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COMPARATIVE STUDY OF INDIANA COACHES

A Thesis

Presented to

the Faculty of the Department of

Physical Education

Indiana State Teachers College

In Partial Fulfillment
of the Requirements for the Degree
Master of Arts in Physical Education

by
James L. Wittenauer
June 1960

THESIS APPROVAL SHEET

The thesis of James L. Wittenauer, Contribution of
the Graduate Division, Indiana State Teachers College, Series
I, Number 804; under the title Comparative Study of
Indiana Coaches
is hereby approved as counting toward the completion of the
Master's Degree in the amount of 6 hours' credit.
Approval of Thesis Committee:
Charles W. Hardaway
Walter E. marko.
John of Jorghellow, Chairman
Approval of Associate Dean of Instruction:
Elmer J. Clark May 27, 1960

ACKNOWLEDGEMENTS

The writer wishes to express his appreciation and sincere thanks to all those who have given assistance to this study. First of all to John Longfellow, Sr., Dr. Walter Marks and Dr. Charles Hardaway for serving on the committee. The writer is especially grateful to Dr. Hardaway for his excellent assistance in coordinating the material for this study. Also, Mrs. Joan Nayarkas, Secretary of the Athletic Department, for her assistance in sending the questionnaire and doing preliminary typing. Last, but by no means least, the writer is grateful to the Indiana State Varsity Club for sponsoring this project and to the Indiana high school coaches who so graciously participated in this experiment.

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CHAPTER I

THE PROBLEM AND LIMITATIONS OF THE STUDY

team is of much concern to young coaches graduating from college. Many coaches graduating from college today have not participated on a varsity athletic team. This the writer feels, may be a handicap in securing the initial coaching position. In addition, the writer feels, that if the coach lacks experience of playing the game that he is going to teach this may influence success or failure. On the other hand, it may be that the varsity letter winner with athletic talent lacks teaching potential relative to instilling this talent into others. Hence, if student coaches are greatly handicapped by non-varsity experience in college, additional theory courses perhaps could be offered them to compensate lack of participation.

I. THE PROBLEM

Statement of the problem. It was the purpose of this study (1) to compare the relative success of college letter men with that of non-letter men in coaching in Indiana high schools; (2) to compare the success of Indiana State Teachers College graduates to men graduated from other colleges; (3) to determine the percentage of Indiana coaches supplied by

each Indiana college and out of state colleges; (4) to show the number and grade level that athletic coaches are employed in Indiana schools.

Importance of the study. Many books and articles have been written on the (1) psychology of coaching; (2) techniques and methods of coaching various sports; and (3) philosophy of great coaches. It is the opinion of the writer that many factors contribute to the success of a coach such as personality, enthusiasm, sense of fair play, superior teaching ability and willingness to put in the hours required to fulfull the obligations coherent to coaching athletic teams. However, the writer believes that many times a coach's success is determined by his won and loss record.

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To the knowledge of the writer no specific research concerning the success of coaches based on varsity and non-varsity participation in college has been made. Mr. John L. Longfellow, Sr., Athletic Director, Indiana State Teachers College, was very interested in this study, and was of the opinion that this study would aid in evaluating and planning the training program for coaches at Indiana State Teachers College.

II. SOURCES OF DATA AND METHOD OF PROCEDURE

Data for the problem were obtained through the use of a questionnaire sent to 694 high school principals in Indiana.

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The questionnaire endeavored to secure the information con-, cerning the coaching staff, the college from which the coaches graduated, letters won in particular sports, years served as head coach and each coach's life record. The above information concerned the following sports: (1) basketball, (2) football, (3) baseball, and (4) track. The questionnaire, also, endeavored to secure the name of the coach, year and college from which he graduated and letters won in college for the following sports: (1) cross country, (2) golf, (3) swimming, (4) tennis, and (5) wrestling.

Names of the high schools were obtained from Bulletin No. 2 of the Indiana High School Athletic Association. Addresses of the high schools were obtained from the 1957-58 Indiana School Directory. 2

III. DELIMITATIONS AND LIMITATIONS

Delimitations. It must be pointed out that the questionnaire was sent only to Indiana High Schools. Also, the data obtained were relative to the current coaches in Indiana schools.

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Limitations. It must be pointed out that the following

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¹ Indiana High School Athletic Association, Bulletin No. 2, Vol. 56, October, 1959, Indianapolis, Indiana.

Wilbur Young, <u>Indiana School Directory</u> (Indianapolis: State Department of Public Instruction, 1957-58).

limitations influence the outcomes of the study:

- to questionnaire return.
- 2. The use of the questionnaire method of sampling as the procedure for collecting data.
- 3. Lack of knowledge of degree of competition on the individual teams schedule.
- 4. Possibility of individuals with poor records to give estimates rather than actual records.
- 5. The use of won and loss records being the chief evaluation of success.
- 6. Failure to include many coaches who have retired from the field.

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- 7. Possibility that the record returned would be the total life record rather than the life record as a head coach.
- 8. Emphasis being on building rather than winning in relation to teams below the varsity level.
- 9. Number of respondents from some schools was so small that the data secured were not considered significant.

IV. ORGANIZATION OF REMAINDER OF THE THESIS

The remainder of this thesis is organized in such a way as to present related material in a logical manner.

Chapter II is concerned with the review of related literature and research. Chapter III is the Presentation and Analysis

of Data. Chapter IV relates the Summary, Conclusions and , Recommendations of this study.

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CHAPTER II

REVIEW OF LITERATURE

I. RESEARCH STUDIES

The purpose of this chapter is to review material related to this study. Reliable sources indicate that there has been no research directly related to this study. Two studies indirectly related to this study are merely mentioned in this chapter. One study relates the experience of typical high school coaches. The other study relates opinions of school administrators concerning desirable and essential qualities in ideal and successful coaches.

II. RELATED LITERATURE

The coach has a very important task to perform. Besides

²Byron B. Brown, "The Experience of Typical High School Coaches Throughout the State of Texas," (unpublished Master's thesis, Towa State Teachers College, Cedar Falls, 1958).

Marion U. Graham, "A Study of Opinions of School Administrators Concerning Desirable and Essential Qualities in Ideal and Successful Coaches," (unpublished Master's thesis, Indiana State Teachers College, Terre Haute, 1949).

being a good teacher he must build character and mold personalities of boys. The old objective of coaching, "To build huge muscles and brute strength," has changed to one of developing skills.

Factors contributing to success. "At the present time a coach must win games or lose his job." There are three fields in which a coach should become more or less proficient:

- (1) he should be an athlete; (2) he should be a physiologist;
- (3) he should know something about psychology.6

The coach as an athlete. A coach should have at least tried to make the team. He will gain something of value if he has spent some time with the team. He will develop a sympathetic understanding of the tasks he will ask his own students to accomplish. "... book knowledge, knowledge of diagrams is one thing; and actually playing knowledge is another." In other words, "a prospective coach ought to have played his game before he tries to teach it."

Charles Scribner's Sons, 1928), p. 3. Coaching (New York:

STOLOS, Property and the conference of the confe

⁶_<u>Ibid</u>., p. 6.

^{7&}lt;sub>Ibid</sub>., p. 7.

⁸ <u>Tbid.</u>

The coach as a physiologist. The coach need not be a qualified physician, but is is quite important that he understand certain basic information concerning functions and structure of the human body.

The coach as a psychologist. The coach should have certain basic understanding of mental ability, personality traits and human behavior patterns.

According to Griffith, in order to be successful, a coach must have a general knowledge of the following principles: (1) the fact of individual differences; (2) the original nature of man; (3) the meaning of law in psychology; (4) the natural insurgence and playfulness of youth.

