A PROPOSED PLAN FOR THE CONSOLIDATION OF SOME OF THE WIGH SCHOOLS OF JEWELL COUNTY

by

GEORGE GERALD HENSLEY

B. S., Kansas State Teachers College of Emporia, 1926

A THESIS

submitted in partial fulfillment of the

requirements for the degree of

MASTER OF SCIENCE

KANSAS STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCE

1934

TABLE OF CONTENTS

	Page
INTRODUCTION	2
NODERN TROUGHT CONCERNING THE PROBLEMS OF CON- SOLIDATION	4
MODERN TRENDS IN SOLVING THE PROBLEMS OF COM-	8
PART I. A SURVEY OF THE PRESENT WIGH SCHOOL SYSTEM IN JEWELL COURTY PROM 1929-1933	11
PART II. A PROPOSED ENRICHED GURRICULUM POR HIGH SCHOOLS IN RURAL AREAS OF KANSAS	27
PART III. THE PROPOSED PLAN FOR CONSOLIDATING SOME OF THE HIGH SCHOOLS OF JEWELL COUNTY	38
ACKHOWLEDGHENTS	83
REFERENCES	89

One of the many problems facing boards of education and school edministrators of the public high schools of Kanses is that of consolidation or better, co-ordination. Everyone is ready to grant that our present plan of districting, edministration, and organization is antiquated and deserving of the junk heap, yet few are ready to grant the concessions necessary to improve the situation. There has been a lack of the proper educational end legislative leadership in solving the problems of the school.

If we ere to profit by the present deplorable situotion we must ley our plans on a larger seals. Whole counties or ereas geographically end sociologically suited for new units should be surveyed and reorganized.

The magnitude of the problem of consolidation can be greatly lessened if those who support the schools can be enlightened concerning the definite edvantages of school contralisation and co-operation. The many sociel, governmental, end economic changes of the day seem to indicate that now is the proper time to focus added attention on the desired and needed changes in school organization.

Wistorically, school consolidation is no new and untried experiment. The state of Messechusetts began its system of school consolidation as early as 1869. The movement spreed to other New England states and on to the Hiddle West and more recently to the South and the Par West. The edvent of eafe, repid transportation and good ellweather roads in rural districts makes it a very worksble scheme.

That there ere great possibilities for the consolidation of the small high schools is evidenced by the feet that the reports of 1930 show that 34 per cent of the public high schools of the United States here en enrollment of fewer than a hundred pupils, and that more than 74 per cent have an enrollment of fewer than two hundred pupils (6). In 1932 there were 369 or 63 per cent of the Kenses high schools with an enrollment of seventy-five or fewer pupils of which 29 per cent employed three or fewer teachers (14). In 1933 there were 28 high schools with enrollments of treaty or fewer. The records show that in 1932 there were seventy-three consolidated high schools in Kenses (2).

Consolidation is not offered es e penaces or magic but it does efford possibilities of a bronder, richer curriculum, better buildings end equipment, better teeching end supervision, es well as e means of eliminating a part of the burden of heavy texes. In short it offers greater educational and economic efficiency. The plan, as proposed in this thesis, for consolidating some of the high schools of Jewell County, leaves room for considerable criticism. However, as in the case of a moving train, what we see depends lergely on our relative position with respect to the train. It has been the purpose of the writer to propose a plan as practicable and as useble as possible, and one that is espable of creating the best educational edwartages at the least cost.

MODERN PRODUCT CONCERNING PROPLEMS OF CONSOLIDATION

Most progressive changes involve the loss of some old edvantages but a greater geln in new virtues. Gonsolidation is no exception. In consolidation the losses end geins may be thought of as financial, educational, and sociological. To provide better educational efficiency through an enriched end broadened curriculum, designed to meet the community needs, is a decided edvantage in favor of consolidation. Likewise the possibilities of securing better teaching and supervision, more complete extra-curricular estivities, made possible through larger enrollments and the improvement of the specific content of courses, indicate more edvantages.

Proposals end ections that remove small schools to other localities, may produce some sociological losses that

It seems to be reasonable to assume that in agricultural sections e large part of the population will continue to reside in rural areas. Present trends seem to indicate that the migration movement from country to eity has been reversed. During 1932 more than a willion people migrated to the farm. Gaumnits reports a fairly high correlation between the number of schools provided in rural communities and the proportion of those ettending high school (8).

There is a possibility that the consolidation of many small schools into one large centralized school may be detrimental. Carney expresses it thus:

"What we need, end must have, to solve the problem of rural education, is not en urben school, whose influences lead young people of the farms directly evey from the land, but a country school, improved and modernized and adopted to the needs of present country life," (5)

Any proposel for consolidation involves co-ordinating the ideal and the practical to the best edvantage. What is the ideal enrollment to be attained by consolidating? Stuart saves "It seems the rule should be that the enrollment should be large enough to make reasonable provision for developing all forms of shilty without undue cost." (15)

He states further in considering cless size;

A low pupil-teacher ratio is one of the characteristics of the small high school. Yery often this low ratio indicates high per pupil expenditures and too many close preparations per day for each teacher. Cyr comments on the ralationship between pupil-teacher ratio end the size of the high school es follows:

"A careful study of the relationship between pupilteacher ratio end size of high school, beed on date from 51 states, shows that the medien number of publis per teacher rises from 13.2 in almost with enrollments of the world of the second of the second of the second of the whole the date were charted on a graph the median curre rose radidly until schools of 60 pupils were reached, then held with a fair degree of steadiness at a pupil-teacher ratio of 80 to 81 for schools between 100 end 200 where it for 80 to 81 for schools between 100 end 200 where it reached a ratio of 25 pupils not teacher. For schools beflexhed a ratio of 60 pupils were teacher. For schools beflexhed a ratio of 60 pupils were teacher. For schools be-

Allen says in commenting on the rural high schools of Manses:

"The teachers are thoroughly sequainted with each pupil, and study his personality and provide him with individual strention. The teachers unquestionably have greater end better opportunity to make their teaching personel and leating." (2)

Platt, writing in the School Review, says:

"America can not afford to ewait the practicability of consolidation. The human waste is too great, unhappiness, vocational misplacement, and loss from undiscovered gentus makes the price too great. Alternations involving a lasulation of the state of the consolidation of the consol

Forriss writes:

"The small high school is a social institution which is astablished, maintained, and largely controlled by the community. It is its one great co-operative enterprise."

(7)

Towns writes:

"The field of the rural high school is virgin and its davelopment cells for the piemes, who seems the fielure with a stout hearts---- The rural high school represents another of the finest attitudes in a responsible eitienship, it is that unorganized, everyday experience of constate thereon youth and maturity that builds into the vary taxture of life a ruggedness and vitality that offers a challange to every other influence, good or bad, (16)

Cyr, writing in the Teachers College Record, says:

"The small school in its community has many advantages in providing an integrated oursioning closely related to the scivitian of the community. In Garmel, New York, a careful study of the pupile interests and meeds is made, and them community resources are used to develop and meet them. A local banker tesches a source in preticial active the bank to work two hours a week; a local artist teaches at to a high school girl, etc., "(6)

The setion of other states in solving the problem inwelved in high school consolidation seems to indicate that the precitical solution may come from consolidation coupled with co-profination.

State aid for those districts willing to consolidate is found in some states. Minnesota offers aid depending on the degree of consolidation on a graduated scale to \$1500 per year for each district consolidating. Minnesota also greats building aid, direct from the state treasury. As early as 1919, Pennsylvania paid \$200 annually for each school consolidated and reimbursed the district in one-half the amount spent for transportation, not including purchase and repair of vehicle, spent during the previous year (3). New York pays one-half the transportation costs by state aid for approved centralized schools, and building aid to the extent of one-fourth the amount expended (6).

Other states are relying on the idea of more complete centralization by sponsoring the development of one country high school. California uses successfully the union high school idea, which combines several districts into one. Another satisfactory plan provides one central school with other branch schools, which are occordinated and supervised The redic offere an undeweloped medium for enriching the curriculum. In 1932, Nabraska furnished ocurses to mineteen small high schools by redic. This field may have great possibilities but meds research and experimentation to prove its worth. Nebraska has developed a state-wide system of elternation of classes, and has an organised staff ready and willing to easist in installing such schedules. Special funds are provided in Nebraska through aid from the Carmegic Corporation to study ways of enriching the curriculum (12)

In Ohio and Maryland, circuit taschers are sometimes provided to teach music in the schools of the county (8). In ordered to teach music in the schools of the county supervisors of agriculture and home accommics, who are in reality circuit teachers carring as meny as eight schools and 170 pupils (8). In Columbia County, Pennsylvenia, two schools twenty-four miles spatt have employed a teacher of vocational agriculture and a teacher of home economies together. They ge to one school in the morning and to the other in the aftermoom (6).

