 - Cont	inued
Stadium/rink,	. Pr	1:17.	2	.5553.
La Arte Cart Control of the	El .	5:04	2	.0803
	t Jr	2.01	2	.3643 *
	Sr	4.60 *	2.	.0998
Swimming pool		N/A	N/A	N/A
				- N
Facilities (quality)				
. Class/playroom	Pr	:5:47	4	,2420
and the same the production of the first	EL	4.77	4	3111
	Jr	7.69	4.	.1036
M. Carlotte and Ca	Sr	N/A	N/A	N/A
Gymnsaium	Pr	3.18	4	.5268
	El Jr	3.84	N/A	• .4268 N/A
		N/A N/A	N/A	N/A
Playing field	Sr	N/A	· N/A	N/A
Playground	Pr	2.49	4	.6546
Tray ground	E1	N/A	N/A	N/A
	Jr	N/A	N/A	N/A
Y	Sr.	N/A	N/A	N/A
Soft/baseball field		N/A	. N/A	. N/A
Stadium/rink		N/A .= '	N/A	. N/A
Swimming pool		N/A	N/A	, N/A
Equipment (avail.)	Pr	* N/A -	N/A	N/A
	. E1	50,92		.0000**
SHAPAY THE STATES	Jr.	N/A	N/A	N/A
	Sr	N/A	N/A	N/A
Equipment (quality)		N/A	N/A	N/A
Teacher		1 .		
Characteristics	.7.			
	15			.6088
Sex	Pr	.99	2 2	.2931
	El Jr .	1 5.04	2	. 0803
	Sr	N/A	N/A	N/A
Age		N/A	N/A	N/A
Teaching experience		- N/A	N/A	N/A .
Time allocated		. N/A . 1	N/A	N/A
University				
training	Pr.	- 34 . 82	4 :	.0000**
	E1	38.00	. 4	.00000**
	Jr .	N/A	N/A	N/A
	Sr	N/A	N/A	N/A
Involv. in phy.		C		N/A N/A
recreat. activities	-17	N/A.	N/A	N/A
		Con	tinued	
Arthur The Control of the de-				. A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
The state of the state of the state of	4			
10 10 10 10 10 10	4:00		· i.	*
the second of th		3		

' publication El 7.29 2 . .0261\* Jr 7.95 .0188\* N/A N/A N/A Pir 9.58 0083\*\* participation E1 16.82 0002\*\* Jr 13.19 Sr N/A Suggested guides Pr 11.86 .0047\*\* El 10.73 Jr N/A N/A N/A N/A N/A N/A Attitude N/A N/A N/A

Note: N/A indicates results are not applicable due to low number of responses or clustering in cross tabulation cells.

\* p < .05.

\*\* p < .01.

# CHAPTER V

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

#### Summar

The purpose of the study was to determine if school setting had any affect upon the delivery of the Physical Education curriculum (conformity) in Newfoundland and Labrador schools. For the study school setting comprised of school characteristics (pupil enrollment, facilities available for Physical Education, quality of the faciliti equipment available for Physical Education, quality of the equipment, scheduling of Physical Education, support given by the staff, school board, and other groups, and the school's catchment area population) and teacher characteristics (age, sex, teaching experience, professional training, attitude toward Physical Education, Physical Education workload, use of Physical Education materials, exposure to Physical Education inservices/workshops, and views on Physical Education). The researcher hypothesized that school characteristics and teacher characteristics affected the delivery of the Physical Education curriculum in Newfoundland and Labrador schools.

Thirty three superintendents gave consent to have the

schools and teachers of their districts constitute the population base. The schools of the 23 school boards were stratified into school level groupings. A sample group of 150 schools was randomly selected. From these 150 schools it was determined, by contacting the Physical Education coordinators of the participating school boards, that there were 419 teachers, in total responsible for teaching Physical Education. That is, 419 teachers who were either Physical Education for all or a portion of the school's pupil enrollment, or classroom teachers teaching Physical Education to all or a portion of the school's pupil enrollment, or classroom teachers teaching Physical Education to apprticate the school's pupil enrollment.

Questionnaires, which were designed to collect information on the school setting factors and the Physical Education curriculum, were sent to the principals of the sample group schools. The principals had the responsibility of distributing the questionnaires to every teacher in his school who was responsible for teaching Physical Education. Also, the principals had the responsibility of returning, by a specified date, all the completed questionnaires.

one hundred and twenty echools replied to the study with 300 teachers completing the questionnaires. The data collected were revorted and analyzed using the Statistical Package for the Social Scudies (SPSS) on the VAX Computer System at Memorial University of Newfoundiand. The analysis

consisted of recording frequencies of the responses and cross tabulations of the achool setting factors with a Physical Education curriculum scale. Significance, levels were determined by the calculation of chi square. The Physical Education of the categories, conformance to the Physical Education curriculum, partial conformance to the Physical Education curriculum, and no conformance to the Physical Education curriculum. The categorisation of the teachers was determined by the teachers was determined by the teachers responses to the Physical Education curriculum question for their school level(s).

The physical Education curriculum level, that is the conformery level of the seacher taking into account the conformery level of the seacher taking into account the gowlination of all the ichooh levels he is responsible for teaching physical Education, and (ii) the individual school levels, that is the conformity Tevel of the teacher at each achool level he is teaching Physical Education.

From the analysis it was determined that there were some school characteristics and some teacher characteristics that were affecting the delivery of the Physical Education curriculus. The null hypotheses were rejected in part at the .05 level of significance. At the whole curriculum lavel the school characteristics of enrollment, school catchment atem population, equipment available, and

equipment quality were related to the delivery of the Physical Education curriculum, (factors of conformity to the Physical Education curriculum). The teacher characteristics of sex, degree held, university training in Physical Education, participation in Physical Education inservices/ workshops, and use of suggested guide books were related to the delivery of the Physical Education curriculum, (factors of conformity to the Physical Education curriculum). There were also indications of other school characteristics and teacher characteristics influencing conformity. The school charasteristics are; Physical Education period length, Physical Education period frequency, scheduling cycle used, availibility of facilities, and quality of the facilities; the teacher characteristics are; rage, teaching experience, Physical Education workload, teaching time allocated to teaching Physical Education, personal involvement in physical recreational activities, and access to the guide publication.