Undergraduate experience on an athletic squad is almost a prerequisite for the prospective coach. Actual varsity game experience is very valuable. no other way can one gain a complete understanding of the athlete, his problems and works, essentials sacri-fices to win, and the composite of characteristics that contribute to athletic success . . . squad experience teaches the techniques of getting along with the boys, and exposes one to the boys' real thoughts, ideas, and feelings as they go through the gruelling preparatory grind and culminating crisis of the important school game. . . their strengths and weaknesses are much better remembered if one goes through the experience of trying to combat those weaknesses in interschool competition. The 'varsity letter' may have so much prestige in some communities that it becomes a factor in jobgetting. The 'letter-man' from the small school is sometimes given preference by school boards over the squad man from the larger university who did

Provide Hall, Tro., 1951)

⁹ Ibid., p. 11.

not earn a letter. 10

Qualifications of the athletic coach. Leadership in athletics is an important qualification. Sound character is equally significant because of the complexities and pressures of the game. Years ago an outstanding and successful coach wrote:

It seems to me that there are three fundamental questions that should be asked about a man before he is entrusted with the responsibility of coaching boys. The first question to be answered is WHAT MANNER OF MAN IS THIS? How does he speak and act? Is he sound and clean in mind so that his influence is inspiring and uplifting? Would he set a fine example -- not by posing but by being--the type of man we want each of his boys to be? If these questions cannot be answered favorably, stop then and there. No other qualities can supplant the fundamental qualities of character. The next question is: JUST HOW WELL DOES HE KNOW WHAT HE WANTS TO TEACH? Is he thorough or superficial? Is he progressive or reactionary? Is he original or without imagination? In short, can he bring with him a thorough, solid knowledge, and will he keep that knowledge constantly abreast of changing conditions? And finally: CAN HE TEACH OTHERS WHAT HE KNOWS? Can he take knowledge, and expressiveness and impressiveness of speech and action, imbue with enthusiasm and give his students something that will not only be easy to grasp but also pleasant to master? Surely the athletic coach of today must measure up to rigid high standards in both education and essential manhood. Any profession so exacting and so demanding is being built upon the bed rock of education and must continue to grow and elevate itself to constantly higher places. 11

John D. Lawther, <u>Psychology</u> of <u>Coaching</u> (New Jersey: Prentice-Hall, Inc., 1951), p. 7.

Clifford Brownell, William Feiring, and Elmon Vernier, The Administration of Health Education and Physical Education (Philadelphia: W. B. Saunders Company, 1958), pp. 224-225.

Evaluation of the coach. An evaluation of the coach, by his players or by his fellow teachers can be quite helpful to him in improving his individual qualities and abilities and discover his weaknesses. "Often, the tendency exists to evaluate the coach almost entirely on the won and lost record in his sport." Below is an evaluation form for the purpose of permitting players to pass judgment on their coach.

Name of Coach:

Date:

Team or teams for which he has coached you:

The items were classified into two types: (1) the coaches personal qualities; (2) coaching skills and techniques.

The items under the coaches qualities include:
(1) cheerfulness; (2) common sense; (3) co-operativeness; (4) courage; (5) courteousness; (6) demanding
of respect; (7) efficiency; (8) emotional control;
(9) friendliness; (10) industriousness; (11) physical
appearance; (12) judgment; (13) orginality; (14)
initiative; (15) pride in work; (16) reasonableness;
(17) sense of humor; (18) self-confidence; (19) sympathy; (20) unselfishness; (21) voice.

The items listed under coaching skills include:
(1) ability to teach fundamentals; (2) ability to
demonstrate skill for most effective learning; (3)
ability to see and analyze players mistakes; (4)
ability to correct mistakes; (5) ability to get the
best out of players; (6) ability to work democratically with players; (7) ability to explain things to
players; (8) ability to stimulate good sportsmanship;
(9) ability to develop good team spirit; (10) ability

¹² John Friedrich, "Evaluating the Coach," Athletic Journal 33:42, January, 1953.

to develop leadership; (ll) ability to make players feel they belong; (l2) ability to make players feel important; (l3) ability to provide and maintain equipment; (l4) ability to instill self-confidence; (l5) ability to instill determination; (l6) ability to maintain discipline; (l7) ability to keep players interested; (l8) ability to evaluate different types of play; (l9) tries to help players develop values and morals; (20) helps with personal attention; (21) accepts suggestions and constructive criticisms.

For each item listed, three possible choices for the player to check were provided. Each choice was a statement relating to (a) excellent; (b) average; (c) very poor. The following scale was provided after each item with (a) appearing under 10, (b) appearing under 5, and (c) appearing under 0.

Scale:

The players selected 1 number for each trait in relation to their choice of (a), (b), or (c).

To be significantly high, average, or low, a trait should be marked accordingly by at least half of the group.

A numerical interpolation may be made by averaging the numbers checked for each item by the players making the rating. There were two or three other questions asking the opinion of the

^{13 &}lt;u>Tbid</u>., p. 45.

boys in how the coach might improve in these two categories, personal qualities and coaching techniques of the coach.

Qualities of the coach. These four qualities are attributes that Harry Rice looks for in a coach:

- He is first a teacher, then a coach. 1.
- He knows his coaching sport; his experience as a player and a coach is demonstrated by his leadership.
- His personality pervades the sport he coaches 3. and sustains an abiding interest by the staff, the students, and the community.
- His character is subscribed to in both playing the sport he coaches and the faculty he is a part of by the students, both contestants and spectators. 14

Rice also says that the philosophy of a good coach should be, "A game worth playing is worth winning fairly."15

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Harry Rice, "Qualities of a Coach," The Bulletin of the National Association of Secondary-School Principals, Vol. XLIII, December, 1959, p. 154.

^{15 &}lt;u>Ibid.</u>, p. 157.

CHAPTER III

PRESENTATION AND ANALYSIS OF DATA

The purpose of this chapter is to relate the sources of data and to present and analyze the data.

I. SOURCES OF DATA

The questionnaire method of acquiring data was employed in making this study. The questionnaire was sent to 694 high schools in Indiana. The names of the schools were obtained from the Indiana High School Athletic Association full membership list. Of the 694 questionnaires sent out, 351 were returned, a percentage of 50.6 questionnaires returned.

These data represent the number of coaches from each college, coaching football, basketball, baseball and track. Cross country, golf, swimming, tennis and wrestling are represented under miscellaneous as shown by the following table.

Table I indicates that the largest number of questionnaires were returned from coaches of the four state colleges:
(1) Ball State Teachers College; (2) Indiana State Teachers
College; (3) Indiana University; (4) Purdue. Also, the number
of coaches failing to return actual records is higher among
these same colleges. The number of coaches supplied by

Indiana High School Athletic Association, Bulletin No. 2, Vol. 56, October, 1959, Indianapolis, Indiana.

TABLE I

DISTRIBUTION OF COACHES RESPONDING TO THE QUESTIONNAIRE CLASSIFIED BY
COLLEGE, SPORT, AND TEAM LEVEL

		ន	port			No	Res	serve	Eler	nentary		
College	Foot- ball	Basket- ball	Base- ball		Misc.	rec.	Let- ter	Non- letter	Let- ter	Non- letter	Total	Per cent
Anderson Ball State Butler Canterbury DePauw Earlham Evansville Franklin Hanover Huntington Indiana Central Indiana State Indiana University Manchester Oakland City Notre Dame Purdue St. Joseph Taylor Valparaiso Wabash Out-of-State	1381262214972102138	348 12535795291572853643 43	1561227925730752262547 1561227925730752262547	1 24 10 41 25 44 57 99 13 61 85 12 30	26 12 31 146 72 84 93 55 24 11 52 30	56 31 37 12 13 16 52 16 74 92 56 72	31134257338672412 5541 125541	166 126 241 37 210 30 191 30 52 22 32	1	41 2 1 2 1 10 53 12 7 1 28	97 11 14 15 15 15 15 16 16 16 16 16 16 16 16 16 16	.70 17.40 1.5.40 2.5.96 1.8.99 1.8.99 1.00 1.5.29
Total	103	356	310	212	210	501	197	309	8	88	1793	99.9

out-of-state colleges is relatively high, comparatively speak-ing.

