

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1938

Total Cleveland-Cliffs Iron Co. load connected to Power System - 12/31/38 - 26,579-1/4 H.P.

" Cliffs Power & Light Co. " " " " " - " - 428-1/2 "

" Outside " " " " " - " - 19,994-1/2 "

TOTAL CONNECTED LOAD 47,002-1/4 H.P.

Total connected load at Mesaba Range Mines - Dec. 31st, 1938 - 4,937-1/8 H.P.

" " " " Spies-Virgil Mine - " " " - 1,435 H.P.

Total spare motors on hand Dec. 31st, 1938 - Ishpeming District - 7,964-3/4 H.P.

" " " " " " " " - Spies-Virgil Mine - 150 H.P.

" " " " " " " " - Mesaba Range Mines - 2,658 H.P.

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Underground haulage generators installed and operating as needed.

	INSTALLED TO JAN. 1 1938	INSTALLED IN 1938	TAKEN OUT IN 1938	JAN. 1, 1939 TOTALS
CLIFFS SHAFT MINE:				
Motor-Generator set #2	100 KW			
" " Charging set	5			
" " Set #1	<u>100</u>			
				205 KW
AHTENS MINE:				
Rotary Converter #1	100			
" " #2	<u>100</u>			
				200
MAAS MINE:				
Motor-Generator Set #1	100			
" " " #2	100			
" " " #3	<u>250</u>			
				450
NEGAUNEE MINE:				
Motor-Generator Set #1 (New)	200			
" " " #2	<u>150</u>			
				350
LLOYD MINE:				
Converter #1	90			
" #2 (From Wade Mine)	<u>100</u>			
				190
MACKINAW MINE:				
Rotary Converter	<u>100</u>			
				100
TOTAL	<u>1,495</u>	<u>0</u>	<u>0</u>	<u>1,495</u>

DIRECT CURRENT MOTORS:

CLIFFS SHAFT MINE:				
Portable Hoist	10			
Carp Puller	6-1/2			
Scrapers 8	<u>165</u>			
				181-1/2
TILDEN MINE:				
Hoist motor on electric shovel #29	100			
Swing " " " " "	20			
Thrust " " " " "	20			
Swing " " " " #31	20			
Thrust " " " " "	20			
Hoist " " " " "	100			
Hoist " " Marion " "	60			
Swing " " " " "	23			
Thrust " " " " "	23			
Dipper Trip Motor " "	<u>5</u>			
				391
ATHENS MINE:				
Skip Hoist	900			
Ventilating fans 8 - 5 HP motors	30	10		
Sullivan Scrapers 2 - 6 1/2 " "	13			
" " 22 - 15 " "	300	30		
" " 4 - 20 " "	80			
I. R. Scrapers 2 - 10 " "	20			
Ventilating fan (From Maas Mine)	15			
Scrapers 1 - 25 HP motor	<u>50</u>		<u>25</u>	
				<u>1,423</u>
fwd.	<u>1,980-1/2</u>	<u>40</u>	<u>25</u>	<u>1,995-1/2</u>

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Direct current motors: (Cont'd.)

		INSTALLED TO JAN. 1 1938	INSTALLED IN 1938	TAKEN OUT IN 1938	JAN. 1, 1939 TOTALS
Brt. fwd.		1,980-1/2	40	25	1,995-1/2
MAAS MINE:					
Timber Hoist - 4th. Level		10			
Sullivan Scrapers	23 - 15 H.P. motors	345			
" "	5 - 6 1/2 " "	32 1/2			
Ventilating fans	10 - 5 " "	50			
Scrapers	2 - 25 " "	50			
I.R. Scrapers	14 - 15 " "	135	75		
" "	3 - 10 " "	30			
Scrapers	2 - 20 " "	20	20		
Fan	1 - 3 " "	3			
		<hr/>			770-1/2
MAAS CRUSHING PLANT:					
Pan Conveyor		40			
		<hr/>			40
NEGAUNEE MINE:					
Skip Hoist		500			
Cage "		200			
Timber Hoist - 11th. Level (Scrapped)		10		10	
" " - 12th. " "		10		10	
Grindstones	2 - 6 1/2 H.P. motors	13			
Sullivan Scrapers	2 - 25 " "	50			
Ventilating fans	6 - 5 " "	30			
Denver Scrapers	3 - 10 " " (Scrap)	30		30	
Sullivan "	7 - 15 " "	105			
I. R. "	12 - 15 " "	150	30		
" "	6 - 10 " "	60			
Sullivan "	1 - 20 " "	20			
Gardner-Denver Scrapers	2 - 15 H.P. "	30			
I. R. Scrapers		50			
" "	2 - 25 " "	50			
Saw (From Gwinn)			25		
			<hr/>		1,313
LLOYD MINE:					
Scrapers	22 - 15 HP motors	180	150		
" "	1 - 10 " "	10			
" "	1 - 25 " "	25			
Skip Pit	1 - 6 1/2 " "	6 1/2			
" "	1 - 7 1/2 " "	7 1/2			
I. R. Scraper	1 - 20 " "	20			
		<hr/>			399
GARDNER-MACKINAW MINE:					
Scraper	3 - 10 " "	30		30	
" "	1 - 20 " "	20		20	
" "	1 - 15 " "	15		15	
Fan		15		15	
		<hr/>		<hr/>	0
TOTAL D. C. MOTORS		4,333	340	155	4,518

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Direct current motors installed and operating as needed.

