A STUDY ON THE APPLICATION OF THE COOPERATIVE SCHOOL LAW TO RUSH COUNTY

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The first solution, that of consolidation, which began in kenses in 1897 (1), did not solve the problem to eny eppreciable extent. The idea of consolidation was not well taken by the people in surel eroes. Their coclenes probably was due to the increased cost and to centimental reasons (1). Transportation may have been a feeter in the serly part of the century, but ee automobiles and good roads increased the number of consolidated districts organized decreased (1).

As the years peeced end the number of consolidated echools organized decreased with improved transportation, it became epparent that consolidation would not solve the rurel school problem. Educators began advocating a substitute plan which called for the cooperation of districte insteed of consolidation (1). Legal provision for carrying
this plan into affect was made by the legislature in 1935
when Sanata Mill Number 382 became law (4). This plan diffore from the consolidated echool plan in the following
respects: 1. No new district is formed. The cooperating
district reteine its officers and it is notither disorgamized nor united with another district. 2. The cooperating
district cannot be taxed for buildings or maintenance
outside its own district. 3. Temporary closing of a school
is possible, which gives school districts an opportunity to
experiment with the cooperative plan. Should they become
disasticied with the plan, they may withdraw of the and of
the school yeer and function as before.

In substance the cooperative plan would provide the rural districts with the opportunity of anjoying the advantages of consolidation without actually consolidating.

The ecoperation of districts with many of the small grade schools of the state was ancouraged by the passage of Samets Bill number 185 by the legislature in 1937 (4). As grade schools eligible for state sid will reserve approximately \$3.00 per month state sid for each additional ctudent, it should not be necessary for districts cooperating

with them to pay tuition1.

At the present time the financial seving, as well as the educational gain, is so great for many districts that they can well afford to cooperate wherever it is feasible. In view of these facts the author wishes to present a cooperative school plan for much County. The plan includes proposals for eight cooperative areas which will be designated as follows:

- 1. The McGreeken Area.
- 2. The Bison Ares.
 - 3. The Otis Area.
- 4. The La Grosse Area.
- 5. The Rush Center Area.
 - 6. The Alexander Ares.
- 7. The Timken Ares.
- 8. The Heltoma Ares.

The data used in this study were taken from the records in the offices of the Rush County clark and superintendent of schools.

The grade schools in hish County have required tuition at the rate of \$2.00 per month.

The purpose of this study is to develop plans for eliminating a number of the small one-room rural schools in Rueh County by the cooperation of districts; end to show that a financial saving end an aducational gain would be provided by organizing cooperative schools. These results are to be schieved by making more complete use of the facilities (axcept in one case) now available in the grade schools of the county.

TOPOGRAPHY AND HIGHWAYS OF RUSH COUNTY

The topography of Ruch County is favorable for cerrying out the cooperative school plan. The Lossian of the county in the dry and level plains region makes travel by ear less difficult and middy reads do not prove the heared that they are in the eastern counties of the state. Two ell-weather state highways run from sest to west through the central part of the county. Four all-weather county and state highways traverses the county from north to south. The schools located on the crossreeds of these highways are favorably located for cooperative schools. (In this discussion the central school of the cooperating area will be referred to as the cooperative school. The district schools which send their pupile to the cooperative school will be referred to as the cooperating schools.) A study of Fig. 1.

pegs 10, shows the fevoreble reed systems and location of cities for organizing deoperative school areas in the centrel and southern parts of the county.

DATA ON THE PUBLIC SCHOOLS OF RUSH COUNTY

The large number of grade schools in the county feediltates the cooperative school plan. These grade schools can accommodate additional atudants without impeiring their afficiancy.

Table 1. Significent Facts Relating to the Rush County Schools

Type of School	Number of Schools	Mumber Pupils Enrolled	Number of Taachars	Average Salary
Rural Schools	57	667	57	259.25
Graded Schools	9	736	27	76.60
Consolidated	1	95	4	70.00
Parochisl	3	26	3	
High Schools	5	853	30	50 to 100

A general survey of Rush County reveals the general lesk of qualifications smong the rurel tasebare of the county. The poor qualifications of a great majority of these tasebare should be a good argument in fevor of the cooperative school ides in the county. Dete obtained from the records of the county superintendent revealed the following feets relating to the rural school tesebare of the county: Fifty-one per cent have less then three hours of collegs properation. Forty per cent have less then two

years of experience. Seventy-mine per cent do not have the equivelent of one year of college. Only five and one-helf per cent hold life certificates.

Table 2. Certification and qualification of

	One-	Two-	Grade School
Normal Training	7	0	2
Second Grade County	13	1	2
First Grade County	88	2	18
Three-Year State	8	8	8
Life	3	1	13
Average No. College Hours	17	43	59
Average No. Yeors Experience	5.5	4.3	8.7

The superiority of the treining of tenchere of the greded schools, which will become the central echocle of the cooperative crass, ere shown by the following facts: No greded school teacher has less than Mr hours of college work. Only three end one-fifth per each have less than two years of experience. Six per cent do not have the equivalent of one year of college preparation. Forty-two per cent hold life certificates.

