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A COMPARATIVE STUDY OF THE PARTICIPATION AND EXPENDITURES IN INTERSCHOOL AND INTRAMURAL ATHLETIC PROGRAMS

A Thesis

Presented to

the Faculty of the Graduate School

Indiana State Teachers College

In Partial Fulfillment
of the Requirements for the Degree
Master of Science

рy

Charles Jackson Hopkins
September 1950

The thesis of <u>Charles Jackson Hopkins</u> ,
Contribution of the Graduate School, Indiana State Teachers
College, No. 708, under the title A COMPARATIVE
STUDY OF THE PARTICIPATION AND EXPENDITURES IN INTER-
SCHOOL AND INTRAMURAL ATHLETIC PROGRAMS
is hereby approved as counting toward the completion of
the Master's degree in the amount of 8 hours' credit.
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ACKNOWLEDGMENTS

The writer wishes to thank the members of his committee, Dr. Walter E. Marks, chairman, Dr. David Glascock, and Mr. Charles Hardaway, for their help and encouragement in the preparation of this study.

He also wishes to thank Mr. Bill C. Anthis, Athletic Director, Rockville High School, Rockville, Indiana, for his aid and assistance in compiling and organizing this paper.

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C.J.H.

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CHAPTER I

THE PROBLEM AND DEFINITIONS OF TERMS USED

Many persons have discussed the relative merits of the interschool and intramural athletic programs. Both are important to the success of a well-rounded athletic program in a high school.

I. THE PROBLEM

The purpose and importance of the study. The purpose of this study was to: (1) compare the number and percentages of persons participating in the interschool athletic programs with the mumber and percentages of persons participating in the intramural athletic programs; (2) compare the total amount of money spent on the interschool athletic programs with the total amount of money spent on the intramural athletic programs, and the per capita amount spent on each program.

Through this study, the relative picture of participation and expenditures in each program can be easily seen. As a result, it is hoped that certain recommendations about athletic programs can be made. In the light of the data collected, this study may: (1) aid teachers colleges' physical education departments to see the situation as it exists so they can better train students going into the field; (2) aid the athletic directors in high schools to see the true situa-

tion as it exists, so that they might make a more suitable, program to benefit all students.

II. DEFINITIONS OF TERMS USED

Interschool athletics. Interschool athletics was interpreted to mean those sports in which competition between two or more schools occured. The members of the interschool squads are selected on the basis of ability in a particular sport, and tend to be a selected group.

Intramural athletics. Intramural athletics was interpreted to mean those sports in which competition occurs within the population of one school. This competition did not include that in physical education classes. This program placed emphasis on participation rather than on ability in a given sport, and is open to all boys.

Small schools. Small schools was interpreted to mean those schools in which the total enrollment was from one through ninety-nine.

Medium schools. Medium schools was interpreted to mean those schools in which the total enrollment was from one hundred through two hundred ninety-nine.

Large schools. Large schools was interpreted to mean those schools in which the total enrollment was three hundred

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CHAPTER II

REVIEW OF THE LITERATURE

There has always been a controversy concerning the relative merits of the interschool and intramural programs. It is usually conceded that both programs are necessary for a well-rounded athletic program, but where should the emphasis be placed, and to what degree should the emphasis be placed?

Frank G. Schultz¹ stated that, "we are in an era when the importance of the high school interscholastic program is prone to be overemphasized." He made a survey and noted that coaches from the East and Midwest tend to favor a more limited program.²

Very likely the slogan, "athletics for all" has done much to convince taxpayers of the limitation of the over-emphasized interscholastic program, and the need for a more comprehensive athletic organization which would provide athletic interests for all, rather than for a limited number. 3

¹ Frank G. Schultz, "Administering the Athletic Program in the small High School," School Board Journal, 97:47, October, 1938.

² <u>Ibid</u>.

DeForrest Showley, "Recent Trends in High School Intramural Sports," <u>Journal of Health and Physical Education</u>, 12:356, June, 1941.

Showley4 reports that in practice most schools do not yet, place sufficient stress upon the intramural program in athletics.

The trend toward intramural athletics is shown in School Opinion Poll taken by <u>Nation's Schools</u>. The polls showed seventy-five per cent of school administrators favoring mass athletics. Thirty-one per cent of five hundred school administrators queried, answered.

A blistering attack upon interschool athletics was made by Russel Tooze. 6 He said:

The interschool athletic programs sends its tentacles throughout the whole school system. Its aim is singular -- to produce winning teams. We must determine whether the school is an educational plant or an institution for raising funds.

Let physical, mental, and spiritual culture be the aim of all school activities. If this aim is fulfilled, America will be in the heart of everyone, and interscholastic competition will be disposed of with pleasure.

Most people do not take such a strong view, but several persons advocate the education of people to the needs of a greater expansion of the intramural program. Among

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ABBARA NA ARABA, MASARASTAR BEN HALLM GARAGE AS

⁴ Ibid.

DeForrest Showley, School Opinion Poll, Nation's Schools, 32:48, November, 1943.

⁶ Russel Tooze, "Intramural versus Interscholastic Contests," School Activities, 14:92-4, April, 1943.

these was Paul R. Washke⁷, who said:

It is the job of the people who are acquainted with the objectives of and values to be gained from intramural participation, to educate and inform, so that this branch of physical education will receive the true consideration and place in the educational system which it so justly warrants.