		<u>INSTALLED TO JAN. 1 1938</u>	<u>INSTALLED IN 1938</u>	<u>TAKEN OUT IN 1938</u>	<u>JAN. 1, 1939 TOTALS</u>
<u>CLIFFS POWER & LIGHT COMPANY:</u>					
AU TRAIN PLANT:					
Governor control motors	(2)	<u>1/4</u>			1/4
CARP PLANT:					
Rheostat control	(2)	1/4			
Governor "	(2)	<u>1/4</u>			1/2
McCLURE PLANT:					
Valve control	(2)	2			
Rheostat "	(2)	<u>1/2</u>			2-1/2
TOTALS		<u>3 1/4</u>			<u>3 1/4</u>

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The following direct current generators and exciters are installed and operating as needed:

	INSTALLED TO JAN. 1 1938	INSTALLED IN 1938	TAKEN OUT IN 1938	JAN. 1, 1939 TOTALS
CLIFFS SHAFT MINE:				
Compressor motor exciters (3)	30 K.W.			30
GENERAL SHOPS:				
M.G. set in shop	10			
Welding Generators	16			26
ATHENS MINE:				
Nordberg compressor motor exciter	10			
Flywheel set exciter	15			
Skip hoist generator	700			
Ingersoll-Rand compressor motor exciter	10			735
MAAS CRUSHING PLANT:				
Pan conveyor generator	35			
" " " exciter	1 $\frac{3}{4}$			36 $\frac{3}{4}$
NEGAUNEE MINE:				
Skip Hoist generator	400			
Cage " "	150			
Flywheel exciter	25			
Exciters for underground pump motors	28			
Ingersoll-Rand compressor motor exciter	10			
Nordberg " " " "	10			
Bell signal set	1/2			
Skip Hoist generator #2	400			
Cage " " "	200			
Exciter on new hoist set	35			1,258 $\frac{1}{2}$
LLOYD MINE:				
Compressor motor exciter	6			6
MACKINAW MINE:				
Compressor motor exciter	10			10
TILDEN MINE:				
Thrust generator on electric shovel #29	15			
Hoist " " " " "	75			
Swing " " " " "	15			
Exciter " " " " "	5 $\frac{1}{2}$			
" " " " #31	5 $\frac{1}{2}$			
Thrust " " " " "	15			
Hoist " " " " "	75			
Swing " " " " "	16			
Exciter for synchronous motor	15			
Thrust generator for Marion shovel	15			
Hoist " " " " "	50			
Swing " " " " "	15			
Exciter " " " " "	5 $\frac{1}{2}$			322 $\frac{1}{2}$
TOTAL	2,424 $\frac{3}{4}$	0	0	2,424 $\frac{3}{4}$

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The following direct current generators and exciters are installed and operating as needed:

		Installed to Jan. 1, 1938	Installed in 1938	Taken out in 1938	Jan. 1, 1939 TOTALS
CLIFFS POWER & LIGHT COMPANY:					
AU TRAIN PLANT:					
Exciters	(2)	<u>34 K.W.</u>			34 K.W.
CARP RIVER PLANT:					
Exciters	(2)	<u>150</u>			150
HOIST PLANT:					
Exciter		17½			
"		<u>37</u>			54½
McCLURE PLANT:					
Exciters	(2)	110			
M. G. Exciter		<u>12</u>			122
EXCANABA PLANT:					
Exciter		<u>28</u>			28
REPUBLIC PLANT:					
Exciter		18			
"		<u>15</u>			33
MAAS PLANT:					
Motor driven exciter		22½			
Turbo " "		22½			
Compressor motor exciters (2)		<u>20</u>			65
PRINCETON CENTRAL POWER PLANT:					
Motor driven exciter		22½			
Turbo " "		<u>22½</u>			45
BROWNSTONE SUBSTATION:					
Battery charging set		2			
Line testing set		1/2			
Voltage regulator control		1/2			
Condenser exciter		<u>15</u>			18
TOTAL		<u>549½</u>	0	0	<u>549½</u>

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MESABA RANGE:

Underground Haulage Generators installed up to Dec. 31st., 1938.

HILL-TRUMBULL MINE:

Motor-generator set		55 KW	
" " " for rock haulage		<u>25</u>	
	<u>TOTAL</u>		80 KW

Direct current motors installed up to Dec. 31st., 1938.

CANISTEO MINE:

Rack Drives on classifiers	2 - 5 HP motors	10 HP	
Hoist motor on shovel	2 shovels	375	
Swing " " "	2 "	80	
Thrust " " "	2 "	80	
Pan Conveyor		40	
Log Washers - from Holman	2 - 40 HP motors	<u>80</u>	
			665 HP

HILL-TRUMBULL MINE:

Feeder Motor		60	
Hoist motor on shovel		187½	
Swing " " "		40	
Thrust " " "		39	
Dorr bowl classifiers	2 - 5 HP motors	10	
South log washer		40	
North " "		40	
Hoist motor - #47 shovel		43	
Crowd " - " "		17½	
Swing " - " "		17½	
Dipper trip motor - #47 shovel		3	
Blower		<u>3</u>	
			498½

HOLMAN-CLIFFS MINE:

Pan Conveyor		<u>40</u>	
	<u>TOTAL</u>		40 <u>1,203½ H.P.</u>

Spare direct current motors on Masaba Range Dec. 31st., 1938.

CANISTEO MINE:

Generator (From Pontiac Mine)		<u>7 KW</u>	
			7 KW

HOLMAN-CLIFFS MINE:

1 D.C. motor		5 HP	
1 " "		3	
1 " "		3	
Log Washer		<u>40</u>	
			51 HP

MESABA RANGE:

Total Exciters and Generators installed to Dec. 31st, 1938	-	1,246 KW
" Haulage Generators	" " " " " "	80 KW
" Direct Current Motors	" " " " " "	1,203½ HP

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Spare Generators and Exciters on hand Dec. 31st. 1938.

NEGAUNEE MINE:

Skip Hoist (Armature only) 500 H.P.

Spare Underground Haulage Generators on hand Dec. 31st. 1938.

GENERAL STOREHOUSE:

Motor-Generator Set (From Morris Mine)	100	
Exciter - Nordberg Compressor	10	
"	22	
Motor-Generator Set	<u>20</u>	152 K.W.

Spare Direct Current Motors on hand Dec. 31st., 1938.