In his investigation for the United States Sursew of Education, J. F. Abel came to the conclusion that, "Too many of them (rural schools) are trying to do the work where larger schools can do it in a better and probably changer way (5)." This is the situation in Shash County today.

Table 3. Valuation, Enrollment, and Lovy of Bush County School Districts

district	Enrollment	Valuation	Lavy
1 (Censel	idated) 05	8832,923	24-00
1	44	370,204	7.50
2	4	160,366	2.50
3	-8	252,505	1.40
4	16	387,283	2.43
6	10	225,460	1,30
7	34	182,375	4-44
9	18	184,383	8,41
15	8	215,796	8.10
14	9	169,006	4.78
15	24	100,803	6,00
16	12	184,638	4,63
17	9	143,000	6.00
18	6	110,927	6.00
19	10	204,625	2.05
20	7	181,081	8.00
21	24	285,910	2.45
22	7	136,084	4.10
23	7	234,907	2,52
24	8	128,777	4,90
25	14	180,307	4,77
26	34	100,927	6,00
27	15	147,217	5,21
29	27	115,286	2,20
80	9	153,979	6.00
33	27	124,681	6.00
34	21	129,769	6.00
36	18	121,999	6.00
36	12	109,764	4.00
38	6	91,092	2.78
30		165,204	4,76
40	10	127,450	4.61
41	18	191,687	5.00
42	9	150,075	8.33
48	8	118,138	4.76

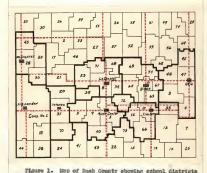
Table		

	24120 01			
64	9	96,067	6.00	
45	10	127,200	6,00	
46	18	110,672	4-61	
46	16	231,141	3,25	
950	2		1.56	
400			2400	
62	10	139,455	.74	
63	30	173,505	4.26	
84	6	149,808	4,22	
55	11	197,202	3,53	
66	1.8	148,048	6.00	
67	- ,	126,966	8.96	
58	12	154,834	1.50	
89	16	115,442	4,70	
00	7	146,167	6,00	
62	18	121,886	6,19	
	-			
68	20	169,612	2,24	
64	15	805,911	2,37	
+65		-	10000	
66	11	167,101	4,68	
67	10	128,020	6,00	
68	6	128,068	6.00	
69	15	108,564	6.00	
70	8	121,604	6.00	
71	9	117,081	6.00	
72	12	158,086	4.18	
74	9	114,862	5,08	
75	0	105,388	6,00	
10		200,000	0400	
		Sehools		
8	232	920,978	8.74	
11	90	214,996	6.00	
12	82	265,712	1.06	
20	105	562,712	14.00	
51	36	294,916	6.00	
47	99	655,308	6.00	
83	88	218,936	2.78	
61	65	403,669	6.00	

*Boos not maintain a school.

McGrecken is a third class sity meinteining a greds school and a high school is separate buildings. The greds eshool is a modern brick structure with four large class-rooms and a gymnasium. Four teachers are employed in the McGrecken grade school which has an empollment of 103 students. The school receives an "A" rating from the state department of education. As the school system is organized under the G.V.S. (Gity-Village Schools) system a supermixed with as supervision over the grade school. It is proposed that this school become the cooperative school of this area.

Under the proposed plea districts 45, 50, and 30 mould cooperate with district 28, the Modrackon district (Sos Fig. 1). The average distance traveled by etudente of the cooperating districts would be a fraction over four miles. It would not be necessary for any student to travel over six miles to reach the cooperative school. All students in district 43 reside less then one mile from an ell-wasther state highway leading into McCracken. Children living in this district must travel over as much dirt road in going to their own schools as they would need to travel to reach a state highway. In district 30 the average distance to a state highway is less than one mile. Hearly ell



and proposed cooperative school eress. — Boundaries of proposed cooperative school eress. — Sanded or cited highways.

students here less dirt road over which to travel to reach a ette highway then they have to reach their own echool. Studente in district 50 mast resort to dirt roads to reach the cooperative school, but these roads ere well graded.

Three of the eix students in number 43, three of the nine in number 50, end both of the students in number 50 have other members of the femily attending high school in McCrecken. Therefore, at present, 47 per cent of the students from the cooperating districts who would attend the ecoperative school could ride to school with their older brothers or sisters.

The eddition of these 17 students would increase the McGrecken enrollment to 180 students. This enrollment would not be axessive, as 15 of the 17 students ere enrolled in the lower five grades. It is in those grades that McGrecken has the amallast elesses.

