THE STATUS OF SCIENCE TEACHERS
IN THE LARGE SECONDARY SCHOOLS OF OKLAHOMA
1939-1940

THE STATUS OF SCIENCE TRACHERS IN THE LARGE SECONDARY SCHOOLS OF OKLAHOMA 1939-1940

By

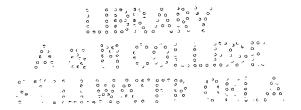
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PREFACE

The writer wishes to express his appreciation for the help given him by Dr. Clarence M. Pruitt, chairman of his advisory committee. He also wishes to acknowledge the help given by many of his friends, as it was only by their unselfish help that this thesis was completed. He takes this opportunity to thank Miss Neva Kennon and other members of the State Department of Public Instruction for their cooperation in providing an opportunity to gather this information.

Argus F. Smith

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CHAPTER I

INTRODUCTION

The purpose of this thesis is to obtain certain information relating to the status of science teachers in the large secondary schools in the state of Oklahoma. The status of science teachers, their college training, years of experience, salary, size of school, and teaching load, and certain other aspects of science teaching have been considered. This thesis should be of special interest to prospective science teachers and to those in charge of teacher training curricula. It will give them an idea as to what is demanded of science teachers as to their academic preparation, both in their science and related teaching field. Comparisons are made as to training, salary, experience, and position. This should give the beginning teacher an idea of the qualifications that lead to success in science teaching. Science teachers, supervisors, and administrators should be able to use these findings to an advantage.

The writer became interested in this problem while preparing to be a science teacher in the schools of Oklahoma. Students often become confused upon entering college and do not know exactly what to study in order to reach certain definite ends. The student may know that he wishes to become a science teacher, but he may not know what other fields or which sciences are most in demand. If the writer had known the facts contained in this thesis, he would likely have chosen different fields to go with his science. The teachers in both large and small high schools are likely to teach more than one subject, and therefore science teachers must select their minor fields carefully.

Some of the totals used in this thesis vary. This is due to the fact

that the information is not complete for all teachers. The tables were made up in every case from teachers who have given all of that particular information.

Mr. John Payne completed a thesis similar to this in 1940. His problem was to analyze the status of the teachers in the small secondary
schools of Cklahoma. The small secondary schools included all high schools
of five teachers or less. In his analysis he considered the college
training, total years experience, years experience in their present position, salaries, professional training, qualifications, and other requirements for teaching. Since this thesis makes the same analysis for the
larger schools, it should be interesting to combine the information found
in the two studies, in order to see the relative standing of the large
and small schools. For this reason some of Mr. Payne's most significant
data have been included.

SOURCE OF DATA AND INTHOO OF HANDLING

The data for this thesis were obtained from the accrediting blanks on file at the State Department of Education in Cklahoma City. These blanks were sent in to the state department by superintendents wishing to achieve an accredited rating. The information is given voluntarily, so there is no reason to believe that it is anything but accurate. Part of the information was obtained from records on file in the Educational Finance Department. These records were used in order to determine the amount of state money which should go to the various schools. Not all blanks were filled, and part of the information was not available, but the number of such cases was not large enough to detract materially from the reliability of this study.

The term "large high school" as used in this study includes any school with more than five full time teachers or the equivalent. The writer found 534 teachers in 347 such schools. Some of the teachers of the group did not give complete information in all the blanks, and therefore the tables are based only upon the number reporting the data.

The statistical method of study was used in this thesis. The data was transferred from the accrediting reports to especially prepared sheets, to facilitate handling. These sheets had places to record salary, experience, subjects, and all other information used in this thesis. Blank tables were then constructed, and the information pertinent to that phase of the investigation was tabulated. From these tables the median and the mode were obtained.

The median was obtained by dividing the total by two, and counting up to the interval having this number of cases below it. If the median were found to be somewhere within an interval without taking all of it, the median was found by taking the number of cases needed to reach the median which were in the interval over all the cases in the interval and multiplying this fraction by the size of the interval. This answer was then added to the top end of the interval just below it.

The mode was the interval having the most cases.

CHAPTER II

GEWERAL AND PROTESSIONAL FACTORS

Men and Women Science Teachers

Complete information for 498 secondary high school teachers was available. Of this number, 395 or 79% were men. This leaves 103 or 21% women teachers in the field of science.

TABLE I
TEACHING EXPRESENCE OF SECONDARY SCHOOL TEACHERS
OF SCIENCE, BY SEX - 1939-40

Years of Experience	1.73.55.5	Per cent	Homen	Per cent	Total	Per cent
0	: 24	6.07	9	8.73	33	6.62
1-3	: : 61	: 15.44	24	23.30	: : 85	17.06
4-6	92	: 23.29	22	21.35	114	22.89
7-9	: : 57	: 15.43	13	12.62	70	14.05
10-12	: : 52	13.16	6	5.82	58	11.64
13-15	: 43	: 10.88	12	11.65	55	11.04
16-18	: 26	6.58	4	3.88	30	6.02
19-21	: 16	: 4.05	: : 5	4.85	21.	4.21
22-24	7	1.77	: : 4	: 3.88	11	2.20
25-27	: 8	2.02	; ; 1	.97	9	1.30
2ଟ-30	: : 8	2.02	: : 3	2.91	11	2.20
Over 30	: 1	.25	~ 9 삼 주 -	•	1	.20
Total	395	100	103	100	498	100

TABLE I continued

Median	experience	for	men .	•	•	•	•	•	•	•	٠	٠	•	•	•	•	٠	•	7.05	years
Median	experience	for	Women	٠	•	•	٠	•	•	•	•	•	•	٠	•	•	•	•	5.49	years
	experience																			
Median	experience	for	ssall	h:	igl	1	ecì	100	18	<u>}</u>	•	•	•		4.	•	•	•	6.53	years

Table I shows that the median for men science teachers is 7.05 years experience as compared with 5.47 years experience for women. This gives a difference in favor of the men of 1.56 years. On the whole, then, it would seem to indicate that men have more experience as science teachers than women. There is also a larger percentage of women who are teaching their first year of science than men, but at the same time the percentage of women who have taught from 28 to 30 years is greater than the men. There are 3 women who have taught from 28 to 30 years and one man who has taught over 30 years. Mr. Payne found that the median experience for men and women in the small high schools was 6.53 years. This gives the larger high schools the advantage of .20 over the small schools. This would seem to show that there is very little difference in the experience of the teachers in large and small schools. In both cases nearly half of the toschers have six or less years of experience. The greatest number of teachers in the small schools falls in the interval between 1 and 31, while in the case of the larger schools it is at interval 4 to 6.

¹ James Payne, The Status of Science Teachers in the Small Secondary Schools of Oklahoma, 1939-1940, page 5

YEARS EXPERIENCE WITHIN PRESENT SCHOOL DISTRICT

Complete information was available for 503 science teachers, of which 401 or 79% were men, and 102 or 21% were women. Table II shows that the median experience in the district was 1.74 years for both men and women. The men have the advantage in this case of .35 years with 1.8 years, as compared with 1.46 years for the women. There were 23 or 22.54% of the women and 83 or 20.69% of the men who were teaching in that district for the first time. There were 20 men or 4.98% of the men who had been in the district over 14 years, and 6 or 5.88% of the women. It is interesting to note that the median years experience for all teachers is 6.73 years, while the tenure in the district is only 1.46. This shows that on the average the teachers have been in 4.6 different districts during their science teaching experience. The teacher having the greatest experience in the district is a man with 25 years.

In his study of the small high schools, Mr. Payne found that the median experience in the district for both men and women is 1.68 in comparison to 1.7% years for the larger schools. This gives the teachers of the large schools .06 years more experience in the present school district. This is not enough difference to be of special significance. One might say that the tenure is just as good in the small schools as in the large ones.

² Ibid., page 7

TABLE III

YMARS EXPERIENCE WITHIN PRESENT SCHOOL DISTRICT

Years in : District :		Per cent	lomen	Per cent	Total	: Per cent
0	83	20.69	23	22.54	: 106	21.07
1	66	16.45	÷ 22	21.56	88	17.49
2	63	15.72	: 13	: 12.74	÷ 76	15.10
3	32	7.98	6	5.88	38	7.55
L,	29	7.23	· • • • • • • • • • • • • • • • • • • •	6.86	36	7.15
5	24	5.98	: L.	3.92	28	5.56
6	13	3.24	*	.98	: 14	2.78
7	10	2.49	. 2	1.96	1.2	2.38
8	10	2.49	. 2	1.96	: 12	2.38
9	12	: 2.99	: 3	2.94	15	2.98
10	14	3.49	<u>.</u> 4	3.92	: 18	3.57
11	13	3.24	: 3	2.94	: 16	3.18
12	8	1.99	· • 2	1.96	10	1.98
13		.99	. 4	3.92	: : 8	1.59
14-over	20	4.98		5.88	26	5.16
Total	401	: 100	: 102	100	: 503	: 100

³ Ibid., page 7

The hours of training was given for 533 science teachers. Table III-A shows that of the 533 there were 36 teachers whose hours of science training was not classified as to any particular kind. This left 547 teachers for consideration in the table. Some difficulty was encountered in getting an accurate picture of the college training because of the abbreviations used to indicate physics and physiology. They were both given as Phys. Since it was impossible to determine whether or not it was physics of physiology, the writer is in doubt as to the accuracy of this table, but it is being included as a means of comparison between the large and small schools. The median for biology is 16 hours, and 18.11 for physical science. Very little geography was studied by the regular science teachers. In fact very few science teachers were found teaching geography. The small amount of geography and physiology can probably be attributed to the fact that science teachers of the large schools are highly specialized in their particular field, and so give very little time to other sciences.

Mr. Fayne found in the small schools that the median for biology was 15.83 hours, and 8.46 hours for physical science. One can see from this that the larger schools have teachers with a higher median in biology and physical sciences. This would seem to give definite indications that the teachers of the larger schools are better qualified in their particular teaching fields. Many of the teachers are teaching only the one subject, and are therefore more in a position to specialize than those teaching several subjects.