According to Table I, Ball State Teachers College has supplied 17 per cent of the 1793 Indiana coaches represented in this study. Indiana State Teachers College and out-of-state colleges have supplied 14.8 per cent and 13.9 per cent respectively. Indiana University and Purdue University have supplied 7.9 per cent and 8.4 per cent of the coaches respectively. Hence, coaches from the four state colleges and out-of-state colleges comprise 62 per cent of the Indiana coaches represented in this study.

Also, Table I indicates that the number of letter winners coaching the reserve or elementary teams is comparatively low in relation to the number of non-letter winners. It must be pointed out that the School City of Muncie returned complete data concerning their junior high and elementary coaches. Needless to say, Ball State Teachers College supplies a great majority of these coaches.

TI. PRESENTATION OF DATA

These data pertain to the following sports: (1) foot-ball, (2) basketball, (3) baseball, and (4) track. The minor sports including (1) cross country, (2) golf, (3) swimming, (4) tennis, and (5) wrestling, are grouped together under miscellaneous.

In presenting these data, the writer utilized the classification by size of the Indiana High School Athletic Association. The following is the classification according to size:

Classifi	catio	n ,	Enrollment
Class	I		1-75
Class	II		76-120
Class	III	•••	121-250
Class	IA		251-600
Class	V		600-above

Football. Data pertaining to football are presented in Tables II and III. The Tables list the colleges and the number of coaches from each college in the various class size schools. In addition, the Tables show life records and winning percentages for the coaches in each class size school. Table II pertains to the coaches that were letter winners and Table III relates to the non-letter winners.

For the purpose of making the analysis, unless there were at least five returns from a respective college that provided records, the writer did not consider the data as significant.

Tables II and III indicate that the letter winners from Butler have a better winning percentage than the non-letter winners. Indiana State and Indiana University letter winners

TABLE II

NUMBER, RECORD AND WINNING PERCENTAGES OF LETTER WINNERS COACHING FOOTBALL

IN INDIANA CLASSIFIED BY COLLEGE AND SCHOOL SIZE

	Nu	mber	рy		No						R	ecord	<u> </u>										•
가 생기들이 가지 것 1950년 시험하는 등 개		ass			rec-		I			<u>II</u>			III			IV			V	-		Tot	
College	I II	III	IV	V (ord	W	L	%	W	L	%	M	L	%	W	L	%	W	L	Z	W	L	%
nderson	41 asi		1												9	9	50.0				9	9	50.0
all State			4	7	2										149	45	76.8	252	289	46.6	401	334	54.6
ıtler	1		1	6							f				101	62	61.96	300	154	66.1	401	216	64.99
anterbury			1		1																	4.5	
Pauw			1												.5	11	31.3				5	11	31.3
rlham																			-				
ransville			2	3	1										37	24	60.7	41	24	63.1	78	48	61.9
anklin		1		1	1													23	14	62.2	23	14	62.2
nover			2												5	12	29.4		•	-	5	12	29.4
ntington																							, . ,
diana		A																					P.
Central			2												26	25	50.98				26	25	50.9
liana																-	,					-	
State	- 2	3	1	3								21	17	55.3	46	16	74.2	120	100	54.5	167	133	55.7
liana				-									•		•		• • •				•		
niversity			2	7	1													179	132	57.6	179	132	57。
chester	1	1	4	1	1				10	8	55.6				73	62	54.1	25	10	71.4	108	80	57
land															,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
City																							
tre Dame		1	1		1										58	30	65.9				58	30	65。
due			2	6	1										3	5	37.5	77	119	39.3			39
Joseph			1	1	1										35	14	71.4	ì	7	12.5	36	21	63.
or i								•								,-			•		-	_	
Lparaiso				1														0	10	0.0	0	10	0.
ash		1	1	1								1	8	11.1	84	35	70.6	30	15	66.6	115	58	66,
-of-										*				,				•					•
State	 	1	9	4	1							21	8	72.4	114	98	53.8	90	33	73.2	225	139	61.
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TABLE III

NUMBER, RECORD AND WINNING PERCENTAGES OF NON-LETTER WINNERS COACHING FOOTBALL
IN INDIANA CLASSIFIED BY COLLEGE AND SCHOOL SIZE

		Nu					No									Recor				y-12	·	-	-			**	~	
	Carlot St.	cla					rec-			I				II			III			IA			V			Tot	al	
College	I	II	II	I	IV	V	ord	W	1	L	9/)	W	L	%	W	L	%	W	L	%	W	L	%	W	L	%	-
A : : : : : : : : : : : : : : : : : : :		- 13) }					11		1	***																	
Anderson	 	- 14 57	:			_	2										1.											
Ball State	57	1	,	157 150		2	2			3.1			42	102	38.9										65	102	38 . 9	
Butler		1				4) 13	\		er .	10			05	エした	2007	137					191				ری		J O # 7	
Canterbury				**	7	्य ११		-										•	34	22	60.7				34	22	60.7	
DePauw Earlham		. 1 S	1	100	1		S.					7.							24	24	00.7				24	22	OU _e /	
				V.	٦.	1	7			5.5																		
Evansville		17	-	-3.1	1	7	1											·					. *					
Franklin							·			43																		
Hanover	-11							2.																	* *			
Huntington Indiana	45		i.	9			1.7																				-9	
Central							Ť			£	:	æ						. ••			-						** .	
Indiana	4	3.4					1.9																				1.	
State	4.5	_		497 175	2		ĵ) -						~	7.0	3 (P7		20	07.1	da	60	r/ a				ÖT	05	ido	
Indiana		2	2		3		1						2	10	16.7	6	22	21.4	83	63	56.8				91	95	48.9	
				1	2															7.0	12 0				14	23.6	12 0	
University Manchester		P	e e		Z			4.											14	18	43.8				74	70	43.8	
Manchester Oakland				2			2.5																					
	Ž.,	1					1																					
City Notre Dame				1.5			<u> </u>	*																				
Notre Dame Purdue					2		2																					
				-	2		2																					
St. Joseph																												
Taylor		5.3					-																					
Valparaiso			-	- 47							1. 1															-		
Wabash Out-of-																												
State	7				. 7	7	2		 Da	,	10.0					^	7.0	· / ·								e 1/	22.0	d.
State	1	***	1	•	1	1	2	3	ß.,	4	42.9	,		A		2	12	16.7							٠.	2 '10	23.8)
- (-				 -											***													-
Total		~																							20	9 253	45.2	2

have a slight edge on the non-letter winners relative to the winning percentage. Also, the out-of-state letter winners have a better winning percentage than the non-letter winners.

On the other hand, the DePauw letter winners do not have as great a winning percentage as the non-letter winners.

It must be pointed out that the most significant data relating to winning percentages are in favor of the letter winners in football. This may be a result of the fact that the largest percentage of returns were from letter winners.

Basketball. Data relating to basketball are presented in Tables IV and V. The Tables show the distribution of coaches from each respective college and the sport that they are coaching. Life records and winning percentages are shown. These data are sighted on the basis of class size of high school. Table IV relates to the letter winners and Table V pertains to the non-letter winners in basketball.

In comparing the letter winners with the non-letter winners of Ball State, Butler, Canterbury, Manchester, Oakland City and out-of-state colleges relative to winning percentages, the range is very narrow with the letter winners having the higher winning percentage.

On the other hand, the non-letter winners of Evansville, Franklin, Indiana and Valparaiso have a higher winning percentage than the letter winners of those colleges.