The cooperating districts would need to tax themselves only for transportation and the upkeep of their buildings. Magraekan would demand no tuition from the cooperating districts as the state sid received from the stendence of seeh additional pupil would be greater than the tuition required in the past. It is suggested that the cooperating districts pay transportation at the rate of 15 cente e day for such child attending the cooperative school. This

amount should be sufficient to defray the expenses of transportation. Arrengements can be made by which the car of one family can transport the children of two or three other families and receive the transportation ellowence. A high school student may transport children of other femilies and receive the ellowence. There are many other plans that could be worked out by the femilies of these districts for transporting their children. Districts, if they wished. could pay transportation on the basis provided by law for children in elementary school districts, that is, 15 cents per dev per femily if they reside three miles from the school, or 25 cents per day per family living five or more miles from the school (4). Investigations of various districts show that payment seconding to this plan will everage ebout 15 cents per day per individual. This figure will be used in determining transportation costs in this study. Linscheid, in his study, determined that the cost of upkeep and insurence for e rural school should not exceed 342.00 annually (6). This figure will be used in this study to defray the cost of insurence and upkeep on the rural school buildings.

The elimination of the necessity for the payment of tuition by the cooperating districts would be a great encouragement for cooperation with McCracken. Reference to Table 4 will show the large finencial saving when no tuition is required from the cooperating districts. It will be noted that the two cooperating districts which are maintaining schools would make a total finencial saving of \$664.00, an average reduction in their expenses of 56 per cent. An additional gain would be made by families having children in both grade and high school. As the high school pupils from these districts must provide their own transportation, the families having children in both grade and high school would gain in the process of the payment of transportation for their grade school children. The families of 47 per cent of the children in the cooperating districts will gain by this process.

McGreeken would gein approximately \$400.00 additional state sid from the attendance of the 17 students from the cooperating districts. As present facilities are adequate for accommodating these students, the added income would reduce the school lavy by six par cent. McGreeken would welcome the added income as it must lavy the limit allowed by law to maintain a good school.

Although the finencial asvings would be great, the educational gain from cooperation would be of much greater significence. The atudents from the rural districts would gain the saventages darived from legger school systems.

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18	Shrolle	Present	D.	Budgeof	Average	Dogs	DOMESTING OF	Potodeny	Saving in	BREESE
2	Bis 105 p	Budget 85,400	911'd	A144	Ald Mateneo	Transpor-	Transpor- and tation Upinep	Budget Do	Dollare	Count
-	00	100		100		99	200	96	nemo	BOOM
92	•	800		648	10	263	3	200	01240	88.6
		089		980	*	3.68	\$	304	878	60.3

elistrict 30 is sending its two pupils to lieGreeken.

The larger cooperative school would excel in the following respects:

1. Better scholastic schievements. Studies and investigations of the schievement of children of consolidated schools give rather conclusive evidence that elementary children schuelly schieve better results in such schools (1). Scholastic schievement in larger schools is undoubtedly facilitated by longer terms, teachers have a limited number of grades, better squipment, and teachers are more afficient and better trained. The facts show that the McCreeken school excels in the first three of these. The following comparison of the teacher qualifications for McCreeken and the cooperating schools shows the superiority of teacher training as well.

Table 5. Teacher qualifications in the McCreeken Ares

District	Teacher	Certifi-	College Hours	Years in Present Position	Yeare Experience
28	A	Life	92	2	6
28	B	Life	62	1	1
28	C	Life	86	5	13
28	D	Life	86	- 4	10
		Coopers	ting Scho	ols	
30	E	3-yr.state	135	0	1
43	P	Lat Co.	0	0	35

The superior scholestic schievement shown by children in larger schools should in no way be construed as an

indictment against the mental capabilities of rural school children. It is rather on indictment assinst a system that does not permit full development of their capabilities. Perhaps G. P. Glenn explained the situation best when he wrote, "We find the ert of learning very generally well developed among pupils of city echools, while it is displayed in rural schools by only a few-s few mental gients of whom Cicero, in his comments on the genius of nature sava: 'Something mervelous may be expected from the youth who has both'. These rare combinations of genius, in the past, have performed the wonderful fest of copturing the ert of learning, despite the edverse conditions of the rural school. Unfortunately they do not represent the masses of country school children (7)." Glenn wrote this indictment egainst the rural schools of the Atlantic states in 1905, but it is applicable to the rural school eitustion in Kansae today.

2. Better social opportunities. The legger echool provides the opportunity for group ectivities in mucic, operaties, ethicities, and other fields. Dramatization of work is possible, which is a fector in motivating interest, and which is an important perf of the present day unit program of study. Contact with a large group widens the vision of the individual; he gains ideas which he could not

gain in a small group (8). His association with many will cause the disspectance of shymess and beshulness. As he associates with a large number he measures himself against them and forms a more correct satisate of himself and his chilities then is possible were he with a small group (6). Lack of competition may cause him to do work below his poscibilities on he may be able to rank enong the best of the few with inferior affort. He learns to cooperate, a lesson sadly needed by many rural school children (8).

5. Better organization and supervision. In the larger system testing programe can be cerried out by the principal, and the work of students and teachers can be eveluated. It sliminates the problem which forces a school board to employ, for disciplinary rescans, a male who knows nothing about the art of teaching the princry pupils. Teachers can be chosen for the type of extra-curricular activity for which they are best suited.

4. The larger school tends to eliminate the pressure brought on the rural teacher by a few families of the district. It eliminates the demger of the freezing out of a teacher by two or three families because of family feuds, jealousies, or dissatisfaction with grades. Matters are complicated still further where a lorger percentage of the atudents are children of board members. This pressure often

forces the teacher of the rural school to sword high grades to hold his position. The student gains on unfair satinate of his oblility for which he suffers when he enters high school.

