THE STATUS OF PHYSICAL EDUCATION FOR BOYS IN THE CLASS B HIGH SCHOOLS IN KANSAS IN 1946-1947

bv

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PREFACE

This study of the status of physical education for boys in the Class B high schools in the State of Eaness during the school year 1946-1947 was based upon the recorded data from 68 high schools. The study is concerned with physical activities of the recreational type in which the physical education instructors participated while in high school and in college, and those so-tivities in which they eared a school letter while in high school and in college; the activities that were offered in the physical education progres in school during school term 1946-1947 and the physical permanent and temporary equipment of the schools.

Due to the large number of schools from which information was sought, the questionnaire method of survey was used, since this was the most appropriate method by which the desired information could be secured.

INTRODUCTION

The United States has just passed through a world strife; a period in which Americans have come to realise more than ever our need for education of the body as well as the mind. During the recent war, a lack of physical education in many of our schools was made evident from the large number disqualified for military service.

Military officials pointed out the long hours of leisure which for some men are well spent in recreational activities, but for which many men, who during their earlier life, are given no opportunity to devalon healthful activities.

Many were rejected from the military service as unfit either mentally or physically. It was reasoned that the "weaklings were a direct result of the failure of health and physical education." It is bolicwed that a portion of these men could have been prepared physically for duty, and that the time required to condition those that were inducted with physical defects could have been reduced. Also these men could have been taught to participate in activities with constructive recreational value.

Educators have learned to realize the importance and the need of physical education in our school systems. It is true that there have been athletics and sports activities long before the

Loslie W. Irwin, "New Directions in Physical Education", <u>Journal of Health and Physical Education</u>. Vol. 17, No. 4, (May, 1946), p. 866.

time that our country was discovered. Physical exercises and physical education were being developed in this country as early as 1850. It is evident in the work of "Statop in Boston in 1862, Tice in St. Louis in 1865, Rickoff in Cincinnati in 1867," that they and many other men of this time were realizing the need for training of the body as well as the mind.

Today as in the past, the United States faces a condition which has existed in schools of all sizes and which was militated against successful programs of physical education. This condition has been the assigning of physical education classes to the coach of interscholastic athletics, regardless of his insufficient smount of proper training. Hany times the athletic coaches have taught physical education classes and have "permitted the stress to fall on interscholastic sports, therefore stifling the spirit and enthusiasm of the medicare performers in the classes." Many times the physical education classes are conducted so that the pupils are allowed to play any game they wish, any way they wish, with no teaching, and very little supervision.

The youth of the United States are in need of physical education that will beach the fundamentals of various activities which have excellent carry-ever values. There is need for physical education instructors who are capable of and will offer physical education programs so successfully planned and taught

SLeslie W. Irwin, The Curriculus in Health and Physical Education, C. V. Mosby and Co. p. 166. 1944.

Springert A. Rice, <u>A Brief History of Physical Education</u>, p. 224-225. A. S. Barnes and Co. 1959.

that they will instill in the minds of students and help the students to form such desirable traits as self control, sportsmanship, cooperation, teamwork, and desirable social traits. The teaching cuborage should has

3

1. Skills in those forms of play that give pleasure and satisfaction to participation.

Enowledge and interest in sports that can be played after school and college days are past.

 Appreciation of fine ways of play that give pleasure and a generous attitude toward opponents.

In preparing and administering a good physical education program in the high school, the instructor should be vitally comcerned with the interests of the individual students and plan activities in which they are interested or will become interested,

"Introductory work in preparing lesson plane is adviseble.
This is planning in the general order of events in which they are
to come. Thus the time, activity and method can be accurately
kent."5

Irwin (1944) points out that the

tion or teach recreating sports in physical education or teach recreational sports is condened byoffering the excuse that they are lacking in facilities, it is possible to give a comprehensive knowledge of sports with some practice in the hundamantals regardless of whether ideal conditions exist.

⁴Jesse F. Williams and Wm. L. Hughes, <u>Athletics in Education</u>, p. 99. 1939.

⁵C. W. Crampton, <u>The Pedagogy of Physical Training</u>, p. 45. 1922. ⁶Leslie W. Irwon, <u>op</u>. <u>oit</u>., p. 176. 1944.

From the information obtained in this study, it is possible to get a true picture of the physical education programs that were offered in the class "B" high schools in Kansas during the school year 1946-1947. It is hoped that this study may inspire the educators of Kansas to build larger and stronger physical education programs which will aid future generations to progress physically as well as mentally.

PARTITION

In thinking about the program of physical education that is being offered in the State of Kansas in the Class "B" high schools, many questions arise as to types of leadership, variety of physical education facilities, and credit requirements now in vogue. It assemed desirable to know the facts concerning these questions and it was felt that a survey might instigate an effort to improve the conditions.

In order to make a study, the questionnaire method which consisted of two sections was used and was sent to: (1) the administrators of the Class "B" high schools in the State of Kansas, and (2) the physical education instructors of the Class "3" high schools in the State of Kansas. A questionnaire accompanied by a letter of explanation was mailed to each of the 156 Class "B" high schools in Kansas.

The classification of a class "B" high school in Kansas is determined by the school having its work accredited by the Anmal High School Principal's Organization Report which must be filed in the office of the State Department of Public Instruction not

later than October 15 of each year, and each teacher of the school shall have not less than twelve college hours of preparation in the subject matter field and shall have at least five college hours in the smedific subject preparation.

A stamped and return addressed envelope was enclosed with each of the 156 questionnaires that were mailed. The mailing list was contributed by the Office of the State Superintendent, Tonoles, Kenses, 5

To facilitate an objective reply, the questionnaire was made a check list so far as possible, A minimum number of questions required writing, such as those dealing with the numbers of male students in the schools; credits required; sizes and numbers of facilities; type of play areas; ages, degrees, and years of experience of the physical education instructors; and the percentage of time allotted to the teaching of each activity.

Seventy-five of the questionnaires were returned and 68 contained information. One of the 68 questionnaires did not contain a section to the Administrator and two of them did not contain a section to the Physical Education Instructor. Therefore, the results of the survey are taken from 67 of the former and 66 of the latter.

The information was tabulated and the data were compiled into large charts containing units relative to the questions in the questionnaire. The charts were divided into Sections I and II as

⁷ The Kansas High School Handbook, Department of Public Instruction, pp. 25-26. 1945.

⁸The Kansas Educational Directory, Department of Public Instruction, pp. 39-71. 1945.

were the questionnaires. Section I consisted of the information contributed by the school administrators and Section II consisted of the information contributed by the school physical education instructors. The units are separated by double lines marked close together. The units are arranged in the same order as the quastions to which they pertain. The charts, with few exceptions, are self-exchanatory.