A plan outlined by Windes, using the county as a basis, suggests a county director, a county staff of subject matter specialists for each field, s good men to head each school with a small teaching staff and a secretarylibrarian in each school. The specialists would prepare the work for individual instruction, job assignment or contract plan, then they would visit each school regularly and supervise the school teaching staff in handling the work (19).

In conclusion, it might be said that case of the desired results of consolidation may come from (1) county co-ordination, (2) itinerant teachers, (3) correspondence courses, (4) subject matter specialists, producing and then supervising the courses for the school, (6) radio, (6) state-wide system of class altermation, and (7) creating a special department of the office of State Superintendent for the study of school consolidation and co-ordination.

PART I

A SURVEY OF THE PRESENT HIGH SCHOOL SYSTEM OF JEWELL COUNTY FROM 1929-1935

Present Organization of Districts

Jewell County has twelve high schools, eix rural high schools, five city high schools, and one, Northbrench Academy, which is a Priends tuitional school. Since the academy is not a public high school and probably will continue to exist regardless of new plans, information concerning it will not be presented.

The organisation and present status of these schools is typical of the story of the evolution of secondary education in Kansas. The first high schools were the town schools. Later came the rural high schools with the conversion of some of the town schools into the rural high school type.

The high schools at Jewell City, Lovewell, Mandall, lenis, Athens, and Montrose are rural high schools while Mankato, Rabom, Durr Cake, Formoso, and Webber are pure representatives of the extension of the town graded schools to include secondary education. Maturally the date of organization of the six rural high schools was later than 1011, which is the date of the first legislation permitting the organization of that type of high school. Athens was organised first in 1916, and the five others were organised in the period from 1920 to 1924.

The first law permitting the organization of rural high schools required that the new rural high school district should have a valuation of at least two million dellars. Later the requirement was shanged by substituting an area requirement of 16 square miles for the valuation requirement. The present law permits districts with valuations of two million dollars or more to organize as rural high school districts. The present law also provides that her wrural high school districts, having a valuation of one and one-fourth million dollars, may be organized in counties that have a population of 18,000 to 20,000 people and a total valuation of from 45 to 50 million dollars, mowever, many of the town schools failed to organize, due to low valuations, higher tax levies than the surrounding territory, and the lack of genuinely interested leadership.

A study of figure 1 shows the present districts. It is interesting to note that only 370 aquare miles are included within the high school districts. The total county area is 900 square miles. A study of the enrollment of Mankato Righ School, located in the town of greatest population within the county, shows that nearly 45 per cent of the students come from the surrounding rural area. Students

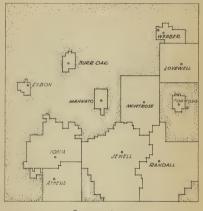


FIGURE - 1 _

A MAP SHOWING THE HIGH SCHOOL DISTRICTS OF JEWELL COUNTY KANSAS

ORGANIZED

NOT OPGANIZED

residing outside my high school district and honce in the unorganised territory, may attend high school without paying a tuition fee. However, the school which they attend reseives three dollars per week for the time they are in school. This tuition is derived from a special levy on the unorganised territory. The data in table 2 show that only two schools, namely Webber and Formoso, can offer the present educational advantages for \$108 per yourly per year.

The unorganised territory was taxed 1.5 mile in 1930 and 1.4 mile in 1931, but in 1933 the levy was increased to 2.6 mile, due to lower valuations but a constant tuition rate.

In 1935, the valuation of all the high school districts was \$16,629,360 while the valuation in the unorganized territory was \$10,908,390. The inverse relation between size and valuation of organized and unorganized area is due to the accountration of wealth in the towns.

Table 1 shows the inequality in areas of the districts resulting from different types of organisation. The district areas vary from 3.6 to 90 equare miles. The inequalities in valuation are naturally apparent. The mean valuation for the five-year period 1929-1933 shows variations from \$537,540 to \$4,504,627. The valuation per high school pupil varies from \$8,700 in the Rabon district to

Showing Average Valuation, Envellment, Tax Lovy in Mills, Area, Fupil-venebre Natio, and Charaffeetien of Each Migh School Thattiet in Jersil Gomery, Eace on Data Greating Table 1.

5ehoo1	Tex levy fn mills	; ; ; Valuation	: Number: Number : of : of : pupils:teachers	: : : : : : : : : : : : : : : : : : :	ipil-teache	: ::Gassifi :cotions
Athens	4.7	1.251.556		98	10-1	0
Burr Oak	12.8	905.508	_	6.76	17-1	100
Kabon	19.4	609,600		8.80	18-1	20
Pormoso	15.1	644,771		10	18-1	(6)
Tonia	4.0	1.695,211	87	88	14-1	0
Jewell City	4.8	4.504.827	130 8.8	06	12-1	٧
Lovewell	4.7	1.664,186	58	36	13-1	80
Menkato	18.1	2.027.559	131	7.6	18-1	4
Hontrose	8.6	1.717.837	800	47	8-1	80
Randall	20.0	5.136.298	26	7.4	15-1	80
Webber	8.0	837.840	28	9.6	19-1	8

"As assigned by Stete Department of Education.

SEC,960 in the Jewell City area. Thus the educational burden is very unequally distributed. Tax levies in Jewell County are higher in the small areas, verying from 3.4 mills in Embed. The levies shown for city high schools include the expense of the graded school, while rurel high school levies are purely for high school purposes. This is due to the fact that the records do not show these items separately in city schools, nor can an accurate estimate be made. However, the city levies may be divided by half and still show large inequalities with the rural high school districts.

Table 1 furnishes information on enrollments, number of teachers, and the pupil-teacher ratio. All data in table 1 is the mean based on years 1959-1935 inclusive. The classification of the school, based on the standards of the State Department of Education, is furnished. Two schools are members of the North Central Association. The mean county enrollment was 806 per year for all schools. The mean number of high school teachers and principals was 868. Mowever, there were but 40 employed during the 1935-1934 school year.

Cost of Instruction end Annual Current Expenses in Verious Schools

A study of the records shows that the everage amount spent per year for instructional purposes, salary of tesshers, end instructional supplies, for the entire county was \$67,058, while the everage cost per year for current exponses for the county was \$117,691. The date shows that 74 per cent of the total expenses was for instruction. The everage selary for high school teachers was \$1,351 and the everage principal's salery was \$1,849.

Table 2 shows the annual per-pupil cost for instruction and current expenses for each of the schools. The ennual per-pupil cost of instruction vertee from \$71 in Webber with en enrollment of 39 pupils to \$174 in Montrose with en enrollment of 35 pupils. Webber's low cost may be charged to its being e two teacher school with the consecuent marrow curriculum while Montrose's excessive perpupil cost is due to providing four teachers for fewer pupils than Webber. One shows economy et e scerifice of educational efficiency with increased costs. The mean per-pupil cost of instruction for the entire county based on the total number of pupils end the total instructional cost was \$100. The mean summel per-pupil cost for current expenses based on the total number of pupils and total cost was \$146.

of Instruction end Current Ex-Per-pubil Cost Showing Mean Annual Table 2.

		1	: Deviation	: Devietion
	: Hean annual	s Mean annual	from mean	from mean
	per-pupil	: ber-pupil	: for per-	rfor per-
	s coot of	scost of	spupil coet	spupil cost
Sehool	: in-	teurrent	setruction	sof current
Athens	\$131	\$146	+ 25	0
Burr Oak	36	181	+ 16	88 *
Esbon	119	151	+ 11	4
Pormoso	98	106	- 10	- 40
Ionia	66	113		e 555
Jowell City	109	126	+ 1	- 20
Lovewell	118	134	+ 10	9
Manicato	111	148	+	09
Montrose	174	013	99 +	+ 64
Randall	106	131	8	- 16
Webber	r.	06	- 24	- 56

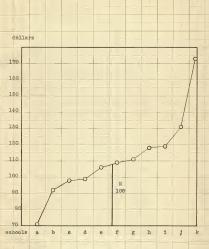
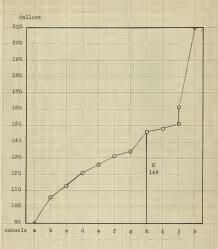


Fig. 2. Graph showing the mean annual per-muril cost for instruction for the period 1928-35. Hafs schools Jewell County. a, Webber; b, Burr Cak; c, Formoso; d, Ionis, e, Randall; f, Jewell City; g, Manatto; h, Lovewell; j, Ebon; j, Kthens; k, Montroes.