Objectives to be realized in intramurals are: physical development, social adjustments, mental development, worthy use of leisure time, and expansion of neuro-muscular skills.

DeWitt⁸ voices a problem in the forming of an intramural program when he stated that there was no tangible basis around which intramurals could be organized.

An answer to the critics of the interscholastic program is made by Julian W. Smith. Mr. Smith said that the critics of the interscholastic program have usually fallen back on the argument that it reaches only a few boys. He continues by stating that the fact that every student cannot play on the first team is hardly an indictment of all interscholastic athletics. Competitive athletics do not call for defenders. Athletic games are based on democratic principles. They are a part of our democracy.

⁷ Paul R. Washke, "Some Objectives of Intramurals", Journal of Health and Physical Education, 10:86-7, February, 1939.

⁸ R. T. DeWitt, "Developing an Intramural Program", Journal of Health and Physical Education, 18:677, November, 1947.

Julian W. Smith, "Athletics For All," School Activities, 15:207, February, 1944.

A fear of the financial structure of the interschool program was expressed by Ralph LaPorte. 10 He said that the citizen who contributed to the gate receipts for football, or other athletic sports, feels that it is his program, and that he has a right to criticize and find fault with its administration and coaching.

While this fear might be a real one, there is no need to worry about the accountability of the income. Hoek lasys that today, monthly financial reports, game reports, and a summary of each sport's cost, together with a complete yearly report and inventory, are made.

Perhaps the best summation of the obligations of both the interschool and intramural programs is made by Carl L. Schrader. 12 He says, "We (in athletics of all kinds) and only we, meet all pupils throughout the entire school life, and meet them more intimately. What an opportunity, but what a responsibility."

It was not the purpose of this paper to take sides in the controversial issues between interschool and intramural

¹⁰ William Ralph LaPorte, "Is Our Athletic Philosophy Sound," Journal of Health and Physical Education, 10:580-1, December, 1939.

¹¹ Floyd G. Hoek, "Accounting for Athletic Funds,"

American School Board Journal, 115:56-7, September, 1947.

¹² Carl L. Schrader, "Lost Objectives," Journal of Health and Physical Education and Recreation, 19:254-5, April, 1948.

athletics. The writer merely wished to present the statis; tical data about each sport, as compiled from the question-naires.

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CHAPTER III

I. SOURCE OF DATA AND METHOD OF PROCEDURE

Source of the data. Data for this study were obtained from a questionnaire, 1 sent by the writer during the 1949-1950 school year.

This questionnaire concerned the following items: (1) the athletic director was asked to indicate the number of interschool sports in which his school participated, the number of participants, and the money spent for each sport from a check list provided for this purpose; (2) the athletic director was asked to indicate the number of intramural sports conducted in his school, the number of participants, and the money spent for each sport from a check list provided for this purpose.

Collecting the data. A questionnaire was sent to four hundred Indiana High Schools of varying sizes in different sections of the state. Returns were received from one hundred seventy-seven schools. Nine returns could not be used because of incomplete data or improper execution of the forms. One hundred sixty-eight schools, forty-two per cent, were finally used as a basis for the study.

l A copy of the questionnaire is included in the appendix of this thesis.

These schools were considered in three classes: (1), small schools, which included an enrollment of from one to ninety-nine; (2) medium schools, which included an enrollment of from one hundred to two hundred ninety-nine; (3) large schools which included an enrollment of three hundred and more.

Table I presents a summary of the number and types of schools represented in the study.

TABLE I

NUMBER AND TYPE OF SCHOOL PRESENTED IN THIS STUDY

Typė	Number	Per Cent
Small	43	26
Medium	75	45
Large	50	29
Totals	168	100

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CHAPTER IV

PRESENTATION AND ANALYSIS OF THE DATA

Schools by size offering various interschool sports. The various sports offered in the interschool athletic programs are shown in Table II. Column one lists, in alphabetical order, the sports offered. Column two is utilized for the recording of the small schools offering the sport. Column three is utilized for the recording of the medium schools offering the sport. Column four is utilized for the recording of the large schools offering the sport.

It is significant to note that all schools of all sizes offered basketball. Perhaps this is because Indiana is among the leaders of all the states in its high school basketball program.

In the smaller schools, softball was the second most popular offering. This is logical, since it does not require a great deal of money or space to play this sport. Track ranked third, and baseball fourth, in the small school classification. No other sports were offered in this classification.

Track was the second choice of the middle-sized school, followed closely by baseball. Softball was fourth, and football, six and eight and eleven man, was offered. Golf, tennis, and cross-country were also made available by this size school.

Track was second choice for the larger schools with

TABLE II SCHOOLS BY SIZE OFFERING VARIOUS INTERSCHOOL SPORTS

Sport	Small (1-99	Schools		n Schools -299)		Large Schools (300 and over)		
	No.	Per cent	No.	Per cent	No.	Per cent		
Baseball	20	47.	48	64.	39	78.		
Basketball	43	100.	75 ·	100.	50	100.		
Cross country	0	0.	2	3.	8	16.		
Football ll-man	0	0.	14	18.	42	84.		
Football 6,8-man	0	0.	16	21.	5	10.		
Golf	0	0,.	6	8.	33	66.		
Softball	26	60.	22	29.	4	8.		
Swimming	0	0.	0	0.	5	10.		
Tennis	0	0.	2	3.	26	52.		
Track	23	53.	49	65.	47	94		
Wrestling	0	0.	0	0.	9	18.		