At the individual school levels it was determined that the influencing school setting factors were not the same at each level. A low number of teachers responding from the senior high level nade it impossible to determine any relationships at the senior high level between school setting factors and the delivery of the Physical Education curriculum. The following are the school levels with their

influencing school setting factors. Primary - the school characteristic of availibility of the facility class noon/ playroom; the teacher characteristics of degree held, university training in Physical Education, and use of suggested guide books. Other indicated factors were school characteristics of Physical Education period length Physical Education period frequency, scheduling cycle used, and availibility of facilities; the teacher characteristics of age, Physical Education workload, time allocated to teaching Physical Education, personal involvement in physical recreate nal activities, and access to the guide publication. Elementary - the school characteristics of availibility of the facilities gymnasium and playground, and equipment available; the teacher characteristics of university training, access to the guide publication, and use of suggested guide books. Other indicated factors were the school characteristics of Physical Education period length and Physical Education period frequency; the teacher characteristics of age, Physical Education workload, time allocated to teaching Physical Education, and personal involvement in physical recreational activities. Junior High - the teacher characteristic of access to the guide publication. Other indicated factors were the school characteristics of Physical Education period frequency and the scheduling cycle used; the teacher characteristics of

Physical Education workload, time altocated to teaching.

Physical Education, and personal involvement in physical recreational activities.

#### Conclusions

The researcher realizes that conclusions and generalizations based upon one atudy can be very shallow, but the researcher has been left with several impressions that atom from the statistical analysis of the data and the general comments which were made by the teachers. From the atudy the researcher has drawn the following conclusions:

1. Physical Education, as an integral part of the achooln' curriculum, is receiving very little emphasis within the educational system of Newfoundland and Labrador.

2. The teachers of the small schools are placing little to to emphasis on the Physical Education curriculum due to the schools' lack of adequate facilities and equipment, the watchers' lack of knowledge and experience in the area of Physical Education, and the workload and organizational problems encountered in multi-graded classrooms.

 The teachers of the senior high Physical Education courses appear to be having problems with implementing and financing the senior high Physical Education curriculum.

- 4. Many teachers feel incompetent with teaching Physical Education due to their lack of inservice training and whiversity training in the area of Physical Education.
- 5. There is a need for Physical Education specialists to be available to all schools, either as the schools' Physical Education teacher or as the Physical Education consultant for several schools.
- 6: The availability of facilities and equipment, and the quality of the facilities and equipment varies from school to school.

# Recommendations

Based upon the conclusions drawn from the study the remearcher recommends that:

- I. Every school board in Newfoundland and Labrador assess the Physical Education curriculum offered in every school of their district in terms of making Physical Education a Viable part of the students curriculum.
- A further study of Physical Education in small schools be conducted to determine what their needs are in relation to the present Physical Education curriculum.
- A further study of Physical Education at the senior high level be conducted in terms of the implementation, financing, and practicality of the present Physical Education curriculum in the various school settings.

- 4. The Faculty of Education, Memorial University of
  Newfoundland, implement, within its degree programs,
  compulsory courses related to teaching Physical Education.
- Every school board conduct, at least once a year, a Physical Education inservice/workshop for all of their teachers who are responsible for teaching Physical Education.
- 6. The coordinators responsible for Physical Education become more involved in coordinating Physical Education in their districts, especially for the small schools.

7. The Department of Education, Government of Revfoundland and Labrador, set and maintain a standard for Physical Education equipment and facilities for the schools of the Province with consideration setting to the schools needs, puril enrollment, and community resources.

# BIBLIOGRAPHY

Anglican Board of Education for St. John's. "Physical Education Programme for Primary, Elementary, Junior High School, Senior High School Grades." Pamphlet. March, 1966;

Bognar, Carl J. and Wilfred B. W. Martin. The School Size Question: A Research Mote. Institute for Research in Hofhar Abilities: Research Bullet in No. 80-007. April 1980.

Canadian Association for Health, Physical Education and Recreation: "New Perspectives for Elementary School Physical Education in Canada", Pamphlet. CAMPER, 1977.

Canadian Association for Health, Physical Education and Recreation "Outdoor winter activities at a senior public school." CAMPER Journal, 1979, 45, 3.

Crocker, R. K. and F. 7s Riggs. Improving the Quality of Education: Challenge and Opportunity. St. John's, Newfoundland. April 25, 1979.

Dibbon, David C. The Cereer Patterns, Occupational Changes and Job Satisfaction of Newfoundland Physical Education Graduates. Thesis, Department of Physical Education and Athletics, Memorial University of Newfoundland, 1984.

Dotson, Charles O. and W. J. Stanley. "Values of physical activity perceived by male university students." <u>Research Quarterly</u>, 1972, 43,2, 148-156

Duggan, M. Elaina. "Resettlement of the Isolated Newfoundland Community." A paper submitted in partial fulfilment of the requirements for the Degree of Bachelor of Social Work at Memorial University of Newfoundland, May, 1970.

Réginston, Charles W. "Bevelopment of an attivude scale to measure attitudes of high school freshman boys toward Physical Education." <u>Research Quarterly</u>, 1969, 39;3, 505-512.

Faculty Council. "Education in Labrador: Regief Submitted to the Royal Commission on Labrador." Paper prepared by the Faculty Council, Faculty of Education, Memorial University of Newfoundland, June, 1973.

Fisher, R. D. and P. J. Warren. Schools in Newfoundland and Labrador: A Survey of Existing Facilities. Department of Educational Administration, Menorial University of Newfoundland, St. John's, Newfoundland, January 1, 1972.

Glass, Gene V. and Julian C. Stanley. Statistical Methods in Education and Psychology. Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1970.

Classford, R. C., H. J. Hohol, S. W. Mendryk, D. H. Newton, and R. L. Manz. "A Study of Compulsory Physical Education Programs in Alberta: The Programs, Their Costs, and the Incidence of Injuries Sustained by Students." Alberta Department of Education, Educaton, 1977.

Gubsen, Lyn. Schools of Education - A Time for Revolution. National Council for Accreditation of Teacher Education, 1980.

Hubbard, Alfred W. Research Methods in Health, Physical Education and Recreation. Third Edition. Washington, D.C.: American Association for Health, Physical Education, and Recreation, 1973.