TABLE IV

NUMBER, RECORD AND WINNING PERCENTAGES OF LETTER WINNERS COACHING BASKETBALL

IN INDIANA CLASSIFIED BY COLLEGE AND SCHOOL SIZE

		Nun	ber	by	No						R	ecord											
				ize	rec-		I			II			III	· · · · · · · · · · · · · · · · · · ·		IA			<u> 7</u>			Tot	
College	I	II	III	IV V	ord	W	L	%	W	L_	%	W	L	%	W	L	%	W	L	%	M	L .	%
Inderson	1				1										2	3	40.0				2	3	40.0
Ball State 1	14	2	5	12	2	79	77	50.6	29	38	43.3	94	98	48.95	219	39	84.9	250	163	60.5	671	415	61.8
Butler	2	2	4	5 7	7	8	15	34.8	269	382	43.8	243	93	72.3	435	211	67.3	324	196	62.0	1270	807	61.1
anterbury	1.0	3	1	21	1				199	74	72.1	280	165	71.55	420	250	62.7	300	111	73.0	1199	600	66.6
ePauw		-	1	12								55	50	52.4	39	51	43.3	416	241	63.3	510	342	59.9
Carlham			2	ı	1							83	62	57.2	44	10	81.5	•	•		121	72	63.8
Evansville	1	2	1		2	65	21	75.6	34	104	24.6		4						-		99	125	44.2
ranklin	1		3	11	1	12	24	33.3		•	• •	119	86	58.0	52	44	54.2	151	72	67.7	334	•	59.6
lanover	7	1	6	51	2		,		25	59	29.8	536	281	65.6		196	61.4			- 1 - 1	873	536	61.9
	1	1	3	-		17	30	36.2	21	21	50.0	208	91	69.6								142	63.4
Indiana	_	_						2 - 4		_		-	,-	-, -							,		-50.1
Central	8	1:	3	13	-	1.	3	25.0	53	49	51.96	. 7	15	31.8	430	120	78,2				497	187	72.4
Indiana		_	-			_		~		47	,_0,-	•		<i></i>			, - 4						(
State	erge.	2	9	9 5	3		1		106	101	51.2	804	648	55.4	1003	1258	المال	732	362	66.9	2645	2369	52.8
ndiana			•	, ,							7_0			774- 4			7.75-7	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , ,	,			, , ,
University	9	3	2	45	3	1.2			52	45	53.6	68	69	49.6	187	111	62.75	597	284	67.8	2058	509	80,2
fanchester		6	3	Ťí						249	52.4	268	87	75.5			0.2017		102	66.4	-	411	64.4
akland		-							~,~		/~0-	~~~	٠,	1707				~~~		0007	1 '7'-7	-7	
City	*	4	- 3.	11	1	J-5.			452	369	55.05	250	187	57.2	120	75	61.5				822	531	60.8
	1		-		-				42~	207)) (0)	~,0	201	216~		17	0207	260	104	71.4		104	71.4
urdue	2	3	3	2 2	2	24	4	85.7	12	10	54.5	67	34	66.3	241	38	86.4		196	60.9		282	69.7
	ĩ	1	í	$\tilde{1}$ $\tilde{1}$	ĩ	30	35	46.15	13	7	65.0	71	38	65.1	87	50	63.5			0047		130	60.7
aylor	_	_		ī	-) ·		40847			0)80)	U) 6 11	12	12	50.0				12	-	50.0
•	2	1		2		81	88	47.9	11	10	52.4				مد		JU.8 U	117	108	52.8	209		50.4
labash	~		1.	~	1	O.L.	50	710/		±0	1~04							-ll- {	700	J~80	~0 /	. ~~~	JU 844
out-of-			-		.1.			•															
	3	4	13	9.9	7	87	55	61.3	189	137	58.0	270	498	63.8.	610	21 <i>\$</i>	73.7	1, 57	317	58.7	2216	1225	64.4
2 3000).	~	رب	<i>'</i>	ŧ.	01	"	CEEC	107	١٧٠	الون ا	017	470	،ی ورت	OTO	~	1701	471	ノエー	ا والر	~~	رنممد	V404
otal			~			i						····	·	lo - de 11- de 10- Au							7/00		62.9

TABLE V

NUMBER, RECORD AND WINNING PERCENTAGES OF NON-LETTER WINNERS COACHING BASKETBALL
IN INDIANA CLASSIFIED BY COLLEGE AND SCHOOL SIZE

	1.45		iber by	No	<u> </u>		***************************************			R	ecor									2.7		_
	ing.	cla	ss size	rec-		I	-		II			III			IA			V		-	Tot	
College	I	<u>II</u>	III IV V	ord	W	L	%	W	L	K	W	_L_	%	W	L	%	W	L_	%	M	_L	%
Anderson	 ;≠å:		13 8		- 15 h	1.5		- 1			10	18	35.7							10	18	35.7
Ball State	6	9	8 52	2	293	226	56.5	95	104	47.7	521		60.7	748	346	68.4	105	98	51.7		1105	61.5
Butler	Ţ.	5	Í	. 1		- 137 T			198	52.5	64		57.7				28	31	47.5	311	276	52.9
Canterbury	5			ī	*6,	-			298	65.7		•••						•		570	298	65.7
DePauw		1.2 4.4	1	T.J	1- 1-2	Terr											6	16	27.3	6		27.3
Earlham	- 19 19 km	i a -			1967 1967 1967	-	N.*														• -	. 1
Evansville		3.7	1 2	· A							60	51	54.1	6				,		60	51	54.1
Franklin	194 : 198	• 0	1	و ا	22									137	81	62.8				137	81	62.8
Hanover	1	4.5	3	î	5	0	100.0		3.		139	145	48.9	-							145	49.8
Huntington	ं,	1. ju		-)	sal.							4.									
Indiana	473	150		e de la companya de l		Ç.													. *			
Central	1		3	1	2	1	66.6				105	73	55.9			1.				107	74	59.1
Indiana	5	. 57			- 4																	
State	9	12	5 6 2	4	144	222	39.3	532	302	63.8	254	195	56.6	439	277	61.3	303	153	66.4	1672	1149	59.3
Indiana		1		1.4	e di i	**.			-					-	, ,			-	1 1			
University	2	5	7 3	3	55	19	74.3	78	138	36.1	549	403	57.7	305	167	64.6				987	727	57.9
Manchester	1	1	2 1		156	72	68.4	2		8.3	,				•							62.7
Oakland		i	1 : 1411 - 1441 전략	. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.						_												
City	3	4	1 4	2	23	10	69.7	56	30	65.1	6	23	20.7							85	63	57.4
Notre Dame		1.7	i i						•			_	- •				14	10	58.3	14	10	58.3
Purdue	5	6	2 2 1	. 7	16	13	55.2	270	166	61.9	11	16	40.7	. 8	17	32.0	47	92	33.8	352	304	53.7
St. Joseph		· S	- 5 ⁴					•					, ,									
Taylor	1	Ö	1		16	23	41.0							73	57	56.2				89	80	52.7
Valparaiso	1	1.3	\$10 10 1	1,7	14	8	63.6									•			<u>.</u>	14	8	63.6
Wabash		1	11	. 1				18	21	46,2				106	52	67.1				124		62.9
Out-of-			*												-	•				•	• -	
State	1	2	11	. 2	. 1	7	12.5		,					34	29	53.96	116	91	56.0	151	127	54.3
		, ÷							. 4				•	- '	•							
Total		:Q			7					er en		·				en e				6753	4699	58,5

The most significant difference in terms of winning, percentages in basketball is the letter winners of Indiana University, Notre Dame and Purdue having a higher percentage than the non-letter winners.

Again, unless five coaches from a respective college returned records the data were not considered significant.

Baseball. Baseball data are presented in Tables VI and VII. The number of coaches from the respective colleges are shown in terms of class size of high school where the respective coaches are coaching. Also, the records and winning percentages of the coaches of the various colleges are presented relative to class size of high school. The data of the letter winners are shown in Table VI and the non-letter winners are presented in Table VII.