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eleven man football, baseball, golf, tennis, cross-country, wrestling, eight man football, swimming, and softball following in that order.

With more men available, more facilities at their disposal, and more money in the budget, it is only natural that large schools should offer sports requiring manpower and expensive equipment.

Schools by size offering various intramural sports.

Table III shows the various sports offered in the intramural athletic programs. Column one lists, in alphabetical order, the sports offered. Column two is utilized for the recording of the small schools offering the sport. Column three is utilized for the recording of the medium schools offering the sport. Column four is utilized for the recording of the large schools offering the sport.

In contrast to the interschool sports program, only eighty-five schools, about fifty per cent, offered basketball as an intramural sport. Still, it was the sport offered most in each of the three sizes of schools.

Ping pong was second in the small school offering.

Softball and volleyball were next in popularity in this area.

Baseball, touch football, badminton, track, and tennis followed in that order.

Volleyball rated second among the sports offered in

TABLE III

SCHOOLS BY SIZE OFFERING VARIOUS INTRAMURAL SPORTS

ALCHE DE LA		Schools		m Schools	Large	Schools
	(0-9		(10	0-299)	(300	and over
~	45	Per	7.7	Per	7.7	Per
Sport	No.	cent	No.	cent	No.	cent
1						
Aerial						
darts	0	0.	1	. 1.	0	0.
Archery	0	0.	2	3. 8.	5	10.
Badminton	3	7.	6		5	10.
Baseball	7	16.	13	17.	4	8.
Basketball	19	44	44	59.	22	44.
Bowling	0	0.	1	1.	1	2.
Boxing	0	0.	1 . 1	1.	1	2.
Checkers	0	0.	1	1.	0	0.
Football,				4		
touch	4	9•	14	19.	11	22.
Golf	0	0.	2	3.	4	8.
Horseshoes	0.0	0.	2	3.	1.	2.
Ping Pong	18	42.	17	23.	12	24.
Shuffle-						
board	0	0.	1 5	1.	0	0.
Soccer	0	, 0.	5	7.	3	6.
Softball	11	25.	18	27.	15	3.
Speedball	. 0	0.	3	4.	5 2	10.
Swimming	0	0.	0.	0.	2	4.
Tennis	1 2	2.	4	5.	9	18.
Track		5.	9	12.	10	20.
Volleyball	11	26.	22	29.	16	32.
Wrestling	, 20 ,	0.,	. 4	5.	5	10.

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the medium schools. Softball, ping pong, touch football, , baseball, and badminton, were next in popularity. Other intramural sports offered by five schools or less were archery, golf, soccer, speedball, boxing, tennis, shuffleboard, wrestling, aerial darts, checkers, bowling, and horseshoes.

Volleyball also rated second in the large schools, followed by softball, touch football, track, and tennis in that sequence. Five schools or less offered archery, badminton, baseball, golf, soccer, speedball, boxing, swimming, wrestling, bowling, and horseshoes.

It will be noted that more sports were offered by the schools for their intramural programs than for their interschool programs. This is natural, since many of the sports are not feasible for competition between schools. Also, many of the intramural sports require much less equipment and are easier to finance than many of the interschool sports.

Actual number of boys per school participating in interschool sports. The actual number of boys per school participating in interschool athletic is reflected in Table IV, together with the number of boys enrolled, and the percentage of boys playing interschool sports. Column one lists the sports in alphabetical order. Column two shows the total number of boys enrolled, the actual number of participants in the particular sport, and the percentage of boys participating

TABLE IV

ACTUAL NUMBER OF BOYS PER SCHOOL PARTICIPATING IN

INTERSCHOOL SPORTS

	Smal: (1-	L S ch oo 99)			m Scho -299)	ols	Large Schools (300 and more)			
Sport	Total No. Boys	Total No. Part.	Per cent	Total No. Boys	Total No. Part.	Per cent	Total No. Boys	Total No. Part.	Per cent	
Baseball	561	400	71.3	4176	913	21.8	10920	1248	11.4	
Basketball	1376	946	68.7	6450	2175	33.7	17250	1950	11.3	
Cross country			To Blook	201	40	19.9	5771	533	9.2	
Football, ll-man				1918	490	25.5	14742	2940	19.8	
Football, 6-8 man	i. Miya			1392	416	29.8	852	130	15.3	
Golf				564	36	6.4	10758	396	3.7	
Softball	858	546	63.6	1628	440	27.0	1000	140	14.0	
Swimming					~ · · · ·		2300	125	5.4	
Tennis	4 9			232	12	5.2	8996	286	3.2	
Track Wrestling	759	322	42.4	4753	1029	21.6	15839 2241	1303 270	8.9 12.0	
Totals	3354	2214	62.3	20914	5510	26.4	90669	9321-	10.3	

Aggregate total 115,137 enrolled 17,045 participants 14.8 per cent average

Note: In figuring the above total percentages, it is possible that each individual has been counted more than once, since he might have participated in more than one sport.

in the small schools. Column three reveals the total number of boys enrolled, the actual number of participants in the particular sport, and the percentage of boys participating in the medium schools. Column four is utilized for the large schools, pointing out the total number of boys enrolled, the actual number of participants in the particular sport, and the percentage of boys participating.