ATHENS MINE:

Timber Hoist Motor	10	
Fan	<u>15</u>	25

MAAS MINE:

Conway Loader	<u>50</u>	50
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LLOYD MINE:

Crane Motor	<u>10</u>	10
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GENERAL STOREHOUSE:

Pump Motor	20	
Spare hoist motor for shovel	105	
" swing " " "	<u>20</u>	145

GARDNER-MACKINAW MINE:

Hoist	<u>15</u>	
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	<u>15</u>	
<u>TOTAL</u>		<u>245 H.P.</u>

Spare D. C. Generators and Exciter on Mesaba Range:

CANISTEO MINE:

Swing generator on shovel - 2 shovels	300 KW	
Swing " " " - 2 "	80	
Thrust " " " - 2 "	78	
Washing plant generator	150	
Arc Welder	10	
Exciter on shovel - 2 "	24	
Arc Welder (From Hill-Trumbull)	<u>10</u>	652 KW

HILL-TRUMBULL MINE:

Hoist generator on shovel	150	
Swing " " " "	40	
Thrust " " " "	39	
Exciter " " " "	12	
Hoist generator on #47 Shovel	50	
Crowd " " " "	16	
Swing " " " "	16	
Exciter " " " "	6	
Motor-generator for logs	<u>115</u>	444

HOLMAN-CLIFFS MINE:

Generator for feeder	<u>150</u>	
		<u>150</u>

<u>TOTAL</u>		<u>1,246 KW</u>

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SPIES-VIRGIL MINE:

Exciter installed to December 31st., 1938:

Compressor motor exciter 10 KW

Underground Haulage Generators installed to Dec. 31st, 1938:

Top Tram larry cars	2 - 20 HP D.C. motors	40
Fan		<u>15</u>
		55 HP
Spare D.C. Generator		100 KW

ISHPEMING DISTRICT:

CLIFFS POWER & LIGHT COMPANY:

Direct current motors installed to Dec. 31st., 1938 - 3-1/4 H.P.

" " generators and exciters installed
to Dec. 31st., 1938 - 549-1/2 K.W.

CLEVELAND-CLIFFS IRON COMPANY:

Total D.C. Generators and Exciters installed to December 31st., 1938 - 2,424-3/4 K.W.

"	Underground Haulage Generators	"	"	"	"	"	- 1,495	K.W.
"	Direct Current Motors	"	"	"	"	"	- 4,518	H.P.
"	Spare D.C. Generators and Exciters on hand	"	"	"	"	"	- 500	H.P.
"	" Underground Haulage Generators	"	"	"	"	"	- 152	K.W.
"	" Direct Current Motors	"	"	"	"	"	- 245	HP.

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MESABA RANGE MINES:

CANISTEO MINE:

Mining operations started May 25th and closed October 22nd, the production of concentrates totalling 777,881 tons of which 252,500 tons were carried over in stockpile until 1939.

A close check was kept on delays during ore season, the total amounting to 152 hours, or approximately 6% of total working time. They were spread three ways as follows: 6 hours due to Great Northern Railway, 73 hours due to pit troubles, and 73 hours due to failure of mill machinery. The pit operation delays were mostly derailments and flooding of shovel cuts. Long delays to mill machinery were: a 12 hour shut down in June to replace two broken 14" x 8' rollers, one of 4 hours due to broken crank shaft on one classifier, and several 1 hour delays due to broken hinges in pan conveyor.

Due to the very abrasive, wet, sticky ore from bottom of pit, the pan conveyor were rapidly during the season. The 14" x 8' rollers showed some wear at the end of the 1937 season, but it was estimated they were good for 1938. After two rollers broke under receiving pocket, the rest were repaired by splitting a 14" diameter pipe in two and welding it around the rollers while in place. No repairs were made on pan conveyor this fall due to giving up the mine. The conveyor will need a complete overhauling to place it in shape for future operation.

Due to sluggish operation of 42" x 40" jaw crusher, a set of supporting springs was installed under pitman in April. The cost of repairs and operation was reduced from \$1602.66 for 1937 to \$457.50 for 1938, and the machine is still in good condition and needs no repairs for next seasons' operation.

Some bearing trouble was experienced in 1937 with 4' x 6' Aeor-Vib screens at discharge of 25 foot logs. This was corrected by reinforcing the frame and reducing the speed 200 R.P.M. Due to heavy wear, the top deck of 5' x 14" style B double deck screen was replaced with a new one of different design bought from Allis-Chalmers. It is much better than the old style, and needed no repairs when season closed. Due to bearing trouble on this screen, it is planned to reinforce the frame before using it again.

During operating season a test run was made on paddle patches of 25 foot log, with results as follows:

	Ni-Hard Lake Shore	Ni-Hard *A.E.S.	Regular A.B.S.	Regular Staver Foundry
Weight 12 paddles April	216#	228#	237#	220#
" " " Nov.	162#	162.5#	103#	112#
Wear	54#	65.5#	136#	108#

* - American Brake Shoe and Foundry Company.

For the increase in cost, it was proven that Ni-Hard was cheaper to use than chilled cast iron paddle patches.

During spring repairs on locomotives a complete overhaul was given to numbers 148 and 152. This fall it was necessary to dot the same to numbers 104 and 105, as well as replace the side sheets in the fire box of 105; It is not planned to repair number 156 as it is in poor shape and will not be needed for 1939 operation.

Fall and winter repairs at washing plant was confined to machines that can be used at Holman Mine if it operates in 1939. The rake mechanisms on bowl classifiers were rebuilt ready to replace on old bowls left at the Holman mill.

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CANISTEO MINE: (Cont'd.)

Due to cracks developing in lower steel frames of both 120-B electric shovels during 1937 operating season, reinforcing bars were welded in and cracks repaired, which corrected the trouble. No new cracks showed up after the 1938 season. The major repair this fall was replacing the rotating rails which were needed to maintain rotating clearance. All worn sections on caterpillars and frames were built up and electric equipment and cables overhauled.

One 2,500 foot length of high tension cable eight years old is still in use and may last another year now that vulcanizing repairs are completed.

HILL-TRUMBULL MINE:

In the shops repair work started on January 3rd. Locomotive 101, which was in a collision during fall stripping, was given a thorough overhauling. It was necessary to cut out the inside door sheet to remove dent in boiler front. The steel underframe of tender, which received the heaviest jolt, had to be completely rebuilt. Repairs were completed on March 21st.