Jacobsen, Stanley A. and Richard L. Stilea. "Accountability in Physical Education: The Effectiveness of the Physical Education Specialist." Tacoma Public Schools, 1933.

Kneer, Marian E. "A Look at the Carficulum and Instruction Cap in the Secondary School." Paper presented to the National Convention of the American Alliance for Realth, Physical Edubation, Recreation and Dance, Minneapolis, April 8, 1983.

Let's Go. "Resolutions anising from Fell Conference."
Publication of the Physical Education Special Interest
Council, Newfoundland Teachers Association. Let's.Co., 1978;
2, 2, 24.

Let's Go. "How we teach it." Publication of the Physical Education Special Interest Council, Newfoundland Teachers Association. Let's Go. 1979, 3,2,10.

Let's Go. "Department of Education information."
Publication of the Physical Education Special Interest
Council, Newfoundland Teachers Association. Let's Go. 1979,
4, 1, 13.

Manitoba Department of Education. "Survey: Daily Physical Education/Fitness." Curriculum Services (Physical Education), Manitoba Department of Education, September, 1980.

Math, Hannah, Lynne Brenner and Brica Wright. "A Survey of Teachers Attitudes Towards Physical Education (Central Area)." North York Board of Education, Ontario, June 1975. McIntosh, Peter C. Physical Education in England Since 1800. London: G. Bell and Sons Ltd., 1968.

Mista, Nancy J. "Attitudes of College women toward their high school Physical Education programs." Research Quarterly, 1968, 39, 1, 166-174.

Moody, Peter R. "Maple Ridge Physical Education Project: Evaluation of Stage II" 1981-82." School of Physical Education and Recreation, The University of British Columbia, 1983.

Rove, F. .. "The Challenge of a Changing Canada." Address given at the convention of the Canadian Association Health, Physical Squarton, and Recreation, Halifax, Nova Scotia, June 25-1957.

Rowe, F. W. "A Blue Print for Education," Address given by Hon. F. W. Rowe, Minister of Education, at the opening of the Annual School Supervisors' Conference, St. John's, Newfoundland. January 6, 1958.

Rove, Frederick W. The Development of Education in Newfoundland. Toronto: The Ryerson Press, 1964.

Rove, Frederick W. Education and Culture in Newfoundland.
Toronto: McGraw-Hill Rverson Limited. 1976.

Sax, Gilbert. Principles of Educational Measurement and Evaluation. Belliont, Catifornia: Wadsworth Publishing Company, Inc., 1974.

The Physical Education Council of the Newfoundland feachers Association. "A Report of the Physical Education Curriculum Within the Reorganized High School Program." Fresented by the Physical Education Council of the NTA, November 25, 1983.

The School Physical Activities Program Committee.
"Secondary School Physical Education." A position paper
prepared by the School Physical Activities Program
Committee. CAHPER Journal, 1983, 49, 3,3.

University of British Columbia, Faculty of Education.
"British Columbia Physical Education Assessment Summary
Report." Faculty of Education, University of British
Columbia, December, 1979.

Urguhart, Marg. "The structure of our curriculum: lait meeting the needs of our children?" Let's Go, 1979, 3,3,2.

Vancouver School Board, "Report on Athletic Activities," Vancouver School Board, Special Committee No. 6, July 25, 1966.

Wall, William W. "The Wall Report: A Survey of Educational Problems in Selected Study Areas, in Northern Resfoundland and Labrador." A Report to the Board of Directors of the International Greafell Association, November, 1960.

Warren, P. J. "Report of the Royal Commission on Education and Youth." Volume One and Two. 1967 and 1968.

Warren, P.J. "Public Attitudes Towards Education in Newfoundland and Labrador." A Study by P. J. Warren, Department of Educational Administration, Faculty of Education, Hemorial University of Newfoundland, St. John's, Newfoundland, September. 1978.

Warvick, Donald P. and Charles A. Lininger. The Sample Survey: Theory and Practice. New York: McGraw-Hill Book Company, 1975...

Wear, Carlos L. "The evaluation of attitude toward Physical Education as an attivity course." Research Quatterly, 1951, 22, 1, 414-126.

Wear, C. L., "Construction of equivalent forms of an attitude scale." Research Quarterly, 1955, \*26, 1, 113-119.

Wilson, Clifford, "Diversities in meanings of Physical Education." Research Quarterly, 1969, 40, 1, 211-214.

Workman; Donna Jo, "Comparison of performance of children taught by the Physical Education specialist and by the classroom teacher." Research Quarterly, 1968, 39, 2, 389-394.

Publications Government of Newfoundland and Labrador, Department of Education:

"Physical Education for Newfoundland and Labrador: A frial Unit propared by the Department of Sducation for use in the schools of Newfoundland and Labrador and distributed with the premission of the Department of the premission of the Department of Education of Memorial University College." St. John and Sowden and Co. Linited Trinters, 1957.

"Physical Education: A Teaching Guide Grades VII to XI" Bulletin No. 21-A, June, 1962.

....

"Physical Education: A Teaching Guide Grades I-VI" Third Printing, October, 1967.

"An Act Respecting the Operation of Schools and Colleges in the Province." (The Schools Act). 1970

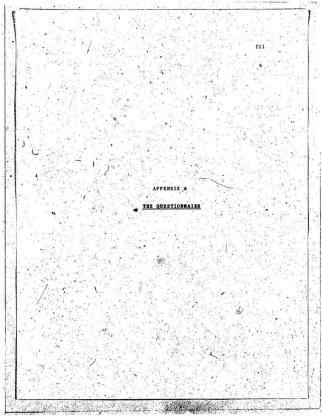
"hysical Education Curriculum Guide Kindergarten - Grader Eleven." September, 1975.

"School Planning Menual." 1978.

"Program of Studies Primary, Elementary, Secondary 1984-1985". 1984 a.

"The Directory of Newfoundland and Labrador Schools 1984-85". 1984 b.

"Aims of Public Education for Newfoundland and Labrador". Revised Printing, 1984 c.