Numerous questions and units were unanswered, and many blanks were left unfilled. These have been tabulated and compiled along with the answers to which they pertain in order to give a true picture. They have been listed as "No Answer". Any additional information which was volunteered by the administrators or physical education instructors was tabulated and the data were compiled immediately following the "No Answer" tabulations, with the question or statement to which it pertained.

only two questions were asked which concerned a second gymenasium, namely, does the school have a second gymensium, and if so, what is the size of it. There was no further questioning concerning the second gymnasium because it was marely desired to know how many Class "" high schools have a second gymnasium to aid in visualizing the amount of physical facilities they possess.

The number of schools represented for each question and the percent of schools were given for each item to aid in visualizing the picture more clearly. Each percent was obtained visualizing the number of schools represented for each item by the total number of schools represented in the questionnaires. Each item in Section I was represented by 67 schools; therefore each item was

The percentages were carried to two places past the decimal point. If the remainder was one-half or over, the second number on the right of the decimal point was raised to the next higher number, but if less than one-half, the number was left unchanged. For this reason, the percents in the answers of many questions will total more than 100 percent and some will total less than 100 percent.

A copy of the letter and of the questionnaire which were mailed to each school is found on pages 8 to 14.

For graduate work in physical education, I am attempting, by means of the enclosed questionnaire, to make a survey of the physical education programs, facilities, and leadership in the Class "B" high schools in Kansas for the year 1046-1047.

In the survey I am seeking information from two sources, (1) the administrator of the school and, (2) the physical education instructor of the school.

I would appreciate very much your cooperation in helping me to make this study as extensive and inclusive as poseible by checking the lists of items on the questionnaire and returning it to me at your earliest convenience.

Any information given by you will be held in strict confidence. However, I will be glad to send you results of this perticular study if you so desire.

I believe this survey will have an educational value as it will give some idea regarding the types of programs now being offered and will help to plan larger programs in order to give students more carry-over value.

Thank you for the information.

Sincerely yours,

(Signed) C. M. Smith

	Please	rill	out	the f	ollowing	itema	concerning	your	training
and	experien	ice in	a phy	rsical	education	mt			

Age College Degrees
Total number of years of experience in teaching physical education

Give the number of years of experience in teaching physical education in each of the following:

			schools	
Clase	aBa	high	schools	
Class	aCa.	high	achools	
Elemen	tary	sohe	ools	

Please mark with an "X" each of the following activities in which you serned a school letter and write in the number of years in which you lettered in each activity both in high school and college:

ACTIVITY :	H. S.	: No. of :	College	1 No. of
Baseball :		: !		1
Basketball :		1 1		:
Boxing :		1 1		
Football :		1 1		1
Swimming t		1 1		1
Tennis :		1 1		1
Track and Field :		1 1		1
Other Sports :		1 1		
<u>i</u>		<u> </u>		<u> </u>
		<u> </u>		<u> </u>
		1 1		i

Please mark with an "X" each of the following activities in which you participated while in high school and college; High School: Appenetus (). Archery (). Badwinton (). Baseball (hardball) (). Baseball (softball) (). Basketball (). Bicycling (). Boxing (). Croquet (). Dancing (). Football (). Football (touch) (). Golf (), Gymnastics (), Handball (), Hiking (), Horeeshoes (), Rope skipping (), Skating (ice) (), Skating (roller) (). Songer (). Swimming (). Table Tennis (). Tennis (). Track and Field (), Tumbling (), Volleyball (), Weight-lifting (), Wrestling (). Other sports College: Apperatus (), Archery (), Badwinton (), Baseball (hardball) (), Baseball (softball) (), Basketball (), Bicycling (), Boxing (), Croquet (). Dancing (). Football (), Football (touch) (), Golf (), Gymnastics (), Handball (), Hiking (), Horseshoes (), Rope skipping (). Skating (Ice) (). Skating (roller) ().

Soccer (), Swimming (), Table tennis (), Tennis (), Track and Field (), Tumbling (), Volleyball (), Weight-lifting (),

Wrestling (),

programs
Apparatus (%), Archery (%), Badminton (%), Baseball(hardball)(%),
Baseball (%), (softball) Boxing (%), Football (%), Football
(touch) (%), Golf (%), Gymmastics (%), Handball (%), Horseshoes (%), Stating (ice) (%), Swimming (%), Smuffleboard (%),
Table Tennis (%), Track and Field (%), Wrestling (%),
Other sports

To the Administrators of the Class B High Schools in Kansast

In order to make a study of the physical education programs and facilities being offered in Class B high echools in Kensas, I am asking your cooperation in filling out the following, concerning your achool:

- 1. Is physical education compulsory. or elective ?
- 2. Does the physical education instructor coach competitive interscholastic athletics? Yes_____No____.
- 3. What is the total number of male students in school?_____
- 4. What is the total number of male students in physical education classes? ______.
- What is the average size of your physical education classee? ______.
- 6. How many oredits are given each student each year in physical education?
- How many credite are required in physical education toward graduation?

Please mank with an "X" each of the following activities for which your echool has adequate facilities and equipment to offer students for their participation:

Apparatue (), Archery (), Badminton (), Baseball (hardball) (), Baseball (softball) (), Baskotball (), Boxing (), Football (), Football-touch (), Oolf, (), Oymmastics (), Handball (), Horeshoes (), Stating-Foller (), Swimming (), Shuffleboard (), Table Tennis (), Tennis (), Track and Field (), Volleyball (), Wesetlins (), Other Scorte

Please give the approximate measurements and mark with an

	A.	PRIM	connect prants or cus rottoming!
	A.		masium Qyumasium Rooms: A. How many gyumasia?
	2.	Location of the gymnasium e. Is the ground floor et grade elevation or above b. Is it in a wing of the building? Yes 10. Cos it have a southern exposure? Yes 16. d. Is it located so that it will permit close correlation of activities? Yes 10.	
		3.	Size of the gymnasia

	a. Length of the first gym , second gym b. Width of the first gym , second gym c. Height under the lowest beam and trestle of the first gym , second gym .
4.	Light and ventilation for the gymnasia:

- 5. Wells
 a. Are the wells glassed brick , cak wainsoot with smooth brick , cement plaster wainsoot with sand-finished plaster , unsurfaced concrete block ?
- 6. Floore:
 a. Do you have hard pine boards for the top flooring?
 - Yes No bo you have a subfloor laid diagonally? Yes No
 - c. Do you have oak for the top flooring? Yes,
 - d. Do you have hard maple boards for the top flooring?
 Yes No .

 e. Do you have wood blocks on end for upper floor?
 - Yes No .

 f. Do you have wood blocks on end laid upon concrete?
 - Yes No sound reducing material between the two floors? Yes No

7.	Bleacher Space: a, Do you have "lifting tiers" for seats? Yes No by you have permanent bleachers on the long sides of the graf Yes No by you have novable bleachers? Yes No do do not you see hand half of your student body? Yes No
	vice Facilities: Locker and dressing room: a You have an area of 50 by 50 ca You have an area of 50 ca You have an area but on the area of 50 ca You have an area of 50 ca You
	f. Does it have sufficient pitch to allow water to drain off quickly? Yes . g. Is the floor non-alip concrete , concrete with pul-

verised steel , tile ? h. Does it have duck boards, flush with the floor leading to the draint Yes So i. Are the walls tile , brick , plaster , wood j. The locker type is the individual basket , box self-service k. What is the length , width , and depth of the lookers?