⁴Tbid., page 9

TABLE III-A SENESTER HOURS OF COLLEGE TRAINING IN SCIENCE TRACKING FIELDS

Semester Hours	Biology	Physiology	Flysical : Science	Geography	Unclassified
C	98	: 136	84	: 410	:
1I.	: : 15	.	3	13	: 1
5-8	; ; 38	5	; ; 35	: 16	:
9-12	; 59	*	61	; 3	;
13-16	63	₹ # #	64	; 3	; 3
17-20	31	9 थ द	36	*	: : 5
21-24	; 3h	* *	: : 3 6	: 1	; 7
25 -2 8	; 32	र इ इ	32	 ₩ ₩	: 9
29-32	18	1	22	1	÷ 7
33-36	12	æ æ € □	: ; 19	7	5 5
37-40	. 6	क 5 हि	12	*	: 6
41-44	: : \$	ਸ਼ * *	7	क क प	* * 7
45-48	. 6	* * * * *	: : 6	4	: : 3
49 -52	. 4	£ . ♦	: : 5	*	: : 3
53-56	: : 4	# # }	7	보 명 단	: : 2
57-60	3	*	**************************************	*	2
Over 60	: : 16 :			:	: : 26 :
Total	349		363	37	86

TABLE III-A continued

Median for biology in small high schools . . . 15.83 semester hours

Median for physiclogy in small high schools . . 6.22 semester hours

Median for physical science in small high schools 8.46 semester hours

Median for geography in small high schools . . . 5.40 semester hours

⁵ Ibid., page 9

TABLE III-B
SEMESTER HOURS OF COLLEGE TRAINING IN SCIENCE BY SUBJECTS

Semester Hours	:	Biol.	2	Zool.	:	Bot.	:	Phy.	=0	hem.	:1	Phys.	. Ge	eol.	:	Geog		Unclassi fied
	÷				÷		÷		14				-		•		•	2.204
0	:												-					
	:				:		:		:		:		:		:		:	
1-4	:	21 :		12	:	16	:	4	:	47	:	65	:	9	:	13	:	6
- 0	:	20 1		70	:	71	:	-	:	00	:	102	. :	79	:	74	:	•
5-8	:	38		19	:	14	:	5	:	99	*	103	:	13	:	16		3
9-12		54		5	:	5	:	1	:	55		78	:	1		3		
					:		:				:							
13-16	:	75 :		3	:	2	:		:	36	:	27	:	2	:	3	:	6
	:	1			:		:		:		:	-1	:		:		:	
17-20	:	28 :		1	:	2	:		:	25	:	16	:				:	7
21-24	:	30			:	1	:		:	18	:	10	:		:	1	:	9
		,							:	-			:		:		. :	-
25-28	:	33		2	:	1	:		:	9	:	2		1	:		:	11
	:				:		:		:	No. 1	:		:		:	-	:	
29-32	:	19 :			1		:		:	11	:	2	:	1	:	1	:	9
33-36	:	14			:	1	:	1	:	6	-	2		1	:		:	6
))-)0		14	18			-					:	-		-				
37-40	:	8			:		:		:	6	:	1	:	1	:			8
	:				:		:		:		:		:		:		:	
41-44	:	7 :			:		:		:	1	;		:		:		:	9
45-48	:	8			:		:		:	3	:		1		:		:	4
49-40	:	0 :			:		:		:	,			:					4
49-52	:	5		1			:		:	2	:		-		:		:	5
	:	1			:		:		:		:		1		:		:	
53-56	:	3 :			:		:		:	2	:	3	:		:		:	3
E7 60	:				:		:		:	1	:		:	1	:		:	2
57-60	:	1							:	1	:		1	1	:		:	2
Over 60		19		1						10		2			:	1	:	26
	:					12.00							:				:	
Total	:	363		44	::	42	:	11	:	331	:	311	:	30		37	:	114

TABLE III-B continued

Median	for	physics .	•	٠	•	٠	•	•	•	.*	٠	٠	٠	•	٠	•		•	7.67	semester	hours
Median	for	geology	•	•	•	•	•	•	•	*	•		•	٠	•	٠	•	•	5.84	semester	hours
Median	for	geography	٠	•	•	*			*		•		*	•		•	•		4.05	semester	hours

Table III-B shows the semester hours of college training in science by subjects. The median for biology is 15.67 semester hours of college work. Nineteen teachers had over 60 hours of work in botany. The median is rather high for biology due to the fact that zoology and botany are usually combined and given as hours in biology. For this reason the totals for zoology and botany are not complete. Chemistry shows the next highest median with 9.45 hours of college work. Ten teachers reported over 60 hours of work in chemistry. The median hours of college work for physics was 7.67. The mode was at the interval between 5 and 8. Two teachers reported having over 60 hours in physics.

TOTAL NUMBER OF SEMESTER HOURS OF SCIENCE

In Table IV complete information was evailable for 533 teachers.
428 were men and 105 were women. The median for the men was 36.44 semester hours as compared to 34.00 hours for women teachers. The median

TABLE IV

TOTAL MUMBER OF SEAESTER HOURS OF SCIENCE

hours	Men	Fer cent	Women	Fer cent	Total	Per cent
0-5	: 2	: .46	: 0	.	2	: : .37
6-10	7	1.63	1	: .95 :	8	: 1.50
11-15	: 14	3.27	3	2.85	17	; ; 3.18
16 -2 0	: 28	: 6.54	12	: 11.42 :	40	: 7.50
21-25	47	: 10,98	20	: 19.04 :	67	: 12.57
26-30	52	12.14	: 8	7.61	60	: 11.25
31-35	: 49	11.44	10	9.52	59	: 11.06
36-40	: : 52	12.14	5	4.76	57	10.69
41-45	26	6.07	9	8.57 :	35	6.56
46-50	31	7.24	4	3.80	35	: 6.56
51-55	14	3.27	3	2.85	17	3.18
56-60	23	5.37	2	1.90 :	25	4.69
61-65	22	5.14	8	7.61	30	5.62
66-70	10	2.33	6	5.71	16	3.00
71-75	• • 5	1.16	4	3.80	9	1.68
76-30	. 7	1.63	5	4.76	12	: 2.25
81-85	: 11	2.57	1	.95	12	2.25
86-90	8	1.86	1	.95	9	1.63
91 and ov	re f 20	: 4.67	3	2.85	23	: 4.31
Total	: : 428	: 100	105	: 100 :	533	: 100

Median	for	men .	•	•	• •	•	4 . 1	• •	٠	•	•	٠	i a s	36.44	semester	hours
Median	for	women	*	•	• •	•	· e . •		•	٠	•	•	•	34.00	semester	hours
Median	for	both		•		¥	•	• •	•	•	٠	•	٠	32.72	semester	hours
Median	for	small	hi	lgh	s	ch	00.	ls ⁶		•	•		•	32.72	semester	hours

for the men was 2.44 hours more than in the case of the women. The median for both men and women was 36.10 semester hours. There were two men teaching who came in the interval 0 to 5 hours. The largest number of hours in science was held by a man with 218 hours. The greatest number in the case of women was 128 hours.

The comparison between the large and small high schools shows 32.72 semester hours for the small schools and 36.10 hours for the large schools. The teachers of the large schools have 2.38 hours more science. This would indicate that science teachers are schools that better qualified in the large schools than in the small ones.

⁶ Tbid., page 11

RELATION OF COLLEGE TRAINING TO MONTHLY SALARY

Table V shows the relation of college training to monthly salary for 493 science teachers. Seven or .018% were found to have 123 hours or less of college training. Two hundred seventy-six, or 54.15%, had between 124 and 153 hours, and 219 or 44.4% had 154 or more hours. The median salary

TABLE V

RELATION OF COLLEGE TRAINING TO MOUTHLY SALARY

Salaries	egingabennin i kirima emeline B	ingkanasi kecanggangkian naringgan ingkan pinakan pangan penanggan		jer.	æster Ho	ours			
Per mo.	123 and under	Per cent	124 to 153 hrs.	ĵ.	er cent	154 or over	Per cent	Total	Fer cent
§ 70 – 85	: 3	42.85	; ; 31	:	11.61	4	1.83	: : 38	7.70
86-100	: 2	28.57	: 71	:	26.59	27	12.33	100	20.28
101-115	: 1	: 14.28	: 44,	:	16.47	30	13.70	75	15.21
116-130	•	t *	: 44.	:	16.47	23	10.50	67	13.59
131-145	1	14.28	30	•	11.23	19	8.68	50	10.14
146-160	:	1	25	;	9.36	26	: 11.87	51	10.34
161-175	:	1	6		2.24	21	9.59	27	5.47
176-190	<i>:</i>	:	6	•	2.24	18	8.21	24	4.86
191-205	:	:	6	:	2.24	15	6.85	21	4.25
206-220	:	1	3	:	1.12	13	5.94	16	3.24
221-235	:	: :	: 1	:	•37	7	3.20	8	1.62
236-250	*	·	± +	•	:	6	2.74	: 6 :	1.21
251 - 265 -over	: :	•	- (4)	4	:	10	4.57	10	: 2.02
Tetal	: 7	100	267	÷	100	219	100	493	100

TABLE V continued

Median	salary	for	123	hou	rs	and	und	er	•	٠	•	•	•	•	٠	•	্ব 85.00
Hedian	salary	for	124	to	153	hou	ırs	•	•	•	•	•	•	•	•		125.57
Median	salary	for	154	and	ov	er		•	•					•	•	•	148.46
																	122.61
Median	salary	for	snal	1 h	igh	sci	1001	37	•		•	•	•		٠	•	107.05

for the first group with 123 hours and under was \$85.00 per month. The teachers with 124 to 153 hours had a median salary of \$125.57, and for 154 hours and over the median was \$148.46. One can see here a direct relation between salary and amount of college work. The highest salary for any teacher of 123 hours or under was \$145.00. One teacher in the 124 to 153 hours group received between \$221.00 and \$235.00, and 2 teachers with more than 154 hours received over \$260.00 per month. About one-fifth or 20.28% of all science teachers of the large high schools receive between \$86.00 and \$100.00 per month.

In the case of small high schools studied by Mr. Payne, the median salary for teachers under 123 hours was \$93.50 per month. This is about \$10.00 better than in the case of the large schools. This is partly due to the fact that a larger per cent of such teachers are found in smaller schools, since it would be difficult to get well paid jobs in larger school systems. The median salary for teachers of 124 to 153 hours was \$104.53 per month. In this case the larger schools have the advantage with \$125.75. For 154 hours and over the small schools show a median of \$122.24 per month as compared with \$148.46 in the large schools. The median for the total is

⁷ Ibid., page 13

\$107.05 in the case of the small schools, as compared to \$122.61 for the large ones, an increase of \$15.56 per month.