# PHYSICAL EDUCATION IN NEWFOUNDLAND AND LABRADOR SCHOOLS

	CAREFULLY REPOR					
your respon	ses percaiding t	o the Physical	Education	Curriculum a	nd your school	's setting.
Read each i	ces carefully an	d respond by i	) placing a	check mark	by the appropr	Late response
or ii) maki	ng a written com	ment & Do Not	Place Tour	Name or the	School's Name	on the
	re. When comple					"Physical-
Education C	urriculum Study"	and return th	se sealed en	velope to vo	ur printapal.	4 1

Education Curri	culum Study" and r	eturn the sealed	envelope to yo	our printpal.	16. 14
	• • • •			B	1 2
1.1) Malo	2) Female	. 2	GE:1) 20-24	51 - 40-44	2.0
			2) 25-29	6) 15-49	
A 20 1 500	1	the second second	30-34		
			4) 7 35-39	77_ 30+	
	and the second of the	723	47 1. 33-39		100000 100
			P. Carron	E 200	100 Te 100 Te
Number of Y	ears Teathing Expe	cience:	1 10		(1000 B
					S 8
		A COLUMN	The state of the	and the second	DOMESTIC TO
Degree(s) H	eld (Hame the Univ	eralty or Colleg	e): :		1
4.1					
	4	**		1	
Approx. pun	il enrollment of t	he school you for	esently teach i	no the state of th	1
	144	1.5.			The American
	2	3	3 ACC 1991		
	ulation of the con				
ubbrow. bob	discion of the con	engreate they Ange	schoor setass:		
		A 1 2 V	8.0		1 4411
	1 1 1	CO public or		T 45	
rugreate th	e grades and the n	under of classes	at eath grade	level for which	you are
responsible	for teaching Phys	ical iEducation t	0:	-	" 1 . 2"
- , 1		100	The same of the		
CRADE .	of Clas	ses CEA	DR .	of Classe	
		77 8 2 TO			-
K .		. 0	R	V 3 12 1324	-
- 1					
- 2		Sen			
7.2.		97-	Topic and the	4 . 17	
- 7			m:,	St. Del Control	
			P.E. 1100 P.E. 2100	· · · ·	
- :		. 17	P.E. 2400	·	
			P.E. 3100	-	100
_ /-		0 (2		4 20 1	
		1.0		* A	100
The percent	age of your teachi	ng time allocate	d to teaching P	hysical Education	on: ,
852-100			1		
857-100		3) 557-697	4) 401-347		
301-392	6) 201-291	7) 102-191	8) Less th	an. 102	1 1
				1 1	
6.3	107	100 100	Acres   10   10		100
hich one o	f the following wo	ald hear souls e	a house Hadwinst	in enclains it	ober land
ducation;	r inc rostontul no	are new abbrh c	A lone Survetar	'A creently Inti	enysteat :
ducacton:	17.			4 2 2	101 101
12.	S - 11 S - 1	v			+
	al Education Degra-		*	a torra de la reco	
	University Course			on .	
5-9 Un	iversity Courses C	expleted in Phys	ical Education	4.	100
1-4 Un	iversity Courses Co	ompleted in 'Phys	ical Education	3 5 6	
Conste	ted Education 2191	. 3070 or 3090		2 X X A	
Comple	ted Non-Credit Phy	sical Education	Course .		
No Uni	versity Courses con	nalated in Physi	cal Education		. T
wo ohi	courses co	-bedres IN Lukat	car supertion		
W					
now often d	you personally be	come runothes !	n buanter tect	eactonat, activit	ties outside
of the scho	911	. 100	25 . 10 . 100		N 2 W
E V	N	5 8855			1.0
Daily	29	Several times a	week 3)'Se	veral times a m	onth
The second				10 P 1 15	
About o	nce a month 5)1	Less than Once a	Honich 6) Al	most Never'	
		, , , , , ,		A	

(요. ))(요리 그는 아들 전한 사람들이 살려면, 하나 나는 사람들이 함께 나를 하는데 하는데 다음
"11. Indicate the school's scheduling: 1) 7 day cycle 2) 6 day cycle 3) 5 day/weekly cycle
그렇다는 마음화에 가는 환경에 가득하면 한 생각이 되었다. 우리 사람들이 다른 사람
- HONE 등 다른 경기 : 10 시간 10 시
12. Indicate the approximate length of your Physical Education period(s) and the frequency of
Physical Education per week/cycle.per class:
Period Length: Prim Elem Jr. High Sr. High
Frequency:
50 54 01 10 10 10 10 12 14 TO THE LOCATION OF THE PARTY (1997) 14 TO THE CONTROL OF THE PARTY (1997) 14 TO THE PA
13. Do you have access to a copy of the Department of Education's publication "Physical" .
Education Guide Kindergarten - Grade Eleven"?
1) Yas 2) 16
1. T. M
사고 있다면, 생각 생각이 나가 여러 살 것도 않는데 가는 사람들은 사람이 모나를 하다.
14. Have you participated in a Physical Education inservice/workshop?
1) YES 2) NO. If Yes, indicate how many and the year the most recent inservi
took place: to
15. Has your school board offered a Physical Education inservice workshop which you were una
to attend because of other teaching duties?

16. Rank the publications/materials which you use in planning the instructional portion of your physical Education program. (Most Frequently Used).

7. 1. 0. 1. 1. 1.		A 11 1	180 B	The delication of
	Section Section	1 2 2 2 3	11.11.7.7.0	1764 776 C. W.
		1.3 V/W	- A A .	Klaser Beach

17. Now would you rate each of the school's facilities for the traching of your Physical ... Education Program:

a) Classrood Playrosa 3) Operating 3) Operating 4) Operating 5)		Very Adequate	Satis- Inadeq.	Very Do. I	
3) Opmanium (2) Level Plajorg Field (2) Playsground (3) Playsground (4) Of Playsground (4) Of the Association (4)		100		1	
3) Opmanium (2) Level Plajorg Field (2) Playsground (3) Playsground (4) Of Playsground (4) Of the Association (4)	a) Classroom/Playroom		A 14 1		A
o) Lives Pisylag Flaid P Flaggenda 9 Softsulf/gasbatt-flaid 9 Softsulf/gasbatt-flaid 9 Softsulf/gasbatt-flaid 9 Softsulf/gasbatt-flaid 9 Softsulf/gasbatt-flaid	b) Gymnasium			-	
d) Playground  of Softbill/Apashball field  () Steadingfrink  g) Sotuping Fool		* 15 Tale (277 )	1-1	-	
el Softball/hassball-field  f) Stradiumfrink  g) Soutming Pdo1	d) Playerment		1,		
f) Stadiumirink g) Swimning Pool	el Softball (baseball field		127		
g) Swimming Pool					- 1
					- 11 - 111
	orners (frame sheers).	A COLUMN			11.