In analyzing the baseball data, unless five coaches of each respective college returned records, the data were not considered significant.

Comparatively speaking the letter winners of Indiana State, Undiana University, Manchester, Purdue and out-of-state colleges have a slightly better winning percentage than the non-letter winners of the respective colleges.

Ball State, Butler, Indiana Central and Oakland City letter winners do not have as high a winning as the non-letter winners from those respective colleges.

TABLE VI

NUMBER, RECORD AND WINNING PERCENTAGES OF LETTER WINNERS COACHING BASEBALL

IN INDIANA CLASSIFIED BY COLLEGE AND SCHOOL SIZE

	4.7	Nw	nbe:	r by	_	No						R	ecord	<u> </u>										
	-	cl	ass	size	e	rec-		I			II			III			IV			V			Tot	al
College	Ī	ΙI	II	IV	V	ord	W	L	%	M	L	Z,	W	L	%	W	L	%	W	L	%	W	L	%.
Anderson				1		1																		
Ball State	1	5	3	1	2	3	10	10	50.0	22	27	44.9	15	11	57.7	r r						47	48	55.3
Butler	1	2		2		1	3	8	27.3		119	38.97				152	49	75.6	305	117	72.3	536		60.2
Canterbury		4	1		2	2			., .,	137	66	67.5	151	29	83.9		• •	,,,,	99	35	73.9	387	130	75.8
DePauw			_	27.		7						-149			-247			d.	,,		1207	J -1		1,740
Carlham				2												27	13	67.5				27	13	67.5
Svansville	16	٦,	1	. ~	2	2	.)		11.7			, ,	7	6	53.8	71	الي عداد	0107	13	14	48.1	20	20	50.0
ranklin		-	3	3	ĩ				* * * * * * * * * * * * * * * * * * * *				66	41	61.7					ماحوث	4002	66	41	61.7
lanover	7		5	í		5 2	6	7	85.7				54	29	65.1	17	8	68.0		*		77	38	66.9
untington	ī	7	3	وطء		~	40	16	71.4	11	13	45.8	217	44	83.1	- (U	00.0				268	69	79.5
ndiana	-	مگب)				40	TO	1704	بطبيقه	رب	4700	~	rirt	ــــــــــــــــــــــــــــــــــــــ							200	07	(76)
Central	ij.	7	<u>L</u>	2	ר	7		1,1		6	Ω	100.0	46	29	61.3	338	253	57.5	15	.5	75.0	1.05	287	58.5
ndiana	144	-	4	~				*	APRIL TO LANCE	0	•	700.0	40	27	رهد	טככ	زرم	7107	ريد		1.700	40)	201	رودر
State	1	1	3	.3	3	3		4 (8)	ar s				38	28	57.6	227	118	65.8	402	88	82.0	667	334	66.6
ndiana	* .	-	ي ي		ر)							٥ر	20	7/30	221	110	٥٥٥٥	402		0240	007	224	00.0
University	-^	1	2	2	3	4				17	8	68.0	0	2	0.0	1.6	7 /	92.0	7.07	110	69 E	251	101	4= =
anchester	i i	5	3	2	ر چ	î										46	14		TAT	TIO	63.5		134	65.5
akland	<- -)	~	- ch-	4			10.0	230	94	70.95	78	32	75.4	60	47	56.1				388	173	69.2
	1	•		_		2				1:0	04	ra a	057	٦.~	/ 1	7.50	770	~/ 0				000	7/1	rr 0
City	- 3	3	3	2		2				40	28	58.8	27	17	61.4	153	119	56.3				220	164	57.3
otre Dame	٠,	٠,			, a	~	- ~		do 05		0.5	/0.0				~-	-~	40 7	07/		00.8	010		45.0
urdue	1	2	4	5		3	17	14	80.95	39	25	60.9				71	17	80.7	216	17	92.7	343	59	85.3
t. Joseph	1				1	*	15	18	45.5		- 1								46	28	62.2	61	46	57.0
aylor	0.14		1				00	د يو					71	31	69.6							71	31	69.6
alparaiso	2					_	22	18	55.0											3 ,	4.5	22		55.0
abash		ŧ.			2	1													145	61	70.4	145	61	70.4
ut-of-	_				•		1 1									_		_				,		
State	1	3	8	4	6	7	29	18	61.7	2	6	25.0	222	125	72.9.	76	44	63.3	135	112	54.5	459	261	63.8
otal							7					•				· territy		·				1140	0003	66.2

TABLE VII

NUMBER, RECORD AND WINNING PERCENTAGES OF NON-LETTER WINNERS COACHING BASEBALL
IN INDIANA CLASSIFIED BY COLLEGE AND SCHOOL SIZE

	N	umbe	r by	No			4. 1			F	lecord											
			size	rec		I			II			III			IV			A			Tot	al-
College	II	I II	I IV V	ord	M	L	%	W	L_	%	W	L	%	M	L	%	W	L	%	M	L	%
Anderson			2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Service Control of the Control of th	Section 1	1,3		71.	1							ı						
Ball State	6 '	7 8	8 4	5	12	1 92	56.8	94	72	56.6	17	44	69,8	116	63	64.8	162	160	50.3	664	461	59.3
Butler		2 3	1 i			9 1	90.0				31	35	49.96		-		25	3	89.3	65	39	62.5
Canterbury		3 1	-	2				85	59	59.0										85	59	59.0
DePauw		5	2	1		13			• •	- , -				15	3	83.3				15	. <u>.</u> 3	83.3
Earlham	34			,			*								-						. , .	
Evansville	1 3			1		7 7	50.0	16	14	53.3				. 8						23	21	52.3
ranklin	\$49	2 5		2																		
lanover -	2008 2007 2018 2018 2018 2018 2018	5		, 1							67	56	54.5					,		67	56	540!
Iuntington		· Proje		2.70				-														
Indiana		7		**																		
Central	3 :	L 1	3 1	1	2/	4 20	54.5				26	8	76.5	80	56	58.8	22	19	53.7	152	103	59.6
Indiana 💍			٠					_							•							
State	6 1	. 7	63	_ 6	70	55	56.0	361	140	42.5	128	66	65.97	150	86	63.6	71	61	53.8	780	408	65.7
ındlana		_	_	4												**					•	
University			1	3				36	26	58.1	120	48	71.4				44	44	50.0	200		62.9
Manchester	2 3	3 2		g. 2	12	+ 11	56.0	21	32	39.6	64	23	73.6			-				99	66	60.0
akland o	A 1. 2	. 19		_	-		/															
City	3 2	2]	1	1	16	5 10	61.5	33	15	68 . 8	2	0	100.0							51	25	67.1
lotre Dame Purdue		,	2					~/	~~	50 1			/ as as				167	95	63.7	167	95	63.7
t. Joseph	4 3		11	5				76	52	59.4	49	23	68.1	69	28	71.1	48	15	76,2	242	118	67.2
aylor		1	1	ر	٠,		22.6	23	18	60.5	17	16	51.5							40	34	54.1
		- 17 第	7		10	•	66.6	10	C.	ra a							٥/	۰.		8	.4	66.6
arpararso labash		• 4/4/5 1/4/5	1 1		T	5	66.6	10 19	7	58.8							26	35	42.6	46	47	49.
ut-of-		•	J.				, e - e 2	TA	11	63.3							129	88	59.4	148	99	59.5
State	3 2	3	7 4	6		5 31	13.9				רציז	20	771 0	OP7	07	ra /	20/	331	/ i :	200	0/1	F.A
		· :);	(4			<u>ـ ۲</u>	エンロブ				71	29	71.0	97	91	51.6	200	114	64.4	378	205	58,8
otal	jā,		-	-	Marinetta de la constitución de)								112 - In		-					, , , , , , , , , , , , , , , , , , , 	
OrdT				•																3230	2021	61,

7.7

Purdue and Manchester have the most significant difference in winning percentages relative to letter winners and
non-letter winners with letter winners having the higher percentage.