Pig. 3. Geanh showing animal personal cost for coursent axpenses in the tith schools of 'wewll County based on the mean for the years 1929-23. 4. Webber; b. Formoso; c. Ionia; d. Burr Cak; e. Jesell City; f. Randall; g. Lovewell; b. Athens; i, Mankato; j. Rabon; k. Montrose.

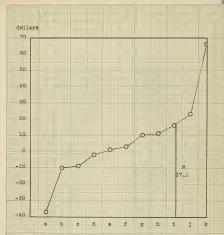


Fig. 4. Graph showing the deviation from the mean for annual per-pupil oss of instruction in the high schools of Jewell County, a, Webber; b, Formono; o, Ionia; d, Randall; e, Jewell City; f, Mankato; g, Lovewell; h, Esbon; i, Burr Osk; j, Athens; k, Montrose.

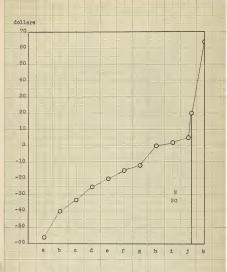


Fig. 5. Greph showing the deviation from the mean for the annual per-pupil cost based on ourrent expenses of Jewell County. a, Weber; b, Formess; o, Ionia; d, Burr Cak; e, Jewell; f, Randall; s, Lowesell; h, Athens; d, Mankato; f, Babon; k, Rontrees.

The Present Curriculum of the Various Schools

Table 3 shows the various subjects offered in the eleven schools during the two years 1932-1933. It shows that the offering of the smaller schools is in the main, confined to constants end courses leading to college preparation. Agriculture, clothing and manual treining are offered in et least ten of the schools. At present there is not a single school offering vocational agriculture. Two schools have recently dropped it due to two causee: namely, for the curtailment of expenses, and because of the difficulty in maintaining enrollments in that course. Jewell City has recently set up a course somewhat eimilar to the vocational agriculture course. Vocational homemaking as a course is not found in the entire county. end but one school offere a complete commercial course. The general offering of purely academic subjects seems to be good but in many cases limited. Fine erts have but little place in the schools and in general music consists of limited group ectivities. Two schools offer normal training courses and two others offer classes with the intention of helping to prepare their graduates for teaching. Two schools have physical training classes,

Table 4 shows the various activities offered and the

Table 3. Showing Subjects and Number of Schools Offering Each in the Eleven High Schools of Jewell County during the School Years 1932-33 and 1935-34

	: No. : sehools			o. shools
	ing	1	Subject :1	
English I	11	_	Shorthand	1
English II	11		Penmanship	1
English III	11		Com'l Arith	3
English IV	4		Com*1 Law	3 8 3 1 1 9
Algebra I	11		Letin I	8
Geometry	11		Latin II	3
Solid Geometry	1		Spanish I	1
Adv. Algebra	3		French I	1
American Wistory	11		Foods I	9
Civios and Constitution	n 11		Clothing I	10
World History	11		Clothing II	5
Sociology	1		Home Management	1
International Relations	s 1		Nursing	1
Biology	s 1 3		Health (Girls)	1
Physics	11		Manual Training I	10
General Science	10		Manual Training II	10
Agriculture	10		Farm and Home Mechanics	1
Physiology	3		Mechanical Drawing	2
Psychology	4		Art and Painting	1
Physical Geography	3 4 1		Mormal Training Reviews	3
Bookkeeping (1 year)			Graumar	3
Bookkeeping (2 years)	1 6		Music Appreciation	3 2 2
Typing I	6		Physical Training	2
Typing II	4		Vocstional Homewaking	0
			Vocational Agriculture	0

Table 4. Showing Activities Offered and Number of Schools Offering Each in the High Schools of Jewell County during the School Year 1935-54

-	Activity	:	Number of schools providing activity
	Olec Clubs Hi-T Clubs C, R, Clubs Dramatic Club Endre bell (boys) Endre bell (boys) Truck School paper Orchestra Band Ammunl Boboting		11 3 6 1 1 1 1 3 5 5 5 5 5 5 5 5 6 0 0 0 8 8
	Hetional Honor Society Intramurals (boys) Intramurals (girls) Baseball (girls) Home Room		1 2 4 7

number of schools offering them, teken from the reports on file in the office of the State Superintendent of Public Instruction. All schools provide boys basketball and glee clubs. Seven schools provide girls basketball. There is only one school offering the advantages of a home room. There are no debeting, no annuals, but there are three Hi-Y clubs and five school papers.

The largest number of the listed activities is offered at Jawell City. That school offers 14 of the 15 activities

found in table 4. Seven schools offer less than helf the number of activities in the list. One school offere but four activities, two others offer but five and three offer but six.

If we are correct in assuming educational and socialising values for extra-curricular activities, it would seem that if larger numbers were carelled in the smaller schools, the axtra-curricular advantages might be improved.

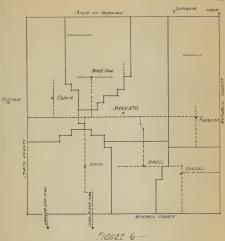
Teacher Training and Tenure

In 1935 there were 49 teachers and principals in the eleven high schools. They had an everage of seven years teaching experience and a tenure of four years in their present positions. Fourteen were in their present position without previous teaching experience. Hineteen have taught more than eight years without completing work for a masters degree. Among the 49 teachers, there are five holding masters degrees; however, many others have earned a few hours of graduate work. This indicates that many of the present teachers have failed to make additional preparation for their profession.

Concerning the Present Buildings and Reads

There are but two modern, well equipped high school buildings in the county. Four or five communities are in real need of new buildings. One rural high school building is an enlarged rural church or rural school, three and one-half miles from the nearest village. Heny of the communities realize the need for better buildings but their small valuation and already high text lavies prohibit it. Amy plan of consolidation that might be proposed would be confronted with a real building problem if schools of real educational marit ware to be daveloped. Other information ecocerning the buildings has been collected but it is of little consequence in the following proposal. The solution of the building problem itself is of great magnitude but it will be loft for othere to consider.

Figure 6 shows the road situation. A glame reveals that consolidation must go hand in head with all-weather road construction. The present road system would have to be improved and adapted to fit any scheme of centralisation.



---- BOUNDARY LINES

PART II

AN ENRICHED CURRICULUM FOR HIGH SCHOOLS IN RURAL AREAS OF KANSAS

If the specific function of the high school is fivefeld; nemely, preparation for college entrance, preparation for a vocation to be entered at the completion of high school, preparation for enlightened citizenship, the development and maintenance of one's physical powers and health, and the development of avocational and cultural interests, it is well to visualize an ideal curriculum suitable for the needs of the high school students in small areas (16).

Maturelly such a curriculum will be built in part on the college entrence requirements and the state regulations. If the high school is to function in giving the student pre-college training, it should be so organized that any student having made a decision concerning his life vocation may begin to direct his education in the proper direction. Thus it would seen that the ideal curriculum should be inclusive enough to effer opportunity for a directed college preservatory course.

If we attempt to set up a curriculum based in part on the later vocational needs it is necessary to consider the fact that the prospective major occupation of the girls of the high schools in rural areas is that of homemaking and rearing a family. The United States Consus Report of 1930. shows that 64 per cent of women in rurel areas fifteen years of age and over, are married. While training in afficient home management may be one of the functions of the home, it is an observed fact that the home does not offer sufficient and adequate training in this direction. Hence a properly anriched curriculum should include an organized course in homemaking.

The chief industry of the community is agriculture and from a previous study of similar areas, it has been found that four-fifths of the farmers in the community reside in the community in which they were educated. The same study shows that 49.2 per cent of the boys enrolled in vecational agriculture follow the vocation of farming. Therefore, it seems that a vocational agriculture course can be justified on the ground of vocational nada (4).