Work also started on Locomotive No. 128 in January, and it was given a complete overhaul. The flat condition of its springs made it very hard riding. By reshaping and tempering them, this trouble was corrected. A new steel cab was built to replace the old wooden one.

A partial overhaul was given locomotive number 102 as it was in better condition than the other machines. Work started March 14th and finished April 14th.

When it was later decided not to wash ore at this mine, locomotives 101 and 102 were shipped to the Canisteco to assist in concentrate stock piling. When the season was over, locomotive 101 was repaired in the Canisteco shop while 102 was returned to the Hill-Trumbull shop and repaired between November 15 and December 9th.

Besides the locomotives the two blast hole drills were repaired during January and February.

The 30-yard cars moved to the Canisteco in the spring for stocking concentrates and hauling ore were returned in October and put thru the repair shop during November and December.

The new heating boiler installed in 1937 required less coal to heat the shops than the one it replaced. A stoker in this boiler would make a still better combination.

In the pit, repairs were started in January on the 350 ton^g Marion Shovel, as plans were made to use it on summer stripping after remaining idle for several years. The hoisting drum bearings were re-babbitted and the hoist, swing and boom engines overhauled.

Stripping started October 25th. and stopped November 23rd. Two delays occurred during this time. A cylinder head broke on boom engine and a tooth was knocked out of hoisting engine intermediate shaft pinion. Tooth was replaced by welding, but a new pinion was purchased to insure continuous operation. As it will be necessary for this machine to complete a heavy stripping program during the next two years, it will be equipped with caterpillar mechanism to replace ties and rails and several men.

The 120-B electric shovel was busy stripping in the east end of the pit during the fall until November 2nd. when caterpillar treads were removed and built up by welding. New stay cables were added to boom and a general overhauling completed.

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HILL-TRUMBULL MINE: (Cont'd.)

Number 47 shovel, a two-yard electric Marion, was moved to the Canisteo Mine and used in stockpile loading. It is still there but will be returned in the spring after stockpile loading is completed.

At the washing plant, repairs were started January 3rd. with a small crew. In addition to the various machines being given a general overhauling, it was necessary to replat the concentrate bins. Most of the 14" diameter by 8 foot supporting rollers under the pan conveyor are worn thin and will be repaired by taking a light cut off of outside surface and pressing on a 14" pipe with walls 3/8" thick. This makes a stronger job and cost \$50.00 per roller less than buying new ones.

The 20" discharge pipe from pumphouse to washing plant was in poor condition and getting buried up with tailings. Due to damage suits occurring from flying tailing sands, it was decided the area south of the plant was needed for a tailings basin. To correct this, the pumphouse was moved to a location east of the mill and a new 16" discharge line put in. This change was completed with the exception of installing suction pipes and finishing intake channel.

During November poles were set for new power line to pumphouse and a dyke built up along the south side of new tailings basin.

HOLMAN MINE:

This mine was idle for the entire year.

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THE CLIFFS POWER & LIGHT CO.

Substation Transformers installed up to December 31st., 1938.

<u>66,000/2300 Volts</u>	<u>Phase</u>	<u>No.</u>	<u>K.V.A.</u>	<u>Total K.V.A.</u>	
Munising Substation	1	3	667	2,001	
Seney "	1	1	25	25	
Inland #1 "	1	3	500	1 500	
" #2 "	1	3	500	1 500	
AuTrain "	1	3	333-1/3	1 000	6,026 K.V.A.
<u>33,000/66,000 Volts</u>					
Gwinn Substation	1	3	1,250	3,750	3,750
<u>33,000/110-220 Volts</u>					
Clarksburg Substation	1	3	37-1/2	112½	
" "	1	2	150	300	412½
<u>33,000/2,300 Volts</u>					
Gwinn Substation	1	3	400	1,200	
Cliffs Shaft-Holmes Substation	1	6	500	3 000	
Morris-Lloyd "	1	3	590	1 770	
Republic "	1	3	250	750	
Hartford "	1	3	400	1 200	
Maas "	1	6	590	3 540	
8 Escanaba Plant	1	3	590	1 770	
Brownstone "	1	3	625	1 875	
McClure Plant	3	2	5,000	10 000	
Carp "	1	3	1 900	5 700	
Palmer	1	3	625	1 875	
Hoist Plant	1	3	667	2 000	
Greenwood "8	1	3	150	450	
Princeton "	1	3	75	225	
Tilden "	3	1	1,250	1,250	
Palmer Rural "	1	4	15	60	36,665
<u>12,000/440/220 Volts</u>					
Piqua - Marquette Substation	1	3	100	300	300
<u>12,000/220/110 Volts</u>					
D.S.S.&A. Ry. at Clarksburg	1	1	2-1/2	2½	2½
<u>12,000/2300 Volts</u>					
McClure Plant (Furnace Lines)	3	2	1,250	2,500	
AuTrain Substation	1	3	50	150	
Chatham "	1	3	25	75	
Eben "	1	1	25	25	
Rumely "	1	2	15	30	
Inland #1 (Wis.-Mich. Line)	1	3	50	150	2,930
<u>6,600/2300 Volts</u>					
Gwinn Substation	1	3	350	1,050	
Mackinaw "	1	3	350	1 050	
Inland #1 "	1	3	25	75	
Blaney Park "	1	2	25	50	
Blaney Park "	1	1	15	15	
AuTrain Lake	1	1	25	25	2,265
<u>6,600/115/230 Volts</u>					
Furnace Substation Lighting	1	1	5	5	5
				<u>52,356 K.V.A.</u>	
<u>GRAND TOTAL</u>					

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THE CLIFFS POWER & LIGHT CO.

Station Distribution Transformers installed up to Dec. 31st, 1938.