2. Shower Room: a. Is it adjacent to the locker toom? Yes_ b. Essy to access from the gym , athletic field c. Do you have fourteen sq.ft. of floor area for each

shower head? Yes No 5 , 4 , 3 , 2 , 1 shower heads. e. Are your shower heads individually controlled and opera-

ted or are they gang controlled by an attendant or instructor ? f. Windows and doors sashes covered with copper? Yes

window area is 30 , 25 , 20 , 15 , 10 , 5 percent of the floor area,

h. The walls are marble , glased tile , concrete 5. Sanitary Features:

a. Do you have an entrance to the toilet from the shower and looker room b. Do you have windows in the toilet room? Yes No . c. Do you have tile or concrete floors?
d. How man urinals toilets lavatories do you

have?

E.		a. How many tennis courts horseshoe courts heebell dismonds and footbell fields do you have?
	5.	Heachers: s. Do you have bleachers for these areas? Yes No bo you have permanent bleachers or moveable bleachers or moveable bleachers to what is the seating capacity of the bleachers?
	4.	Free area: a. How much free play area do you have which is not listed in the above mentioned areas?
		mming Pool School swimming pool; School swimming pool; School swimming pool; School swimming pool; School S
	2.	City swimming pools a Does your city have a pool? Yes No b. Do you willise the pool for physical education classes? C. When Yes at the depth of the pool at the deepest end at the deallow end The Second Se

C. Auxillary Rooms

D. Outside Play Areas: 1. Surface:

Shumber of courts:

1. Physical education instructor's office:

a. What is the top dressing of the football field
Baseball diemond, tennis courts,
and running track

PARTICIPATOR

of the questionnaires mailed to the 156 Class "5" high schools in Kansas, 75 were returned but only 68 of these contained outsile information. This makes a sampling of a bit over 45 persons of the schools under consideration.

In Fig. 1, the schools making usable returns are spotted on a map of Kansas. Examination of this map reveals that more than two-thirds of the returns came from the eastern half of the state. Due to the greater number of schools in the eastern half of the state, perhaps this is not out of proportion

SECTION I. INFORMATION OBTAINED FROM THE ADMINISTRATORS OF CLASS "B" HIGH SCHOOLS IN KANSAS

Information in the questionnaires contributed by the administrators is tabulated in the tables of Section I. Among the returns from schools, one from the administrator was omitted so this section of the returns totals 68 instead of 60.

Referring to Table 1, Section 1, it appears that physical education is compulsory in 40 of the schools, or nearly 68 percent. In 10 schools, it is elective and 10 do not offer it. It further appears that a few schools make requirements in some of the grades only. Clearly the state requirement effective in 1040 will call for considerable readjustment among these schools. One full credit of physical education will be required for graduation beginning with the freeman class of 1045. Seniors of 1040 will be required to have the one full credit.

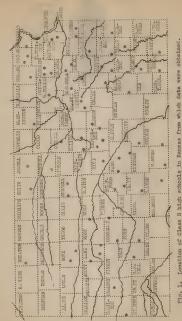


Table 1. Physical Education Data in High Schools.

Total No. of schools represented - 67	t No. of schoole	: Percent : of : schoole
Physical Education:		
Compulsory	40	59.70
Elective	10	14.95
Not offered No answer	20	2.99
Statements Added: Physical Education is compuleory for ninth and tenth grades and elective for eleventh and twelth grades.	2	2.99
Physical Education is compulsory for one year and elective three years.	1	1.49
Physical Education is compulsory for ninth grade and elective for tenth, eleventh, and twelfth gradee.	1	1.49
Health Education is taught and is com- pulsory instead of Physical Education.	1	1.49
The Physical Education Instructor Coachee Competitive Athletics:		
Yee	51	76.12
No	8	11.94
No answer	5	7.47
No instructor	5	4.48
Additional Informations		
30 students in school offering no Physical Education	1	1.49
40 students in school offering no Physical Education	1	1.49

Table 1. (concl.).

Total No. of schools represented - 67	: No. of : schools	t of schools
Total number of male students in Fhysical Education Classes:		
0 = 10	7	10,45
11 - 20	20	29.85
21 - 30 31 - 40	6	8,96
41 - 50	3	2.99
51 = 60 No answer	7	10.45

The average number of male students in the schools is 24.8. The entire group could be handled nicely in each school in one physical education class.

The average total number of students in physical education classes is 22.17.

Number of oredits given each student each year in Physical Educations

0 10 10 10 10 10 10 10 10 10 10 10 10 10	12 26 9	17.91 38.81 13.48 14.93
oredit given yearly for Athletics oredit given Preshmen and Sopho-	2	2.99
mores	1	1.49
Statement "We just give credit" Statement "We just give credit for	1	1.49
two years".	1	1.49
No answer	5	7.46

Number of oredits required of each student toward graduations

2 manua vont		
0	14	20.90 5.97 5.97
1 1	35	52.24
4 No answer	1 3	1.49
Two years on no oredit basis	2	2.99

Data concerning the duties of physical education instructors indicate that in slightly more than three-fourths of the schools, the physical education instructor coaches competitive athletics. Keeping in mind that in most cases he handles classwork in other fields also, it is evident that other than in competitive athletics, physical education is getting little attention.

Considering the number of male students reported, the average annool enrollment of boys turns out to be about 85, while the average in physical education classes is barely over 22. Only nine of the schools have classes over 30 and but two in the 50-60 group. It would seem feasible, therefore, that in all these schools, not more than one section would be necessary if the varied area and stages of development can be so accommodated.