Since there is an apparent need for business training, based on the vecestional neads of the students as daterminal by the industry of the county, courses in stenography and bookkeeping should be available.

It has long been recognized that one of the weak points in the average high school curriculum is a lack of vecetional trades training and since the trend of the age is machanical and automotive such a course as an automotive course may be justified. Although there is a tendancy to do away with the nermal training courses, some are demanded in Jewell County as avidenced by the fact that two high schools continue to offer such courses. Three other high schools offer some ocurses in preparation for such work. In 1935 normal training work was offered to 21 students. Since the law pormits graduates of the normal training course to teach, there will probably be some demand for the course in the high schools.

A curriculum suitable for the rural areas of Espass will be outlined in the following pages. This curriculum is based on part of the senior high school curriculum developed in the City School Survey, Chanute, Hansas (16). Here it is modified to function in a four-year high school.

- In this study the objectives for the high school cur-
- (1) The development of social communication, mainly language.
 - (2) The development of efficient citisenship.
 - (3) The development and maintenance of one's physical powers and health.
 - (4) The preparatory training for the work of vocation.
 - (5) The development of avocational and cultural interests and activities.

The curriculum recognizes certain constants which have their justification in the first three objectives. These constants make up six units of the work and include the following:

Subjects	Value
Constructive English	5 units
Wedern World History (1870 to present)	1 unit
American History (1789 to present)	1 unit
Probleme of American Democracy	1/2 unit
Constitution	1/2 unit
Physical Training and Health Hygiene (all 4 years)	No oredit
	6 units

Six other units of the high school course are silected to group electives, which are of two kinds, (a) vocational and (b) pre-professional. The vocational group electives are as follows:

- (a) Vocational group electives offering courses in:
 - 1. Bookkeeping
 - 2. Commerce
 - 5. Normal Training
 - 4. Vocational Agriculture
 - 5. Vocational Homemaking
 - 6. Automotive Trades

The pre-professional group electives are as follows:

- (b) Pre-professional group electives preparing for:
 - 1. Engineering
 - 2. Nedicine
 - S. Law

- 4. Business Administration
- 5. Teaching or Ministry

The remaining four units of the student's course consist of free electives, or those subjects which the student would pursue with avocational, sultural, or natural interest.

This curriculum would require the student's course to be made up of the constants, (six units), one of the elective groups, (six units), determined by his own choice, and four units of free electives.

The subject composition of the group electives is as follows:

Vocational Group Electives

1. Bookkeeping:

www.dhruft.	
Subjects	Value
General Science	1 unit
Commercial Arithmetic	1/2 unit
Convercial Geography	1/2 unit
Penmanship	1/2 unit
Typing	1 unit
Commercial Law	1/2 unit
Bookkeeping	2 units
	6 units

2. Commerce:

Subjects		Ve	lue
General Science		1	unit
Commercial Arithmetic		1/2	unit
Commercial Geography		1/2	unit
Penmanship		1/2	unit
Typewriting	1	1/2	units
Shorthand	1	1/2	units
Office Practice		1/2	unit
	-	6	units
rual Training:			
Subjects		V	lue
General Science		1 -	unit
Agriculture		1	unit
Physica		1	unit
Geography		1/2	unit
Grammar and Composition		1/2	unit
Reading and Literature		1/2	unit
Psychology		1/2	unit
Nethods and Management		1/2	unit
		6	unite

4. Vocational	Agriculture:	
	Subjects	Value
	Livestock Production, Shop	4 unit
Biolo	By	1 unit
Phys1	08	1 unit
5. Vocational	Homemaking:	
	Subjects	Value
Relate	1 Science	1/2 unii
Foods	and Homemaking	1/2 uni
Clothi	ng I	1/2 unit
Relate	1 Arts	1/2 unit
Home In	arsing	1/2 unit
Poods :	п	1/2 unit
Relate	1 Science II	1/2 unit
Clothi	ng II and Child Care	1/2 unit
Househo	old Physics	1 unit
Bookke	ping	1 unit
		6 unite
6. Automotive	rades:	

Subjects Value General Science 1 unit General Shop Mathematics 1 unit Mechanical Drawing 1 unit

Subjects	Value
Woodworking	1 unit
Auto Hechanics	1 unit
Practical Electricity	1/2 unit
Hachine Shop Practice	1/2 unit
	6 units
Pre-professional Group Ele	etives
Subjects	Value
Eathematics	3 units
Spanish	2 units
Physics	1 unit
	6 units
ledicine:	
Subjects	Value
No thematics	2 unite
Letin	2 units
Biology	1 unit
Physics or Chemistry	1 unit

3. Law:

1. E

2. I

Subjects	Value
thematics	2 units
ology	1 unit
tin	2 unite

6 units

	Subjects	Value
	Aneient History	1/2 unit
	English History	1/2 unit
		6 units
4.	Business Administration:	
	Subjects	Velue
	Nethematics	1 unit
	Spanish	2 units
	English History	1 unit
	Physics or Chemistry	1 unit
	Bookkeeping	1 unit
		6 units
5.	Teaching or Ministry:	
	Subjects	Value
	Nathematics	2 units
	Fereign Language	2 units
	Physics, Biology, or Chemistry	1 unit
	English or Hodern European History	1/2 unit
	Sociology	1/2 unit
		-

Any subject not in e particuler group, as constant or group electives, but listed in some other group would be a free elective for those in e particuler group. A suggested list of free electives in es follows:

Subjects	Value
Ancient and Medieval History	1 unit
Modern European History before 1914	1 unit
English History	1 unit
Economice	1/2 unit
English Literature	1 unit
American Literature	1 unit
European Literature	1 unit
Spanish	1 to 2 units
Latin	1 to 2 units
Biology	1 unit
Physics	1 unit
Chemistry	1 unit
Penmanship	1 unit
Industrial Art	1 unit
Painting	1 unit
Drawaties	1/2 unit
Chorus	1/2 unit
Glee Club	1/2 unit
Rusic Appreciation	1/2 unit
Instrumental music	1 to 3 units
Band and Orchestra	1/2 unit
Others may be added.	

This curriculum is to be used as a basis for the proposed curricula found in Part III. It cannot be completely

accepted due to the great number of subjects involved. However, the basic parts will be used and should serve to produce an enriched curriculum for the high schools of Jewell County. It is to be contended that even a limited curriculum, available to all the students and based on their real needs, will be an advantage over the present situation.

PART III

THE PROPOSED PLAN FOR CONSOLIDATING SOME OF THE HIGH SCHOOLS OF JEWELL COUNTY

Basis for the Proposed Plan

From the study of Park I and Park II it is apparent that the present situation is not in hermony with the educational needs of the county. Thus is becomes fitting to pronous a plan of betterment.

The plan to be proposed in based on the belief that more practical and satisfying results can be obtained by not removing too many of the schools from their present lecations, but by the development of school co-ordination and co-operation.

Some of the arguments in favor of such a plan would be

- High school consolidation in Keneas is opposite to the general trend for the past quarter of a century.
- (2) It is contrary to human nature to expect fair sized communities to give up their established school and hence impractical.
- (3) The primary reason for consolidation is not to promote greater economy but to provide better edu-

- eational advantages to small schools, through enriched curricula and to do it as economically as possible.
- (4) High school consolidation carried to extreme may destroy an educational opportunity hitherto undeveloped and found in the small high schools alone, by virtue of their smallness.
- (5) There may be advantages in the small schools such as pupil-teacher contacts that cament be duplicated in larger groups.
- (6) Many of the rasults of consolidation can be attained in good measure by other means.
- (7) Where there are very large units devaloped, consolidation may destroy the sociological value of the school in the community.

Plan of Re-districting the County

It is proposed that four of the smaller high schools be disorganised, and their students transported by bus to other schools. The schools that would be disorganised are Athens, Webber, Lowavell, and Montrose. The students now attending the Webber and Lowevell schools would be transported to Formose. The Montrose district would be disorganised and the pupils divided between Manhato and Formanised and Manhato and Ma

mose. This division would be determined by allowing the pupils to attend the school that is nearer their respective homes. The students at Athens would be conveyed to Ionia and attend school there. The remaining schools would continue to exist in their present locations, but their district boundaries would be changed so that each district would contain the territory mearest its school. Figure 6 shows the seven proposed districts. The map also shows the location of other schools in the adjoining territory that would affect the re-districting.