Track. Data relating to track are presented in Tables
VIII and IX. The Tables list the colleges and number of coaches
by class size of high school. The record and winning percentage is likewise presented according to class size of high
school. Table VIII pertains to the letter winners and Table
IX relates to non-letter winners.

In analyzing Tables VIII and IX the out-of-state letter winners have a much higher winning percentage than the non-letter winners.

The greatest number of returns were received from the non-letter winners, however, neither the letter winners nor the non-letter winners returned actual records to the extent that they were considered significant. This is especially applicable to the letter winners of the Indiana Colleges.

Miscellaneous. Table X presents data pertaining to (1) cross country, (2) golf, (3) swimming, (4) tennis, and (5) wrestling.

The number of coaches from the Indiana Colleges and out-of-state colleges is shown relative to letter winners and non-letter winners. Also, the number of coaches, letter and

TABLE VIII

NUMBER, RECORD AND WINNING PERCENTAGES OF LETTER WINNERS COACHING TRACK
IN INDIANA CLASSIFIED BY COLLEGE AND SCHOOL SIZE

के हिल्लाक प्रकारिक हो। विश्वपृत्ति , १९१९ - १०००		Nur	nber	by		No						$ m R\epsilon$	cord											
		cla	185	size	_ r	ec-	170.00	I			II			III			IA			V			Tot	al
College	I	II	III	IV	<u></u> ∇ c	ord	W	L_	%	W	L	%	W	L	%	W	L	%	W	L	%	W	L	%
Anderson				100 1 1 1		4.																		
Ball State		1	1		2	4	2.4	: 6					48	22	68.6							48	22	68.6
Butler		11		2	1	2													9	8	52.94	9	8	52.9
Canterbury		2		1	1	2				•									140	20	87.5	140	20	87.5
DePauw				1		1																		
Earlham			1	•	1	1													24	4	85.7	24	4	85.7
Evansville				1	1	2										€								- , -
Franklin				- (2	1													36	4	90.0	36	4	90.0
Hanover			2	3		1							20	24	45.5	16	14	53.3	-	, ,		36	38	48.6
Huntington		1:		_				- 1														_	-	, -
Indiana	47																							
Central		1		2 :	1	2				4	9	30.8							5	1	83.3	9	10	47.4
Indiana	- "									•	•				•				-			•		
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Wabash					1														14	3	23.5	14	3	23.5
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Total		. 3					7	- Proper													Probable and probable	080	300	71.5

TABLE IX NUMBER, RECORD AND WINNING PERCENTAGES OF NON-LETTER WINNERS COACHING TRACK IN INDIANA CLASSIFIED BY COLLEGE AND SCHOOL SIZE

	1	Tum	ber	by	1	No	4-0-0					R	ecord											
				size		rec-	-	I		-	II			III			IV			V			Tot	the second second second
College	I	[]	III	IA	V	ord	W	L	%	W	L	%	W	L	%	M	L	%	W	L	%	W	L	%
								19 E			-31-												* -:	
Anderson		121	13	_1_	_	1	6 - 24					1					_		_	_	~ ~			
Ball State	4	7	5	2			27	14	65.9	17	18	48.6	30	30	50.0	4	3	57.1	2	-	28.6	80	70	53.3
dutler		3	2	1	1	3				23	10	69.7	64	14	82.1				66	4	94.3	153	28	84.5
anterbury			공왕:	1		1																		**
ePauw						-																	4 ,	
arlham	. 19 V 41.	ana:														ž.			_					
Evansville			<i>U</i>	2	1	2										•			3	12	20.0	3	12	20.0
ranklin			1	1		2																		
lanover	1		4	3	1	4							53	28	65.1	25	25	50.0	15	2	88.2	93	55	62.8
luntington	1	1	3			1	10	4	71.4				77	20	79.4							87	24	78.4
ndiana						_																		
Central	1	Sie	1	1		2									-	27	66	29.0				27	66	29.0
ndiana			42	100	_				•											_ ,	a		_ / _	
State	5	9	8	පි	3	15	41	33	55.4	93	42	68,9	21	17	55。3	76	53	58.9	70	16	81.4	301	161	65.2
ndiana	413. A			nad -																				
University	Section 1	3	4	3	7	3				11	22	33.3	48	10	82.8	80	80	50.0	364	111	76.6		223	69.3
Sanchester	1	1	-5	1	1	. 3	28	10	75.7	2	3	40.0	94	64	59.5	72	40	64.3				196	117	62,6
akland		i de la											_											·
City	2		4			5							8	11	42.1							8	11	42.1
Votre Dame		<u>@</u> 6			_	,													,	_				
urdue	4	2	3	2		6	4	4	50.0				26	26	50.0	14	7	66.6	6	7	46.2	50		53.2
st. Joseph	2	3 =	N, S	2	1	4	- 3	19	13.6							-						3	19	13.6
'aylor	500 ·			1		1									,									
alparaiso	1	<u> 11</u> .	. j ĝ	5	1		30	12	71.4										20	4	83.3	50	16	75.8
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otal	ng garanan Ingga Kapitan na	- 7 - 16 - 7 -	4 - 2 - 1		100	ar en																1616	ดาล	63.7

TABLE X

NUMBER OF LETTER WINNERS AND NON-LETTER WINNERS COACHING MINOR SPORTS

IN INDIANA CLASSIFIED BY COLLEGES

		L	etter	Winners		***	Non-1	Letter	Winner	3	
College	Cross		Swim- ming		Wres- tling	Cross country	Golf	Swim- ming		Wres- tling	
Anderson Ball State Butler Canterbury DePauw Earlham Evansville Franklin Hanover Huntington Indiana Central Indiana State Indiana University Manchester Oakland City Notre Dame	1 1 3 2 5 1 2			1 1	1 2	17 4 1 2 2 1 13 6 1 2	4 13 13 11 24 2	<i>L</i> ,	5 2 1 1 8 4 1 1 2	3 3 2 1 3 2	26 12 31 46 17 28 34 17 35 6
Purdue St. Joseph Taylor Valparaiso Wabash Out-of-State	1	2 2	2	2	4 5	8 3 17	1 2 1 6	1	2 5	3	24 1 5 2 33
Total	17	7	4	4	12	67	37	8	33	24	213

non-letter winners, is distributed into the respective sports.

It must be pointed out that unless a college has five coaches distributed among these sports the data were not considered significant.

According to Table X, Ball State, Butler, Indiana State, Indiana University, Purdue and out-of-state colleges, perhaps, have the most coaches coaching these five sports. It is also significant to note that the majority of these coaches are non-letter winners in the sport that they are coaching.

The remaining colleges, likewise, have more non-letter winners than letter winners coaching these sports, according to Table X.

It is interesting to note that cross country is the only sport that has coaches distributed among all classifications of high schools. Golf, swimming, tennis and wrestling coaches are distributed among high schools classified II through V. Classification IV and V, perhaps, have the larger percentage of these coaches.

TIT. SIMMARY

of and presented the data found in making this study.

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It was mentioned that the questionnaire method of sampling was employed in making this study. The percentage of returns was 50.6. Of the 694 questionnaires sent out 351

were returned.

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The writer has presented these data in tabular form with a brief description preceding the table and an analysis following each table.

The tables list the colleges and show the distribution of coaches from these colleges according to the class size of the high school where the coaches are coaching. In classifying the high schools, the Indiana High School Athletic Association classification of school by size was used. Data in this chapter pertained to the following sports: (1) football; (2) basketball; (3) baseball; (4) track; (5) cross country; (6) golf; (7) swimming; (8) tennis; (9) wrestling.