Baseball was the sport in which the greatest percentage of boys participated in the small schools. Basketball was second highest, softball third, and track last.

The medium schools found basketball as the sport in which the largest percentage of boys was utilized. Six and eight man football, softball, eleven man football, baseball, track, and cross country followed in sequence. Fewer than five per cent played golf and tennis.

if(x)

(346)

The biggest percentage of boys played eleven man football in the large schools. Six and eight man football, softball, wrestling, baseball, and basketball followed in that order. Sports having less than a ten per cent following included cross country, track, swimming, golf, and tennis.

An average of 14.8 per cent of the total number of boys enrolled in the schools of all sizes participated in the interschool sports program. The small schools had an average of 62.3 per cent of the total number of boys enrolled in their schools participating in the interschool program. The medium

schools had an average of 26.4 per cent of the total number, of boys enrolled in their schools participating in the interschool program. The large schools had an average of 10.3 per cent of the total number of boys enrolled in their schools participating in the interschool program.

Actual number of boys per school participating in intramural sports. Table V lists the number of boys enrolled in the different schools, the actual number of boys per school participating in intramural sports, and the percentage of boys participating in intramural sports. Column one lists, in alphabetical order, the various sports offered. Column two reveals the number of boys enrolled, the actual number of boys participating, and the percentage of boys participating in intramural sports in the small schools. The same information: the number of boys enrolled, the actual number of boys participating, and the percentage of boys participating in intramural sports in the medium schools, is reflected by column two. Figures for the large schools are shown in column three, where the number of boys enrolled, the actual number of boys participating, and the percentage of boys participating in intramural sports are listed.

The small schools mentioned softball as the sport in which the greatest percentage of boys was utilized. Volley-ball rated second, with basketball, ping pong, baseball,

TABLE V

ACTUAL NUMBER OF BOYS PER SCHOOL PARTICIPATING IN INTRAMURAL SPORTS

A Section of the second			11 Scho	ols		um Schoo 0-299)	ols		Large Schools (3 00 and over)			
the second second second	Sport	Total No. Boys	Total No. Part.	Per cent	Total No. Boys	Total No. Part.	Per cent	Total No. Boys	Total No. Part.	Per cent		
	Aerial dari Archery Badminton Baseball Basketball Bowling Boxing		21 77 401	12.1 22.6 40.4	146 463 1320 2541 8729 140 242	22 23 47 136 2712 20 18	15.0 4.9 3.5 6.3 31.0 14.3 7.5	3716 3481 2783 10712 546 409	75 59 212 1986 60 27	2.0 1.7 7.6 18.5 10.9 6.6		
The second secon	Checkers Football, touch Golf Horseshoes Ping Pong Shuffleboar	201 912	45 360	22.4 39.5	2773 412 313 2321 120	168 10 30 340 24	16.9 6.0 2.4 9.6 14.6 20.0	8879 1623 216 6728	1320 50 20 328	14.9 2.5 9.2 4.9		
	Soccer Softball Speedball Swimming Tennis	562 58	440 10	78.3	1103 3712 681 816	124 1440 156	11.2 38.8 22.9	1424 7612 2200 1512 4580	268 1502 263 82 261	17.9 19.7 11.9 5.5 6.7		
	Track Volleyball Wrestling	112 562	24 264	21.4	1713 4417 812	352 1056 52	20.5 23.9 6.4	4863 8211 2401	718 1920 160	14.7 23.4 6.6		
	Totals		1642 Aggreg	108, 17,		icipants	20.5	71896	9301	12.9		

Note: In figuring the above total percentages, it is possible that each individual has been counted more than once, since he might have participated in more than one sport.

touch football, track, tennis, and badminton following res-, pectively.

Softball was also the sport in which the greatest percentage of boys played in the medium schools. Following were basketball, volleyball, speedball, track, shuffleboard, aerial darts, ping pong, bowling, soccer, and tennis. Sports having less than ten per cent participation included archery, badminton, baseball, touch football, golf, horseshoes, and wrestling.

The greatest percentage of boys participated in volley-ball in the large schools. Following, in sequence, were soft-ball, basketball, soccer, touch football, track, speedball, and bowling. Sports having less than ten per cent participation were archery, badminton, baseball, golf, horseshoes, ping pong, swimming, tennis, and wrestling.

An average of 16.3 per cent of the total number of boys enrolled in the schools of all sizes participated in the intramural sports program. The small schools had an average of 45.1 per cent of the total number of boys enrolled in their schools participating in the intramural program. The medium schools had an average of 20.5 per cent of the total number of boys enrolled in their schools participating in the intramural program. Twelve and nine-tenths per cent of the total number of boys enrolled in the large schools participated in the intramural program.

A comparison of Tables IV and V will show that both, small and medium schools had a greater percentage of their boys participating in interschool sports than in intramural sports. On the other hand, the large schools had a greater percentage of their boys participating in intramural sports. Because of the greater number in the large school area, the aggregate total indicated that a slightly greater percentage participated in interschool sports, 16.3 per cent playing intramural sports, and 14.8 per cent playing interschool sports.

The percentage for intramural sports is low. Even though eight more sports were offered in the intramural programs than in the interschool programs, there was an increase of only 1.5 per cent in the number of boys participating in the intramural sports.