Thus, it has been shown that the cooperative school plen for this see is practical, it provides a financial saving, and it is of great aducational benefit to the students involved.

THE BISON AREA

Bison, e city of the third class, efforts snother excellent location for a cooperative school. The high and grade schools are mainteined in separate buildings. The grade school employs four teachers and receives on "A" rating from the etete department of education. A new grads echool building is under construction which will have four large claserooms and a gymnesium. As the present enrollment is only 65 students, Bison can eccommodate approximentaly 50 educational etudents when the new building is completed. The increased enrollment sould not be exceesive for four teachers (1). Hence, the conditions at Bison provide on excellent opportunity for the children in the rural districts of this neighborhood to goin better educational edwantages.

Under this proposed plan, districts number 63, 64, 65,

67, and 54 would cooperate with the sisce district, number 61. The addition of the pupils from these districts would increase the Bison enrollment to 116 pupils. The transportation of the pupils from the rural districts would not be difficult aims the everage distance to the cooperative school would be a fraction over three miles. The road system of the vicinity is also favorable to cooperation which is shown by the following facts: Students living in 86 of the 42 sections, in the area of the cooperating districts would have less than one mile to travel to reach an all-weether highway leading directly to the cooperative school. In the remaining 16 sections, pupils living in 14 sections would need to travel less than two miles to reach an all-weether highway.

The financial saving would be great for all districts concerned. Bison undoubtedly would be satisfied with the state sid geined from the attendance of the additional students, as it will be greater than the tuition required at present. Hence the cooperating districts would need to budget only for transportation, insurance, and upkeep of their buildings. It is proposed that transportation be allowed at the rate of 15 cents per day per individual. Whosep and insurance will also be the same as in the McGreeken Area. Facts of financial significance relating

to this area are shown in Table 6. The large financial savings should be an insentive for cooperation, as the four rural districts maintaining schools would reduce their budgets by an average of 45 and one-half per cent, a total saving to the four districts of \$1.189.00.

Bison, the central or cooperative school, would receive approximately \$1.160.00 in state sid by the attendance of the additional 47 students. This is calculated on the basis that the everage daily attendance would be 90 per cent of the enrollment, which is s low figure. Bison should be anxique to receive this additional income, as it will reduce its achool levy by approximately 38 per cent. More supplies and equipment will be needed, but ressonable arrangements could be made with the cooperating districts for their libraries, equipment, and other necessary supplies. Bison could spend \$6.00 per siditional student for the siditional equipment he would necessitate and reduce its budget by 25 per cent. The sided income should make for a better school and indirectly help the people of the Bison district to pay for their new grade school building. The students from the cooperating schools would also gain the educational saventages already mentioned in the McCracken area. The following comparison will show that the rural school students entering the cooperative achool would have

ble 6. Proposed Budgets and Savings for the Bison Are

and Enget Dellars For Uplesop Gent	6108 6018	447 306	1	1	878 828	206 378
Transper-	9840					
Average		10	1	40	60	100
State Balgest Aid with Aid	9000	800	8,008	1	999	990
State Aid	9003	98	3	I	200	117
Protect	11,000	718	3,661	1	167	900
Street.	8	1.6	99	none	10	0
riot .	80				64	

Metriot 66 does not maintain a school at preson

better trained teachers than they have in their own schools.

Table 7. Preparation and Experience of the Teachers in the Bison Area

Teachers	Average Number College Hours	Averege Years in Present Position	Avarege Number Years Experience
Bison	40	2.5	5
Cooperating Schools	24	1.5	3

As the Bison eshool becomes larger and financially richer the school officials undoubtedly would demand better qualified teachers. The district eshools connot offord the better trained teachers, consequently, there would be little prospect that the rural districts would demand better qualified teachers in the future, except so for as determined by law.

THE OTIS AREA

Otis, e third class city, provides enother good losstion for e cooperative school. Otis maintains a high school and a grads school in separate buildings. The grads school receives as "A" rating from the state department of education. The school has an annollment of 90 students and emplaye four taschers. There are eight rooms in the building but, at present, only four are used so elsearcoms. It is proposed that Otis edd one teacher and maintain a fiveteacher school.

Under this plen, districts 42, 48, three and four would cooperate with district 47, the Otis district. The everage distance traveled by students from the cooperating echool would be about four and one-helf miles. He student would need to trevel to exceed seven miles to reach the cooperative school. Due to the favorable road system, pupils living in 25 of the 38 sections in the cooperating school eres would have less then one mile to travel to reach an all-meather road lasding to the cooperative school. Pupils living in 39 per cent of the cooperating territory have more dirt road to sover in going to their own echool than they would have to reach an ell-weether road leading to the cooperative echool. Thirty-eight per cent of the public of the cooperating echools have brothere or sisters ettending the Otie high school with whom they could ride to the cooperating school.

The addition of the 47 etudents from the four cooperating districts would increase the enrollment of the Otia grade school to 146 etudente. This enrollment would not be successive for five tembers (1).