The major findings indicated that the coaches from the four state colleges; (1) Ball State Teachers College, (2) Indiana State Teachers College, (3) Indiana University, (4) Purdue University; and the out-of-state colleges returned the largest numbers of questionnaires. The total number of coaches represented in this study were 1793.

In relation to the total winning percentages in the four major sports, it was found that the letter winners in football have a winning percentage of 57.9 as compared to a 45.2 winning percentage of the non-letter winners.

The basketball coaches who were letter winners have a winning percentage of 62.9 as compared to the non-letter winners winning percentage of 58.96.

The baseball coaches who were letter winners have a winning percentage of 66.2 and the non-letter winners have a winning percentage of 61.9.

In relation to the track coaches winning percentages, the letter winners have a 71.5 winning percentage as compared to a 63.7 winning percentage of the non-letter winners.

The total number of coaches, coaching minor sports, represented in this study are 213. The four state colleges and out-of-state colleges supply the majority of these coaches.

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CHAPTER IV

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Summary. It was the purpose of this study (1) to compare the relative success of college letter men with that of non-letter men in coaching in Indiana High Schools; (2) to compare the success of Indiana State Teachers College graduates to men graduated from other colleges; (3) to determine the percentage of Indiana coaches supplied by each Indiana College and out-of-state colleges; and (4) to show the number and grade level that athletic coaches are employed in Indiana schools.

The questionnaire method of sampling was employed to obtain data for the problem. The questionnaire, endeavoring to secure information concerning the coaching staff relative to factors affecting success, was sent to 694 high school principals in Indiana. The percentage of returns was 50.6. The following sports were included in the study: (1) football, (2) basketball, (3) baseball, (4) track, (5) cross country,

(6) golf, (7) swimming, (8) tennis, and (9) wrestling.

It was found that there has been no research directly related to this study. Studies indirectly related and other related literature were referred to in making this study.

The writer presented the data for each sport in tabular form with a brief description preceding the table and an

analysis following each table. The tables list the colleges and show the distribution of coaches according to the class size of high school. The Indiana High School Athletic Association classification of school by size was utilized in classifying the high schools. The tables showed the life record and winning percentage of the high school coaches represented in this study. Also, the distribution of coaches at the reserve and elementary teams is comparatively low in relation to the number of non-letter winners.

To summarize the major findings, this study represents 1793 coaches in Indiana schools. Of the 1191 high school coaches represented, 501 did not return a record. Of the other 602 coaches, 506 were varsity reserve and freshmen coaches and 96 were elementary coaches.

In regard to the data presented in this study Ball
State Teachers College has supplied 17 per cent of the coaches.
Indiana State Teachers College has supplied 14.8 per cent and the out-of-state colleges account for 13.9 per cent of the coaches represented in this study. Purdue University and Indiana University have supplied 8.4 per cent and 7.9 per cent, respectively. In relation to the smaller colleges in Indiana, Butler, Manchester and Indiana Central have supplied 5.4 per cent, 4.96 per cent, and 4.2 per cent of the coaches represented in this study, respectively. Anderson, Canterbury, DePauw, Earlham, Evansville, Franklin, Hanover, Huntington,

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Oakland City, Notre Dame, St. Joseph, Taylor, Valparaiso and, Wabash account for the other 23.3 per cent of the coaches represented in this study.

For the purpose of analyzing the data, unless there were at least 5 returns from a respective college that provided records, the writer did not consider the data significant.

In relation to football, the most significant data collected were in relation to letter winners. However, the Butler, Indiana State, Indiana University and out-of-state letter winners have a better winning percentage than the non-letter winners from those colleges. With regard to the total winning percentages in football, the letter winners have a 57.9 winning percentage as compared to a 45.2 winning percentage of the non-letter winners.

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Data pertaining to basketball is more extensive than football. It was found that the letter winners of Ball State, Butler, Canterbury, Indiana, Manchester, Notre Dame, Oakland City and Purdue have a higher winning percentage than the non-letter winners.

Non-letter winners of Franklin, Indiana State and Val- .

paraiso have a higher winning percentage than the letter

winners from those colleges.

The basketball coaches who were letter winners, have a winning percentage of 62.9 as compared to the non-letter

winners winning percentage of 58.96.

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The quantity of data considered significant in base-ball is not as great as in basketball due to small quantity of record returned. However, comparatively speaking, the letter winners of Indiana State, Indiana University, Manchester, Purdue and out-of-state colleges have a better winning percentage than the non-letter winners.

The non-letter winners in baseball have a higher winning percentage than the letter winners from Ball State, Butler, Indiana Central and Oakland City.

The baseball coaches who were letter winners have a winning percentage of 66.2 and the non-letter winners have a winning percentage of 61.9.

In relation to track, the coaches who were non-letter winners from Indiana colleges have the advantage in number of returns, but, neither the letter winners nor the non-letter winners returned actual records to the extent that they could be considered significant in this study.

However, the letter winners from out-of-state colleges have a higher winning percentage than the non-letter winners who are coaching track in Indiana high schools.

With regard to the records that were returned, in track, the letter winners have a total winning percentage of 71.5 as compared to a winning percentage of 63.7 of the non-letter winners.

Finally, the data relative to the minor sports were presented. The four state colleges and out-of-state colleges have supplied the majority of these coaches. It should be pointed out that the majority of these coaches were non-letter winners in college.

Also, the other Indiana colleges have more non-letter winners than letter winners coaching the minor sports.

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Cross country is the only sport that has coaches distributed among all classifications of high school. Golf, swimming, tennis and wrestling coaches are distributed among high schools classified II through V. The largest percentage of these coaches are coaching in high schools classified IV and V.

Conclusions. The following conclusions were based on 351 returns out of possible 694:

- 1. In football, the letter winners having a winning percentage of 57.9 are more successful in coaching football than non-letter winners who have a winning percentage of 45.2.
- 2. In basketball, the letter winners have a winning percentage of 62.9 as compared to a 58.96 winning percentage of non-letter winners coaching basketball. Therefore, the letter winners are more successful.
- 3. The letter winners in baseball with a winning percentage of 66.2 are more successful in coaching baseball in

high school than non-letter winners who have a winning percentage of 61.9.

- 4. Likewise in track, the letters with a winning percentage of 71.5 are more successful in coaching track in high school than non-letter winners who have a winning percentage of 63.7.
- 5. Letter winners graduated from Indiana State are more successful in coaching football in Indiana high schools than letter winners from Anderson, Ball State, DePauw, Hanover, Indiana Central, Purdue and Valparaiso.
- 6. Letter winners graduated from Butler, Evansville, Franklin, Indiana University, Manchester, Notre Dame, St. Joseph, Wabash and out-of-state colleges are more successful in coaching football in Indiana high schools than letter winners graduated from Indiana State.
- 7. Non-letter winners graduated from Indiana State are more successful in coaching football in Indiana high schools than non-letter winners graduated from Butler, Indiana University, and out-of-state colleges.

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- 8. DePauw graduates who are non-letter winners are more successful in coaching football in Indiana high schools than non-letter graduates from Indiana State.
- 9. Indiana State letter winners are more successful in coaching basketball in Indiana high schools than letter winners graduated from Anderson, Evansville, Taylor and

Valparaiso.