Ascordingly, each district will be served with a fairly well loosted achool except the northern part of the Mankato and Formose districts. At the present time there are schools at Superior and Mardy, Mebraska, near the state line that serve some Kenses students and naturally they will continue to serve the northeast territory of Jewell County.

Table 5. Showing the Prospective Enrollment, Valuation, and Area of the Proposed Districts

Sehool	:	Enrollment	:	Valuation	2 2	Area in
			_	141444704	-	ndesta myyac
Jowell City		130		\$4,304,335		98
Randall		76		2,465,610		92
Burr Oak		102		4,117,676		120
Esbon		70		3,429,334		127
Mankato		157		4,293,927		151
Ionia		97		3,617,290		152
Pormoso		150		4,403,005		160

The Plan for Six Branch Schools and One Central School

It is proposed to develop the seven schools as eix branch schools and one central echool. The central school might be located at any one of several towns but the most logical town for its location is Manhato. Figure 6 shows that Manhato is centrally located in the county and the road system is already developed to facilitate such action. In accordance with the proposed plan, the six branch schools would establish courses offering four years work in (1) college preparatory, (2) vocational agriculture, and (3) vocational homemaking. They would also establish the ninth and tenth years work in (1) normal training, (2) auto mechanics, and (3) commerce, (a) bookkeeping, (b) stenography.

The central school would maintain full four years work

in all of the six courses. This would mean that all students would attend the school of their respective districts for the work of their minth and tenth years. Those students in the college preparatory, vocational agriculture. and vocational homewaking courses would finish their four year course in the school of their own district, while those completing the normal training, auto mechanics, and commerce courses would be transported to the central school for the work of their aleventh and twelfth years. While it would be impossible to organize and offer all the subjects of the college preparatory course as described in Part II. alternations and variations might be worked out so that the schools could offer what the students demand. Hora usable correspondence courses might offer a way to provide mora courses in the college preparatory course as offered in the branch schools.

Proposed Curriculum for the High Schools of the County

A curriculum, based on Part II, could be arranged, placing the subjects in the proper years, saking it possible to follow the sehome of having six branch schools and one central school as previously proposed. Such an arrangement would make all six courses available to avery student in the county. The following sat-up represents the courses

four units. In such cases, some other subject closely re-

lated to the course has been placed in the course.

Proposed Curriculum for High Schools

College Preparatory

Winth Year

First Semester Second Semester

English

Algebra

World History World History
Elective Elective

Touth Year

English

First Semester Second Semester

Latin I Latin I Geometry Geometry

English

Elective Elective

Twolfth Year

Two Electives

1 unit

First Semester Second Semester

English English

Constitution Civios
Latin II Latin II

Biology Biology

Pirat Semester Second Semester

American History American History

Physics Physics .

Vocetional Agriculture

English

Two Elentives

Hinth Year

Livesteek Production 2 units

Farm Shop Work

World History 1 unit

Tenth Year

Crop Production and Soils Nanagement

Farm Shop

English 1 unit

lective 1 unit

First Semester Second Semester

English English

Constitution Civica
Biology Biology

Elective Elective

Twelfth Year

First Semeater Second Semeater

American History American History

Physics Physics
Two Electives Two Electives

Vocational Homemaking

Winth Year

First Semester Second Semester

Vocational Homemaking I Vocational Homemaking I English English

World History World History

Tenth Year

First Semester Second Semester

Vocational Homemaking II Vocational Homemaking II English Buclish

Elective

First Semester Second Semester

English English
Constitution Civics

Biology Biology

Elective Elective

Twelfth Year First Semester Second Semester

First Semester Second Semester
American History American History

Physics Physics

Two Electives Two Electives

(Eleventh and twelfth years work offered in central school only)

Minth Year

Pirst Semester Second Semester

English English

Algebra

Two Electives Two Electives

Tenth Year

Pirst Semester Second Semester

English English
Geometry Geometry

Bielogy

Elective Elective

First Semester Second Semester

English English

Physiology Elective Constitution Civies

Agriculture Agriculture

Twolfth Year

First Semester Second Semester
American History American History

Psychology Nethods and Management

Geography Arithmetic
Grammer Reading

Commerce Course (Bookkeeping)
(Eleventh and twelfth years work offered in
eentral school only)

Winth Year

First Semester Second Semester

English English World History World History

World History World History
General Science General Science

Elective

Tenth Year

First Semester Second Semester

English English

Commercial Arithmetic Commercial Geography

Bookkeeping I

Bookkeeping I

Penmanship

Elective

Eleventh Year

First Semester

Second Semester

English Constitution English

Bookkeeping II

Elective

Typing I

Typing I

Twelfth Year

First Semester

Second Semester

American History

American History

Elective

Elective

Commercial Law

Elective

Commerce Course (Stenography)
(Eleventh and twelfth years work offered in

Winth and Tenth Years Work as Prescribed in Bookkeeping Course

Eleventh Year

First Semester

Second Semester

English Constitution Typing I English Civies

Stenography I

Typing I Stenography II

Twelfth Year

First Semester

emester Second Semester
tery American History

American History Stenography III

Office Practice

Typing II

Elective

Auto Wechanies (Eleventh and twelfth years work offered in central school only)

First Semester

Second Semester

English Algebra English Algebra

Woodworking General Science

General Science

Tenth Year

First Semester English Second Semester

World History

English World History

Woodworking

Mechanical Drawing

Nechanical Drawing

Elective

Elective

Eleventh Year

First Semester

Second Semester

English

English

Constitution

Civics

Pirst Semester Auto Mechanics I Elective Second Semester
Auto Mechanics I

Twolfth Your

Piret Semester
American History
Machine Shop Practice
Two Electives

Second Semester
American History
Practical Electricity
Two Electives

Physical training and hygione would be required for the boys and girls in the minth and tenth years regardless of which course they are taking.

The Proposed Branch Schools at Randall, Esbon, Ionia, and Burr Oak

Table 5 shows that the respective enrollments for the four schools: Randall, Kebon, Ionia, and Burr Cak would be 76, 70, 96, and 102.

Since it was desirable to know the probable size of each of the four classes in each school, a study was made of the total county enrollments for the past four years. This study revealed that the class proportions in the past have been as follows: ninth year, 29 per cent; tenth year, 26 per cent; eleventh year, 25 per cent; and twelfth year, 22 per cent. It is reasonable to assume that such propor-

tions will continue and on that assumption the probable class size in each of the schools can be estimated.

Table 6. Prospective Class Enrollments for the Pour Smeller Schools at Randell, Esbon, Ionia, and Burr Oak

School	1 1	Winth	1	Tonth year	:Eleventh	1	Twelfth	1	Total
Randall		22		20	18		16		76
Ionia		28		24	23		22		96
Burr Oak		29		26	24		23		102
Esbon		20		18	17		15		70

Table 6 shows that the largest probable number to be expected in any class per year 12 20. This signifies that one section of any subject per year will accommodate the enrollments of Randall, Reben, Tonia, and Burr Osk. Likewise this evidence indicates that the same curriculum would be workable in all these schools. An undetermined number of cleventh and twolfth year students would go to the central school thus making those classes smaller than shown in table 6.

A curriculum for the four smaller schools could be developed from the preceding proposed curriculum as follows:

Subjects Offered in Even Years

Winth Year

Subject	Velue
Required:	
English I	1 unit
World History	1 unit
Physical Training (boys)	****
Physical Training (girle)	
Elective:	
General Science	1 unit
Algebra	1 unit
Commercial Arithmetic	1/2 unit
Commercial Geography	1/2 unit
Woodworking	1 unit
Vocetionel Agriculture I	2 unite
Vocationel Homemaking I	2 unite
Tenth Teer	
Subject	Velue
Required:	
English II	1 unit
Physical Training (boys)	
Physical Training (girle)	****
Elective:	
Geometry	1 unit

	Latin I	1	unit
	General Science	1	unit
	Commercial Arithmetic	1/2	unit
	Commercial Geography	1/2	unit
	Woodworking	1	unit
	Bookkeeping	1	unit
	Vocational Agriculture I	2	unite
	Vocational Homomaking I	2	unite
	Eleventh Year		
	Subject	Ve	lue
11	dred:		
	English III	1	unit
	Constitution and Civies	1	unit
	Biology	1	unit
0	tive:		
	Latin I	1	unit
	Bookkeeping	1	unit
	Typing	1	unit
	Free choice of any subject not pre- viously studied.		
	Twelfth Year		
	Subject	Ve	luo
P	ired:		
	American History	1	unit
	Physica	1	unit

Req

Ele

Elective:

Free choice of any subject not previously studied.