By comparison with the other schools, the small schools had the highest percentage of boys participating in the intramural program. Yet, despite the fact they offered five more sports, 17.2 per cent fewer boys participated in their intramural programs than in their interschool programs.

The medium schools also had 5.5 per cent fewer boys participating in their intramural programs even though they offered twice as many intramural sports than they did interschool sports.

Only the large schools had a larger percentage of boys playing intramural sports than interschool sports, and this

was by a scant 2.6 per cent margin, even though six more intramural sports were offered.

In interpreting the percentage in each type of activity, it must be remembered that the individuals may participate in both interschool and intramural activities; thus, the figures are not directly comparable.

Financial report of schools regarding various sports offered on interschool basis. Table VI lists the amount of money spent on each interschool sport, and the income from each of those interschool sports. The alphabetical list of sports is shown in column one. Column two reveals the money spent and the income received from sports offered by the small school. The medium school status in regards to the amount of money spent and the income received from sports offered is shown in column three. The amount of money spent and the income received from sports offered in the large schools are itemized in column four.

Basketball was the only profitable sport in the small school catagory. Other sports had no income whatsoever.

Basketball was the most profitable sport in the medium schools too. Eleven-man football also showed a profit. All other sports indicated a deficit, and six and eight man football was noticeably unprofitable.

Again, basketball was the sport which made the most

TABLE VI
FINANCIAL REPORT OF SCHOOLS REGARDING VARIOUS SPORTS
OFFERED ON INTERSCHOOL BASIS

	Small (1-99	schools	Medium (100-	schools 299)	Large schools (over 300)		
Sport	Money spent	In- come	Money spent	In- come	Money spent	In- come	
Baseball	\$ 2600	\$ 0	\$ 7008	\$ 77	\$ 23439	\$ 2340	
Basketball	42183	52933	86625	150225	219400	424850	
Cross country	У	***	50		2678		
Football ll-man	•		24360	66486	85764	95298	
Football 6,8-man			44608	15584	9510	6825	
Golf			792		3861		
Softball	2262		1276		490		
Swimming					575		
Tennis	•		40		2678		
Track	1748		7791	1323	34733	11327	
Wrestling					4995	720	

Total \$48,793 \$52,933 \$172,550 \$238,695 \$388,789 \$541,360

Aggregate total: \$832,988 Income 610,132 Expenses 222,856 Profit

profit for the large schools. Eleven man football also re-, vealed a profit. None of the other sports was profitable.

The aggregate totals, compiled from the figures of all schools, showed an income of \$832,988. The money spent on all sports totaled \$610,132, leaving a profit of \$222,856. The small schools listed an income of \$52,933, and expenses of \$48,793, for a profit of \$4,140. The income for the medium schools, who had expenses in the amount of \$172,550, was \$238,695, thus showing a profit of \$66,145. The large schools revealed the largest profit, \$152,571, as a result of \$541,360 income, and \$388,789 expenses.

Financial report of schools regarding various sports offered on intramural basis. The amount of money spent on intramural sports is shown in Table VII. There is no income derived from the sports. Column one lists the sports in alphabetical order. The amount of money spent on intramural sports in the small schools is mentioned in column two, while column three itemizes the amount of money spent on intramural sports in the medium schools. The cost of intramural sports in the large schools is revealed in column four.

Expenses for many of the sports were low because varsity equipment or physical education equipment was used. Also, much of the equipment for other sports was on hand, thus

TABLE VII

FINANCIAL REPORT OF SCHOOLS REGARDING VARIOUS SPORTS
OFFERED ON INTRAMURAL BASIS

Aerial darts \$ \$ 23 \$ Archery 60 Badminton 60 48 62 Baseball 93 156 200 Basketball 177 763 1624 Bowling 10 Boxing 7 Checkers Football, touch 18 48 305 Golf 20 40 Horseshoes 20 Ping Pong 179 459 214 Shuffleboard 30 Soccer 30 24 Softball 160 270 860 Speedball 38 50 Swimming Tennis 76 96 Track 5 135 142 Volleyball 105 476 451 Wrestling	Sport	Small schoo (1-99) Money sper	(100-299)	Large schools (Over 300) Money spent
Total \$ 797 \$ 2569 \$ 4128	Archery Badminton Baseball Basketball Bowling Boxing Checkers Football,t Golf Horseshoes Ping Pong Shuffleboa Soccer Softball Speedball Swimming Tennis Track Volleyball	60 93 177 ouch 18 179 rd 160	48 156 763 10 7 48 20 20 459 30 30 270 38	60 62 200 1624 305 40 214 24 860 50 96 142
Aggregate total - \$ 7494	Total		,	\$ 4128

requiring no purchases of equipment.

Ping pong cost the most money in the small school intramural program, with basketball and softball next in line.

Basketball was the most expensive sport in the medium school intramural program. Following, in sequence, were volleyball, ping pong, softball, baseball, and track. Sports costing less than one hundred dollars included aerial darts, archery, badminton, bowling, boxing, checkers, touch football, golf, horseshoes, shuffleboard, soccer, speedball, swimming, tennis, and westling.

Basketball was also most expensive for the large schools. Softball, volleyball, touch football, ping pong, baseball, and track followed in that order. Sports costing less than one hundred dollars were archery, badminton, bowling, boxing, golf, horseshoes, soccer, speedball, swimming, tennis, and wrestling.