13. For the instructional portion of your Physical Education program, extenses the amount of

19. The quality of the available equipment is: 1) Excellent 2 Good 3) Fair 1) Foot

High Organizational Games (Soccer, Floor Hockey, Softball) Low Organizations! Cames (tag, relay races, circle games) Others (Please specify) =) B. For teachers of Elementary Physical Education only (--5): Elementary Gymnastics Safras': b) Floor Kaskey Dance Ica Harkey Field Hacker -Lacrosse Backethall Wrestling Track & Field Orienteering Others (Please specify

C. For teachers of Junior High Physical I	Education only (7-9):
a) Elementary Gymnastics	i) Softbell
b) Apparatus Gymnastice	j) Floor Hockey
c) Dence	k) Ice Hockey
.d) Soccer	1) Field Hockey
e) Volleyball	m) Lacrosse
f) Basketball	n) Wrestling
g) Track & Field	o) Orienteering
, h) Badminton	p) Others (Please specify)
	, <del></del>
and the second second	1
D. For teachers of Senior High Physical 1	Education only. Place a check mark across from the
activities to indicate which Physical	Education course(s) you teach the activity under.
	7
e in la Nation (Lighter	
P.E.*1100	P.E. 2100 P.E. 3100
a) Aquatics	
b) Archery b)	ij— • ij— (
c) Badminton	
d) Basketball d)	0
e) X-Country Skiing	
f) Field Hockey f)	(a) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
g) Floor Hockey g)	s) <u></u>
h) Ice Hockey h)	N
i) Gymnastics i)	
k) Orienteering k)	3-3-
1) Soccer 1)	Ď Ď
m) Sof pall	<u>.</u> )
n) Table Tennis n)	n)
o) Team Handball o)	0) 0)
p) Tennis p)	p)
q) Track & Field q)	4)
r) Volleyball r)	• r)
s) Winter Camping s)	3≘ 3≘
u) Others (Please specify) u)	. 3-
ur others triesse specity, ur	· · · · · · · · · · · · · · · · · · ·
	find to be supportive of your Physical Education
Program:	
a) School Board Administration	e) Community Henbers
	f) Others (Please specify:)
	There is little to no support given.
d) _ Other teachers of the school .*	
24. Comment on how you perceive the Physi	ical Education curriculum. (i.e. difficulties,
emphasis, modifications, etc.)	
7	The type of the state of the same
T	the state of the s
and the second of the second of	
The second secon	the first time the state of the
The state of the s	6/ 1
The second secon	The second section of the second section of the second section of
and the second section of the second	
Aller Briefe and Joseph Service	
	(1)
	(1)
	(1)
<b>.</b>	(1)
<b>\</b>	(1)



# MEMORIAL UNIVERSITY OF NEWFOUNDLAND

St. John's, Newfoundland, Canada AIB/3X8

Depariment of Curriculum and Instruction

April 16, 1985

Telex: 016-4101: Tel.: (709) 737-7600

Dear Principal:

I am presently enrolled in the School of Graduate Studies at Memorial University of NewFoundland studying for the Wegree Master of Education (Curriculum and Instruction). As part of the degree program, I am required to select an area for these that and the select and the sele

Hy chosen research area in Physical Education, and my thesis is entitled "Physical Education Curriculum. A Study of the Current Delivery System of Physical Education in Newfoundland Schools". The purpose of the study is to determine the delivery of the Physical Education curriculum within the various school settings across the Province, and to determine if the present Physical Education curriculum is meeting the needs of seath school.

Through the consent of your school district superintendent, your school was included in the hopulation base for the purpose of random schoction. Your school, along with 149 others, has been selected to constitute the study group. With your op-operation the necessary information pertaining to the study can be promptly collected.

I am asking for your co-operation by helping me in the following ways:

11. Your school board's Physical Education Co-ordinator has indicated that there are members of your staff responsible for teaching Physical Education in, your school either on a regular or irregular schedule. Please forward to each of these teachers one copy of the colleague's letter, one copy of the questionnaire' and/one return envelope marked "Physical Education Curriculum Study.".

. Ask each teacher to respond to the questionnaire and return the completed questionnaire, in the sealed return envelope, to you by March ??. t,

Place all return envelopes containing the completed questionnaire into the stamped, addressed envelope provided and mail to me by March ??

Your co-operation is essential to the study. Thank you for your time.

Yours very truly,

Roger Melendy



#### MEMORIAL UNIVERSITY OF NEWFOUNDLAND St. John's, Newfoundland, Canada AIB 3X8

Department of Curriculum and Instruction

April 16, 1985

Telex: 016-4101 Tel.: (709) 737-7600

Dear Colleague

I am presently enrolled in the School of Graduate Studies at Memorial University of Newfoundland studying for the degree Master of Education (Curriculum and Instruction). As part of the degree program, I am required to select an area for research and based on the research; submit a thesis to the School of Graduate Studies.

By chosen research area is Physical Education and my thesis is entitled "Physical Education Curriculums," A Study of the Current Delivery System of Physical Education in Newfoundland and Labrador Schools." The purpose of the study is to determine the delivery of the Physical Education curriculum within the various school settings across the Province, and to determine if the present Physical Education curriculum is meeting the needs of each school.

Enclosed is a questionnaire designed to gather the necessary information pertaining to the study. I know that you are busy and the questionnaire may appear to be lengthy, but because of the design nature of the items, the total time needed to complete the questionnaire will only be a few minutes. If you could take these few minutes and respond to the questionnaire it would be greatly appreciated by wm, and to vill help to give a better picture of hysical particular by the province. These complete the questionnaire and then place Education within our Province. Places complete the questionnaire and then place Seal the envelope and return the sealed servelope to your Principal by April 26, 1985. Your Principal is responsible for mailing all the wealed envelopes containing the questionnaires to me.

The information which you reveal will be used by me for group tabulations, and can not be directly associated with you. Confidentiality in this respect is guaranteed. All completed questionnaire forms will be destroyed upon completion of the study.