	<u>Phase</u>	<u>No.</u>	<u>K.V.A.</u>	<u>TOTAL K.V.A.</u>
<u>AU TRAIN WATER POWER:</u>				
Heater at Valve House	1	1	2	
Control	1	2 (5)	10	
Chief Operator's Dwelling Lights	1	1	5	
Surge Tank Heaters	1	1	5	
Chief Operator's House	1	2 (5)	<u>10</u>	32
<u>CARP RIVER WATER POWER PLANT:</u>				
Power & Lights	1	1	10	
" " "	1	1	20	
Pump	1	2 (1)	<u>2</u>	32
<u>HOIST PLANT:</u>				
Power & Lights	1	3 (10)	<u>30</u>	30
<u>McCLURE PLANT:</u>				
Power & Lights in Plant	1	2 (10)	20	
" " " " Houses	1	1	5	
" " " " "	1	1	<u>15</u>	40
<u>ESCANABA RIVER PLANT:</u>				
Power & Lights	1	3 (5)	<u>15</u>	15
<u>REPUBLIC PLANT:</u>				
Lights	1	1	$1\frac{1}{2}$	
"	1	1	<u>3</u>	<u>$4\frac{1}{2}$</u>
<u>GRAND TOTAL FOR PLANTS;</u>				<u>153$\frac{1}{2}$</u>
<u>CENTRAL POWER PLANT:</u>				
Power & Lights	1	1	<u>10</u>	10
<u>INLAND SUB. #1</u>				
Control	1	1	<u>$1\frac{1}{2}$</u>	$1\frac{1}{2}$
<u>RETAIL SERVICE: 2300 Volts</u>				
H.O. Shops - Light & Power	1	1	15	
" " " "	1	1	$7\frac{1}{2}$	
Blacksmith Shop Power	3	1	30	
Manager's Residence	1	2 (10)	20	
" "	1	1	5	
" "	1	1	$7\frac{1}{2}$	
" "	1	1	<u>$1\frac{1}{2}$</u>	
New Shop Power	1	3 (10)	30	
" " Lights	1	1	15	
Old " Power	1	3 (15)	45	
" " Lights	1	1	5	
Garage & Warehouse Lights	1	1	50	
" " Power	1	2 (5)	10	
Blacksmith Shop Lights	1	1	15	
F. C. Stanford	1	1	10	
Meter Testing & Lawn Pump	1	1	$7\frac{1}{2}$	
" " " " "	1	1	<u>5</u>	
			Fwd.	<u>279</u>
Brt. Fwd.				<u>290$\frac{1}{2}$</u>

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1938

THE CLIFFS POWER & LIGHT CO.:

RETAIL SERVICE: 2300 Volts (Cont'd.)

	Brt. fwd.	Phase	No.	K.V.A.	TOTAL K.V.A.
Central Office Lights		1	1	10	290½
" " "		1	1	15	
C.J. Stakel Lights		1	1	7½	
North Lake Club House		1	1	10	
Ishpeming Hospital		1	3 (25)	75	
L.S.&I.Ry. Yard Compressor		1	3 (7½)	22½	
Breitung Pump - Athens Mine		1	3 (7½)	22½	
Gwinn Lighting - Near Depot		1	1	2	
" " - Poplar Alley		1	1	30	
" " - " "		1	2 (15)	30	
" " - Linden "		1	1	10	
" " - Hemlock "		1	2 (10)	20	
" " - Cedar "		1	1	10	
" " - Moffats "		1	1	2	
" School - Power		1	3 (15)	15	
" " - Lights		1	1	10	
Austin Location - "		1	1	10	
Princeton " - "		1	1	10	
" " - "		1	1	5	
District Office - "		1	1	10	
Austin Booster Pump		1	2 (7½)	15	
Kidder Shaft Pump Station		1	2 (37½)	75	
New Substation Control		1	1	15	
Old " Lighting		1	1	1/2	
Gwinn Crushing Plant		1	2 (10)	20	
New Swanzey Lighting		1	1	10	
Wm. F. Martin - Lightg		1	1	2	
Johnson Lake		1	1	3	
Railo Log Landing		1	2 (10)	20	
Noreen Lighting		1	1	1½	
Mehl Lake Camps		1	1	3	
Hirwas Camp		1	1	5	
Winter's "		1	1	3	
Connor's "		1	1	3	
Maitland's Camp		1	1	1½	
Railo-Rytkonen Camp		1	1	5	
Little Lake Lighting		1	1	10	
" " "		1	1	7½	
Palmer Rural		1	2 (15)	30	
" " "		1	2 (5)	10	
" " "		1	2 (3)	6	
" " "		1	7 (1½)	10½	
Sundell Lighting		1	1	5	
" " "		1	1	3	
" Rural		1	15 (1½)	22½	
Rumely Lighting		1	1	5	
" Rural		1	1	2½	
" " "		1	18 (1½)	27	
" " "		1	2 (3)	6	
Eben School		1	1	10	
" Corner		1	1	7½	
" Lighting (Hallstrom)		1	1	5	

676½

Fwd.

967

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1938

Mine Distribution Transformers installed up to December 31st, 1938.

<u>2300/220/110 Volts:</u>	<u>Phase</u>	<u>No.</u>	<u>K.V.A.⁸</u>	<u>TOTAL K.V.A.</u>
<u>CLIFFS SHAFT MINE:</u>				
"A" Shaft Hoists	1	2 (15)	30	
Pump Station Lights	1	1	3	
Crusher House Lights	1	2 (1)	2	
Machine Shop	1	3 (10)	30	
Underground Scrapers	1	5 (50)	250	
" "	1	3 (25)	75	
" "	1	3 (75)	225	
Motor-Generator set for battery charging and 1st. level "A" Scrapers	1	2 (50)	100	
Rectifiers	1	7 (5)	35	
Lights	1	34 (1 $\frac{1}{2}$)	51	
Scraper Lights	1	1	2	
Signal in Engine House	1	1	5	
Scraper Lights	1	1	3	
Top Tram Control	1	1	1	
Laboratory Crusher	1	2 (15)	30	
" "	1	1	75	
Crusher Substation	1	1	15	
" "	1	2 (10)	20	
Top Tram Control	1	1	2	
Garage Lights	1	1	5	
Engine House Lights	1	3 (10)	30	
Shop Lights	1	1	7 $\frac{1}{2}$	
Drill Furnace	1	1	25	
Scraper on Stockpile	1	3 (15)	45	
				1,066 $\frac{1}{2}$
<u>TILDEN MINE:</u>				
Pump	1	1 (7 $\frac{1}{2}$)	7 $\frac{1}{2}$	
"	1	1	10	
Lights & Power	1	2 (5)	10	
Drills	1	3 (15)	45	
Shovel	1	3 (5)	15	
Crusher	1	3 (10)	30	
Shops	1	2 (7 $\frac{1}{2}$)	15	
Scrapers	1	3 (15)	45	
#31 Shovel	3	1	15	
Lights - Pump House	1	1	1/2	
Summit Pit Substation	1	3 (10)	30	
				223
<u>ATHENS MINE:</u>				
Machine Shop	1	2 (10)	20	
Surface Lights & Sab. Hot Plates	1	3 (10)	30	
Pump Station Lights	1	1	5	
" " "	1	1	2	
100 G.P.M. Pump	3	1	40	
Signal System	1	1	1	
Engine House Lights	1	1	5	
" " "	1	1	4	
Top Tram	1	1	2	
" " Control	1	1	1	
U.G. Haulage Converters	1	6 (35)	210	
				320
			Fwd.	1,609 $\frac{1}{2}$