The aggregate total showed \$7,494, as the amount of money spent on the intramural sports programs. The small schools spent \$797. The medium schools spent \$2,569. The large schools spent \$4,128.

A comparison of Tables VI and VII reveals an extreme difference in the amounts of money spent on the interschool and intramural programs. The aggregate totals show that \$610,132 was spent on the interschool programs while only

¹ This was indicated in the questionnaires returned.

\$7,494 was spent on the intramural programs. The small , schools spent \$48,793 on their interschool programs and \$797 on their intramural programs. The medium schools spent \$172,550 on their interschool programs and \$2,569 on their intramural programs. The large schools spent \$388,789 on their interschool programs and \$4,128 on their intramural programs.

Cost per participant per sport in schools offering various interschool sports. Table VIII shows the cost per participant per sport in schools offering various interschool sports. Column one names the sports in alphabetical order. The total cost, the total number of participants, and the cost per participant in the small schools are itemized in column two. Column three reveals the total cost, the total number of participants, and the cost per participant in the medium schools. Column four gives the same comparable date for the large schools.

Basketball was the most expensive sport in the small schools, the cost per participant being \$44.59. Baseball, track, and softball followed in sequence.

The medium schools named six and eight man football as the most expensive sport, \$107.23, being the cost per participant. Eleven man football, basketball, golf, baseball, track, tennis, softball, and cross country followed in that order.

TABLE VIII

COST PER PARTICIPANT PER SPORT IN SCHOOLS OFFERING
VARIOUS INTERSCHOOL SPORTS

Small schools (1-99)				Medium (100	schoo -299)	ls	Large schools Over 300		
Sport	Cost	No. Part.	Cost per part.	Cost	No. Part.	Cost per part.	Cost]	No (ost per part.
Baseball \$	\$ 2500	400	\$ 6.40	\$ 7008	912	\$ 7.68	\$23439	1248	\$18.67
Basketball	42183	946	44.59	86625	2175	39.83	219400	1950	112.51
Cross country				50	40	1.25	2678	533	5.02
Football, ll-man	·			24360	590	49.71	85764	2940	39.11
Football, 6,8-man				44608	416	107.23	9510	130	73.15
Golf			•	792	36	22.00	3861	396	9.75
Softball	2262	546	4.14	1276	440	3.90	490	140	3.50
Swimming	•	e e A					757	125	4.60
Tennis				40	12	3.33	3678	286	9.36
Track	1748	322	5.43	7791	1029	7.57	34733	1303	26.66
Wrestling	area () a como de la						4955	270	18.50
Totals \$4	+8 , 793	2214	\$22.04	\$172,550	5510	\$31.26	\$388,7	39 932	21 \$41.71
Aggregate total cost - \$610,132 No. participants 17,045 Cost per participant \$ 35.79									

Basketball also cost the most in the large schools. The cost per participant was \$112.51. Six and eight man football, eleven man football, track, baseball, wrestling, golf, tennis, cross country, swimming, and softball were next in line.

The aggregate total was 17,045 participating at a cost of \$610,132 for a per capita average of \$35.79. The small schools had 2,214 participating at a cost of \$48,793 for a per capita average of \$22.04. The medium schools had 5,510 participating at a cost of \$172,550 for a per capita average of \$31.26. The large schools had 9,321 participating at a cost of \$388,789 for a per capita average of \$41.71.

Cost per participant per sport in schools offering various intramural sports. The cost per participant per sport in schools offering various intramural sports is listed in Table IX. The sports are listed in alphabetical order in column one. Column two itemized the total cost, the total number of participants, and the cost per participant in the small schools. Columns three and four furnish the same data for medium and large schools respectively.

Badminton was the most expensive sport in the small schools, costing \$2.57 per participant. Baseball, ping pong, basketball, touch football, volleyball, and track followed in sequence. There was no cost for archery, checkers, or wrest-

TABLE IX

COST PER PARTICIPANT PER SPORT IN SCHOOLS OFFERING VARIOUS
INTRAMURAL SPORTS

		Small schools (1-99)			Medium schools (100-299)			Large schools (Over 300)		
Sport	Cost	No.	Cost per part.	Cost	No. part.	Cost per part.	Cost	No. part.	Cost per part.	
Aerial \$ darts Archery Badminton Baseball Basketball Bowling Checkers Football,	60 93 177	21 77 401	\$ 2.57 1.21 .44	\$ 23 48 156 763 10	22 23 47 136 2712 20 23	\$ 1.05 1.02 1.15 .28 .50	\$ 60 62 200 1624	75 59 212 1986 60	\$.80 1.05 .94 .82	
touch Golf Horseshoes	18	360	.40	48 20 20 459 30	168 10 30 340 24	.29 2.00 .67 1.35 1.25	305 40 214	1320 40 20 328	.23 1.00 .65	
Soccer Softball Speedball Swimming	160	440	. 36	30 370 38	124 1440 156	.24 .19 .24	24 860 50	368 1502 263 82	.09 .57 .19	
Tennis Track Volleyball Wrestling	5 105	10 24 264	.21	76 135 476	82 352 1056 52	.93 .38 .45	96 142 451	261 718 1920 160	.19 .20 .24	
Totals \$	797	1642	\$.49	\$2569	6805	\$.39	\$3128	9301	\$.44	
	Aggregate total - Cost \$ 7,494.00 Number participants 17,748 Cost per participant \$.44									

ling.