Subjects Offered in the Odd Years

Winth Year	
Subject	Value
Requireds	
English I	1 unit
World History	1 unit
Physical Training (Boys)	****
Physical Training (Girls)	
Elective:	
Algebra	1 unit
Permanehip	1/2 unit
Community Civies	1/2 unit
Hechanical Drawing	1 unit
Vocational Agriculture II	2 units
Vocational Homemaking II	2 units

Tenth Year		
Subject	V	alue
Required:		
English II	1	unit
Physical Training (boys)		
Physical Training (girls)		
Elective:		
Geometry	1	unit
Penmanship	1/2	unit
Community Civies	1/8	unit
Bookkeeping	1	unit
Vocational Agriculture II	8	unite
Vocational Homemaking II	2	units
Eleventh Year		
Subject	1	alue
Required:		
English III	1	unit
Constitution and Civics	1	unit
Biology	1	unit
Elective:		
Latin II	1	unit
Bookkeeping	1	unit
Typing I	1	unit
Free choics of any subject not pre- viously studied.		

Twelfth Year

Subject	Va:	tue
Required:		
American History	1 1	mit
Physics	1 1	mit
Elective:		
Sociology	1/2	anit
Economics	1/2	anit
Letin II	1 1	mit

Free choice of any subject not previously studied.

Three one-half unit subjects, community civies, sociology, and economics, end another one unit subject, typing, have been edded, (others might be substituted), to provide more electives. In the two year cycle, nineteen units of work would be offered not including the vocational subjects. This would indicate that the student would have some choice in his free electives. The fact that other courses ere available elsewhere, lessens the effect of a limited number of free electives.

The instructional organisation of each of these schools could be developed on the following basis. If two classes of physical training, freshman and sophomore boys end freshwan and sophomore girls, were offered, the number of units

of work, excluding vocational agriculture and vocational homemaking, would be nineteen. This would indicate that four teachers would be necessary for these units.

In addition, each school might be allotted a half-time toschar in each of the following subjects: vocational agriculture, vocational homesking, and music. These teachers might be exchange teachers. However, giving them a half-time tasching load from the other subjects of the school appears to be a better plan. A principal might teach three classes as well as administer the school. This would mean that five teachers and a principal could cars for the school. The cost of these six taschars can be computed by using the average Jewell County selerias paid during the past five years. This results in sclaries as follows: principal, \$1,849, and teachers, \$1,351. A minimum salary of \$1,800 for the vocational agriculture teacher might be madd.

The itemized cost for the six teachers in each school would be as follows:

Principal \$1,849

Vocational Agriculture Teacher 1,800

Four other teachers at \$1,351 5,404

Total taxehars salaries

99,053

Part I shows that 74 per cont of the school expenditures have been for instruction and instructional supplies. Therefore, it is reasonable to assume that 70 per cent would be a fair percentage for teachers' salaries. Other studies substantiate this statement (18).

If \$9,055 is considered to be 70 per cent of the total current expenses, then the total current expenses for each school would be computed as \$12,911. The probable federal aid for the two vocational teachers would be \$700. The total current expenses for each one of the smaller branch schools could be computed as \$12,211. Likewise the combined expenses for the four schools, Randall, Burr Oak, Esbon, and Ionia would be \$49,544.

The Proposed Schools for Jewell City and Formose

The schools proposed for Jewell City and Formose would have enrollments of 130 and 180 students respectively. The class sisce would probably be as follows: for Jewell City, ninth year, 37; tenth year, 34; elsewith year, 30; and twelfth year, 29; for Formose, ninth year, 44; tenth year, 39; elsewith year, 35; and twelfth year, 35. This indicates that two sections of several classes would be necessary in order to maintain the classes within the recommended limit of thirty students. A few classes slightly larger than

thirty might be recommended as reasonable economy. It is estimated that 30 per cent of the eleventh and twelfth year students will attend the central school.

Both of these two seheols would offer essentially the same courses as outlined for the four smaller branch schools. However, the same alternations and variations would not be possible.

The following is a two-year cycle proposed for these two schools.

Subjects Offered in Even Years

,			
W	inth Year		
Subject	No.of classes	V	lue
Requireds			
English I	2	1	unit
World History	2	1	unit
Physical Training (be	ys) 1/2		
Physical Training (g:	irls) 1/2		
Elective:			
Algebra	1	1	unit
General Science	1	1	unit
Permanship	1	1/2	unit
Community Civies	1	1/2	unit
Woodworking	1	1	unit
Vocational Agricultus	re I 1	2	units
Vocational Homemaking	1 1	2	units

Tenth Year

Subject	No.of elasses	1	Value
Required:			
English II	2	1	unit
Physical Training (boy	s) 1/2		
Physical Training (gir	10) 1/2		
Elective:			
Latin I	1	1	unit
Geometry	1	1	unit
Commercial Arithmetic	1	1/2	unit
Connercial Geography	1	1/1	unit
Woodworking	1	1	unit
Bookksoping	1	1	unit
Vecational Agriculture	II 1	2	unite
Vocational Homemaking	11 1	2	unite
Ele	venth Year		
Subject	No. of classes	1	alue
Required:			
English III	1	1	unit
Constitution and Civie	1	1	unit
Biology	1	1	unit
Electives:			
Bookkeeping I		1	unit
Latin I		1	unit

Typing I 1 l unit

Pree choice of any subject in minth or tenth years not previously studied.

A

	Twelfth Year		
Subject	No.of classes	A	lue
Required:			
American History	1	1	unit
Physics	1	1	unit
Elective:			
Bookkeeping I		1	unit
Sociology	1	1/2	uni
Economies	1	1/2	uni
Typing I	1	1	unit
Free choice of any	subject not previously	stud	ied.

Subjects Offered in the Odd Years

Ninth Year

Subject	lio.	of classes.	1	/alue
Required:				
English I		2	1	unit
World History		2	1	unit
Physical Training	(boys)	1/2		
Physical Training	(girls)	1/2		

1 1 1	1	unit
1	1	-
_		unit
1	- 4-	
	1/2	unit
1	1/2	unit
1	1	unit
1	2	unita
1	2	unita
Coar		
of classes	V	alue
2	1	unit
1/2	_	
1/2	-	
1	1	unit
1	1/2	unit
1	1/2	unit
	1	unit
1	1	unit
1	2	unita
1		unite
	1 1 1 1 1 1 fear .oof classes 2 1/2 1/2 1 1 1	1 1 2 1 2 1 2 1 1/2

Value

Eleventh Year

Wo.of classes

Subject

2401000	MO*OI GIEBBES	Autron
Required:		
English III	1	1 unit
Constitution and Civie	1	1 unit
Biology	1	1 unit
Electives:		
Bookkeeping I		1 unit
Latin II		1 unit
Typing I		1 unit
Free choice of any sub not previously stud	ject in minth and sied.	tenth years
Tweli	fth Year	
Subject	No. of classes	Value
Required:		
American History	1	1 unit
Physics	1	1 unit
Electives:		
Bookkeeping I		1 unit
Sociology	1	1/2 unit
Economics	1	1/2 unit
Typing I	1	1 unit
Latin II	1	1 unit

Pres choice of any subject not previously studied.

This curriculum would provide eighteen different units of work not including vocational homemaking, vocational agriculture, and music. Two and one-half units have been added to the prescribed course in order to provide nine electives.

The number of teaching units could be determined by this method: ellow one teacher each for vocational agriculture and vocational homemaking, and a half-time teacher for music. Consider that the principal would teach a half day schedule. This would leave twenty other class units per year to be taught. Thus it would require four teachers to care for these twenty class units.

A summary of the necessary teaching staff and its cost for each of the schools, Jewell City and Formoso, follows:

Principal (teaching half-time) \$1,849

Vocational Agriculture 1,800

Pive and a half other teachers 7,430,50
at \$1,551

Total annual salary for 7.5 teachers \$11,079.50

The half-time music teacher might be an exchange teacher or serve half time in the grades. The high schools in those towns use half time music teachers at the present time.