When we come to the matter of credit for physical education, it develops that one-fourth credit per year is most common with one full credit required for graduation. A considerable proportion, nearly 18 percent, give no credit and nearly 21 percent do not require physical education credit for graduation.

The data as compiled in this survey indicated that the majority of Class "B" high schools in this state were equipped for the four major sports of football BS percent, basicatball 94 percent, baseball 76 percent, and softball BS percent. There was a definite absence of facilities for individualized and basic training, only two schools being equipped for such things as apparatus, archery, and for symmastics, showing a definite overload on the interscholastic side of physical education. In considering Tables 2 and 5, it is easy to see that schools equipped themselves first for bankethell, as 04 percent of the schools were so equipped and then considered other phases of the physical education field as the school developed. Even though the schools did squip themselves for bankethell, they failed to build the gymmaniums to stundard size for interscholastic competition, 08 percent of the schools were under standard size, and 5 percent above standards set by the National Pederation of High School Athletic Associations, 9 of which this state is a member. The standard playing space of gymmaniums as set by this Pederation to 90's 50'x 80's. The average size of gymmaniums as found by this survey was 60'x 50'x 18's, which is far below the requirement set by the Pederation. Seven percent of the schools gave no answer as to the size of the gymmanium.

⁹Hational Federation of State High School Athletic Associations Handbook, p. 23. 1946.

Table 2. Activities for which school has adequate equipment.

Activities	t t Mo. of : t schools t	Percent of schools
Apparatus Archery Archery Baseball (Hardball) Baseball (Softball) Baseball (Softball) Baseball (Softball) Boring Pootball Boring Borotball Boring Borotball Horseshoes Bandabll Horseshoes Bating (Holler) Shating (Holler) Shating (Holler) Table Yemis Temis Temis Temis Temis Temis Track and Field Volleyball Wrestling	1 8 11 64 65 22 17 15 11 6 8 8 8 12 5 8 12 5 8 19 10 10 10 10 10 10 10 10 10 10 10 10 10	1.46 2.95 16.46 76.11 95.55 94.03 31.34 40.33 22.30 16.44 7.44 29.32 4.46 17.99 56.77 28.33 46.22 70.11
Additional information: Dancing %ix man football Soccer	1 2 1	1.49 2.99 1.49

Table 2. Data concerning high school gymnasiums.

		: Percent : of : schools
Humber of gymnasiums		
0	62 8	2.99 92.54 2.99
Additional information:		
No gymnasium, physical education is taught in basement	1	1.49
Gymnasium used by school isn't owned by school nor located near it	1	1.49
No answer	1	1.49
Location of gymnasium		
Ground floor or grade elevation Above grade elevation No answer	45 9 8	67.16 13.43 11.94
Additional information:		
Below grade elevation In the wing of the building No No answer	8	7.46 35.32 46.27 10.45
Does it have a southern exposure No No answer	30 28 9	44.78 41.79 13.45
Will it permit close correlation of activities Yes No answer	59 2 6	88.06 2.99 8.96
The gymmasium which is used by the school is not located in school building	1	1.49
Total number of first gymnasiums owned by sch	001 68	92,54

Table 3. (cont.).

	1 Mo. of 1 schools 1	Percent of schools
The size of the average gymnacium is 60 x 35 x 18 feet. This gymnacium is sufficient in size for the size of physical oducation classes.		
Length:		
40 - 50 61 - 60 61 - 70 71 - 80 81 - 90 91 - 100 101 - 110 111 - 120	28 22 21 2 2 1	2.99 17.91 32.84 51.34 2.99 1.49
Widths		
25 - 55 36 - 46 46 - 55 56 - 56 66 - 76	18 35 5 3	26.86 52.24 7.46 4.48
Reights		
0 = 10 11 = 20 21 = 30 No enewer	2 36 25 1	2.99 53.73 34.33 1.49
No answer concerning size of gymnasium:		
60 x 30 x 18 70 x 30 x 15	1	1.49
Location of windows:		
On long sides On ends	41 3	61.19

Table 3. (cont.).

		No. of 1 schools t	of schools
Additional informations			
On both long sides and both ends On both long sides and one end On one long side and two ends On one long side and one end No answer		5 2 5 4 7	7.40 2.99 7.48 5.97 10.45
Percentage of window area as compared to space:	floor		
50 25 20 15 10 6 No answer		12 12 21 5 8 5	17.91 17.91 51.34 4.48 11.94 7.46 8.96
Number of lights on ceiling of first gymn	nasium	1	
0 - 5 6 - 10 11 - 15 16 - 90 No answer		10 38 12 2 5	14.95 56.72 17.91 2.99 7.46
Number of schools having skylights:			
Yes No No answer		8 60 5	2,99 89,55 7,46
Material used in construction of wallst			
Glased brick Oak wainscot with smooth brisk	2 2b.	9	15.45 2.99
Coment plaster wainscot with sand for plaster Unsurfaced concrete blocks No answer	mim	45	67.16 1.49 1.49

Table 5. (cont.).

	o. of t	Percent of schools
Additional informations		
Clared tile Wood finish Clared brick and plaster Clared painted brick	1 1 1	1.49 1.49 1.49 1.49
Material used in construction of floors:		
Hard pine boards for the top flooring Hard maple boards for top flooring Onk for the top flooring The flooring the flooring Subfloor Laid diagonally Wood blocks on end laid upon concrete for	7 40 11 1 40	10.45 59.70 16.42 1.49 59.70
subfloor Sound reducing material between the two	18	26.86
floors No No answer	11 48 1	16.42 71.64 1.49
Additional information:		
Hard maple top flooring and sample sub- floor on a concrete base Concrete floor	1	1.49
The one concrete floor and the one floor containing wood blocks on end for upper flooring did not contain a subfloor.		
Bleacher space:		
Lifting tiers for seats Permanent bleachers on long sides of	9	13,45
gymnasiums	22	47.76
Movable bleachers:		
No answer as to movable bleachers	18 15	26.87 28.39

Table 5. (concl.).

	2 2	No. of schools	1	Percent of schools
Additional informations				
Permanent bleachers on one long side Permanent bleachers in balcomy on one long side		1		1.49
Only chairs for seats		1		1.49
Can seat more than half of student body:				
Yes No enswer		62 5		92.54

No schools had more than one type of bleachers in the gymnasium.

The consensus of all authority in the field of physical education is that in the utopian gymnesium, the window space should be from one-half to one-third of the floor space. This survey brings out that all of the schools in this survey had less than 30 percent window space and that only 45 of the 67 schools had from 20 to 30 percent window space, 6 giving no answer to this question. Electric lighting was adequately supplied; of the 68 schools sampled, 52 had from 6 to 90 lights in the ceiling of the gymnasium. The largest grouping came in the 6 to 10 bracket where 67 percent of the schools fell. Only 8 schools had skylights which are not important.