The large schools named badminton as the most expensive sport, the cost per participant being \$1.05. Golf, baseball, basketball, archery, ping pong, softball, volleyball, touch football, track, speedball, tennis, and soccer followed in sequence. There was no cost for bowling, boxing, horseshoes, swimming, and wrestling.

The aggregate total was 17,748 participating at a cost of \$7,494 for a per capita average of \$.42. The small schools had 1,642 participating at a cost of \$797 for a per capita average of \$.49. The medium schools had 6,805 participating at a cost of \$2,569 for a per capita average of \$.39. The large schools had 9,301 participating at a cost of \$4,128 for a per capita average of \$.44.

A comparison of Tables VIII and IX shows an extreme difference in the per capita cost for interschool sports and intramural sports. The aggregate average per capita was \$35.79 for interschool sports, and only \$.42 for intramural sports.

Source of income for operation of intramural sports programs. Table X names the source of income for the operation of the intramural sports programs. The possible sources of income are listed in column one. The uses of those sources by the small, medium, and large schools, are listed in columns two, three, and four respectively.

TABLE X
SOURCE OF INCOME FOR OPERATION OF INTRAMURAL SPORTS PROGRAMS

Source	Small Schools 1-99	Medium Schools 100-299	Large Schools 300 and over
School Board	1.	10	13
Interschool Athletic Fund	19	37	26
Conbination of the two above	3		6
Totals	23	54	45

The small schools received the greatest financial aid for their intramural program from the interschool athletic funds. Only one small school received funds from the school board.

The interschool athletic fund was also the source of income for the intramural programs in the medium and large schools. Ten schools in the medium classification received funds from the school board, while thirteen large schools were given financial aid by the same source.

Comparison of the number of schools offering interschool sports with the number of schools offering intramural sports.

Table XI compares the number of schools offering interschool sports with the number of schools offering intramural sports.

The types of sports programs being compared are listed in , column one. Column two names the sports programs being offerer by the small schools, while columns three and four list the same information for the medium and large schools respectively.

TABLE XI

COMPARISON OF THE NUMBER OF SCHOOLS OFFERING INTERSCHOOL

SPORTS WITH THE NUMBER OF SCHOOLS OFFERING

INTRAMURAL SPORTS

	Small School		Medium School 100-299		Large School 300 and over	
No.	Pct.	No.	Pct.		Pct.	
43	100	75	100	50	100	
23	53	54	72	45	90	
	No. 43	1-99 No. Pet. 43 100	1-99 100 No. Pct. No. 43 100 75	1-99 100-299 No. Pet. No. Pet. 43 100 75 100	1-99 100-299 300 ar No. Pet. No. Pet. No. 43 100 75 100 50	

The table reveals that twenty small schools did not have an intramural program, along with twenty-one medium schools, and five large schools.

The table shows that all schools in this study offered at least one sport on their interschool program.

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CHAPTER V

SUMMARY AND CONCLUSIONS

This study was an attempt to compare the number of boys participating in the interschool athletic programs with the number of boys participating in the intramural athletic programs. It was also an attempt to compare the costs of the interschool athletic programs with the costs of the intramural athletic programs.

Data for this study were obtained from a questionnaire sent by the writer to high school athletic directors in various-sized schools throughout the state of Indiana. One hundred sixty-eight schools were studied.

Eleven interschool sports were offered by the various schools, with 14.8 per cent of the boys enrolled participating in the interschool programs. Each of the one hundred sixty-eight schools studied offered at least one interschool sport.

Twenty-one intramural sports were offered by the various schools, but only 16.3² per cent of the boys enrolled participated in the intramural programs. Forty-six of the schools studied did not offer any intramural programs.

¹ These percentages should be qualified in that individuals could be counted more than once.

² Ibid.

A great difference was found in the cost of the two, programs. The interschool athletic program cost \$610,132, while the intramural program cost \$7,494. The average cost per participant per sport was \$35.79, for the interschool program, and \$.44, for the intramural program.

However, the interschool programs had an income of \$832,988, while the intramural programs had no income. In most cases, the intramural programs relied on the interschool program funds for revenue.

Small schools utilized the greatest percentage of their personnel in the interschool and intramural programs, using 62.3 per cent of their boys in the interschool programs, and 45.1 per cent of their boys in the intramural programs. However, 46.5 per cent of the small schools studied had no intramural programs.

Medium schools used 26.4 per cent of their boys in the interschool program and 20.5 per cent of their boys in the intramural programs. Twenty-eight per cent of the medium schools studied had no intramural programs.

Large schools used 10.3 per cent of their boys in the interschool programs, and 12.9 per cent of their boys in the intramural programs. Ten per cent of the large schools studied had no intramural programs.