As was previously explained, the total annual current

expenses might be computed using \$11,070,50 as 70 per cent of the total current expenses. Accordingly the total current expenses for each of the schools at Jevell City and Pormose would be \$15,602. The probable federal aid for the vocational courses would be \$1,600 for each school, which leaves the net total current expenses to be derived from security taxes as \$14,600 for each school.

The Central School at Mankato

Since the central school proposed for Mankate varies greatly from any of the present types, it is difficult to secure accurate information concerning the probable number that would be enrolled in the eleventh and twelfth years of the commerce, auto mechanics, and normal training courses. However, estimates can be derived from the available sources and allowances made for the maximum probable annellment.

The probable enrollment from its own district would be 187 puglis. They would be distributed as follows: minth year, 44; tenth year, 41; eleventh year, 36; and twelfth year, 34.

In addition, some other students from the six branch schools would attend this school during their eleventh and twelfth years. The number of these students can be ap-

There is no way to estimate the number of boys desiring the outo mechanics course under the proposed conditions but it is reasonable to essume that thirty boys would enroll. This would increase the enrollment et cash class by fifteen students.

twelfth year by thirty-six students.

On these easumptions, the probable enrollment by

classes in the Mankato achool would be as follows: minth year, 44; tenth year, 41; eleventh year, 112; and twelfth year, 106.

Proposed Curriculum for the Hankato School

Subjects Offered in Even Years

	Wint	Year		
	Subject	No.of classes	Ve	luo
Re	quireds			
	English I	8	1	unit
	World History	8	1	unit
	Physical Training (boys	1	-	
	Physical Training (girls	o) 1	-	
El	ective:			
	Algebra	1	1	unit
	Woodworking	1	1	unit
	General Science	1	1	unit
	Permanehip	1	1/2	unit
	Community Civice	1	1/2	unit
	Vocational Agriculture	1 1	2	units
	Vocational Homemaking I	1	2	units
	Tent	h Year		
	Subject	No.of classes	V	nlue
Re	quired:			
	English II	2	1	unit

Physical Training (boys)	1	****
Physical Training (girls) 1	****
Electives:		
Latin I	1	1 unit
Geometry	1	1 unit
Permanship		1/2 unit
Community Civies		1/2 unit
Agriculture	1	1 unit
Woodworking	1	1 unit
Vocational Agriculture I	1 1	2 units
Vocational Homemaking II	1	2 units
Eleven	th Year	
Subject	We, of classes	Value
Required:		
English III	4	1 unit
Constitution and Civies	4	1 unit
Electives:		
Latin II	1	1 unit
Biology	1	1 unit
Agriculture	1	1 unit
Physiology(lst semester)	1	1/2 unit
Twelfi	th Year	
	lo.of classes	Value
Required:		
American History	4	1 unit

P	hysics	3	1	unit
Electi	TOS:			
L	atin II		1	unit
P	sychology (1st semester)	1	1/2	unit
0	eography (lst semester)	1	1/2	unit
M	ethods and Management (2nd semester)	1	1/2	unit
A	rithmetic (2nd semester)	1	1/2	unit
B	eading (2nd semester)	1	1/2	unit
В	ookkeeping III (1st semester)	2	1/2	unit
2	yping III (1st semester)	1	1/2	unit
C	commercial Law(1st semester)	1	1/2	unit
8	tenography III (1st somester)	1	1/2	unit
0	ffice Practice (2nd semester)	1	1/2	unit
¥	achine Shop Practice (1st semester)	1	1/2	unit
P	ractical Electricity (2nd semester)	1	1/2	unit
6	rammar (lst semester)	1	1/2	unit
S	ociology (2nd semester)	1	1/2	unit
E	conomies (2nd semester)	1	1/2	unit

Subjects Offered in the Odd Years

Ninth Year

Subject

No. of classes Value

perlace	BOSOS OZOGOGO	
Required:		
English I	2	1 unit
World History	2	1 unit
Physical Training (boy	rs) 1	****
Physical Training (gir	ls) 1	****
Electives:		
Algebra	1	1 unit
General Science	1	1 unit
Commercial Arithmetic	1	1/2 unit
Commercial Geography	1	1/2 unit
Woodworking	1	1 unit
Wechanies1 Drawing	1	1 unit
Vocational Agriculture	1 1	2 units
Vocational Homemaking	1 1	2 units.
	Tenth Year	
Subject	No.of classes	Value
Required:		
English II	2	1 unit
Physical Training (bo	ys) l	
Physical Training (gir	rls) l	

Electives

0	TAGE!				
	Coometry		1	1	unit
	Intin I		1	1	unit
	Commercial	Arithmetic		1/2	unit
	Commercial	Geography		1/2	unit
	Hechanical	Drawing		1	unit
	Woodworking			1	unit
	Agricultur		1	1	unit
	Vocational	Agriculture II	1	8	units
	Vocations1	Homemaking II	1	2	units

Toom dad in in in in in it is a a		-	CLILL OU	
Eleventh :	feer			
Subject No.	of classes	Value		
Bequired:				
English III	4	1	unit	
Constitution and Civies	4	1	unit	
Electives:				
Letin II	1	1	unit	
Physiology (lst semester)	1	1/2	unit	
Agriculture		1	unit	
Biology	3	1	unit	
Bookkeeping I	1	1	unit	
Typing I	2	1	unit	
Stenography	8	1	unit	

1

unit

Auto Nechanics

Twelfth Yes	LT ^o		
Subject No.of	classes	Vi	lue
Required:			
American History	4	1	unit
Physics	3	1	unit
Electives:			
Psychology (lst semester)	1	1/2	unit
Geography (lat semester)	1	1/2	unit
Grammar (1st semester)	1	1/2	unit
Nethods and Management (2nd semester)	1	1/2	unit
Arithmetic (2nd semester)	1	1/2	unit
Resding (2nd semester)	1	1/2	unit
Bookkeeping III (let semester)	8	1/2	unit
Typing III (1st eemeeter)	1	1/2	unit
Commercial Law (let semester)	1	1/2	unit
Stenography III (1st semester)	2	1/2	unit
Office Practice (2nd semester)	8	1/2	unit
Machine Shop Practice (2nd semester)	1	1/2	unit
Practical Electricity (1st samester)	1	1/2	unit
Sociology (2nd semestar)	1	1/2	unit
Reconomies (2nd comester)	1	1/2	unit

Estimating the probable number of classes per year required in each of these subjects by using the enrollments as previously estimated, indicates that fifty-five class units per year, not including the vectional agriculture, vectional homemaking, or music classes, would be ample to provide for all the students.

Prom this information the number of toeshers necessery to ears for this school can be estimated as fourteen. This would include full-time teachers of music, vocational agriculture, and vocational homeraking. If the school were provided with a fall-time principal, the total teaching staff would be fifteen. This would be a fair estimate since it gives a pupil-teacher ratio of 82 to 1.

The school at Mankate would be e larger school than eny of the present schools, therefore, it would be necessary to determine a suitable salary for the principal. During the past five years the everage salaries for high school principals in ten Kanese high schools of similar size, located in the seme part of the state as the proposed Mankato school, indicates that \$2,200 would be a reasonable salary for the principal of this school. The instructional cost would be computed on the following schedule: principal, \$2,200; wesetional agriculture teacher, \$1,200; thirteen other teachers, \$1,501. Summary of instructional cost in

the Mankate school:

Principal	\$2,280
Vocational Agriculture Teacher	1,800
Thirteen Other Teachers at \$1,351	17,563
Total Cost for 15 Teachers	\$21.643

Considering \$21,645 at TO per sent of the total ourrent expenses, it would be possible to compute the total current expenses as \$30,918. After deducting the probable federal aid of \$1,400 for vocational work, the total annual current expenses for the district would be \$29,518.

Information Concerning Transportation under the Proposed Plan

The proposed plan involves transporting all the students from the four abendoned schools to the same six branch schools and also transporting part of the students from the six branch schools to the central school. For practical reasons the plan proposes to gather the students at the schools rather than attempt to gather them at their homes. It is proposed to provide buses with a capacity for thirty-five students and on this besis, nine buses would be required.

From a previous study it has been found that such transportation could be provided for 8.5 cents per mile plus the cost of the driver (14). This figure includes the cost of gasoline, oil, repair and general upweep of the vehicle. It is reasonable to assume that a driver, perhaps a high school senior, could be obtained for one dollar per day.