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1938

Mine Distribution Transformers: (Cont'd.)

	Ert. fwd.	Phase	No.	K.V.A.	TOTAL K.V.A. 1,609½
<u>MAAS MINE:</u>					
Lights & Injection Pump		1	3 (10)	30	
Coal Crusher & Shop		1	2 (10)	20	
Signal System		1	1	1/2	
3rd. Level Pump Station		1	2 (5)	10	
Cage Hoist Control		1	1	10	
Skip " "		1	1	2	
" " "		1	1	3	
Heaters in Engine House		1	1	7½	
Top Tram		1	1	2	
Shop		1	1	15	
Layne Surface Pump		1	3 (10)	30	
Crusher & Shaft House		1	2 (10)	20	
" " " "		1	1	15	
5th. Level Pump House Lights		1	2 (3)	6	
Surface Well #2		1	2 (10)	20	
" " "		1	1	15	
					206
<u>MAAS MINE CRUSHING PLANT:</u>					
Lights		1	1	5	
Brake		1	1	1	
					6
<u>NEGAUNEE MINE:</u>					
Shop Light & Power		1	1	10	
" " " "		1	1	7½	
Engine House Lights & Power		1	1	10	
" " " " "		1	1	5	
Signal System		1	1	1/2	
Pump Station Lights, Etc.		1	3 (7½)	22½	
13th. Level Pump		1	3 (5)	15	
Barn		1	1	1	
Hoist Lights - #2 Shaft		1	3 (10)	30	
Underground Haulage		1	1	3	
Crusher & Top Tram Lighting		1	2 (10)	20	
" " " " "		1	1	15	
					139½
<u>LLOYD MINE:</u>					
Cage Hoist Control		1	1	5	
Skip " "		1	1	7½	
Water Supply Pump House Lights		1	1	2	
Engine House Lights & Bell System		1	1	10	
" " " "		1	1	5	
Saw		1	1	5	
Underground Haulage		3	1	100	
" " " - From Wade Mine		1	3 (35)	105	
Office Lights		1	1	10	
Shop Power		1	3 (10)	30	
Crusher & Shaft House Lights		1	2 (10)	20	
" " " " "		1	1	15	
					314½
<u>SECTION 6 SHAFT:</u>					
Hoist Control		1	1	7½	
Lights		1	2 (2)	4	
					11½
				Fwd.	2,287

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1938

Mine Distribution Transformers: (Cont'd.)

Brt. fwd.	<u>Phase</u>	<u>No.</u>	<u>K.V.A.</u>	<u>Total K.V.A.</u>
<u>GARDNER MINE:</u>				
Cage Hoist Control	1	1	<u>10</u>	10
<u>MACKINAW MINE:</u>				
Machine Shop	1	2 (10)	20	
Hoist Control	1	1	10	
5th. Level Lights	1	1	1	
7th. Level Engine House Lights	1	1	1	
Top Tram	1	1	3	
Haulage Converters	1	3 (35)	105	
4th. Level Pump House	1	2 (10)	20	
5th. Level Hoist	1	2 (1)	2	
10th. Level Pump	1	2 (10)	20	
5th. " "	1	3 (10)	<u>30</u>	212
<u>PRINCETON #3:</u>				
Lighting & Bell System	1	1	<u>1½</u>	<u>1½</u>
<u>GRAND TOTAL</u>				<u>2,510½</u>

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1938

Spare Transformers on hand December 31st., 1938.

	<u>Phase</u>	<u>No.</u>	<u>K.V.A.</u>	<u>TOTAL K.V.A.</u>
<u>GENERAL STOREHOUSE & BARN:</u>				
General Electric for 440 V. Shaft Pump	1	1	100	
" " from Republic	1	1	7½	
" "	1	1	25	
" "	1	1	10	
" "	1	1	25	
New General Electric	1	1	7½	
" " "	1	4 (3)	12	
" " "	1	1	1½	
" " "	1	1	25	
" " "	1	3 (5)	15	
Spare at Furnace	1	1	100	
" " Inland Substation	1	1	500	
" " Maas	1	3 (200)	600	
				1,428½
<u>ATHENS MINE:</u>				
Spare	1	1	3	
"	1	1	3	
				6
<u>REPUBLIC MINE:</u>				
General Electric	1	1	4	
				4
<u>PRINCETON MINE ENGINE HOUSE:</u>				
Surface Lighting	1	1	5	
				5
			<u>TOTAL</u>	1,443½

Spies Mine Transformers:

3rd. Level Pump House	1	3 (5)	15	
Skip Pit Pump	1	2 (3)	6	
Surface Lights & Power	1	3 (10)	30	
" "	1	1	4	
Top Tram Shanty	1	1	3	
Virgil Fans	1	3 (10)	30	
Engine House	1	2 (10)	20	
" "	1	1	3	
			<u>TOTAL</u>	111