In consideration of the construction of the gymnasium, two types of walls seemed to dominate; glased brick was used by θ of the θ 7 schools, and coment plaster wainsoot with send finish plaster were used in 45 schools or 6 percent of those sampled.

In the eight additional schools, there were seven different wall finishes.

Hard maple and oak were the main woods used for top floorings 61 percent of the schools used hard maple, and 17 percent finished oak. Pins, concrete and wood blocks on end were also used to a lesser extent. The subfloor in 60 percent of the cases was laid diagonally, although 27 percent of the schools had wood blocks on end upon concrete for the subfloor to carry the load, help accustics, and prevent breakage of the thin top floor. There was one concrete floor and the one floor containing wood blocks on end for upoer flooring, did not contain a subfloor.

Data concerning the seating capacity of the gymnasium indicate that permanent bleachers on the long sides of the gymnasium dominated among those schools sampled, 48 percent of the schools being in this category, Mowable bleachers and lifting tiers for seats were a strong minority, amounting to 41 percent between them. One school had permanent bleachers in a balcony, and one had only chairs for seats. We school had more than one type of bleacher in the gymnasium. Of the 62 schools reporting, all 68 could seat more than half of the student body, but few could accommodate much of a public errord, should interest develop.

In the matter of service facilities, two of the 67 achools contributing information reported no facilities available; four reported showers, toilet, dressing, and locker rooms combined; and 68 had separate facilities. The remaining four schools failed to answer the questionnaire in this feature. The number of square feet of floor space per pupil waries from a high of 50 to a low of five, with 27 percent of the schools reporting the latter.

There should be 15 square feet per pupil for looker and dressing room. Over 40 percent of schools sampled had less than 15 square feet and the majority had five.

Table 4. Service facilities, locker, and dressing room,

	1 No. of 1 1 schools 1	Percent of schools
Number of schools represented Number of schools that contributed informa-	67	100
tion on separate service facilities Showers, toilet, dressing, and looker rooms	68	94.03
oombined	4	5.97
No service facilities	8 4	2.99
No answer pertaining to service facilities	-6	5.97
Number of square feet per pupil:		
50	3	4.48
25 20	6	5.97
15	11	16.42
10	5 4 9 11 15 18	19.40
5	18	26.86
No answer	9	13,43
Accessible to:		
Gym	49	73,13
No	12	17.91
No answer	6	8,96
Athletic field	47	70.15
No	15	19,40
No answer	7	10.45

Table 4. (cont.).

		Percent of schools
Entrance to shower rooms		
Yes No No answer	34 15 18	50.74 22.39 26.36
Entrance to locker room:		
Yes No No snewer	30 19 18	44.78 28.36 26.86
Schools with toilets having windows:		
Yes No No answer	54 5 8	81:00 7.46 11.94
Additional information:		
Outdoor toilet	1	1.49
Material used in construction of floors:		
Tile Concrete No snawer	1 54 10	1.49 81.00 14.93
Additional information:		
Wood	8	2.99
Number of urinals:		
0 1 2 3 No enswer	2 33 17 2	2.99 49.25 25.37 2.99 19.40

Table 4. (cont.).

	t No. of t	of
Number of toilets:	1 BOLIDOLD 6	BOLLOON
1	8	11.94
2	16	25.88
2 4 5	18	26.86
4	11	16.42
5	1	1.49
6	1	1.49
8	1	1.49
No answer	11	16.42
Number of lavatories:		
1	59	58.20
1 2	8	11.94
85	2	2,99
Å.	1	1.49
No answer	17	25.37
Additional information:		
Schools having urinals, toilets and		
lavatories but gave no number	1	1.49
Shower adjacent to the looker rooms		
Yes	56	83,58
No	4	5.97
No answer	7	10.45
Shower easily accessible from the gymnasium		
Yes	57	85.07
No	5	7.46
No answer	5	7.46
Shower easily accessible from the athletic :	fields	
Yes	28	41.79
No	18	26.86
No answer	21	31.54
	mas.	

Table 4. (cont.).

	: No. of	: Percent : of : schools
Fourteen square feet of floor space per shower head:		
Yes	23	41.79
No	24	35,32
No answer	15	22.39
Number of shower heads:		
Nore than 6	4	5,97
5	7 8	1.49
4 *	7	10.45
3	8	11.94
8	21	31.34
1	19	28,36
0	0	0.00
No answer	7	10.45
Shower heads are:		
Individually controlled	56	83,58
Gang controlled	2	2.99
No answer	9	14,43
Window and door sashes covered with copper:		
Yes	6	8,96
No	54	81.00
No answer	7	10.45
Percentage of window area to floor space:		
25 percent	5	4.48
20 percent	8	11.94
15 percent	8	11.94
10 percent	15	22.39
5 percent	12	17.91
O percent	2	2.99
No answer	19	28.36
Material used in construction of the walls:		
	0	0,00
Marble		
Concrete	50	74.64
	50 5	74.64 7.46 10.45

Table 4. (cont.).

		Percent of schools
Additional information:	1 comore	ROHOUAB
Plaeter	5	1.49
Sheet metal Wood wainecot and placeter	1 1	1.49
Seats how many pupile:		
0 - 10	20	29,85
11 - 20	28	41.79
21 - 50	4	5.97
51 - 40	1 0	1.49
41 - 50	1	1.49
51 - 60	15	19.40
No answer	70	70040
Locker room window space what percent of floor epace:		
25	7	10.48
20	12	17.91
15	5	7.46
10	12	17.91
5	18	26.86
0	12	17.91
We answer	TE	TIPDI
Sufficient pitch of floor to allow water drainage:		
Yes	46	68,66
No	14	20.90
No answer	7	10.45
The average school will seat 13 students and dressing rooms.	in the locker	
Material used in construction of floors:		
Non-elip concrete	50	74.64
Concrete with pulverised steel	1	1.49
Tile	5	4.48
No answer	10	14.95

Table 4. (cont.).

	t No. of t schools	: Percent : of : schools
Additional information:		
Concrete Shower, toilet, dressing and locker rooms are combined and have con-	1	1.49
crete floor	2	5*88
Duokboard:		
Yes	15	22.39
No No answer	45 7	67.16 10.45
Material used in construction of walls:		
Tile	4	5.97
Brick Plaster	7	10.45
Wood	2	2.99
No answer	9	13,45
Additional information:		
Cement	1 2	1.49
Plaster and brick	2	5.99
Wood and plaster	1	1.49
Types of lookers:		
Individual basket	10	14.93
Self-service	26 12	35.32
No enswer	18	17.91 26.86
Additional information:		
Walls and hooks	1	1.49
Hooks and shelves	1	1.49
Steel lookers inside of gymnasium but no size given	1	1.49