The following table summarises the transportation cost but does not include the drivers' salaries.

Table 7. Showing Route, Daily and Yearly Mileage, and Total Yearly Cost for Each Bus, Not Ineluding the Drivers' Salaries

Bus lio.	 Prom	: :	To	Daily uileage round trip	: : :Annual :mileage		Annual oost
1	Montrose		Hankato	13	2340	8	198.90
2	Ionia		Mankato Jewell City	36	6840		581.40
3	Esbon		Hankato Burr Oak	40	7200		612.00
4	Randell		Mankato	38	6840		581.40
5	Formose		Mankato	22	3960		336.60
6	Webber		Pormoso	25	4500		382.50
7	Webber		Formoso Lovewell	29	5220		443.70
8	Lovewell		Pormoso	13	2340		198.90
9	Athens		Ionis	7	1260		107.10
			Totals	225	40,500	\$3	442.50

The cost of nine drivers could be computed as follows: the number of school days (180) times the cost per driver per day (\$1) times the number of drivers (9). This shows the cost of the drivers to be \$1,600. Therefore, the total cost for transportation would be \$5,000.00 per year.

Comparative Costs of the Present and Proposed Plans

The expenses of the proposed seven schools are summarised in the fellowing table.

Table 8. Showing the Annual Instructional Expenses and the Annual Current Expenses for Each School, Bot Including Cost of Transportation

Sehool	Annual instructional expenses	Annual current expenses not including trans- portation
Esbon	\$8,353.00	\$12,211
Burr Oak	8,353.00	12,211
Randall	8,353.00	12,211
Ionia	8,353.00	12,211
Jewell City	10,679.50	14,402
Formoso	10,679.50	14,402
Mankato	20,243.00	29,518
Total	\$75,014.00	\$105,166

The cost of transportation for the entire county would be \$5,062,50. Accordingly the total annual current expenses for all seven schools would be \$110,228,50.

Table 9. Showing the Comparative Costs of the Present and Proposed Plans

	1 structional	Totel annual current expenses	Annual per-pupil cost of cinstruction	Annual per-pupil cost based on current expenses
Present plen	\$87,058	\$117,691.00	\$108	\$146
Proposed plen	\$75,014	\$110,228.50	\$ 93	\$137

Table 0 shows the possible savings to the county taxpayer under the proposed plan. Instructional costs would be reduced 15 per student, and the current expenses would be reduced 59 per student. Each year the total net savings would be 57,462.50.

Organisation for Administering the Plan

Since the plan hes as its foundation the so-operation end co-ordination of all the high schools of the county, its success would be based on unifying the educational afforts of the separate schools. This would mean radical changes in the present plan of organisation. The following plan involving a new administrative unit is suggested. (1) One board would be oreated to serve as a county high

school board for all the high schools of the county. It would be composed of one person elected by popular vote from each of the seven proposed districts. (If the elementary schools were sufficiently unified, they might be represented on this board and the one board serve both types of schools) The duties of this board would consist of the present day duties of such boards, except they would strive to employ all the means of co-ordinating the schools, such as, exchange, part-time, and eircuit teachers. pupil trensportation, centrelisation of the courses, and better use of correspondence courses. They would have jurisdiction over all the high schools of the county. (2) The executive officer of the board would be the County Superintendent whose qualifications and salary would be increased to secure a person qualified for such a task. One of the important tasks of the County Superintendent would be to organize the teachers of the county into groups. based on their ability and interest in devising a countywide ourrioulum in each subject. These groups would serve as subject matter specialists and prepare the material into its most teachable form. Each school will be headed by a principal. (3) Secondary education would be considered a county function and its expense would be based on the assessed county valuation of the entire county, (4) The

proposed districts would serve these functions; as a basis for electing a board member, as a basis for determining the attendance district for the branch schools.

The Legal Aspects of the Plan

Since the proposed plan would be a new and untried ides for Kanses, it would be measurery to investigate the present school laws and propose new legislation for the purpose of legalizing and facilitating the installation of the plan.

The present school laws of Kansas provide for three types of county high school organisation: Barnes law, community, and tuition county types, (also several special county district organisations). Jewell County is one of the thirty-nine tuition counties.

The proposed plan would not function well under the present sounty organisation as it would be very difficult to bring the unorganized berritory with a small tax levy into districts with higher tax levies. Nor would it function as a Barnes law county due to the difficulties of a satisfactory division of expenses between the branch and central schools. Likewise sore difficulty would arise pertaining to now buildings and equipment.

The proposed county organisation which is needed would

not be legal under the existing school laws. Therefore, it would be necessary to enset other laws, making it possible to establish e co-ordinating county high school system. Such legislation would make it possible for the legal voters of the county to vote, as e county, on the proposition of dissolving their present districts, end reorganising the county as one complete unit. It would provide for one county board and describe its duties end limitations, one duty of the new board might consist of re-districting the county in such a way that the territory would be in the district of the nearest school.

Purther legislation would provide means for compensating the present districts that now own property that would be usable in the proposed plan. This might be solved by delegating the euthority to the nextly elected board to appraise end purchase the usable existing school property. This property might be paid for through future tax reductions in the taxes of the present owners. Further legislation might promote the establishment of emmolidated graded schools in the four buildings abandoned as high schools.

The qualifications of the county superintendent would need to be reised to require the persons serving as county superintendents to have the same qualifications as city superintendents and high school principals.

The whole plan would be facilitated by state legislation providing state compensation for districts willing to consolidate.

The present inter-atata and inter-county tuition law would provide for those atudents living on the county borders and desiring to ettend school in edjoining counties or Mebreaks.

The Advantages of the Proposed Plan

The advantages of the proposed plan could be divided into three groups, financial, educational, end sociological. A financial saving of \$9 per high school student each year would probably result. This would be an annual saving of \$7,462.80. The plan would promote financial equality es e basis for high school support, as it would distribute the cost of secondary education equally over the entire wealth of the county. It is interesting to note that a uniform tax levy of 4.1 mills would finance the proposed plan and that in 1035 there were only four schools, Ionis, Jewell City, Kontrose, and Randall with a lower high school taxation rate than this smount.

Probably a more important advantage would come from the schools being able to offer an enriched curriculum for all the students of the county. This curriculum would be based on the real needs of the students. The plan has possibilities of developing better teaching and supervision, and it would easile many of the schools to provide better buildings and equipment. Decreasing the number of schools having small enrollments would probably result in many students having better opportunities for educational socialization. The fact that the plan tends to preserve a large percentage of the present schools in their present location would reduce the sociological community losses to a minimum.

ACKNOWLEDGMENTS

The author wishes to express his gratitude to the following: Dr. W. E. Sheffer for his suggestions and guidance in making this study; Nr. E. G. Whitley, County Superintendent of Jevell County, for granting excess to the files of his office; Miss Iows Jones of the State Superintendent's office for aid in securing information from the records under her supervision; and to the high school principals of Jevell County in supplying direct information concerning their schools.

REPERENCES

- Abel, James Frederick Consolidation of schools and transportation of pupils. Bul. 41 Dept. of Interior, U.S. Bur. of Education, p. 30, 104-105. 1925.
- (2) Allen, George
 27th Biennial Report of Kansas State Superintendent of Public Instruction. Topaka. Kansas
 State Printer. p. 164-165. 1930.
- (3) Betts, G. H. and Hell, Otis Better rural schools. Indianapolis. Bobbs-Morrill Go. p. 215-240. 1914.
- (4) Bruner, T. A.

 A study of the place of residence and choice of
 vocation of former vocational agriculture students in Kansas high schools. Unpublished thesis.
 Kansas State College. 41 p. 1952.
- (5) Carney, Mabel Country life and the country school. Chicago. Row-Peterson Co. p. 127. 1912.
- (6) Cyr, Frank W.
 Developing a state wide program for the small secondary school. Teacher's College Record.
 35:8-25. May, 1936.
- (7) Ferriss, E. H. The rural high school. Bul. 1925-Wo.10. Dept. of Interior, U.S. Bur. of Education. p. 50-59. 1925.
- (8) Gaumnitz, W. H.

 The smallness of America's rursh high schools.

 Bul. 1930-No.13. Dept. of Interior, U.S. Dept.

 of Education. p. 109. 1930.
- (9) Markham, W. T. Handbook of organization and practices for the secondary schools of Enneas. State of Enneas. p. 12-30. 1933.