Reference to Teble 8 will reveal the significant financial facts relating to this proposed area. It is essuade that ofte will require no tuition in eddition to the state sid ressived from the attendance of the edditional students.

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Pariot B	inrell.	1. 1	Prosent Dadget	State	Addrest with	Average Matemas	Cost In Trunspor- tation	Insurance and Upicesp	Propose Budget	Savine La Bollars	Per Per Cent
3	0	-	970	41.60	\$ 008		6845	22			88.6
3	3.6		918	10000	818		829	\$			41.0
10			900	11000	900	100	878	3	256		71.8
-	8	4	900	108	5,408	3	1	1	I		-
*	3.6	-	136	mene	1,156	10	878	3	9		65.0

Transportation, upkasp, and insurence are determined the same as in the McCreeken area. The four cooperating districts would make a total saving of \$2,012, an average reduction in their budgets of 57.1 per cent. Since the Otic high school students must provide their cent rensportation, the families who have children in both greads and high school would make an additional gain from the payment of transportation for their gread school oblidits.

The Otis district would receive \$1,134.00 additional state sid from the attendance of the 47 additional pupils. This income would pay the salary of the additional teacher and leave three or four hundred dollers for reducing the Otis levy or adding additional equipment. As errongements could be made for using equipment from the cooperating schools, it should not be necessary for Otis to epend a large sum of money on new equipment.

The admentional advantages derived from the larger school system would be the most valueble gains made by the people of the rurel districts. These edvantages have already been mentioned in the McCrecken exce. The better prepared and more experienced Otis teachers would provide a better trained fewulty for the pupils from the rural districts.

Table 9. Preparation and Experience of the Teachers in the Otis Area

Teachers	Average Number College Hours	Years in Present Position	Average Number Years Experience
Otis	28	3	9.8
Cooperating Schools	15	2	4.7

The people living in end near Otis have shown a great deal of interest in building up a good high school system. This rurel high school district recently built a new building which is considered emong the best school plants in the state. To reap the full benefit of their fine high school system, the people of the rural sections should be interested in the full educational development of their children before they reach the secondary school. The organization of the proposed cooperative area would be an inexpensive, easy, effective way to provide better elementary education for their children.

THE LA CROSSE AREA

La Crosse, the county seat, would provide e good example of an eight-teesher school ebscrbing the small schools located around it. La Crosse maintains a high school and a grade school in separate buildings. The grade school building is modern in every respect. The classrooms are large and con secommodate more students. The road system is favorable for pupil transportation as two state highways cross at this point.

With present facilities, it would be practical for districts number 68, 71, 25, and 54 to cooperate with number sight, the Le Crosse district. The additional students from the four rural districts would increase the enrollment of the Le Grosse school to 200 students. This would not be excessive as the sverage enrollment would be less than 35 pupils per teacher. Students living in 50 per cent of the area of the cooperating districts would need to travel less those one mile to reach a hard surfaced attack highway. Only those living in ten per cent of the area would have over two miles to an ell-seather read.

La Grosse probably would not demend any tuition from the incoming students. The state sid it would receive by their sidditional attendance would be greater than the tuition required in the pest. Fifteen cents per day par individual is sufficient transportation allowance for the students of the cooperating districts, since the everage distance traveled by these pupils would be less then four miles. Upkeep and insurance on the rurel school buildings would be the same as the figure determined in the first plan. Heference to rable 10 will show the significent finential facts relating to this cooperative area. It should be noted

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Juble 10. Significent Pinancial Pasts Selating to the La Greese Area

Par Par Oent	1	5.9	9*1	8.8	1.7
4					
Berling to Dellars	1	9468	241	200	609
Prepared Budget	i	1881	880	806	80
Chicago	1	2	3	3	3
Transpor-	1	60.09	297	100	162
Merkgo Matendo	i	80	10		10
Addison Add Add	199,461	900	990	900	013
States A&d	45,504	0000	360	366	162
Prisont	996"00	900	940	740	978
No ment	95		=		100
Hot-	100	102	3	8	E

that three of the cooperating districts would reduce their expenses to meerly one-third of what they are at present. The four cooperating districts would reduce their expenses by an everage of 60.8 per cent, a total saving to the four rural districts of \$1.808.00.

The income of the La Grosse grade school district would be increased by \$800,00. State sid gained from the attendance of the additional 30 students would provide this sum. La Grosse could spend \$800,00 of this amount for additional equipment which night be needed and reduce her levy by more than nine per cent.

The pupils from the cooperating schools could step from eneng the worst to the best educational opportunities in the county. The advectional adventages of the larger school system could be similar to those listed in the NeCrocken area, but with more caphasis, as La Crosse employs one teacher for each grade. As would be expected, the teacher training of the cooperative school is superior to that of the cooperating schools.