Table 4. (concl.).

	t t Percent t No. of t of t schools t schools
Length of lockers:	
10" - 20" 21" - 30" 31" - 40" 41" - 50" 61" - 70"	4 8.97 12 17.91 10 14.93 5 4.68 10 14.93 0 0.00 7 10.66
Width of lookers:	
0" - 10" 11" - 20" 21" - 30" No answer	8 11.94 28 41.79 4 5.07 6 8.96
Depth of lockers:	
0" - 10" 11" - 30" 21" - 30" No answer	10 14,92 25 37,31 5 4,48 8 11,74

Two schools had only mails, hooks and shelves; one school had stool lookers in gymmasium, but gave no size, and 46 had lookers. Eighteen schools did not answer the part of the unit containing questions pertaining to the lookers.

Data found in Table 4 show lookers and dressing rooms accessible to gymnasium in 49 schools and to the athletic field in 47 schools.

Seating for more than 20 pupils was provided in only six of the 54 schools.

Hon-slip concrete was used on the looker room floors of 75

percent of the achools. Insufficient pitch of floor caused improper drainage in 14. Duckboard was used in 15 dressing rooms to prevent slipping. Plaster was the most popular material used in wall construction, as 61 per

Table 4 shows that only 18 percent of the schools reported self-service lockers, the less desirable basket and box lockers were used by 50 percent of the schools, while two schools used only hooks or shelves. One school had steel lockers in the gymnasium, but gave no size. Eighteen schools did not answer the part of the unit containing questions pertaining to the lockers, which probably indicated their absence.

Table 4 shows that 84 percent of the schools had the shower room adjacent to the locker room; 85 percent had showers easily accessible from gymmasium; 42 percent were convenient to the athlatic field.

The ideal requirement of 14 square feet of floor space per pupil was reported in 42 percent of the schools, although only 6 percent had more than six shower heads. There should be at least one shower head for 12 boys. Individually controlled showers were used in 84 percent of the schools, and 5 percent had gang control lewers. Information obtained on covering for door and window sashes showed only 9 percent using the more desirable copper covering.

The extremes in percentage of window area to floor space in shower rooms was 25 percent in 4 percent of the schools and 5 percent in 5 percent of the schools, with the largest group of schools. 22 percent having 10 percent window area.

As in locker and dressing rooms, the most widely used material for wall construction in shower rooms was concrete, 75 percent of the schools being in this class, and 7 percent reportof using glased brick. Plaster, sheet metal and wainsorting accounted for another 8 percent of materials used in wall construction.

In the matter of toilets, Table 4 shows one school with outdoor accommodations. In 51 percent of the schools, there was an entrance from toilet to shower and 45 percent had looker entrances. Data in Table 4 show 81 percent of the schools reporting windows in toilet rooms. The floors were primarily concrete, with only 1 percent reporting tile and 3 percent using wood.

Information obtained from the 67 schools shows a distinct lack of urinals. A minority of 5 percent of the schools reported three urinals, while 40 percent reported one. Insufficient toilets were also reported. Seventy-nine percent of the schools had four or less and 70 percent of schools had but two lavatories. One toilet should be provided for each 12 boys and one lavatory for each 15 boys.

Table 5. Instructor's office and storage room.

		No. of t	Percent of schools
Total number of schools represented Number of schools having auxillary rooms		67 15	100.00
Size of physical education instructor's off	ice	1	
Length:			
6' - 8' 9' - 11' 12' - 14' 16' - 17' No No answer		5 5 5 2 30 82	4.48 7.46 7.46 2.99 44.78 32.84
Widths			
3' - 5' 6' - 8' 9' - 11' No noswer		3 7 5 30 22	4.48 10.45 7.46 44.78 32.84
Height:			
61 121 No No answer		6 6 3 30 22	8.96 8.96 4.48 44.78 32.84
Average size of physical education instruct office 11' x 7' x 8'.	or!	8	
Conveniently located -			
For supervision of athletic field:			
Yes No No answer		12 5 52	17.91 4.48 77.61

Table 5. (concl.).

		1 No. of	Percent of schools
For supervision of g	ymasium:		
Yes No answer		12 52	22.39 77.61
For supervision of 1	ooker and shower r	00m:	
Yes No No answer		15 2 52	19.40 2.99 77.61
hysical education instru equipped with a show			
Yes No No answer		1 14 22	1.49 20.90 77.61
hysical education instru	notor's office is		
Yes No No answer		1 14 52	1.49 20.90 77.61
hysical education instru			
Yes No No answer		10 5	14.95 7.46 77.61

Table 6. Outdoor play facilities.

	1 No. of 1 schools	Percent of schools
Total number of schools represented	67	100.00
Total number of schools that enswered the unit pertaining to outside play areas	60	89,55
Surface of football fields:		
Grass	20	29.85
Sod	6	8,96
Diret	7	10.45
No field	11	16.42
No answer	23	34.33
Surface of basebell diamonds:		
Grass	23	34.33
Sand	2	2,99
Dirt	20	29,85
Sod	3	4.48
No diamond	10	14.93
No answer	9	15.43
Surface of tennis courts:		
Dirt	12	17,91
Sand	6	8,96
Gravel	2	2.99
Native grass	8	2,99
No courts	8	11.94
No answer	37	55.22
Surface of running tracks:		
Send	6	8,96
Gravel	2	2.99
Cinders	3	4,48
Dirt	12	17,91
Sod	1 5	1,49
Grass		7.46
No tracks	11	16.42
No answer	27	40.30

Table 6. (cont.).

	t No. of t schools	Percent of schools
Number of tennis courts:		
0 1 2 3 No answer	8 10 11 1 37	11.94 14.93 16.42 1.49 55.22
Number of horseshoe courts:		
0 1 2 4 No answer	26 17 3 1 20	58.81 25.37 4.48 1.49 29.85
Number of baseball dismonds:		
0 1 2 No answer	10 45 3 9	14.93 67.16 4.48 13.43
Additional information:		
Baseball diamond located at grade school instead of high school	1	1.49
Number of football fields:		
0 1 No enswer	11 33 23	16.42 49.25 34.33
Additional information:		
Football field located at grade school instead of high school	1	1.49
Schools that have bleachers:		
Yes No answer	11 45 11	16.42 67.16 16.42

Table 6. (concl.).