- 10. Letter winners graduated from Ball State, Butler, Canterbury, DePauw, Earlham, Franklin, Hanover, Huntington, Indiana Central, Indiana University, Manchester, Oakland City, Notre Dame, Purdue, St. Joseph and out-of-state colleges are more successful in coaching basketball in Indiana high schools than letter winners graduated from Indiana State.
- are more successful in coaching basketball in Indiana high schools than non-letter winners graduated from Anderson, Butler, DePauw, Evansville, Hanover, Indiana Central, Indiana University, Oakland City, Notre Dame, Purdue, Taylor and out-of-state colleges.
- 12. Non-letter winners graduated from Ball State,
 Canterbury, Franklin, Manchester, Valparaiso and Wabash are
 more successful in coaching basketball in Indiana high schools
 than non-letter winners graduated from Indiana State.
- 13. Indiana State graduates who were letter winners are more successful in coaching baseball in Indiana high schools than letter winners who graduated from Ball State, Butler, Evansville, Franklin, Indiana Central, Indiana University, Oakland City, St. Joseph, Valparaiso and out-of-state.
- 14. Letter winners graduated from Canterbury, Earlham, Hanover, Huntington, Manchester, Purdue, Taylor, and Wabash

are more successful in coaching baseball in Indiana high schools than letter winners graduated from Indiana State.

- are more successful in coaching baseball in Indiana high schools than non-letter winners graduated from Ball State, Butler, Canterbury, Evansville, Hanover, Indiana Central, Indiana University, Manchester, Notre Dame, St. Joseph, Wabash and out-of-state colleges.
- 16. Non-letter winners graduated from DePauw, Oakland City, Purdue and Taylor are more successful in coaching base-ball than non-letter winners graduated from Indiana State.
- 17. Indiana State graduates who were letter winners are more successful in coaching track than letter winners graduated from Ball State, Butler, Hanover, Indiana Central, Manchester, Purdue and Wabash.
- 18. Letter winners graduated from Canterbury, Earlham, Franklin and out-of-state colleges are more successful than letter winners graduated from Indiana State.
- 19. Indiana State graduates who were non-letter winners are more successful in coaching track in Indiana high schools than non-letter winner graduates from Ball State, Evansville, Hanover, Indiana Central, Manchester, Oakland City, Purdue, St. Joseph, and out-of-state colleges.
- 20. Non-letter winners graduated from Butler, Huntington, Indiana University and Valparaiso are more successful in

coaching track in Indiana high schools than non-letter winner graduates from Indiana State.

- 21. Ball State supplies 305 or 17 per cent of the 1793 Indiana coaches represented in this study.
- 22. Of the 1793 Indiana coaches represented in this study, 265 or 14.8 per cent are supplied by Indiana State.
 - 23. Out-of-state colleges supply 250 or 13.9 per cent.
- 24. The four state colleges supply 862 or 48.1 per cent of the Indiana coaches represented in this study.
- 25. Of the 1793 coaches represented in this study, 506 or 28.2 per cent are coaching reserve or freshmen teams.
- 26. Ninety-seven or 5.3 per cent of these coaches are coaching the elementary level.
- 27. The majority of the coaches coaching minor sports were non-letter winners in college.
- 28. Eighty-four or 29.4 per cent of the 213 coaches coaching minor sports are cross country coaches.
- 29. The four state colleges supply the majority of the coaches coaching minor sports.
- 30. The majority of the football coaches represented in this study were from IV and V class size schools.
- 31. Winning a football letter in college is a major factor in employing varsity football coaches in high school.
- 32. The large high schools, probably, have a tendency to employ college letter winners as varsity high school coaches.

- 33. Unless a coach has been successful statistically, he probably does not remain in the profession for any length of time.
- 34. To really evaluate the relationship of participation and coaching, information concerning the coaches high school sports participation, as well as college participation, would be valuable.

Recommendations. The writer recognizes this study essentially as a survey and he relates the following recommendations as a follow up to this study:

1. The Indiana colleges might present service certificates to all graduates with twenty years or more in the coaching field; head, reserve, elementary or any combination of the same.

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- 2. Twenty year certificate winners, who did not win a letter as an undergraduate may be made an honorary member of the Alumni Letter Men's Association.
- 3. Sport century clubs and half century clubs may be formed and certificates be awarded head coaches who qualify with the sufficient number of wins.
 - 4. Century certificates could be given basketball.
- 5. Half century certificates could be awarded in all other sports beginning with fifty.
- 6. It might be well if this plan was progressive and coaches be awarded additional certificates as they qualified

for them.

- 7. The colleges might offer courses in each sport to compensate for the coaches who do not participate in varsity sports in college.
- 8. Finally, then, the present study indicates the need for further research relative to other factors contributing to success. The writer, recognizes this study as the beginning, and hopes that further study be directed toward the relative success of coaching high school athletes.

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APPENDIX

INDIANA STATE TEACHERS COLLEGE TERRE HAUTE, INDIANA

Dear Sir:

Each year at Indiana State we graduate approximately sixty men who have qualified for teaching and coaching.

Many of these men do not have sufficient athletic ability to maintain a position on an athletic squad and to earn a letter. The enclosed questionnaire is an attempt to evaluate the comparative success in coaching. The results will be used in planning our coaching courses at Indiana

We hope that you will feel our project is worthy of the imposition on your valuable time and will greatly appreciate you having the questionnaire completed and returned to

Sincerely yours,

John L. Longfellow Athletic Director

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BASKETBALL

Head Basketball Coach			
College			
Year graduated	Letters won in sport		
Years as head coach	Life record: Won Lost		
Second Team Basketball Coach			
College	TOTAL TO A STATE OF THE STATE O		
No.	Letters won in sport		
Years as head coach	Life record as head coach:		
	Won Lost		
Freshman Basketball Coach			
College			
Year graduated	Letters won in sport		
Years as head coach	Life record as head coach:		
	Won Lost		
Junior High Basketball Coach			
College			
Year graduated	Letters won in sport		
Years as head coach	Life record as head coach:		
	Won Lost		
Grade school basketball coaches: No. lettering in sport			
	College		
· Name and the same the same and the same an	College		
	College		
	College		
	College		

FOOTBALL

Head Football Coach	
College	
Year graduated	Letters won in sport
Years as head coach	Life record: Won Lost
Second Team Football Coach	
College	
Year graduated	Letters won in sport
Years as head coach	Life record as head coach:
	Won Lost
Freshman Football Coach	
College	
	Letters won in sport
Years as head coach	Life record as head coach:
	Won Lost
Junior High Football Coach	
College	
Year Graduated	Letters won in sport
Years as head coach	Life record as head coach:
	Won Lost
Grade school football coaches	: Number lettering in sport
	College

BASEBALL

Head Baseball Coach	
College	
Year graduated	Letters won in sport
Years as head coach	Life record: Won Lost
Second Team Baseball Coach	
College	
Year graduated	Letters won in sport
Years as head coach	Life record as head coach:
	Won Lost
Freshman Baseball Coach	
College	
Year graduated	Letters won in sport
Years as head coach	Life record as head coach:
	WonLost
Junior High Baseball Coach	
College	unga pani un nasi i magni inny any anta inny any anta inny any any any any any any any any any
	Letters won in sport
Years as head coach	Life record as head coach:
	Won Lost
Grade school baseball coaches	: Number lettering in sport
The state of the s	College
	College
	College
	College

TRACK

Head Track Coach			
College			
	Letter won in sport		
Years as head coach	Life record: Won Lost		
Year graduated			
Years as head coach			
	Won Lost		
Freshman Track Coach			
College			
	Letters won in sport		
Years as head coach	Life record as head coach:		
	Won Lost		
Junior High School Track Coac			
College			
A contract of the contract of	Letters won in sport		
Years as head coach	Life record as head coach:		
	Won Lost		
Grade school track coaches:	Number lettering in sport		
	College		
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Head Wrestling Coach		,	
	Year	Letters won	
College	Graduated	in sport	
Head Swimming Coach			
- Control of the Cont	Year	Letters won	
College	Graduated	in sport	
Head Tennis Coach	•		
· ·	Year	Letters won	
College	Graduated	in sport	
Head Golf Coach			
		Letters won	
College	Graduated	in sport	
Head Cross Country Coach			
	Year	Letters won	
College	Graduated	in sport	
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