Table 11. Preparation and Experience of the

Toochers	Average Number College Hours	Years in Present Position	Average Number Years Experience
La Crossa	70	5.5	9.6
Cooperating Schools	14	1	2

With an avarage empoliment of only seven and ano-half pupils, the cooperating schools can in no way secure the social advantages which would be provided by the large envaluent of the La Crosses school. This one fact abould be sufficient reason for the rural districts to consider co-operation. However, this study shows that the organization of this area would be provided, and a great improvement in the education-ol opportunities of the rural children would be secured.

THE ROBE CHEVEN AREA

In the south central part of the county we find another
revershel losetion for a cooperative school. The grade
school at hush Center is housed in a large four-room brick
building. Three teachers are employed to instruct 44 etudents. In addition to the fact that this community has an
edequate building, Rush center is invorably locates for a
cooperative school. State highways act as exteries for
treval and rum in every direction from this community. As
Rush Center does not maintain a high school, the people in
this part of the county send their dulldren to high school
in La Grosse. A great majority of the students who live
community on their may to high school in Ia Grosse.

It is proposed that this eres be organized so that present facilities at the Ruch Center school would be adaquate. W. E. Sheffer, in his study on cooperative schools (1), determined that 76 students should not impair the efficiency of e three-teacher echool. Therefore, it is proposed that districts number nine, five and 40 cooperate with number one, the Rush Center district. The total enrollment of the cooperative echool would become 76 students. Thirtyeight per cent of the studente in these thres cooperating dietricts have brothers or sisters ettending high school in La Crosse. As these high school studente must pass through Ruch Center on their may to school, the family car could furnish transportation for both the grade and high echool students. Assessibility to good roads is not difficult as the pupils living in 54 per cent of the ares of the cooperating districts reside less then one mils from a graveled or oiled state highway.

Teble 12 reveals that the plon has great financial possibilities. Transportation, insurance, and upkeep ere established the same as in the McCracken ereo. It is essumed that Rush Center will demand no tuition from the cooperating districts, as the present rate of tuition is two dollers per month per pupil. State sid would provide nearly three dollers per month per pupil. The cooperating districts

3

Inble 18. Significant Pinancial Pacto Selating to the Sash Center Are

me-	nont sont	Present	State A5.0	Brdgo's with	Peruge Meterice	D+	Constraints outd Total	Prepased Badget	Sellars Dellars	Sawing Per Cent
0	27	\$ 796	\$1.25	9 678	10	9384	940		\$200	
9	10	8,988	360	918	100	870	3		401	
and	\$	2,980	9.6	80648		1	1		-	-
10	30	1,008	0	2,046	0	870	\$		756	70.3

would reduce their budgets by an everage of eproximately 57 per cent, a total saving for the three districts of \$1,441.00. The families who have children in both grade and high school would make an additional gain by the payment of transportation for their grade school children.

The Ruch Center echool will reclize approximately g700,000 additional state old from the attendance of the 3E students from the rural districts, e reduction in their lary of 3e per cent. The additional equipment needed would not be a problem for this cooperative achool. Some years ago this district maintained a four-year high achool in addition to the grade achool in this building. Consequently, there is an abundance of equipment of all kinds that could be used.

The educational gain, so brought out in the McCrecken eres, will be of greater significance than the financial seving. Reference to rable 13 will show that the rurel pupils would be instructed by teachers with better training in the cooperative echool.

Table 13. Preparation and Experience of the Teachers in the Rush Center Area

Teschers	Average Number College Hours	Average Years in Present Position	Average Number Years Experience
Rush Center	27	4	6
Cooperating Schools	11	2	3

Since there are four electrooms in the Rush Center grade cahool building, it might be suggested that in the future one teacher be added to the present faculty of three. District 72, district 75, district 22, and district 45 could then be added to the cooperative area just proposed. District 72 would reduce its budget by five per cent, 75 by 40 per cent, 22 by 72 per cent, and 45 by 50 per cent. Ruch Center would receive more then \$900.00 in state old from the ettendence of the 36 students in these districts. The edded income would essily provide for the extra teacher.

THE ALEXANDER AREA

A sixth proposed cooperative erre would be built eround the only consolidated school in the county. This consolidated district maintains its high school and grads school in Alexander. The grade school employs four teachers for an enrollment of 95 students. The building 10 modern in every respect and the grade school receives a class "A" rating from the state department of education.

As this grade school could accommodate at least e dozen more students with present facilities, it is proposed that districts number 44. 58, and 18 cooperate with this colsolidated school. Number 44 dose not maintain a school et the present time. The addition of the 12 pupile from districts 38 and 18 would increase the Alexander enrollment to 107 students. Fifty-eight per cent of the children in these two districts have other members of the family attending the high school in Alexander. The cooperating districte have valuations of only \$91,092.00, \$95,957.00, and allo.927.00. This makes it difficult end expensive for them to meintain schools for their smell enrollments. Cooperation should provide an easy solution for their difficulty. In view of the above two facts, the average distence of seven miles should not be excessive for the cooperating students to travel to attend the cooperative hehool.