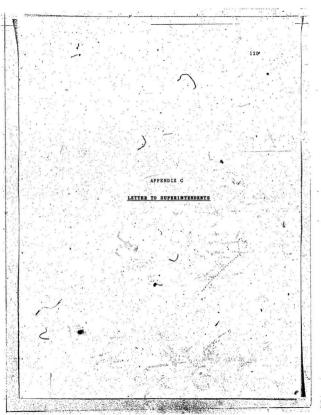
Your co-operation is essential to the study. Thank you for your time

Yours very truly,

Roger Melendy

APPENDIX B THE SPLIT-HALF TECHNIQUE AND SPEARMAN-BROWN FORMULA TO DETERMINE THE RELIABILITY OF THE ATTITUDE SCALE USED IN THE QUESTIONNAIRE

B-B (A-A)2  $(B-\overline{B})^2$   $(A+\overline{A})(B-\overline{B})$ PERSON A-A -2.8 21. 20 . .16 7.84 1.12 22 25 2.2 ...36 4.84 1.32 -2.8 11.56 7.84 9.52 20 -.88 25 2.2 .16 4.84 21 22 24 1.2 .36 1.44 21 20 .16 7.84 6.76 24 24 2.6 1.2 1.44 3.12 .12 -22 23 .36 .04 22 24 .36 1.44 . 72 1.2 .04 23 .16 .08 10 - 214 228 20.4 37.6 16.8 10 The odd numbered statements B . The even numbered statements Covariance Between A and B: Spearman-Brown Formuala Z times the correlation between the halves I plus the correlation between the halves The split half reliability is .75





# MEMORIAL UNIVERSITY OF NEWFOUNDLAND St. John's Newfoundland, Canada AIB-3X8

Department of Curriculum and Instruction

schools.

Telex: 016-4101

December 5, 1984

TO: Superintendents, School Boards of Newfoundland and Labrador

FROM: Roger Melendy, Candidate for Degree of Master of Education SUBJECT: Consent for Proposed Questionnaire Study

I am a graduate student at Hemorial University and I am presently studying for the degree of Master of Education (Courriculum and Instruction). Presently I am planning my thesis for submission to the School of Graduate Studies for August, 1987. The proposed thesis is entitled "Physical Education Curriculum: A Study of the Current Delivery System of Physical Education in NewFoundland and -Labrador

The purpose of the study is twofold:

- (i) to determine the delivery of the Physical Education curriculum as for the individual teacher in his/het setting:
- (ii): to determine if the present Physical Education curriculum as outlined by the Department of Education is meeting the needs of each school as deemed by its setting.

The data for the proposed study will be collected through the use of aquestionnaire. Items on the questionnaire will encompass questions on (i) teachers' knowledge, training, and experience in Physical Reducation out of the collection of the coll

The planned study group is to be a random sample of teachers who are responsible for teaching Physical Education from across the province. In order for as to determine a final population group for the random selection process of a study group I will need your cooperation. I am asking for your cooperation by granting Mg consent (on behalf of, your district) to have the teachers of Physical Education population group for random selection unded, in the

When I receive your consent I will then form the population group and randomly select the study group. The raw data collected from the Atudy group will be kept confidential and destroyed after Exqup tabulations. Enclosed is a reply form for you to complete and return in the stamped, addressed envelope. Your consent is very important to the advancement of my research and would be greatly appreciated. Thank You Roger Melendy

#### REPLY FORM

SCHOOL BOARD:

 Please complete the reply form and return in the stamped, addressed envelope provided. A prompt reply would be appreciated.

Please place a check mark, by the appropriate instruction(s).

- On behalf of the district I give consent for the teachers of the district to be included in the population group for random selection.
- A copy of a report of the grouped tabulations for the district's resource library would be appreciated.

Signature

124 APPENDIX D DEPARTMENT OF EDUCATION, NEWFOUNDLAND AND LABRADOR, PHYSICAL EDUCATION CURRICULUM - PRIMARY, BLEMENTARY, JUNIOR HIGH, SENIOR HIGH

#### Primary

The main goal in the primary program is to develop a foundation of general psychomotor skills.

Aside from the psychomotor approach, primary Physical Education must also develop students physicalogical (i.e., physical fitness and health) understanding of their bodies.

The program selected for the primary grades is designed to be taught by the classroom teacher. Consequently, any primary school which does not employ a physical education specialist can have the classroom teachers teach the program. It is advisable that the classroom teachers be given some training in the program, justee through a university course (Education 3070, Memorial University) or through corrections.

(Department of Education, 1984 (1) p.14)

Content

Agility (stopping, starting, changing direction)

Balance activities

Spatial concepts (personal space, group space, awareness of space between individual and moving/nonmoving objects).

Rhythmic Movement (Fast/slow/even/uneven movements and

beats)

Rope jumping skills

Locomotor activities (running, sliding, hopping)

Psychomotor activities (muscular co-ordination)

Co-operative games

Body awareness (twisting, bending, rolling, shaking)

Low organizational games (tag, relay races, circle games)

## Teachers' Guides

Physical Education Curriculum Guide: Kindergarten Grade Eleven.

\*"Physical Education for Elementary Schools" (Kindergarten, Grade One, Grade Two, Grade Three)

(\* Also referred to as the Battlecreek program or the Van Holat program.)

# Elementary

In the elementary Physical Education program, there are three categories of physical activities. Phree, there are the activities that are game or competition (oriented.

Secondly, there are activities that have as their main goal the enjoyment and hesthetic appreciation of movement.

Thirdly, there are activities that are used mainly for physical fitness, development.

(Department of Education, 1984 (1), p. 25)

# Content

A minimum of five of eight activities must be completed. (One area of gymnastics is compulsory.)

Elementary gymnastics ..

Apparatus, gymnastics

Dance Soccer

Volleyball

Basketball

Track and Field

Badminton

### . Teachers' Guidebooks

Personal Well Being

Physical Activity Outlines (available from Physical

## Junior High

Studente at the junior high level will be introduced to a wide variety of sports; with emphasis being placed on psychomotor skill development in each sport.

The junior high school program will continue to emphasise and expand each student's development as a sportsperson.

(Department of Education, 1984 (1), p. 44)

<u>Content</u>

A minimum of five of twelve activities must be completed.