It is definitely indicated by this study that the status of science teachers in the large high schools is superior in regard to salary. It also shows that they have a larger per cent with a large amoung of college training than in the case of the small schools.

g Ibid., page 13

TABLE VI
RELATION OF EMPERIENCE TO MONTHLY SALARY

Monthly :	Total years of teaching experience													
Salary :	0	: Per : cent	1-3	Per cent	2.0	: Per : cent	7-9	Per 10-12	:Per :cent					
\$ 70 - 79	2	: : 6.06	: : 1	: 1.14	: 0	5 *	* &	* * * * * * * * * * * * * * * * * * *	**					
€0 - 89 :	23	:69.69	: 16	: 18.39	: 0	# ·	9 # \$ \$	\$ 6	# # #					
90 -9 9 :	4	:12.12	: 17	: 19.54	: 3	: 2.60	:	*	*					
100-109	3	9.09	: 21	: 24.13	: : 30	: :26.08	: 17	:26.56: 7	:11.66					
110-119	1	3. 03	11	12.64	23	20.00	: 9	:14.06: 10	:16.66					
120-129		:	. 8	9.19	: 11	: 9.56	: 11	:17.18: 4	: 6.66					
130-139		:	. 7	8.04	: 13	:11.30	: : 8	:12.50: 9	:15.00					
140-149		200	3	3.44	: 15	:13.04	. 5	: 7.81: 3	: 5.00					
150-159		:	3	3.44	. 9	: 7.82	: 2	: 3.12: 10	:16.66					
160-169		*	• · · ·	• •	: 4	: 3.47	: 3	: 4.68: 2	: 3.33					
170-179		•	• •	6 5	ż	1.73	2	3.12: 3	: 5.00					
180-189		•	• •	* ± ₹	. 3	2.60	. 0	: L	: 6.66					
190-199		*	•	e G	. 0	# 5 #	: 2	3.12: 1	: 1.66					
200-209		:	*	* * *	. 2	: 1.73	: 4	: 6.25: 3	: 5.00					
210-219		*	# #- #	ਜ਼ ਨਾ œ	* * *	*	* * *		: 1.66					
220-229		*		* *	* 10 15	* * * *	*	: 1	: 1.66					
230-239		*	. 	* * * * * * * * * * * * * * * * * * *	*	* !	: 1	: 1.56:	:					
240-over	7	Branch Company of the	* * *	# b hardenings and because the property	*	*	# # *	: 2	: 3.33					
Total :	33	: 100	: : 87	100	: 115	: 100	: 64	: 100 : 60	: 100					

Kedian salary for teachers having no experience. . . . \$68.13 Median salary for teachers having 1-3 years experience. 93.12

TABLE VI continued

enthly	Total years teaching experience													
Salary	ina se .	* 0.7	. 2/ 25	Per	* 9 /8 · · · · · · · ·	Per	• 60 • 7	er per						
الموادية ال الموادية الموادية ال	13-15	cent	<u>: 16-18</u>	: cent	:19-over	· cent	Total	: cent						
70-79	. 0	· }	: 0	*	: 0	:	: 3	.60						
60-89	0	:	. 0	*	÷ 0	* *	÷ 39	7.87						
90-99		;	: 1	: 3.44	: 0	*	· ; 25	5.05						
100-109	10	18.51	: 2	6.89	: 2	· :3.77	92	18.58						
110-119	2	3.70	: 2	6.89	: 0	ž	56	: 11.71						
120-129	5	9.25	: 2	6.89	: ! !	7.54	: 45	9.09						
130-139	. 4	7.40	: 0	•	5	:9.43	: 46	: 9.29						
140-149	* ² +	7.40	: 1	3.44		9.43	36	: 7.27						
150-159	3	5.55	: 2	: 6.89	3	:5.66	: 32 :	: 6.46						
160-169	: <i>L</i> ;	7.40	5	:17.24	: 2	:3.77	20	1 4.04						
170-179	7	12.96	2	: 6.39	: 1	:1.89	: 17	3.43						
180-189	3	5.55	3	10.34	6	11.32	: 19	: 3.83						
190-199	: 2	3.70	. 0	*	3	5.66	: 8	1.61						
200-209	3	5.55	2	: 6.89	: 4	7.54	: 18	3.63						
210-219	5	9,25	2 .	: 6.89	<u>:</u> 4	² 7.54	: 12	2.42						
220-229	: 0	•	: 2	: 6.39	÷ 5	9.43	: 8	1.61						
230-239	: 1	1.85	: O	2	: 1	1.89	: 3	: .60						
240-over	1	1.85	: 3	:10.34	: 8	15.09	14	2.82						
Total	: 54	: 100	: : 29	100	: 53	:100	* 495	: 100						

TABLE VI continued

Sedian	salary	for	teachers	having	4-6	years	ех	perien ce	*	•	•	•	\$130.82
Median	salary	for	teachers	having	7-9	years	ex	perience		•	*		134.5
Median	salary	for	teachers	having	10-1	l2 yea:	rs	experion	:e	•	•	•	139.00

RELATION OF EXPERIENCE TO MORTHLY GALARY

There were 495 science teachers who reported enough information for this table. The salary was found to range between \$70 per month to over \$240. The table shows very distinctly that as experience increases, salary increases. The median salary for teachers with no experience is \$80.13, while teachers with 1 to 3 years experience receive \$93.12. The largest jump in salary is found as one passes three years experience. At that time the median jumps from \$93.17 to \$130.82 per month, an increase of \$37.70. The mode lies in the interval 100 to 109, with 92 or 18.58% of the teachers. The highest salary for a teacher with no experience was not over \$109, while the highest paid teachers of from 4 to 6 years is \$209, and the lowest salary was not less than \$90.

Of the teachers with 7 to 9 years experience, of which there were 64, one received a salary of over \$230, while none receive less than \$100.

Of the 60 teachers found to have experience between 10 and 12 years 2 or 3.33% got over \$240, and the lowest paid teacher received not less than \$100.

Of the 13 to 15 years experienced teachers there were 54. Ten or 18.51% received between \$100 to \$109 per month. \$100 was the lowest salary. One teacher received over \$240, and the median for this group was \$155.67.

of the 29 teachers having 16 to 18 years experience 3 or 10.34% received over \$240, while one was paid as low as \$90 per month. The median was \$174.00.

The 53 teachers having 19 years or over teaching experience received the largest median salary of \$187. Eight or 15.09% of the teachers received \$240 up, with none receiving less than \$100.

Part of the increase in salary of the teachers having much experience may be due to the fact that these men often become principals or superintendents of schools, but it is easily seen that an increase in experience will also probably bring an increase in salary.

The median experience for this group of teachers is 6.61 years with the mode between 4 and 6 years with 115 teachers.

In comparing the large schools with the small ones, one can see in every case that the salary is higher for the larger schools. The table below shows the median salaries as found by Mr. Payne, and the medians as found in the large high schools.

SALARTES IN LARGE AUD SHALL SCHOOLS

Years of Experience	0	1-3	4-6	7-9	10-12	13-15	16-18	17-over
Small schools		\$92.60	: :8110.06	: :\$122 . 50	: :121.7	: 0:ിമാ.00	: :6150 . 00	: :3140.75
Large schools	: 36.13: :	93.12	130.82	: : 134.55 :	: :139.00 :	155.67	174.00	: 187.00
Hedian salary	for tead	hers i	n small	high s c h	ools .	* * *		. 0111.47
Median salary	for teac	hers i	n large i	high sc h	ools .	2 • *		. 128.11
Median years e	xperienc	e in s	mll high	h school	s	* * • •		. 6.53
Median years e	xperienc	e in l	erge hig	h school	5			. 6.61

⁹ Told., page 15

TABLE VII

RELATION OF TRACHING EMPERITHER AND SIZE OF THE SCHOOL

Years	÷	Number of teachers in school														
Experience	5.1-6	Per cent	5.1-7	Per cent	?.1− 8	Per cent	8.1-9	Per cent								
0	; 9	: : 8.91	7	10.60	: : 5	10.20	. 3	. 6.52								
1-3	: 20	19.80	: 14	: 21.21	: 7	:14.28	:12	26.08								
4-6	: 16	17.82	: 13	: 19.69	:14	: : 2♂•57	:12	26.08								
7-9	: : 14	13.86	11	: 16.66	: 7	: : 1/₄.28	6	13.04								
10-12	: 20	: 19.80	; 7	: 10.60	: د :	: 6.12	: 1	; 2.17								
13-15	: 3	7.92	. 4	: 6.06	: 7	: 14.28	: 7	:15.21								
16-18	: 14	3.96	· .	: 6.06	: 3	6.12	: 2	: : 4.34								
1:>-21	: 2	: 1.98	. 2	3.03	: 1	2.04	: 1	2.17								
Over 21	: 6	\$ 5.94 \$. 4	6.06	: 2	: 4.08	: 2	: 4.34								
Total	101	100	66	100	.49	100	: 46	: 100								
Median year	rs exper	rience for	5 .1- 6	teachers .	allende de la descripto de la consentación.	2 8 4 ¢ 4		86								
Median year	rs exper	cience for	6.1-7	teachers .	• • •	• s & 4 à		6								
Median year	rs exper	cience for	7.1-8	teachers .	• • •	4 4 5 4 5		3.64								
Median year	's emer	tience for	8.1_Q ·	kaadhans				z								

TABLE VII continued

lears	Eumber of teachers in school													
Experience	9.1-10	Per cont	10.1-11	Fer cent	11.1-12	jer cent	12.1-on	Per cent						
0	: 4	10.25	1	5 .2 6	: 0	: : 0	: : 4	2.35						
1-3	: 7	17.94	3	15.78	2	· : 22.22	21	12.35						
4-6	: 10	25.64	5	26.31	. 2	22.22	1.3	25.29						
7-9	: 10	25.64	4	21.05	: 3	: 33 .33	: 14	8.23						
10-12	i k	: 10.25	3	15.78	: 0	· • 0	. 19	: 11.17						
13-15	: 1	2.56	2	10.52	: 1	: 11.11	26	15.29						
16-18	: 2	5.12	0	0	. 0	: 0	13	7.64						
19-21	. 0	; 0	1	5.26	: 0	0	9	5.29						
Over 21		2.56	5 5	0	· 1	: 77.71	21	12.35						
Total	: 39	100	19	100	9	± 100	170	: 100						
liedian year	s expe	rience for	9.1-10	teachers	• • • •	u e v e		5.70						
Median year	a expe	rience for	10.1-11	teacher	S	a * * *		6.33						
Median year	s expe	rience for	11.1-12	teacher	8			7.00						
Median year	's expe	rience for	12.1-on	teacher	S			. 7.50						

TABLE VII continued

Yeara	± al ± ±	Number of	'teachers	in school
Exporience		Total	in the state of th	Per cent
0	6 6 8	33	THE BEST OF THE PROPERTY OF T	6.61
1-3	:	੪ 6	*	17.23
4-6	2	117	4.	23.44
7-9	ē *	69	:	13.82
10-12	₹. #	57		11.42
13-15	: :	56		11.22
16-18	\$ \$	28	:	5.61
19-21	*	16	* *	3.20
Over 21	* * *	37	:	7.40
Total	* 9	499	Garage Commission of the Commi	100

Median for the total 6.56

HELATION OF TEACHING EXPERIENCE AND SIZE OF SCHOOL

There were 499 teachers reporting enough information for this table.

Of this number 101 or 20% taught in schools having from 5.1 to 6 teachers with a median experience of 6.86 years. The mode, however, was found to be in the interval between 10 and 12 years experience.