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II. RECOMMENDATIONS

As the result of this study, the following recommendations seem to be pertinent:

- (1) Athletic directors should attempt to determine in the light of modern educational trends whether or not their interschool and intramural programs are consistent in respects to financial aspects, and if the emphasis on each is adequate.
- (2) Athletic directors should attempt to determine if the small amount of money per capita spent in the intramural programs is a factor in the low participation in the intramural programs.
- (3) This study indicated that funds for the operation of the intramural programs in many schools were allocated from the interschool budgets. Therefore, it should be determined whether or not the lack of intramural programs and the low participation in them are due to the difficulty of obtaining funds.
- (4) Athletic directors should attempt to determine why a much larger percentage of boys do not participate in the intramural programs than in the interschool programs, since the intramural programs are open to all boys, while the interschool programs are open to select groups only.
- (5) If athletics are considered important in the high school curricular, teachers colleges' physical education de-

partments should place greater stress on the development of, high school intramural programs, since many schools, which can afford interschool programs, do not have intramural programs.

III. SUGGESTIONS FOR FURTHER STUDY

The results of this investigation point to the need for further study in the same area. The following problems seem to be suggested.

- (1) What are the obstacles causing schools to have no intramural programs?
- (2) What can be done to increase the participation in the intramural programs?
- (3) What are teachers colleges' physical education departments doing in this field to better prepare graduates to handle these problems?
- (4) Is the emphasis on interschool athletics in this state detrimental to the intramural programs?
- (5) Is there a need for intramural programs in the small school where they do not exist, since there is already a large percentage of participation in the interschool programs?

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APPENDIX

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Figures To Be Based on 1948-49 School Year

1.	Enrollment in l	High School		•	
2.	Number boys in	High Scho	ool	•	
3.	Inter-School Sp which there is and other high	actual co			
	Sport	Do You Play It I	Number Participants	Money Spent on Sport*	Income From Sport**
l.	Baseball		Nadalahan menjalah kapun di Singalah dal 1974 melah dan apadi	www.ebsettiskinomeo.cr.asp.comreterishtin	
2.	Basketball	e e e e e e e e e e e e e e e e e e e			
3.	Football 11 man		And the second of the second o	weelerscher ereteiner ein den der ein	New Street Printing Colonial Author Colonial Assess
4.	Football 6 man		where the against including the constraint constraints.	Vicing from conjugate of this conjugate of this color of conjugate	THE CONTRACTOR AND CONTRACTOR OF THE CONTRACTOR
5.	Golf				
6.	Softball		**************************************	Technical review and an additional design and an additional review of the second and additional review	THE CHARLES AND THE PROPERTY OF THE PROPERTY O
7.	Swimming			**************************************	
8.	Tennis		wiperior militarini di della maniforda di maniforda promonena	november delegantation reconstruction	vegavirmazionazoveanjennismoshistochristiö
9.	Track	english _{an} in the same	manido ad mario de consciente de la cons	North Parchical Column 1984 (North	www.com.com.com.com.com.com.com
0.	Wrestling	Warming Company of the State of			
1.	Others (Please List)				
	The state of the s		- Company of the Comp	*marked Products of the Prospect and Promotive and State	Baccacounts in an action of the state of the
Ä.		ere ^d e gerenden de	· · · · · · · · · · · · · · · · · · ·	interpretation and product the special state of the	mpokljuniovejovajovaj klaj quikdokljuni jeroja poklade
	*This should	include	the money s	pent for equi	ipment,

*This should include the money spent for equipment, supplies, awards, meals, officials, transportation, and all other expenses involved in conducting the sport.

**This should include the gate receipts, gurantees, and all other incomes from the particular sport.

4. How many different individuals took part in the total interschool activities_____.

5. Intramural Sports Played. Please check those sports in, which you actually have an intramural league, tournament, or some definite type of organized play outside the gymnasium classes.

	Sport	Do you Play it				S pent port	(supplied (equipment) (awards,	ent
1.	Archery	Name of the control o				THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT	(awarab,	, 000.
2.	Badminton	· · · · · · · · · · · · · · · · · · ·	magazan kini sharing karan			Coloro o Chiel (Malifel proposso)		
3.	Baseball		*		1600 da diplatació	in Lymodovinn nevisoreti		÷
4.	Basketball		· · · · · · · · · · · · · · · · · · ·	wollowskierk .	Notes printer annual delice	·		
	Football 11 man Football 6 man			· · · · · · · · · · · · · · · · · · ·				
7.	Football touch	THE CONTRACTOR STREET	Najmin delen della d	- Laise rois				
8.	Golf	· ************************************			**************************************			
9.	Ping Pong		**************************************	-				
LO.	Soccer			Maritarupanja	*Ministransky diktorropouromies			
ll.	Speedball		*Bocklast Floring Depote to Warry Marks		***Committees #**Committees		-	
12.	Softball	name of the second decades	Version and the second			id Tarana da mara da mara da		
13.	Swimming		Water-road-security-conde			and the section of th		
14.	Tennis			diction(type://www.see	*Companients/Print/Editorial/A		*• •	
15.	Track	************				nongo/tung/com/pathinategick		~
16.	Volleyball		, marries and about and	oderná vervone				
17.	Wrestling	· · · · · · · · · · · · · · · · · · ·	Nembergeonsbieleitäksensysty	etabreascold; cor	*Names (State of State of Stat	an management and a section		
18.	Others (Please List)			* *				
			, <u></u>	girline di S trates	William International Consults	·	•	

6.	Where do program?	you get Please	your money check the	to condi	uct your answer,	intramural or supply	the

(1) School Board furnishes it.

(2) Inter-School Athletics pays the bill.

(3) Others (please list)

7. How many different individuals took part in the total intramural program? ____

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