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1938

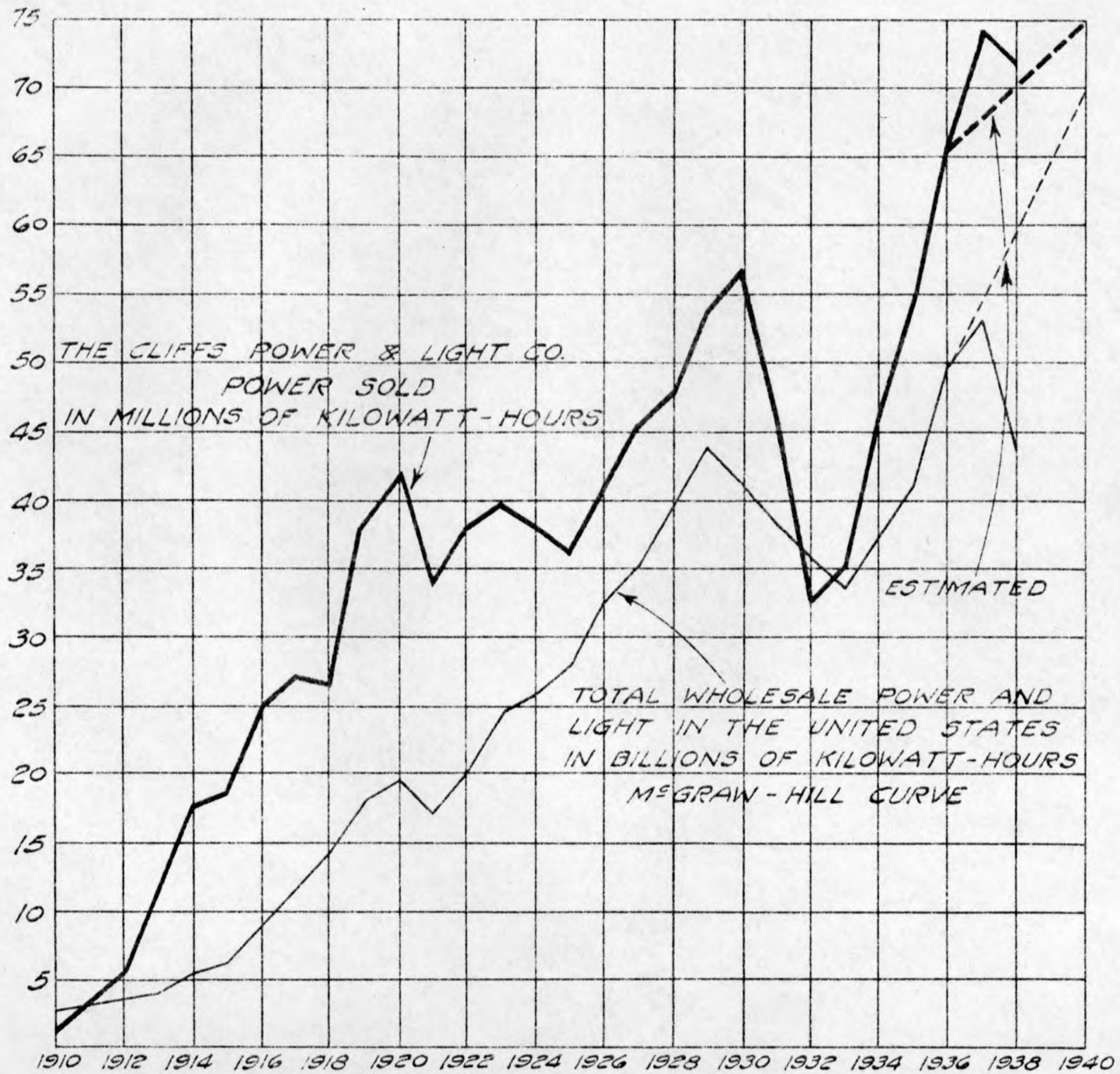
COMPARATIVE TABLES:

<u>YEAR</u>	<u>TONS COAL BURNED</u>	<u>TONS ORE AND ROCK HOISTED</u>	<u>CU. FT. AIR USED</u>	<u>CUBIC FT. AIR PER TON HOISTED</u>	<u>GALLONS OF WATER PUMPED</u>	<u>G.P.M.</u>
<u>CLIFFS SHAFT MINE:</u>						
1929	934	451,334	853,572,500	1,891	461,403,025	
1930	716	444 511	896 693 000	2 017	446 650 100	
1931	560	315 492	592 506 000	1 878	350 061 000	
1932	611	92 125	188 127 000	2 042	369 057 075	
1933	495	61 623	160 033 500	2 596	362 896 379	
1934	373	235 639	394 168 500	1 672	348 670 324	
1935	869	238 053	516 140 000	1 791	366 504 523	692
1936	920	484 310	907 194 600	1 873	389 395 743	739
1937	804	579 759	1,102 635 000	1 901	370 765 799	705
1938	754	352 983	735 452 000	2 083	362 700 824	689
<u>ATHENS MINE:</u>						
1929	767	344,534	1,154,380,000	3,350	117,645,969	
1930	657	384 801	1 160 650 000	2 756	121 785 145	
1931	621	254 660	686 750 000	2 696	136 215 501	
1932	578	77 639	209 925 000	2 703	205 070 447	447
1933	546	49 506	182 235 000	3 075	194 073 179	
1934	672	166 412	334 485 000	2 009	179 244 454	
1935	653	205 863	527 355 000	2 561	154 911 562	292
1936	718	318 604	698 985 700	2 193	134 999 491	255
1937	671	455 512	884 565 000	1 941	134 521 343	257
1938	655	276 800	643 005 000	2 322	165 316 266	313
<u>MAAS MINE:</u>						
1929	577	347,232	1,067,265,000	3,074	554,452,221	
1930	606	443 504	1 374 390 000	3 098	577 702 994	
1931	618	332 206	756 405 000	2 076	585 922 823	
1932	585	97 295	210 825 000	2 166	576 727 573	
1933	662	143 845	367 560 000	2 555	554 157 402	
1934	747	294 372	601 920 000	2 044	550 020 020	
1935	804	370 399	686 520 000	1 853	597 349 626	1,129
1936	950	549 615	897 919 800	1 634	674 397 310	1 279
1937	812	784 328	1 251 710 000	1 595	686 467 622	1 307
1938	748	438 359	742 635 000	1 694	752 268 448	1 429
<u>NEGAUNEE MINE:</u>						
1929	1,410	569 489	1 123 840 000	1 973	648 591 436	
1930	1 254	397 364	1 044 270 000	1 748	556 227 893	
1931	885	346 533	620 641 000	1 791	482 294 599	
1932	1 092	86 650	209 970 000	2 423	477 360 416	
1933	708	65 661	166 050 000	2 528	448 928 213	
1934	819	240 808	437 985 000	1 818	435 724 897	
1935	891	311 446	481 680 000	1 546	485 600 207	918
1936		530 844	737 716 000	1 389	483 287 423	916
1937	851	839 283	1 096 200 000	1 306	562 290 718	976
1938	751	439 588	771 210 000	1 754	534 118 975	1,015