There were 66 or 13% of the teachers in schools with from 6.1 to 7 teachers. The median experience for the teachers in schools of this size is 6 years. The mode in this case was at the interval between 1 and 3 years.

In schools of from 7.1 to 8 teachers there were 49 or 9% of the science teachers employed. The median in this case was 3.64 years experience. The mode was at the interval between 4 and 6.

In the schools of 8.1 to 9 teachers there were 46 or 9% of the science teachers. The median in this case is 5 years experience, and the mode is at the interval 2 to 3. The interval 4 to 6 also has the same number of cases.

In schools having 9.1 to 10 teachers there were 39 or 85 of the teachers employed. The median is 5.70 years experience, and the interval 4 to 6 and 7 to 9 both have ten cases.

In schools having 10.1 to 11 teachers there were 19 or 4% of the teachers. The median of this group was 6.33 years. The mode for these teachers was at the interval between 4 and 6.

In the schools having from 11.1 to 12 teachers there were 9 or 2% of the teachers employed. The median for these teachers was 7 years experience, and the mode was at the interval between 7 and 9.

The schools of over 12 teachers had 170 or 34% of the teachers. The median for these teachers was 7.5 years experience, and the mode was at the interval between 4 and 6.

The results of this table seem to indicate that there is but little

direct relationship between the years experience and the size of the school. The median for the teachers in schools of from 5.1 to 6 teachers had a median of 6.86 years experience. This median is larger than that of any of the other schools until one gets into schools of 11 teachers or more. The lowest median was that of 3.64 years experience found in schools of from 7.1 to 8 teachers.

TABLE VIII
TEACHING LOAD OF SCIENCE TRACHERS FOR 5.1 TO 9 TEACHER SCHOOLS

Periods	*		*	;	:Ind.	Porse	:	;	Fus-	1	:			To-
per wk.	Math	Fing	fist	:Sci	:Arts	: िc	Comm	Ath	:îc	<u> Agri</u>	FOC	Govt	Other	tal
1-5	44	9	:14	: : 60	: : 5	: : 3	: ; 2	:12	: : 3	: : 9	: 2		33	: 201
6-10	35	9	: 5	: : ৪5	: : 3	: : 4	: 1	: 3	: 1	: 1	: 1	: 1	17	: 166
11-15	13	2	: 4	• • 64	: 3	: 2	:	: 1	: 1	: 1	:	:	3	: 99
16-20	: 4	: 1	: 1	: 37	: 1	: 3	: 2	:	:	: 1	:	:	: 7	57
21-25	: :	9 4 3	4	: 15	•	: 1	: 2	: 1	* * * * * * * * * * * * * * * * * * *	*	:	1 1	: 3	: 22
26 -3 0	# *	**************************************	: :	. 2	•	: 1	: :	•	*	*	* 4	: :	•	: 3
31-over	:	:	:	1	•	÷		:	2 8 9	*	÷	:		: 1
fotal	101	: 21	24	264	12	:14	: 7	17	. 5	: :12	: 3	: 6	.63	549

Median	for	those	teaching	science	•		•	•	•	٠	٠	٠	•	٠		•	•	9.23
Median	for	those	teaching	mathemat	ic	3	٠		•		•	•	•	•	*	•		6.00
Median	for	those	teaching	history	•		•	•	•	4		•		ø	•	•		4.28

Table VIII shows the teaching load for 264 science teachers within the 5.1 to 9 teacher schools. There are 11 subjects which science teachers may teach along with their regular science classes.

One hundred and one teach mathematics, 4 teach it 16 to 20 periods per week, 18 teach it 11 to 15 periods per week, 35 teach it 6 to 10 periods per week, and 44 teach it 1 to 5 periods per week.

Twenty-one teach English. One teaches it 16 to 20 periods per week, 2 teach it 11 to 15 periods per week, 9 teach it 6 to 10 periods per week, and 9 teach it 1 to 5 periods per week.

All of the 264 teach science. Of this group one teaches over 30 periods of science per week, 2 teach 26 to 30 periods per week, 15 teach it 21 to 25

periods per week, 37 teach it 16 to 20 periods per week, 64 teach it 11 to 15 periods per week, 85 teach it 6 to 10 periods per week, and 60 teach it 1 to 5 periods per week.

Twelve teach industrial arts. Of this number one teaches it 16 to 20 periods per week, 3 teach it 11 to 15 periods per week, 3 teach it 6 to 10 periods per week, and 5 teach it 1 to 5 periods per week.

Fourteen teach home economics. One teaches it 26 to 30 periods per week, one teaches it 21 to 25 periods per week, 3 teach it 16 to 20 periods per week, 2 teach it 11 to 15 periods per week, 4 teach it 6 to 10 periods per week, and 5 teach it 1 to 5 periods per week.

Seven teach commerce. Two teach it 21 to 25 periods per week, 2 teach it 16 to 20 periods per week, 1 teaches it 6 to 10 periods per week, and 2 teach it 1 to 5 periods per week.

Seventeen conduct athletics. One conducts it 11 to 15 periods per week, 3 conduct it 6 to 10 periods per week, and 12 conduct it 1 to 5 periods per week.

Five teach music. One teaches it 11 to 15 periods per week, one teaches it 6 to 10 periods per week, and 3 teach it 1 to 5 periods per week.

Twelve teach agriculture. Of this number one teaches it 16 to 20 periods per week, one teaches it 11 to 15 periods per week, one teaches it 6 to 10 periods per week, and 9 teach it 1 to 5 periods per week.

There are 3 sociology teachers. Of this number one teaches it 6 to 10 periods per week, and 2 teach it 1 to 5 periods per week.

Six teach government. One teaches it 6 to 10 periods per week, and 5 teach it 1 to 5 periods per week.

Sixty-three teach unclassified subjects.

The median load for science teachers teaching science, mathematics, and history, respectively, is 9.23, 6.00, and 4.00 periods per week.

TABLE IX
THACHING LOAD OF SCHEWOE TEACHERS FOR 9.1 TO 13 TEACHER SCHOOLS

Perio			AND THE PERSON OF	4	-	•	3) (1884) · (4)	*	******		nd.				, , ,		*	*******		n monte one se E E	4	a A B
Der i	ik.			£45	M	**	iet		ci	ŧ2.	rts	1	ိုင	:At	1	llus	: ACI	1	<u>ිංද</u> :	: Gov	:Other	: Total
1-5		• • {	3	:	1	:	1	:	9	*		*	1	9	5	3	: 2	;	2	: 1	: 12	: : 45
6-10			2	÷		;		*	12			**		:	1 :		:	*	;	40.	: 3	: ls
11-1	5	•	ó	*		:		:	13	*	2	:		·	5 2 2	; ;	1		;	* *	: 3	: 24
16-20)			* . \$		*	1	* ** *	18	:		•		:	:	•	: 1	- 63	;	ē.	: 1	: 21
21-25	5	• • ;	L	:		*		:	16	;		:	2	:	:		7 7 0	**	;		:	: 19
26-30)		L	:		•		*	5	:			1	*			:	e e e	:		: 1	8
31-ov	/er	*		:	•	:		:	2	:		;		:	:		*	*		9 4. 	*	. 2
Total	L	18	3		1	*	2	:	75	•	2	:	4	*	΄	3	* ;	;	2	1	: 20	: 137
	Me	dia	n £	or	th	os	ie t	J (9)	ach:	ing	; s c	ie	nce			• • •	• • i				16.11	•
	lje	đia	a ſ	or	th	100	ie t	je:	a c h:	ing	, on	th	ema	tic	S	• • •				4 *	7.50	
	i.e	dia.	a f	or	th	los	e t	je	ach:	ing	hi.	st	ory	•	• 1	• • •					5.00	

Table IX shows that in 9.1 to 13 teacher schools there are 75 science teachers. There are 11 separate subjects, of which science teachers may teach one or more other than science.

Mathematics is the subject most frequently combined with science.

There were 10 cases where they also taught mathematics. One mathematics teacher teaches mathematics 26 to 30 periods per week, one teaches it 21 to 25 periods per week, 6 teach it 11 to 15 periods per week, 2 teach it 6 to 10 periods per week, and 8 teach it 1 to 5 periods per week.

English is taught by one science teacher. This teacher teaches it 1 to 5 periods per week.

History is taught by 2 teachers. One teaches it 16 to 20 periods per

periods per week, and one teaches it 1 to 5 periods per week.

Of all the 75 science teachers, 2 teach science over 30 periods per week, 5 teach it 26 to 30 periods, 16 teach it 21 to 25, 18 teach it 16 to 20 periods, 13 teach it 11 to 15, 12 teach it 6 to 10, and 9 teach it 1 to 5 periods per week.

Two teach industrial arts 11 to 15 periods per week.

Four teach home economics. One teaches it 26 to 30 hours per week, two teach it 21 to 25 periods, and one teaches it 1 to 5 periods per week.

Six direct athletics. One directs it 6 to 10 periods per week, and 5 direct it 1 to 5 periods per week.

Three teach agriculture. One teaches agriculture 16 to 20 periods per week, and 2 teach it 1 to 5 periods a week.

Two teach sociology 1 to 5 periods a week.

Twenty teach subjects which are not classified.

The median for science teachers teaching science, mathematics, and history, respectively, is 16.11, 7.50, and 5.00 periods per week.

TABLE X

Median for those teaching history .

Period			\$;		÷				Nom e			:		! !	:		•	•			
Per wk	• : :	fati) : ¿	gu &	١	list	<u>.</u>	<u> Sci</u>	į	rts:	Ec		Com	: At	h:	<u>ដែ</u> មន	:A	gri	: 30 c	•Ca	VC	Other	Total
1-5	;	8	*	3	:	2	*	4	:	1:	1		1	: 4	. ;	1	:		‡ }	:	1	8	34
6-10	:	1	;	2	*	1	*	9	*	:	٠.	:	3	; ;	;		;	1	*	:		2	: 20
11-15	:	į.	;		*		:	12	•	:		:		:	:	<u>.</u>	:	1	:	:		4	: : 21
16-20	:	2	*	1	*	1	;	24	**	1:		*		: 2	2		•	1	:	:		. 2)	: 34
21-25	1		:		:		•	33	:	:	1	4	ı	Ť		; ;	:		# P	:		2	: : 37
26-30	:	2	:		**		**	5	;	:		:		:	;		:		:	:		:	: : 7
31-ove			*		:		:	1		:		:		; :	1	• . •	*		*	:		:	: 1 :
Total	- 3	17	<u>:</u> :	6	:	4	:	ී ජි	:	2	. 2	<u>:</u> :	5	: 6)	1	:	3	:	:	1	18	154

Median for those teaching mathematics 10.00

TEACHING LOAD OF SCIENCE TEACHERS FOR 13.1 TO 50 TEACHER SCHOOLS

Table K shows the teaching load for the teachers in schools of from 13.1 to 50 teachers. There are 12 different subjects which science teachers in this size school may teach.