Since the everage distance in this plan is greater than in the previous plane, it is proposed that transportation be paid at the rate of 25 cents per day per pupil. Alexander probably would demand no tuition in addition to the etate aid received from the ettendance of these 12 pupile. The financial savings of each district and other fects releting to this eres are shown in reble 16. The two cooperating schools sould make an everage reduction of 25 per cent in their current expense. Their present budgets ere very low primarily because of the low mages paid to their teachers. Their saving by cooperation would become greater when they increase the wages of their teachers, which they surely must do because of the low salarise they ere pring.

Alexander, the cooperative school, would goin approximately 300.00 edditional attracts eld from the attendance of the LB etudents. This would be not income, as present facilities are edequate to accommodate this number of students.

The financial seving of the cooperating districts would be of minor consideration when the educational gains from cooperation are considered. The pupils from the rural districts will gain all the educational educateges listed in the first plan. We can measure the training of the teachers and show that the training of the cooperative eshool teachers would be superior to that of the rural achools. The great superiority of the training of the Alexander teachers can be seen by referring to Teble 15.

4

Priot	forest.	Precent	State	State Budgets	Retense	Transpor- tettion	Ingurance and Upicsor	Proposed S Budget	Saving in Bellare	Saving Per Cent
lon.l	88	1	99 8	1	1	1		-		1
18		9999	171	9094	0	Barro		9275	9105	li
2		900	300	999		270				13
990										

Metrics 44 does not maintain a school at present

Teble 15. Properation and Experience of the Teachers in the Alexander Area

Tenchere	Average Number College Hours	Average Years in Present Position	Average Number Years Experience
Alexander	72	4	6.5
Cooperating Schools	1	0	1

The greatest benefite goined by the pupils from the two rurel districts, however, would be the social advantages echieved from association and contact with more than a hundred shudente instead of a mere helf dozen.

THE TIMEN AREA

Tinken affords a plan whereby a two-teacher school would become the central school of a cooperative school eres. At the present time, Tinken employs two teachers and has an enrollment of 31 students. A new school plant, with two lorge classrooms and a gymnesium, is to be constructed of this place. The building wes planned in such a way that additional classrooms could be added in the future. Whether they expected the community to grow, or were making cliowances for a consolidated or a cooperative school area in the future, could not be determined.

As Timken does not meintein a high school, students from this vicinity attand high school in Bison. Concequently, high school students living in districts 16 and 66 must either pass through or within a mile of Timken on their may to echool in Bison. This is an important consideration so 45 per cent of the pupils attending the rural schools in these two districts have brothers or sisters attending the Bison high school. Consequently, nearly helf the pupils in districts 16 and 66 could ride with their older brothers or eisters and be dropped off at the Timken areas school.

Therefore, it is proposed that district number 18 end 66 cooperate with the Timken district, number 12. The envolument of the Timken school would be increased to 54 students by the addition of the 23 students from these two districts. The road system adds to the practicebility of this plan. This can be shown by the fact that pupils living in 69 per cent of the cooperating area would have less than one mile to travel to reach an ell-westher highway leading to Timken. Those residing in only nine per cent of the cooperating area live more than two miles from a graveled highway.

With state sid providing the tuition to the Timkon district, the two cooperating districts would need to tax themselves only for transportation, insurance, and upkeep. The financial facts relating to this proposed eras era chosm in Table 16. Transportation, incurance, and upkeep

riot seat	Pessent Budget	Park And	Anderst And And	Distance 7	francjor- tation	Cyline p	Preposed	Sellars Sellars	Parting Part
3.8	9 700	6110	8 682		9000	948	9200	90'00	41.1
	1,000	60		2	1			-	-
11	900	25			289	9		400	88.4

ore calculated the same as in the McGracken plan. The two cooperating districts would make a total saving of 1078.00, or en everage reduction in their expenses of 48.2 per cent. Additional savings would be made by families having shillows in both grade and high achool. Tinken would reserve about \$560,00 additional state sid from the ettendance of the 25 students from the two rural districts. As reasonable arrangements could be made with the cooperating districts for the additional equipment needed, Tinken would realize a nice sum for its district. This could be used to lower Tinken's lawy, which would indirectly help to pay for the new school building.

Educational edvantages would naturally be better in etwo-teacher school than in some-teacher school. The inoreased enrollment of the cooperative school would provide a sufficiently large group for group estivities and for the social contect which is necessary for the full development of every child. The other educational edvantages listed in the McGreeken area would apply also. Reference to Table 17 will show that the rural pupils would be inetrusted by better trained teachers in the cooperative school.

Table 17. Preparation and Experience of the Teachers in the Timken Area

Teachers	Average Number College Hours	Average Years in Present Position	Average Rumber Years Experience
Timken	47	5	4
Cooperating Schools	16	0	1

The organization of this area would provide the rural school children with the opportunity of enjoying the conforts of a new building as well as the educational advantages derived from a larger school.