	: No. of	Percent of schools
Type of bleachers:		
Permenent Movable No answer	6 5 56	8.96 7.46 83.58
Seating capacity of bleachers:		
50 70 75 150 200 300 No answer	4 1 1 3 1 56	4.97 1.49 1.49 1.49 4.48 1.49 83.58
Amount of free play area:		
Planty 7 some 8 some 8 some 9 some 1	1 1 6 1 8 8 10 4 2 8	1.49 1.49 8.96 1.49 11.94 2.99 14.93 5.97 2.99 11.94 35.32

In referring to Table 5 of this section, it is evident that there is a decided deficiency in instructors' offices and storage rocas. Only 15 of the 67 schools sampled even made provision for them and they were small and inadequate. The average size was 11 * x 7 * x 8 *. They were as a whole, conveniently located to the atthictic field, gymmacium, and in good position to supervise the locker and shower rocm. Only one had either shower or toilet,

while two of the 15 had closet space.

In considering Table 6 in this section, it is obvious that the top surfacing of the outside play area varied. The tendency was toward gress top surfacing for the football fields, and beeshell dismonds, although 13 of the 55 schools having football fields and 55 of the 65 schools having baseball dismonds used sand, dire or sod to a lesser degree. The running tracks are predominately dire, of the 80 schools having tracks 12 or all percent had dirt top surface. There were only 26 horseshee courts in the 67 schools reporting, and 35 had tennis courts, varying from one to three in number. Only six of the schools had permanent bleachers in their free play area, and five had movable bleachers showing a distinct evidence of insufficient game seating. The scating capacity of the bleachers provided was from 50 to 500 persons, 50 being the common number,

Pive acres of free play area is considered the minimum space for students to express themselves physically in sports of their own choice and interest. All but eight schools had less than this smount. This free play area should be situated so as to be convenient, and facilitate discipline, and protect property.

Table 7. Swimming pool facilities.

	: No. of : schools	: Percent : of : schools
Total number of schools represented	67	100.00
Schools that have a swimming pool:		
Yes No No answer	59 7	1.49 88.06 10.45
No enswer regarding size or depth	1	1.49
City swimming pool:		
Yes No No answer	6 58 3	8.96 86.57 4.48
Do not utilize pool for physical education	m classes:	
Yes No answer	5	7.46 1.49
Depth of pool at deepest end:		
10' 9' 8' No enswer	2 1 1 2	2.99 1.49 1.49 2.99
Depth of pool at shallow end:		
51 221 No answer	2 2 2	2.99 2.99 2.99

One of the most vital phases of physical education as covered in Table 7, is woefully neglected in Class "B" schools in Emsas. Only one has a pool in the school and two others are able to use city pools for physical education classes. The reason for this is the extremely high cost per pupil of pool construction for small schools. This is not the situation in Kansas alone, but the condition is true smong all echools of the same size in the United States.

SECTION II. INFORMATION CONTRIBUTED BY THE PHYSICAL EDUCATION
INSTRUCTORS OF CLASS "B" HIGH SCHOOLS IN KANDAS

Information in the questionnaires contributed by the physical education instructors of Clase "8" high schools is tabulated in the tables of Section II. As indicated in Table 8, only 63 of the 66 eshools in question, or 78 percent had physical education instructors and their ages varied from 21 to 60 with an even break of 29 percent each in the 51 to 40 and 41 to 50 year bracksts, and 11 percent each in the upper and lower brackete. As to education and experience, 56 percent had at least B. A. or B. S. degree.

Table 8. Qualifications of instructors.

April 10 10 10 10 10 10 10 10 10 10 10 10 10	t No. of	Percent of
Number of schools represented Number of schools that had a physical education instructor	66 52	100.00
Ages of physical education instructors: 21 - 30 31 - 40 41 - 50 51 - 60 10 answer	7 19 19 7	10.61 28.79 28.79 10.61 21.21

		Percent of schools
College degrees:		
B A B B AN	7 17 9 8 6 7 1	10.61 25.76 13.64 7.61 10.04 10.61 1.52 21.21
Total number of years in teaching physical educations		
0 - 5 0 - 10 11 - 15 16 - 20 21 - 25 26 - 30 No answer	18 16 6 8 5 2	27.27 22.73 9.09 12.12 4.55 3.03
In Class "A" high schools:		
0 - 5 6 - 10 11 - 15	8 2 1	12.12 3.03 1.52
In Class "B" high schools:		
0 - 5 6 - 10 11 - 15 16 - 20 21 - 25	14 6 4 5	21.21 9.09 6.06 4.55 1.52
In Class "C" high schools:		
0 = 5 6 - 10	6	9.09 1.52
In elementary schools:		
0 - 5	4	6.06
In Junior High Schools:		
0 = 5 6 = 10	1	1.52

The other 64 percent were men with Master's degrees and one had an L.L.D. Most of the 64 percent were principals of the Class "B" schools as well as physical education instructors. The majority of these instructors average less than 11 years of teaching experience in physical education which was for the most part in Class "B" high schools.

Table 9 deals with the experience of the physical education instructors as pupile in their high school training. Examination of this table reveals participation in basketball as most common, including nearly 70 percent, Others, cutstanding in importance are baseball 86 percent, football 39 percent, softball 35 percent, and track and field 42 percent. Individual and non-interscholastic activities such as gymnastics, tumbling and apparatus come in for minor attention which further emphasizes lack of training and probably lack of interest in fundamental training.

Table 9. High school participation of physical education instructors.

Activities	: Perc : No. of : of : echools : scho	
Appears the Archery Badminton Baceball (Boftball) Baceball (Boftball) Baceball (Boftball) Bacyallan Bacxing Groquet Demoing Bockball (Touch) Goftball (Touch)	8 12, 1 1, 5 7, 57 56, 23 84, 44 6 9, 14 21, 7 10, 8 12, 25 37, 8 12, 8 12, 8 12,	52 58 06 85 70 09 21 61 12 88 18

Table 9. (concl.).

Activities	1 No. of 1 schools	Percent of schools
Handball Hiking Horsenhoss Rope skipping Soper Stating (Moller) Socoer Swiming Tentia Track and Field Tumbing Volleyball Wrestling None No nameer	11 8 18 6 15 11 118 118 118 118 28 28 21 21 21	16.67 12.12 27.27 9.09 82.73 16.67 19.70 22.75 51.82 42.42 42.42 12.12 51.82 5.05 1.52 5.03
Additional information:		
Scooter	1	1.52

In consideration of Table 10, it is found that again the major sports of basketball, baseball, track, and football dominate the college participation of the physical education instructors. Individual and non-interecholastic activities such as gymmastics, tumbling, and apparatus came in for minor attention, although it was found there was a slight rise in percentage over high school participation which further emphasizes the lack of training and probably lack of interest in fundamental training.