Apparatus gymnastics

Elementary gymnastics; Dance

Soccer Volleybail Basketbail

Track and Field

Badminton

Field Hockey

Lacrosse Wrestling

Orienteering

# Teachers! Guidebooks

Physical Activity Outlines (available from the Physical

Education consultant)

Physical Education Evaluation Booklet

## Senior High

Physical Education 1100

There are two major objectives in this course. The first is to teach students the meaning and importance of physical fitness. The second objective is go develop psychomotor skills in at least five different physical activities.

(Department of Education, 1984 (1), p. 66)

Content

A minimum of five of nine activaties must be completed.

Archery

Orienteering

Soccer Volleyball

Basketball

Team Handball Wrestling

Gymnastics.

Table Tennis

# Teachers' Guidebooks.

Physical Activity Outlines

Physical Fitness: A Way of Life

Physical Education 2100

This course will emphagize physical fitness and paychomotor skill development through a variety of physical activities. There is a fore unit on physical conditioning, and, in addition, the course must present at least five physical activities.

(Department of Education, 1984 (1), p. 67)

#### Content

A minimum of three of ten activities must be completed.

Cross-country skiing

Winter camping .

Hockey

Soccer

Lacrosse

Volleyball

Tennis

Badminton

Aquatics

Track and Field V

This possible to add-to this list those activities which

were not covered in Physical Education 1100.

## Teachers' Guidebooks

Physical Activity Outlines

Level I Coaching Manual

Physical Education 3100

This course introduces students to a variety of physical recreational activities that may be enjoyed throughout sould life. There will also be continued development of some of the skills introduced in previous courses. The course also deals with sport and recreation leadership and the mechanical principles of movement.

(Department of Education, 1984 (1), p. 67)

## Content

No specific outline of activities.

Teachers' Guidebooks

Physical Activity Outlines

Leadership booklet

Sport Skills: A Conceptual Approach to Meaningful Movement

Physical Education and Sport for the Secondary School Student

Level I Coaching Manual

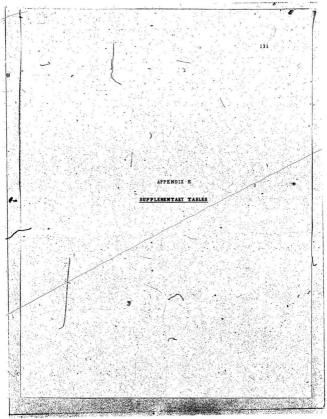


Table 36

Cross Tabulation Percentages of the Conforming Groups
With the Factor "Facility Quality"

Pacility	<u> </u>	Conforming (X)				
	Wh*	Pr*	E1*	. Jr	. S S z	
Classroom/ Ia	31	47	25	33	40	
playroom, S	29	. 59	. 50	69	5	
A	29	42	44	75.	23	
in a second state of	.2203	-2420	.3111	N/A	N.	
Gymnasium 1	20	42	40	5.2	14	
● ' S	37	56	46	69	. 10	
A	37	59.	1 57	69	15	
	.1206	.5268	.0218*	N/A	, N	
Playing I	38	59	46	62	26	
field rS		73	5.0	20	. 11	
A .	47	60	. 54	75	17:10	
	.7761	N/A	N/A	N/A	N/	
Playground I	38	56	43	67	/: 28	
8	41	53	43	77 /	17	
A .	50-	69	64	78	50	
· Links of the	.6424	.6456	N/A	N/A	. N	
Soft/base L-	30	64	20	53	36	
ball field S	38	78	55	91	10	
A	50	77	75	63	46	
	.4442	N/A-	N/A	/N/A	N/	
Stadium/ I	36	86	57	100 .	40	
rink S	33	40	25	67	38	
A	44	58	73	64	. 50	
This to be about	N/A	N/A	N/A	N/A	N/	
Swimming I	. 0	50	50	50	25	
S	50	100	67	60	50	
A	50	60	80	71:	60	
All the Tall and	N/A	N/A	N/A	N/A	N/	

Note: N/A indicates that the level of significance is not applicable due to low number of responses in the cross tabulation cells.

I - ranking of inadequate 8 - ranking of satisfactory

A - ranking of adequate \*- ranking or satisfactor \* p < .05.

Cross Eabulation Percentages of Equipment Available
With Enrollment\*

Enrollment	Equipment Available (%)	10.
	75-100 50-75 25-50	
12-30	5 22 17	56
31-60	5	55
61-99 100-150	16 24 20 13 21 24	40
151-199	9 37 20	434
200-299 300-399	30 35 13 39 35 22	¥2.
400-499	36 50 7	7
> 400	61 29 7	4 . 3

\* p / .01.

Table 38

## Cross Tabulation Percentages of Equipment Quality With Enrollment\*

	nrollment Excellent 6 Fair 6 Good (X) Poor (X)
•	there are the first end of the first than the
	2-30 39 61
	11-60 43 57
	1-99 65 35
	00-150 42 58
	51-199 71 29
	00-299 568 32
	17 83 17
	00-499 79 79 21
	> 499 90 10

<sup>\*</sup> p 4 .01.

Curriculum Question Response Frequencies

	of the curr.	Not taught but part of the curr.	part of the	
		the curr.	curr.	
	Prima	ry Level	100	18"
Agility	148	15		2000
Agrilly	140			
Balance	132	31	C 1 . 10	
Spatial	137	2.6		
Rhyth. move	135	28		
Rope jump.	131	31		1
Locomotor skills	153	10		
8 A 6 L 5 1 4	100		A region and	-
Psychomotor skill:	126	35		
Copp. games		- 11		
Coop. games	. 151	- 11	The second second	9 5
Competitive games	3 4 A F		121	
10 m		and the second	. 1711	
Body aware.	141	. 22		
	44 V	- 1 Table 1 Tel		
Hi. organ: games	P		. 61	
Low organ. games	149	14		
1.04 to X. 1.				
Other			, 8	
2100		Junior Righ Le	wala	
100	dentaly and .	Junior Right Le	Vers	
Elem gym. El	59	59	4.77	
Jr	45	. 59		under "
App. gym El	25	94	Act of the	10.0
Jr Jr	32	73	to the state of	100
A. T. S.	die T	1.00	The state of the	
Dance El	24	.95	Albert Section 19	
Jr	9	95	1 10 10 10	
	1.50	(Continu	ed)	
	12.5	(Continu	ed)	