THE NEKOMA AREA

Nelcoma provides enother plan by which a two-teacher school, would become the cooperative school. As the present concollent is only 56 pupils, 15 or 30 additional students could be accommodated without impairing the efficiency of this school.

pistricts number 30 and 70 could cooperate to their advantage with the Mekona district, number 31. The addition of the 15 students from these two districts would increase the enrollment of the Mekona school to 51 students. High school students living in district 70 can pass through Mekona on their way to eshool at Alexander without increasing the distance to travel. Hence, families having children in both grade and high school would gain in the process of

the payment of tremsportation for their grade school childran. The pupils living in district 80 have seems to e foirly well sended road leading directly to Nokoms. With little expanse this road could be improved to the point where it could be elessed as an all-menther road. As the rural school is located on this road, which runs through the center of the district, pupils living in half the srea would reside within a mile of it. Guly those living in three quarters of a section would have more than two miles to travel to reach this road. As this district has only seven students these fracts should be worthy of consideration.

The financial possibilities of this plan are revealed in Table 18. Transportation, insurance, and upkeep were calculated the same as in the motreeken plan. A glance at this table reveals that the two cooperating districts would make a total saving of 868.00, an average reduction in their expenses of 65.4 per cent. Nehoms would gain \$565.00 additional state sid from the attendence of the 15 students from the two rurel schools. Resconchis arrangements could be made with the cooperating districts for the additional equipment mosded. Hence, the Hekoms district could reduce its lawy by nearly 80 per cent.

The incressed income should make for a better school educationally, as sell as financially. Better trained

140	Mary Land	Badget	Add		Average	Transpor-	And Uppeep	Proposed Budget	Dellars	Saving Par Cent
-		9 907	11.02	9 746		0770	848		9136	
	98	8,000	85	1,013	,	1	1		1	
-	60	980	808	618	*	216	3	8.06	998	87.8

teachers could be provided and probably would be demanded as the school became larger. Heference to Table 10 will show that the teachers of the cooperative school would be as well trained as those in the rurel schools. The educational advantages in the NeGreeken plan would apply here also, with

Table 19. Preparation and Experience of the Teachers in the Tisken Area

Teachers	Average Number Collegs Hours	Years in Present Position	Average Number Years Experience
Hekona	29	2	4
Gooperating Schools	8	5.5	4.5

the social advantages derived from the larger school being of special significance.

SUBBIARY

The ecoperation of 27 mural school districts with the grade schools in Rush County would be practical. The location of roads and districts make all-meather roads easily accessable to pupils in these districts. Pupils living in 40 per sent of the territory of the ecoperating schools, reside less then one mile from a graveled or ciled highway leading to their cooperative school. In the five plans where data were available, 45 per cent of the pupils in the cooperating districts have brothers or staters attending

high school with whom they could ride to their cooperating schools.

The organization of the cooperative eress would provide a large financial saving for the districts involved. The cooperating districts would make a total financial saving of \$8,550.00, an everage reduction in their expenses of 51 per cent. The net income of the cooperative schools would be increased \$4,800.00, which would provide an average reduction of 10 per cent in their leviae, a total financial gain of \$12,750.00 for the cooperating and cooperative districts.

Better educational opportunities for the pupils would be the most significant result of the lerger school unite. The scholastic achievement of the pupils from the rural schools would be feelinteted by longer terms, longer recitetion periods, better trained teachers, and teachers having a limited number of classes. The larger scoperative school would secure an enrollment large enough to provide group sctivities, dramatization of work, and the social contect necessary for the best development of every child.

If the cooperative school eres were organized, 27 oneteacher schools could be closed. This represents 47.4 per cent of the 57 one-teacher echools in the county. As the pupils from the closed schools would gein better aducational opportunities, the cooperative plan would provide e great improvement in the school situation in Rush County.

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BIBLIOGRAPHY

- Sheffer, W. E.
 The ecoperative school ares in Kansas. State
 Dept. of Educ. Research Bul. 121 p. 1934.
 - O'Brien, F. P., and Smart, T. J. Schooling in one-teacher schools. University of Ennses. Bul. 22(18):14. Dec. 1921.
- Foots, John M.
 Comperative study of instruction in one-room and consolidated schools. Jour. Educ. 2:337. 1925.
- Kenses school laws, compiled by W. T. Markham. rev. ed. Kens. State Dept. of Public Instruction. 1937.
- 5. Abel, James Frederick.

 Recent date on consolidation of schools and transportation of pupils. U.S. Bur. Educ. Bul. 22:21-24. 1982.
- Linscheid, Feter Rudolph.
 Administrative proposals for improving the Horper county schools based upon the cooperative school plan. Unpublished Thesis. Enns. State College of Agr. and Applied Science. 51 p. 1935.

- 7. Glean, George Pinckney.
 The concentration of achools and transportation of pupils. Ann. Amer. Acad. Pol. and Soc. Sci. 22:254-259. Sept. 1905.
- 8. Momehan, Arthur Coleman.

 Consolidation of rural schools and transportation
 of pupils at public expense. U.S. Bur. Educ. Bul.
 30. 12 p. 1914.
- Twenty-minth blenniel report of the state superintendent of public instruction. Kans. State Dept. of Public Instruction. 551 p. 1933-34.
- Twelfth biannial report of the state superintendent of public instruction. Rans. State Dept. of Public Instruction. 179 p. 1899-1900.
- Sixteenth bienniel report of the stats superintendent of public Instruction. Kens. State Dept. of Public Instruction. 365 p. 1907-1906.