Tabls 10. Collegs participation of physical education instructors.

Activities	1 No. of 1 of 1 No. of 1 of 1 schools 1 schoo
Apparatus	9 15.6 2 3.0 7 10.6
Archery Bedminton	2 3.0 7 10.6
Bassbell (Hardbell)	22 55.5
Bessball (Softball)	19 28.7
Basketball	35 50.0
Bicycling	2 3.0
Boxing	8 12.1
Croquet	2 3.0 8 12.1 1 1.5 9 15.6
Dancing	9 15.6
Football	25 37.8 7 10.6 7 10.6
Football (Touch)	7 10.6
Golf	7 10.6
Gymnastics	17 25.7
Handball	15 19.7
Hiking Horssahoes	6 9.0 10 15.1
Rops Skipping	1 1.5
Skating (Ios)	6 9.0
Skating (Rollsr)	5 7.5
Socoar	6 9.0
Swimming	1 1.5 6 9.0 5 7.5 6 9.0 11 10.6 17 24.2
Tennis	17 24.2
Table Temmis	12 18.1
Track and Fisld	24 36.5
Tumbling	11 16,6
Volleyball	17 25.7
Weight Lifting	2 5.0
Wrestling No answer	2 5.0 6 9.0 8 12.1

Table 11 gives one an overall picture of time spent in the classroom on each of the 18 major fields in physical education as taught in Kansas Class "B" high schools. Here again it is clear that the so-called major sports dominated the classroom time, while the fundamental training courses were neglected, the largest per-

Table 11. Distribution of time among activities in physical education classes.

	0.000	COLUMN OF PERSON	1070	200	COMO	120 01	10.0	to or	0.0	0 0 0 0 0 0 1 10 0 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 1 10 0 1	OF STORES OF STORES OF STOROSTS OF STOROSTS OF STOROSTS OF STOROSTS OF	1.0 OF
Activities	: Boh.	: Beh. :	goh.	1 80h. 18	oho	Boh. 18ch.	oh.	: sohe :	soh.	1 Bcha	sech.	sach.
Apparatus	rl	1.583										
Archery		00		**	,	96		90				000
Badminton	00	00 1	04	2.051	05	5.051		00 0			H .	Leon
Baseball		**	,	-	,	-	-	-			100	
(Herdball)	10	7.581	0	13.641		TO-OT	00	20000				
Baseball		-	1		9	9 800	0	- 00				
(Sortball)	2	6.061	0	4.000	7	Leoner	22	20000				
Boxing	00	4.551		**		*		-		-	**	
Football		00		**	9	8.001	ri	1.522	rl	1.521	00	
Football (Touch)	00	4.551	ri	1,.58:	H	1.522	01	5.051				
Colf	-	**				-	ri	1.5521				
Overnastics	10	7.581	80	4.553		00		**				
Handball	1 3	1.582		***		**		00				
Horseshoes	1 4	10.61		00				90				
Skating (Roller)		1.52:		00		**		00				
Shuffleboard	80	4.551		00		00					••	
Swimming	-1	1.522		99		64		00			•	
Table Tennis	4	6.062		00				00				
Track and Pield	10	4.551		**		**		00			00	
Charact ton				01		*		04				

No answer from two schools or 5.05 percent.

Additional informations

10.61 1.52 7 1.52 Basketball Tennis Volleyball cent giving only 10 percent of their time in this field of endeavor. There were two schools which failed to answer this particular question.

In obtaining the information for this study, there was sent to the 156 Class "B" high schools in Kansas a preliminary survey as a test method to obtain information as to the assume of return that would be available. In the original questionnaire, inquiry was made into several different aspects of girls physical education, but due to a very insufficient number of returns on that item of the questionnaire, it was left out of the second and more comprehensive questionnaire, returns from which have been considered in this study.

CONCLUSTORS

- Only half of the schools studied offered physical education as a required course, most of them giving one-fourth credit annually and one credit toward graduation.
- The coach of interscholastic athletics is usually the physical education teacher and frequently interscholastic athletics constitute the only physical education in the boys' progress.
- 5. The majority of the schools had facilities to offer baseball (hardball and softball), basketball, table tennis and volleyball. Fewer than one-half offered football, but for interscholastic competition only.
- 4. The tendency in construction of gymmasiums, is for the top flooring to be either hard maple, or oak, with a subfloor laid diagonally. The walls were prodominately coment, plaster wainsoot, with sand finish plaster.
- 5. The window space as compared to the floor space is insufficient in the gymnasiums. Window space should be equal to from one-third to one-half the floor space.
- Too many adhools have insufficient service facilities.The locker, shower, and dressing rooms are too small in comparison to the number of students they serve.
- A very small percent of the schools have storage or office space for physical educational director.
- Swimming, an important activity, is completely absent in physical education programs; only one school had a pool.

- 9. Only five percent of the schools met the requirements for standard sized symmasiums.
- 10. Bleacher space for athletic contests were inadequate.
 One school had only movable chairs for scating, and most of the schools had personent bleachers on but one side of the symmasium.
- 11. The top surfacing of outside play areas varied. The tendency was toward grass top surfacing for the footbell fields, dirt was used for the running track, baseball dismond, and tennis courts of the school. Sand was used for the latter three areas to a lesser artest.
- 12. All but eight eshools had less than the five acres of free play area which is considered a minimum amount of space for students to express themselves physically in sports of their own choices and interest.
- 15. Perhaps due to the war, the largest number of physical education instructors was from 41 to 50 years old, and they averaged less than 11 years of teaching experience in physical education which was for the most part in Class "5" high schools.
- 14. The majority of the physical education instructors earned their high school letter in the more common sports of baseball, basketball, football, track, and field events. The same was true in college with the exception that a very few earned letters in baseball.
- 15. The physical education instructors have a very limited background in the participation of sports in gymnasium classes both in high school and college which may be carried on to leisure time, or recreation.

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16. The major portion of time in physical education classes was allotted to the teaching and coaching of those sports which are used in interscholastic competition.

17. The Class "B" schools in Kanasa may very profitably obtain new facilities for a more varied physical education program and employ trained and capable instructors which will make the instruction and results tangible.

18. The lesson learned by our recent war should be profitable to the people of this country and they should sat intelligently and diligently in order to give the present and future generations the advantages which are now offered to them by providing higher qualifications for the instructor, and better facilities for him to work with, along with more free play area whereby the students may express themselves adequately.

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