Mathematics is again the most popular for science teachers, with 17 combining mathematics with their science. Of this number 2 teach 26 to 30 periods per week, 2 teach 16 to 20 periods per week, 4 teach it 11 to 15 periods per week. One teaches it 6 to 10 periods per week, and 8 teach it 1 to 5 periods per week.

There are 6 teachers combining English with their science. Of this number one teaches it 16 to 20 periods per week, 2 teach it 6 to 10 periods per week, and 3 teach it 1 to 5 periods per week.

There are 4 who teach history. One teaches it 16 to 20 periods per week, one teaches it 6 to 10 periods per week, and 2 teach it 1 to 5 periods per week.

Of the 88 teachers one teaches science over 30 periods per week, 5 teach it 26 to 30 periods, 33 teach it 21 to 25 periods, 24 teach it 16 to 20 periods, 12 teach it 11 to 15 periods, 9 teach it 6 to 10 periods, and 4 teach it 1 to 5 periods per week. The interval 21 to 25 has the most cases, with 33 teachers reporting this number of periods.

Two teach industrial arts. One teaches it 21 to 25 periods per week, and one teaches it 1 to 5 periods per week.

Two teach home economics. One teaches it 21 to 25 periods per week, and one teaches it 1 to 5 periods per week.

There are 5 who teach commerce. One teaches it 21 to 25 periods a week, 3 teach it 6 to 10 periods per week, and one teaches it 1 to 5 periods per week.

Six are directors of athletics. Two teach it 16 to 20 periods per week, and 4 teach it 1 to 5 periods per week.

One teaches music O to 5 periods per week.

There are three who teach agriculture. One teaches it 16 to 20 periods per week, one teaches it 11 to 15 periods per week, and one teaches it 6 to 10 periods per week.

One teaches government 1 to 5 periods per week.

There are 18 teachers of unclassified subjects which science teachers may teach along with their science.

The median for science teachers who teach science, mathematics, and history, respectively, is 18.96, 10.00, and 5.00 periods per week.

TABLE XI
TEACHING LOAD OF SCIENCE TEACHERS FOR SCHOOLS OF OVER 50 TEACHERS

Periods	1	: :	.	: Ind			\$	1	:	‡		2
Per wk.	Hath	:Hist:	Eng:Sci	:Arts	. Ic	Ath	i∖us	Agri	:Soc	:Go v	:Other	:Tot.
		: :	:	:	2 =	:	*	1	1	:	÷	*
1-5	. 2	: 1:	: 1	:	2	*	*	*	•	\$;	: 4
	•	* *	: ,	*	*	*	•	‡	:	:	:	2
6-10	*	:	: 2	‡	*	i	İ	:	:	•	: 2	: 4
	*	: :	*	*	\$	•	:	:	*	:	ė	:
11-15	•	: :	* ; 5		2'	i	ž	: 1	*	\$ -	•	: 6
16 00	*			:	•	:	•	•	:	•	\$:
1.6-20	•	:	1 4	•	:	•		•	:	\$	1	5 4
21-25	:		:16	•	•	•	•	7	;		.	:16
£3. − &3	:	; ;		•		•	•	•	•	3	:	* TO
26-30	:	* *	• 1	:	•	*	. :	ė	•			: 1
JU JU	1	: :		•	•	•	:		:		•	1
31-over	2	:	: 1	:	1	:	•		ŧ.	•	*	: 1
	.	: :		:	:	\$	*		:	•	*	:
B.4.7		: , :	* 20	*	*	*	-	ŧ ,	*	*	: ^	126
Total	: 2	: ±:	30	• :		t	;	. 1	3	•	2	.36

Table XI shows the teaching load for science teachers in schools of over 50 teachers. There were 30 science teachers in these schools. Of these science teachers, one teaches science over 30 periods per week, one 26 to 30 periods per week, 16 teach it 21 to 25 periods per week, 4 teach it 16 to 20 periods per week, 5 teach it 11 to 15 periods per week, 2 teach it 6 to 10 periods per week, and one teaches it 1 to 5 periods per week.

There are 2 science teachers who teach mathematics. Both teach it 1 to 5 periods per week.

One teaches agriculture 11 to 15 periods per week.

Two teach unclassified subjects.

The median for those teaching science, mathematics and history, respectively, is 21.25, 2.00, and 5.00 periods per week.

As one examines the teaching loads of science teachers, one notes a steady increase in the median periods of science taught per week and a

decrease of other subjects taught as one goes from the smaller schools to the larger ones. This indicates that the teachers of the very large schools are not required to do so much other teaching, and are given a better chance to concentrate on science than the teachers in the smaller schools.

TABLE XII
TEACHING LOAD OF SCIENCE TEACHERS FOR ALL TRACHER SCHOOLS

Per vk	Math	Eng	Hist	Sci	:Ind :Arts	Hom€ Ec	; Coma	: .Ath	: : Mus	Agri	Soc	: . Gov	: Oth- : ers	Total
1-5	. 62	13	18	74	: 6	: 5	: 3	: 21	: 7	. 12	4	7	: : 53	284
6-10	: 38	<u>;</u> 11		108	: : 3	: : . 4.	: 4	· 4	: 1	2	1	. 1	24	208
11-15	: : 28	: 2	4	94	; ; 5	: 2	•	: 1	: 1	: 3:		:	: 10	150
16-20	: 6	. 2	3	83	: 2	: : 3	: 2	: 2	•	. 2		:	:10	: 116
21-25	: 1	.	•	: 30	:	: 4	: 3	: 1	*	\$ 44 3		: :	• 5	94
26-30	: 3	* ·	• •	13	.	: 2	:	:	:	:		t :	: 1	: 19
31-ove	r.	•		5	7 • • •	*	:	:	:	* *		* * * * * * * * * * * * * * * * * * *	:	: 5
Total	: 138	28	31	457	16	20	12	29	. 9	19	5	8	103	§76
Mo	edian	for s	cienc	e	• •	. • •	. • •			<i>.</i>		1	7.39	
И	edian	for m	athen	atics	• . •				: # œ	• • •	• •	* ž	5.92	
24	edian .	for h	istor	y	• •						• •	• •	4.44	
i (edian	for t	hose	teach	${ t in} g$ s	cienc	e in	small	. scho	ols ¹⁰	• •	, . ·	9.14	
Ma	edian	for t	hose :	teach	ing ø	athes	atics	10.				• •	9.12	
	edian :	for t	hose	teach	ing h	istor	_{.y} 10				• •	• •	7.57	

Table XII shows the teaching load of science teachers for all schools employing over 5 teachers. Complete information was obtained for 457 science teachers. Of this number 74 taught science 1 to 5 periods per week, 108

¹⁰ Ibid., page 28

taught it 6 to 10 periods, 94 taught it 11 to 15 periods, 83 taught it 16 to 20 periods, 80 taught it 21 to 25 periods, 13 taught it 26 to 30 periods, and 5 taught it over 30 periods. The mode of the science teachers teaching science is at the interval 1 to 5.

One hundred and thirty-eight teach math. This is the greatest number of periods of any other subject taught by science teachers. Sixty-two teach it 1 to 5 periods per week, 38 teach it 6 to 10 periods, 28 teach it 11 to 15 periods, 6 teach it 16 to 20 periods, 1 teaches it 21 to 25 periods, and 3 teach it 26 to 30 periods per week. The greatest number of math teachers teach math from 1 to 5 periods per week.

Twenty-eight teach English. Of this number 13 teach it 1 to 5 periods per week, 11 teach it 6 to 10 periods, 2 teach it 11 to 15 periods, and 2 teach it 16 to 20 periods per week. The mode is at the interval 1 to 5, with 13 cases.

Thirty-one teach history. This is the subject which has the second largest number of periods per week taught by science teachers. Thirteen teach it 1 to 5 periods per week, 11 teach it 6 to 10 periods, 2 teach it 11 to 15 periods, and 2 teach 16 to 20 periods per week. The mode is at the interval 1 to 5.

Sixteen teach industrial arts. Six teach it 1 to 5 periods per week, 3 teach it 6 to 10 periods, 5 teach it 11 to 15 periods, and 2 teach it 16 to 20 periods per week.

Twenty teach home economics. Of this number 5 teach it 1 to 5 periods per week, 4 teach it 6 to 10 periods, 2 teach it 11 to 15 periods, 3 teach it 16 to 20 periods, 4 teach it 21 to 25 periods, and 2 teach it 26 to 30 periods per week.

Twelve teach commerce. Of this number 3 teach it 1 to 5 periods per

week, 4 teach it 6 to 10 periods, 2 teach it 16 to 20 periods, and 3 teach it 21 to 25 periods per week.

Twenty-nine are directors of athletics. Twenty-one direct it 1 to 5 periods per week, 4 direct it 6 to 10 periods, one directs it 11 to 15 periods, 2 direct it 16 to 20 periods, and one directs it 21 to 25 periods per week.

Hine teach music. Seven teach it 1 to 5 periods per week, 1 teaches it 6 to 10 periods, and 1 teaches it 11 to 15 periods per week.

Wineteen are agriculture teachers. Twelve teach it 1 to 5 periods per week, 2 teach it 6 to 10 periods, 3 teach it 11 to 15 periods, and 2 teach it 16 to 20 periods per week.

Only 5 teach sociology. Four teach it 1 to 5 periods, and one teaches it 6 to 10 periods.

Eight teach government. Seven teach it 1 to 5 periods per week, and one teaches it 6 to 10 periods per week.

There are 103 who teach subjects which are not classified.

The median for science teachers teaching science, mathematics, and history, respectively, is 17.39, 5.92, and 4.44 periods per week.

In the schools under 5 teachers the median for science teachers teaching science, mathematics, and history, respectively, is 9.14, 9.12, and 7.57 periods per week. This shows a higher median for subjects other than science and a lower median for science than that found in schools of over 5 teachers. This would indicate then that the teachers in the larger schools spend more of their time teaching science and less of their time with other things than do the teachers of the smaller schools.