g =2', st				
* a		. F. V. V. V.	Table 39 - C	135
. 2 5 6 .			14016 37 - 6	onernaea.
Soccer	E1 . 87.		33	The second
61 147	Jr 92		13	
Volleyball	£1 76		44	marine, in
	. Jr		9	100
Basketball.	E1 81	1, - 2-3	3,9	
	Jr 87		18	and the second
Track &	E1 54		66	A Street Street
Field	Jr 43	70 - 11	62.	
Badminton	E1- 52		68	13 CA
	Jr 82	hat have	23	
Softball .	E1			62
	. Jr //	4		66
Floor Hocke	y El		the state of	85 71
	535 a. S. Ph			. "
Ice Hockey	El Jr		Sel Sel Con	9
1. L. S. S.	1 10 10 10	a Province	The Late	That Herm
Field Hocke	y El Jr 7		93	. 2
	A 150 F 1 1 1			
Lacrosse '	El Jr 14	100	86	
Wrestling				
wrestling	Jr 14		86	
Orienteer.	E1	統		21
Orleateer.	Jr . 15		82	21
Other	E1	er to		28
	/ Jr		. 434 13	35.
P5"	4 Senior High	(P.E. 1100	. 2100 . 3100	)
Aquatics	11			2
Aquatics	21 4		46	
	31 2	1		
Archery	11 27		31	Sall The
	21 7 31 22		e 18 - 1	12
			(Continued)	
			(Continued)	
and the second	and the same of	1 1 1 1 1 1	to a st. Property	N. J. 194 . 195

14 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the second second			A 15 35	
1. 4		The second			
1	Larin Port				Si
1	and the first				
1 1 1 1 1		1 1 1 1 1 1	·	10 11 11 11 11 11 11 11 11 11 11 11 11 1	
1				136	. ;
1 2 2			Table 39 -	Continued	
1				32	. 1 2 1 1 1
	Badminton 11	39	- 11	32	4. 1
	31	. 31		1 17 17 1	11 11 11 11
1	- 10.00			1.75	51.7 (5
	Basketball 11 21	52	, ,	27	
	31	' 11			3
			A CANADA	1.	
1.9 1.5 5	X-Coun.ski 11	19	31	10	
2	31	20	7		A Trans
			14.2.2		
M	Field Hoc. 11	6		1 30 1 1 3	2 5 11
P. 1 . 5	31	2			11.784 3
1	Floor Hoc. 11	A A			2 11
	Floor Hoc. 11	. 19		14	13. 13.
1 1 1 1 1	21 31	500	100	. 13	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1. 1. 1. 1. 1.		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	NULL AND W		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ice Hoc. 11			2	19 (19 )
li to pain	21	1	48	. 4.	· /
	م <sup>31</sup>	to you to	1.3-4.1-1		5
1. 1.	Gymnastics 11 21			2	14 17 1
	21 31	5 4		~ '	1/. 1
	-100	24 4 6 6 7 7		×	
1 . Than 1			7 7 18 19		1.4
hold we see	Lacrosse 11		38		
	° 21 31	1			S. S. S. W.
			Contract of the		
1	Orienteer. 11	21	. 37		
1 1	31	12		·	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				- T	
	Soccer 11	. 20	18		
1.	31	r <sup>30</sup> ,	10	7	
1 1	31 Softball 11				1.00
			3 4 1 4 1 1 1 E	11	
	31	20	1	4 1	
1	The state of the s	and the second	Tak Last.	AVE OF W	
The same of	Table tennis 11 21	.23	34	10	1 1 5 1
	31	4	AND THE	10	1. 34.
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Year Line	7 7 6	4 to 1
		Bur Mary War	7		7.7
			(Continued)		
/	4. 1754 7	Contract Contract	Can Later	14 11 11 11	C. Company
		3. 3. 1. 1. 1.	4	9. M. War. 17	
		the other states	. 1.0		7 - E
				7 77 7 - 1	The same of

Tean landball 11				Tab	le 39 -	Continue	137
	7						
21			100				
Sensis	andball			- 41	- : = /-		
grani: 11 6 4 4 52 1 12 6 1 12 1 1 1 1 1 1 1 1 1 1 1 1 1			3		2.31	4	
21 6 44 31 2 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16		31	- 4		: 1	1.04	
21 6 44 31 2 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	7	:		e : 1 '	13	1	
31 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ennis					1 1 .	-
Track 5 ield 11 3 17 21 13 37 01/syball 11 50 8 121 40 5 31 11 linter. amplig 11 5 45 91 12 12 15 17 prestling 11 4 52			6	- 44		1	
	1	.31	3			1 2	-
						1	
21 13 37 37 31 31 31 31 31 31 31 31 31 31 31 31 31		1 - 1			-1	10	
Olloyball 11 50 8 1 21 40 5 11 11 11 11 11 11 11 11 11 11 11 11 1	ield .	11	3	2.		10	
Olloyball   11   50   8   21   40   4   5   5   5   5   5   5   5   5   5		21	13	37		1.15	
ollepsall 11	1	31	1 1 1				
21 40° 5 31 11 '  Ninter sampling 11 5 45' 31 12 31 12 4 52  Prestling 11 4 52	1:/-		1		2 .	4 3	
21. 40° 5 31 11	ollevball.	11.	50	. 8	4 .1 .1	-	
31 11 finitet. ampling 11 3 45 31 11 45 11 11 45 11 11 45 11 11 45 11 11 11 11 11 11 11 11 11 11 11 11 11		21			111	- 100	
Manter.  amping 11  21 5 45  31 12  breasting 11  4 52  22 24			11		1 1		
amping 11 5 45 5 45 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		WE .				11. 3	
amping 11 5 45 5 45 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	inter					1 1 1	
21 5 45 31 12 4 restling 11 4 52 21 2		11' 14'		41 " V	3 1 5	. 7 . 9	
51 12	ampino .		5	45			
restling 11 4 52			12				
21 2		**	**	2		- 1	
21 2	rectling	11.	4	52			2
				- "	5 . 6 15	1	
	25.		. 20		191		
						1 -	
					-		-

95.the curriculum at both 1100 and 1100. Misc, there is the option for the teacher to teach any settivity not completed in 1100 under the course 1100.7 If these activities were indicated as been taught in both 1100 and 1100 then kitwas recorded under 2100 as being taught, but not part of the curr.