¹¹ Thid., page 28

TABLE XIII

SCIENCE COMBINATIONS BY SUBJECTS

Science	:	Men		βi	ze oi	, acho	ol	1	ionen	
	5.1-		13.1	-:Over	T	·5.1-:	9.1-			· · · · ·
	9	13	: 50	: 50	*	9 :	13	50	: 50	*
Just science	46	23	: 51	:19	139	9:	8	10	: 8	35
Supt. or Principal	37	. 8	: 3	*	: 48	· · · · · · · · · · · · · · · · · · ·		•	:	:
Supt. and math.	: 14	- - -	:	•	: 14			?	;	:
Supt. and history	: B	2 4	* :	2	: 8 :	: :	:	• •	:	:
Supt. and ind. arts	: 1	4 4	1	•	: 1			• •	:	\$ \$
Supt. and grades	3		*	*	: 3	: ;		•	:	:
Supt, and agri,	; 3 :	. :	*		: 3	: :		: /-	:	** *
Supt. and commerce	* ·	; :	: 1	÷	; 1	* *		: :	*	\$ 5 9
Supt. and English	: 1	: 1	: 1	e e D	: 3	* *		2	: :	:
Supt., math., & comm.	2	: :	6. 0.	; *	: 2			;	:	*
Supt., math., & Eng.	: 1	6	**	4	‡ .1	: :		;	\$ \$ \$	
Supt. and athletics	2	1	: :	:	: 3	4 4		•	:	*
Supt., ind. arts & at	. 1	:	*	*	: 1	* *		4.	:	*
Supt., hist., & ath.	: 1	•	:	**	: 1	* *	•	:	: :	
Supt. and languages	: 1	*. *	:	*	: 1	: :	V	* * *	:	章 8
Nathematics	: 44	13	: 13	# # #	; 70 ;	11:	3	. 6	:	20
Math. and grades	4	•	* · · · · · · · · · · · · · · · · · · ·	: :	: 4	1:	_	*	*	: 1
Math. and history	: 1	÷	*	*. #	: 1	1 1		*	:	•
Math. and commerce	1	*	•	*	; 1			;	*	* * *
Math. and English	•	:	* * *		:	1:	1		:	: 2 :
Math. and ind. arts	2		: :	# # 4	. 2				•	•
History or soc. stud.	: 11	2	; 3	:1	: 17	2:	1	:	.6 *	: 3
History and English	1	¥ •	:	•	: 1	: 1:		:	\$ *	; 1

Science) 	<u>Zen</u>		Si	ize o	f seh	ocl		Homen	Mileston (Transcaling)
combined with:			13.1- 50	Over 50	т :	5.1-	9.1-	13.1- 50	Over 50	T
English	2		1.	:	; 3:	77	2	3	:	12
English & home ec,				₹ 4 *	*	2		1		3
Commerce	3	:	÷ •	* *	3;	1	*	2		3
Agriculture	12	3:	2:	:	17;	:	:	;		
Industrial arts	3 ;	2:	2:		7:	:	: :			
Industrial arts & gra	des 2	1:	1:	*	3:	:	;		• # # # # # # # # # # # # # # # # # # #	
Home economics		:	4. F	*	; :	11 :	5:		:	16
Home econ, & history	e de ju	:	** **	; ;	# # &	1:	**	1		1
Grades or Jr. High	15	4:	2:	**	21:	4 :	1:	1		6
Art	'खड भर 	:	1:	# 1	1;	ලා ඇ . ආ ද		;		
Athletics	6.	3:	7:	*	16:	3			*	
Eusic	5.	3;	4	:	s:	**	•			
Religious science	1;		1:	ı;	3:		*	;		
Hist., grades, ath.	1:		*	:	1:	:	•	;		
Speech	2.	*	1:	* t	3:		£	:		
Home ec. and grades :	*		\$. 0.	; :		3 :				3
Math. and athletics	1.	7	: 1:	Ļ	: 4:	6. 8.	; ;	, ,		
Indust. and athletics	2.	:	1:	*	3:	• •	* **		•	
Mistory and athletics	1:	;	1;	*	2:	1	12. 12. 15.			
Library	:	:	; ;	4	:	ā. 3 4	l;		*	1
Commerce & music :	:	:	13	, \$	1:	*	:			
Foreign language :	3:	;	* * * * * * * * * * * * * * * * * * *	6 1 54 6	3 [‡]	1:	4. 2. 2.		*	1
Athletics & grades ;		1:		*	1:		*	a s		
Eistory & indust. arts	<u> </u>	:	:	:	1:		:		*	
Total :	245:	65:	94:	22:	426	55	22:	23	8	108

Total for both men and women

Table XIII shows the teaching combinations with science for the 534 teachers. Of this number 426 are men. One hundred thirty-nine teach only science. Ninety are superintendents or principals of schools, and are teaching 13 different subject combinations. Forty-eight of the superintendents teach only science. Mathematics and science is the most frequent subject combination for superintendents and principals, with 14 cases.

The greatest number of cases in any one combination is science, mathematics, and another combination, with 79 cases. Mathematics and science, with 70 cases, is the one of highest frequency. Grades and junior high, with 21 cases, is the second highest for men.

Of the 108 women science teachers there were 20 who combined mathematics with their science. There are 35, however, who teach nothing but science. Home economics is second highest, with 16 cases. English runs a close third with 12 cases.

There are in all 9 combinations of science and mathematics, with 122 cases, 99 for men and 23 for women.

There are 10 combinations of science and social studies, with 32 cases.

There are 6 combinations of science and English, with 23 cases.

There are 2 combinations of science and agriculture and 20 cases.

There are 3 combinations of industrial arts and science, and 18 cases.

With home economics there are 4 combinations and 23 cases.

With the grades there are 7 combinations and 37 cases.

Within the 5.1 to 9 teacher schools there are 43 combinations which the teacher may teach, and 300 cases.

Within the 9.1 to 13 teacher schools there are 17 subject combinations with 87 cases.

Within the 13.1 to 50 teacher schools there are 21 subject combinations with 117 cases.

Within the schools of over 50 teachers there are 3 combinations, with 30 cases.

Science Combinations

5.1 to 9 Teacher Schools

Of the 257 science teachers within the 5.1 to 9 teacher schools (Table XIV) 4 of them are teaching 6 classes of science. One of these teachers also teaches music part time. Fifty-six teach only one class in science. All of these teachers have some other class to teach. Sixteen are principals or superintendents. Six teach in the grades. Four teach one other

TABLE XIV

SCIENCE COMBINATIONS FOR 5,1 TO 9 TEACHER SCHOOLS BY NUMBER OF CLASSES

**************************************	* * *		ang against and resident	*********		ajai japanan on	Ñ	ULUBI	R (A	HER	Than	SCIE	NCE				
umber d cience		High	i 3cł	1001	Only		:	Sur	erin	ten	dent	*		Gra	des		
lasses		: : 1	: : 2	: : 3	: : 4	.5	: : 0	:	: ; 2	; 3	: 4	Ò :1	: :2_	: : 3_	: 4	: .5	: : T
1	:	;	;	: : 10	1	:	•	;	: 3	5	:1		:	2	:	:2	: : 56
2	: : 3	:17	:20	: 9	: : 7	:	: 4	: 4	: : 3	: 2	; 2	:	2	2	: 1	:	: : 77
3	: 9	:15	:13	: 4		:1	: 6	: 3	*	:	* # *	: : : :3	:2	: 1	‡ ;	:1	: 58
4	:20	:11	: 2	:	: 1	**	: 5	:1	; ;	•	:1	. :1	1	· :	•	1	: 43
5	:15	: 2		•	•		: 1	. :	:	:		* *	:1	:			: 19
6	,	: 1	•			•	; 1	. :	‡ 2				:	•	:	*	: 4
Total	e G Service Strongles	*	A	: 23	: :19	: :5	:26	: 9	: : 6	: 1	:4	: :6	; 7	: 5	; 1	.3	257
Nedi	an r	uube	r of	scie	nce	clas	oses	• •	* *			• •	• •			. 2	2.95
Medi	an r	umbe	r of	othe	r hi	sh (scho	ol c	lass	es :		• •		* •		. 1	.88
Tota	1 me	dian	tes	c h i ns	loa	d.				.						. 1	83

class; five teach 2 other classes, 10 teach 3 other classes, 11 teach 4

other classes, and 4 teach 5 other classes. Of the superintendents, 9 teach no other classes, one teaches one other class, 3 teach 2 other classes, 2 teach 3 other classes, and one teaches 4 other classes.

Seventy-seven teachers are teaching 2 science classes. Fifty-six teach other high school subjects. Fifteen are principals or superintendents, and 6 are grade school teachers. Of the 77, 3 teach no other high school subject, 17 teach one other, 20 teach 2 others, 9 teach 3 others, 7 teach 4 others. Of the superintendents or principals, 4 teach nothing but science, 4 teach one other subject, 3 teach 2 other, 2 teach 3 other, and 2 teach 4 other subjects.

Fifty-eight teach three classes of science. Of this number 42 teach other high school subjects. Nine are superintendents or principals, and 7 are grade school teachers. Nine teach no other subjects, 15 teach one other high school subject, 13 teach 2 other, 4 teach 3 other subjects, and one teaches 5 other subjects. In the case of superintendents and principals, 6 teach no other subjects, and 3 teach one other subject.

Forty-three teach science 4 periods per day. Twenty-four teach in high school only, 7 are principals or superintendents, and 2 are grade uchool teachers. Twenty teach one other high school subject, 11 teach one other subject, 2 teach 2 other subjects, and one teaches 4 other subjects. Five of the superintendents teach no other subject, one teaches one other subject, and one teaches 4 other subjects.

Nineteen teach science 5 periods per day. Seventeen teach in high school only, and one is a superintendent. Of the 19, 15 teach only science. Two teach one other subject. One is a superintendent who teaches nothing but science. The median number of science classes is 2.95. The median number of other high school classes is 1.88, while the total median teaching load is 4.83.

TABLE XV
SCIENCE COMBINATIONS FOR 9.1 TO 13 TEACHER SCHOOLS BY NUMBER OF CLASSES

Number o	i .					ari, and year deep against 40 a.c.		**************************************		NUA	13113	. OII	TER.	TRA	N S	CIEN	JB.			
science		Righ	Sc	hoo.	L On	<u>1y</u>	Kiri da karanga		Sur	eri	nte	nder	2 t ;	Alle Steen Anny Jeppengdon	ohned sikes	Gr	ados			
classes	: : 0	: : 1	5	2:	3:	: 4	5	# 4): ():	1	2	3:	4	0	1	: 2	3	: 4	.5	Ţ
1	: 1	*	:	:	1;	4	3	:	•	:		:	:	1	** ** **	÷	# 1	•	‡ ;	10
2	: 2	: 2	•	2:	2:	1	1	:	3:	2		:	1	:	* .	. 1		*	: :	16
3	; ;	: 1		2:	3:		.	1	1:	;			•		:	i. 1.	•		•	7
I_{+}	: 7	: 7	:	2 :	1 :		:	:	:	;			3	2	•	e e	•	•		19
5	:12	: 1	;	# D	:	į	•	:	*	1			;	1	•	*	•	*		14
6	; 5 <u>:</u>	: 2	*			de constant de la co		3	† *	ione spromore			4		à :	*	* * *	:	:	7
Total	: :27	: :13	:	6 :	7:	5	<u></u>	:	<u>ሩ</u> :	2			-	: : 4	; ;	: 1	* * *	•	\$ *	73
in in its second	di an	num	ber	of	sci	ence	e cl	as	ses	·	÷ •			• •		•	* q '4	4,21		
i de	dian	កឃាត់	ber	of	oth	er i	nigh	l S	cho	ol	cla	sse	s .	٠.	• •	• • ,	6: s	L.54		
To	tel:	redi	an .	tead	chin	g 10	ಂತಿದೆ	•	• •	• •	• •	• •		√ 4		• •	• • ;	5+75		

Table XV shows the teaching combinations of the 73 science teachers in 9.1 to 13 teacher schools. Of the 73 science teachers 10 are teaching only one class of science. Of these 10, one teaches no other classes, one teaches 3 other classes, 4 teach four other classes, and 3 teach 5 other classes.

None of these 10 are superintendents or principals.

Sixteen are teaching 2 classes of science. Of this number 8 teach other high school classes. Two teach no other classes. Of the 8 teaching high school classes, 2 teach one other class, 2 teach 2 other classes, 2 teach 3 other classes, one teaches 4 other classes, and one teaches 5 other classes. Five are superintendents or principals. Three of this 5 teach no other classes, and 2 teach one class other than science.

TABLE AVI SCIENCE COMBINATIONS FOR 13.1 TO 50 TEACHER SCHOOLS BY NUMBER OF CLASSES

Mumber of					-						33	UMD.		Mir	A T	ian s	CLINC	Ž.			~~
science	:	li	æħ	,5 c	ho	ol	On	lv	:	Su	peri	nte	nde.	nt		(3	rades				
classes	*	;	3		:	, ,,,,,,,,	1		* *	:	****	: :	9	-	2	*	4	*	P 4	;	ALL PROPERTY AND ADDRESS OF THE PARTY AND ADDR
	: 0	:	1:	2	*	3	*	4:	<u> 5:</u>	0:	1	2:	<u>3:</u>	4:	<u>:</u>	1:	2:3	<u>.</u>	4:	5:	T
1	: : 1	:	1:	: 1	:	1.	; ;	4:	:	:	;		:	:	:	\$. \$:	:	e d	:	8
2	: : 1	•	;	: 1	# # # *	6	*	2:	:	1:	1:	: :	:	:	:	4 5 4	;	•		:	12
3	: : 3	\$ \$: 3 :	: 3	;	1	•	*	# 0 4	1	:	: :	:	:	\$ 2 0	1:	*	*	:	÷	11
-	: 10	:1	1:	2	•		• •	:	5 2	:	;	: :	*	:	1:	* *	:	\$ \$	4	:	24
	: :30	:	1:	;	* * *		0 1 2 5	\$ 2	:	:	;	: :	;	:	* *	9	:	:	:	:	31
6	: 6	•	-	:	:		*		:	*	;	: :	£:	:	:	* *	:	:	:	:	6
	1	:	ATRICAL PROPERTY AND ADDRESS OF THE PARTY AND		:	or or many than in	#. 0 10 10 10	*		•		1	:	:	*		:	*	:	:	
Total	: :51	:1	<u>6</u> :	7	:	8	:	<u>6:</u>		1:	1	:		:	1:	1:	*	:	:	:	92
Hedi	an n	um	bei	r o	£	sci	.en	Сe	clas	ses		•						. <i>Î</i>	.62		
Medi	an r	ugi	be:	r o	f	oth	er	hi	gh s	cho	ol o	las	ខឲន					•	.88		
Tota	.l me	di	an	te	ac	hin	ig .	loa	d.	• *								. 5	.50		

Table NVI shows the science combinations for the 92 teachers in schools of 13.1 to 50 teachers. Of this number, 8 teach only one period of science per day. Seven of this eight teach other high school subjects. This leaves one, who teaches no other subject. One teacher teaches one other class, one teaches two other classes, one teaches 3 other classes, and 4 teach 4 other classes.

Twelve teach 2 classes of science each day. Nine teach other high school classes, and 2 are superintendents or principals. One teaches nothing but science, one teaches 2 other classes, 6 teach 3 other classes, and 2 teach 4 other classes. One of the superintendents teaches nothing but science, and one teaches one other subject.

Eleven teach three science classes per day. Of this number 7 teach other high school subjects, and one teaches in the grades. Three teach one other class, 3 teach 2 other classes, and one teaches 3 other classes. Three teach no other high school classes.

Twenty-four teach 4 classes of science per day. Thirteen of these teach other high school subjects. Of this 13, 11 teach one other class, and 2 teach 2 other classes. Ten teach no other high school classes.

Thirty-one teach 5 classes of science per day. One teaches one other high school class, and 30 teach no other classes.

Six teach 6 periods of science. These teachers teach nothing but science.

The median number of science classes is 4.62 classes per day. The median for other high school classes is 0.83 classes per day, which gives a total median teaching load of 5.50 classes per day.

TABLE XVII
SCIENCE COMBINATIONS FOR OVER PIFTY THACHER SCHOOLS BY NUMBER OF CLASSES

* ************************************			net-autori	******				*******		********	l	Wie	ER (TIME	18 T	HAV	50	T.	HCE				
Number science			i	gh	(3)	cho	ol	On	ly	:	Sur	eri	.nte	uder	nt	:			Gr	ades			
classes		0	1	1	,	S :	3	:	4:	5	0	: : 1	: 2	: :3	: :4	:0	; 1		2	3	: : 4	: : 5	: : T
1	;		:	1	:	*		*	:		:	:	*	:	:	:	:	0		•	:	•	*
2	*	2	*	;	:	*			3	;	•	*	:	:	*	***	;	**************************************		*	:	: :	: 2
3	:	2		2		9 9 9 8			÷	; ;		:	: :	:	:	#	:	• • • • •		:	*	÷	: 4
Ą	;	3	:	:	:	:		;	ž Š	:		:	•	:	:	*	:	4		:	* *	**	• 3
5	:1	7	:	;		* 6		•	:	;	;	:	:	:	:	5	:	6.9		7	:	:	:17
6	•	14	:	;	• : :	£		7	***	;	:	:	*	*	:	*	:			\$ # 0	<i>‡</i>	*	: 4
Total	: ;2	3	:	2	-	•		*	***************************************				:	*	*	0 0 0	:	2 7		t	*	*	: 30
Иe	dian	n	un	he:	r (oſ	sci	ien	ce	cla-	3308	·		• •		* *	œ	•	* *	. 5	.70		
He	dian	n	uni	be:	r (oſ	oth	er	hi.	gh :	scho	ool	cla	sees	·		٥	•	• •	•	0		
ුිං	tal	DIO.	di	an	t	eac	hir	ķ	loa	d.	•	•	• •	8 4	•	• •	•	•	• •	•	5.70		

Table MVII shows the science combinations for the 30 teachers in schools of over 50. No teacher teaches less than 2 subjects in science. Two teach 2 classes of science each day. Four teach 3 classes in science. Two teach nothing but science, and 2 have other high school combinations, in which they teach one class. Three teach 4 periods of science, 17 teach 5 periods, and 4 teach 6 periods.

The median number of science classes taught per day is 5.70. The median of the other high school classes is 0.01. This gives a total of 5.71 as the total median teaching load.

TABLE XVIII
SCIENCE COMBINATIONS FOR ALL TEACHER SCHOOLS BY NUMBER OF CLASSES

	:									NU	ME	ER O	T	HER TH	IAN SC	ENCE			
Number o	f:			I	ig	h Sch	noc	ol On	1;	У					Sur	perinte	endent		
classes	:	0	:	1	:	2	:	3	** **	4	:	5	:	0	1	: 2	: 3	:	4
1	: :	2	:	5	:	6	: :	12		19	:	7	: ::	9	1	: 3	2	:	1
2	:	8	:	19	:	23	:	17	*	10	:	1	:	8	7	: 3	. 2	:	2
3	:	14	:	21	:	18	:	8	:		:	1	:	7	3	:	:	:	
4	:	40	:	29	:	6	:	1	:	1	:		:	5	1	:	:	:	1
5	:	74	:	4	:		: :		** **		:		:	1	:	:	:	:	
6	:	17	:	3	:				:		: :		:	1		:	:	:	
	:		:		:	-	:		:		-		:		-	:	•	:	
Total	:	155	:	81	:	53	:	38	:	30	1	9	:	31	: 12	: 6	. 4	:	4
Per cent	3	4.29	:	17.9	2:	11.7	3:	8.41	:	6.64	:	1.99	:	6.86	2.65	:1.33	: .88	:	.88

N			N	UMBER O	THER THA	N SCIENC	E	
Number of science			Gr	ades			:	
classes	0	: 1	: 2	1 3	: 4	: 5	: : Total	: Per cent
1	1	1	1	: 2	:	: 2	: 74	: 16.37
2		: 1	: 3	: 2	: 1		: 107	: 23.67
3		: 4	: 2	: 1		: 1	: 80	: 17.66
4	3	: 1	1 1	:			: 89	: 19.47
5	1	1	1 1	:		130-	: 81	: 17.92
6		:	:	:			: 21	4.65
Total	5	7	: 8	: 5	: 1	: 3	: 452	
Per cent	1.11	1.55	: 1.77	: 1.11	: .22	: .66	:	

TABLE XVIII Continued

edian number of science classes
edian number of other high school school classes 3.50
otal median teaching load
edian number of science classes in small schools 12 2.65
edian number of other high school classes
otal median teaching load
otal per cent for high school only
otal per cent for superintendents
otal per cent for grades 6.40
otal per cent for small high school only 12
otal per cent for superintendents 12
otal per cent for grades 12
edian number of science classes 12
edian number of other high school classes 12
otal median teaching load load

teachers in the state of Oklahoma. Complete information was obtained for 452 teachers. Of this number 74 or 16.37% teach only one class of science per day. Fifty-one or 80.98% teach in high school only, 16 or 12.60% are principals or superintendents, and 7 or 6.40% teach in the grades. Two of the 51 who teach in high school only teach no other subjects, 5 teach one other classes, 6 teach 2 other classes, 12 teach 3 other classes, 19 teach 4 other classes, and 5 teach 7 other classes. Of the 16 superintendents and principals, 9 teach nothing but science, one teaches one other class, 3

¹² Thid., page 43

teach 2 other classes, 2 teach 3 other classes, and one teaches 4 other classes.

One hundred and seven or 23.67% teach 2 science classes. Of this number 78 teach in high school only, 22 are superintendents and principals, and 7 teach in the grades. Of the high school group 8 teach no other classes, 19 teach one other class, 23 teach 2 other classes, 17 teach 3 other classes, 10 teach 4 other classes, and one teaches 5 other classes. Eight of the superintendents teach no other classes, 7 teach one other class, 3 teach 2 other classes, 2 teach 3 other classes, and 2 teach 4 other classes.

Bighty or 17.66% teach 3 classes of science each day. Sixty-one teach in high school only, 10 are superintendents and principals, and 8 are grade school teachers. Of the 61 high school teachers, 14 teach no other subjects, 21 teach one other class, 18 teach 2 other classes, 8 teach 3 other classes, and one teaches 5 other classes. Of the superintendents and principals, 7 teach nothing but science, and 3 teach one other subject.

Eighty-nine or 19.47% teach science 4 periods per day. Seventy-seven teach only in high school, 7 are principals or superintendents, and 5 are grade school teachers. Of the 77 high school teachers, 40 teach only science, 29 teach one other class, 6 teach 2 other classes, one teaches 3 other classes, and one teaches 4 other classes. Five of the superintendents teach nothing but the science, one teaches one other class, and one teaches 4 other classes.

Eighty-one or 17.92% teach 5 periods of science per day. Seventy-eight teach in high school only, one is a superintendent, and 2 teach in the grades. Seventy-four of the high school teachers teach nothing but science. Four teach one other high school subject. The superintendent teaches nothing but science.

Twenty-one or 4.65% teach 6 periods of science per day. Seventeen

teach nothing but science. Three teach one other high school subject. One is a superintendent.

The median number of science classes per day is 2.35. The median number of other high school classes is 3.56. The total median teaching load is 5.91 classes per day.

The median number of science classes for the small high schools is 2.62¹³. For the other high school classes it is 3.07 classes, which makes a total of 5.69 classes per day. The total median load varies only .22 class between the large and small high schools. Eighty per cent of the teachers in large high schools teach high school only, while it is only 60.85 per cent for the small schools.

¹³ Ibid., page 43

CHAPTER III

SUMMARY OF THE FINDINGS OF THE STUDY. IMPLICATIONS AND RECOMMENDATIONS.

About 79% of the science teachers in schools of over 5 teachers in Oklahoma for 1939-40 were men. One hundred eight or 21% were women. Thirty-three or 6.62% are teaching their first year, 24 or 6.07% for men and 8.73% for women. The median experience for men is 7.05 years, and 5.49 years experience for women teachers. One hundred six or 21.07% of the science teachers are teaching their first year in the present district.

Eighty-three or 20.6% of the men and 22.54% of the women are teaching their first year in the present district. The median experience for men in the present district is 1.81 years, for women, 1.46 years. The median experience for both men and women is 1.74 years.

The median number of semester hours for college biology is 16 hours. The median for physicalogy is 4.25 hours, the median for physical science is 18.11 hours, and the median for geography is 5.50 hours. The median for psychology is 1c. because in many cases the abbreviations used in designating psysiology and physics were the same. For this reason some of the physiology is probably included in physical science.

In the break down of the teaching fields, the median for biology is 15.67 hours, zoology 6.11 hours, botany 5.43 hours, physiology 4.25 hours, chemistry 9.45 hours, physics 7.68 hours, geology 5.84 hours, and geography 5.05 hours. Biology has the largest median number of hours.

The median number of semester hours of college science for men science teachers in the large secondary schools of Oklahoma is 36.44 semester hours of various sciences. The women had a median of 34.00 semester hours. The median for both men and women was 36.10 semester hours. Only 2 reported less than 5 hours of college work in science. Twenty-three reported over

95 hours in science.

There is a direct relationship between college training and salary. The median salary for 123 hours or under is \$85, for 124 to 153 hours it is \$125.57, for 154 hours and over it is \$148.46. This would indicate that the more college training the greater the salary for science teachers.

The more years experience a teacher has, the greater his salary. The madian for teachers having no experience is \$88.13, for 1 to 3 years experience it is \$93.12, for 13 to 15 years it is \$155.67, for 16 to 18 years it is \$174.00, and for ever 19 years it is \$187.00.

There is no direct relationship as to the size of school and teaching experience. The median years experience for these teachers is 6.56. The median for the most part was close to this for each of the sizes studied.

Mathematics, history, and superintendent, in the order given, are the most frequent combinations for men. Mathematics, home economics, and English are the most frequent combinations for women.

The median science teacher in large high schools of Oklahoma during 1939-40 taught 11.85 classes of science per week. He had a median of 2.38 science classes and 3.56 other classes each day, with a total teaching load of 5.91 classes per day.

TABLE XIX

COMPARISON BETTEEN SECONDARY SCHOOLS IMPLOYING HORE THAN 5 TEACHERS

AND THOSE EMPLOYING LESS THAN 5 TEACHERS

Teachers Employed		-	Hrs. for: Biology:	Mrs. for	: Mrs. for	:Total number :Sem. hrs. of
Under 5	: 6.53	1.68	15.33	6.22	: : e.46	; ; 32.72
Over 5	: : 6.73	1.74	16.00 :	4.25	18.11	: : 36.10

Teachers Employed	: Median : Hrs. for : Geog.	: Science Periods	: Median	: Periods	: History	-
Under 5	5.50	9.19	: \$107.05	9.12	7.57	5.69
Over 5	5.40	17.39	: \$122.61	; ; 5.92	: : 5.92 :	5.91

Table XIX shows that teachers in schools employing over 5 teachers have a little more experience, only a slightly better tenure in their present district; more hours of biology, physical science, and general science; a higher median salary; teach more science and fewer other subjects; and have about the same teaching load when compared with schools of under 5 teachers.

The writer feels that this thesis includes only a few of the significant facts which could be gathered about science teachers and science teaching.

It would be interesting to note the relative size of classes in the different size schools, the amount spent for laboratory and instructional apparatus, and the number of periods of laboratory instruction offered by each teacher. It would be interesting to repeat this study to see what effect national defense is having on science teaching.

			Al	

Dist. No._____ School____ Post Office__ County___

APPLICATION FOR HIGH SCHOOL ACCREDITING, 1940-1941

This Copy for County Superintendent's Files

STATE OF OKLAHOMA DEPARTMENT OF EDUCATION PART I. GENERAL INFORMATION DIVISION OF HIGH SCHOOL INSPECTION

White	 	-	
Colored_			_

This application is to be filed with the State High School Inspectors, State Capitol, Oklahoma City, Oklahoma, prior

	emper	4. 4	r cob	y is t	o be	repu	OH I	110 11	une o	declaration (but)	OI OI	e local superintendent.	Trempe one Tabentiner
								CER	TIFIC	ATE	OF	ACCURACY	
I	hereby	cert	ify th	hat t	he in	nform	ation	con	tained	in t	he fo	ollowing report is complete an	nd correct.
0.													
												(Please sign here)	Superintendent-Principal
												incipal	
Herk (of Boa	rd				8	Schol	astic	Enum	eratio	m, 1	40 Date regular term	n of school opened
To. St	udents	recei	ived 1	by tra	nsfer	r: Gr	ades.		_H. S.		Ar	e pupils transported to your	school?
1. D	o all	teache	rs, p	rincip	als, a	ind si	uperi	ntend	lent no	ow ho	old p	roper Okla. State certificates va	alid during school year
2. A	re off	icial t	ransc	ripts	show	ing F	I. S.	and	College	e wor	k of	all teachers on file in office of	of Prin. or Supt
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		6 10 7										747 75 163828 184639	
4. N			l sch	ools g	ive a	ctual	num	ber o	of days	taug	ht f	or school year 1939-1940	
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4. N 5. G	ive ty	pe of	l sch orga	ools g	ive a ion:	ctual (8-4)	num	ber o	of days	taug	ht fo	or school year 1939-1940	(6-3-3),
4. N 5. G 6. D	ive ty	pe of	orga an a	ools g	ive a ion: red J	ctual (8-4) unior	num	ber o	nool?	taug	ht fo	or school year 1939-1940	(6-3-3),
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4. N 5. G 6. D 7.	At clo	pe of have PUPI ose of weeks year	orga an a L EN	cools garage and a cools garage and a cools garage and a cool gara	ive a ion: ved June MEN Num pron last 3	ctual (8-4) unior VT nber noted year	num High	n Sch	Averadai attend last y (Not	age ly lance rear %)	a. b.	Total number of teachers in (Account for all high school a ers, including superintendent Number of full-time high s (Give all teachers, including principal, who teach only in Number of part-time high s (Account here for each mem be above who teaches one imore) Full-time equivalency of part teachers	the school system on delementary teachand principal) chool teachers superintendent and high school) school teachers or not included in high school class or other or the high school
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tion credit a. Fewer than	ol pupils can n four units			25.	No. High School a. Fewer tha	ol teachers teachers teacher 141 pupils_		
b. Four units					b. 141-150 pur	oils		
c. More than	4 but less th	han 5 un	its		c. 151-160 pur	oils		
d. Five units					d. More than	160 pupils _		
	five units				e. Total No.	High School t	eachers	
f. Total High						teachers hav	ing an	Aver-
No. Units requi					age Daily Atte	ndance of		
						30 pupils		
a. By local s						\$		
b. In college						39 pupils		
CONTRACTOR OF THE PARTY OF THE					d. Total No. 1	Elementary teac	hers	
d. In Mathem				27.	Check activities	s sponsored by	school	
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f. In laborator	ry science _		-		b. Assembly _			
g. in					c. Clubs			
h. In					d. Newspaper			
i. In					e. Annual			
No. High Scho	ol teachers t	eaching o	daily		f. Handbook			
a. Fewer than	four classe	S			g. Magazine			
b. Four classe	8				h. Student pa	rticipation in	Governme	ent
c. Five classe	S			28.	Does school pr	covide for		
d. Six classes					a. Guidance			
e. More than	six classes_				b. Library ins	truction		
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f. Total No.	High School Use invoices	teachers		29. LABC	c. Physical an	d Health Educa	30. Rea	ders for
f. Total No.	High School Use invoices No. volumes added since	and inv	entories) Tot. number	29. LABO	c. Physical an RATORIES (U Cost of Equip. added since	se invoices) Cost of equipment	30. Rea	ders for grades
f. Total No. 4. LIBRARY Department nglish fiction	High School Use invoices No. volumes added since	and inv	entories) Tot. number	29. LABO Subject and department	c. Physical an RATORIES (U Cost of Equip. added since	se invoices) Cost of equipment	30. Rea elem	ders for grades
f. Total No. 24. LIBRARY (Department	High School Use invoices No. volumes added since	and inv	entories) Tot. number	29. LABO Subject and department General Agriculture	c. Physical an RATORIES (U Cost of Equip. added since	se invoices) Cost of equipment	30, Rea elem Grade One	ders for grades
f. Total No. 24. LIBRARY Department nglish fiction nglish non-fiction ropean History	High School Use invoices No. volumes added since	and inv	entories) Tot. number	29. LABO Subject and department General Agriculture Biology	c. Physical an RATORIES (U Cost of Equip. added since	se invoices) Cost of equipment	30. Rea elem Grade One	ders for grades
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Typist -- Lucille Philips