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1938

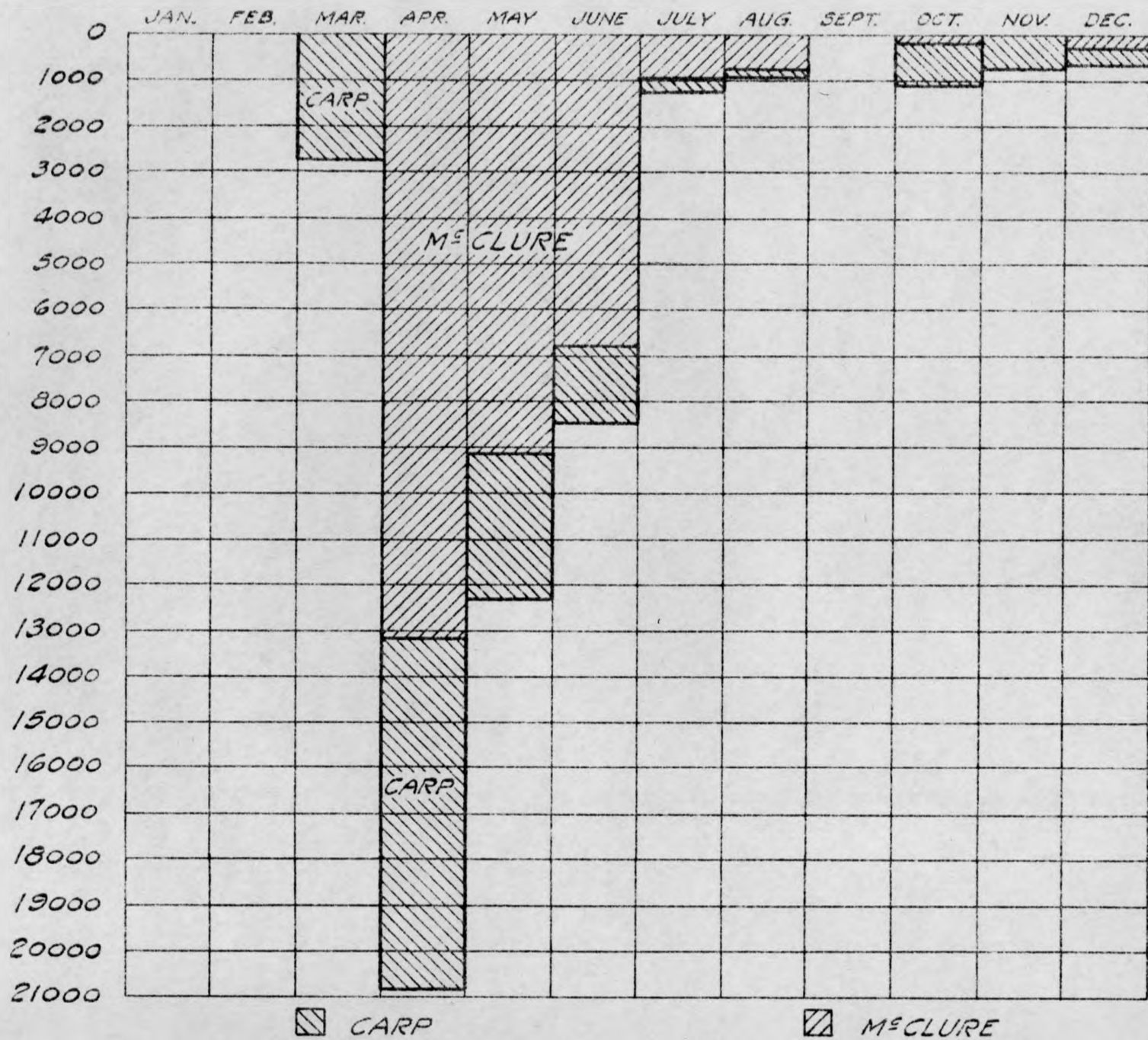
COMPARATIVE TABLES: (Cont'd.)

<u>YEAR</u>	<u>TONS COAL BURNED</u>	<u>TONS ORE AND ROCK HOISTED</u>	<u>CU. FT. AIR USED</u>	<u>CUBIC FT. AIR PER TON HOISTED</u>	<u>GALLONS OF WATER PUMPED</u>	<u>G.P.M.</u>
<u>TILDEN MINE:</u>						
1929	625	441,769				
1930	498	287 043				
1931	244	137 010				
1932	38	19 957				
1933	164	94 194				
1934	325	167 688				
1935	394	190 511				
1936	901	291 341				
1937	790	305 418				
1938	186	85 889				
<u>LLOYD MINE:</u>						
1933	96	4,554				
1934	127	136 951	145,926,000	1,065		
1935	224	248 410	289 426 500	1 165		
1936	413	377 572	383 994 000	1 017		
1937	334	545 274	559 512 000	999		
1938	350	286 864	293 247 000	1 022		
<u>GARDNER-MACKINAW MINE:</u>						
1929	531	119,189	570,635,000	4,703	56,528,157	
1930	316	129 321	621 450 000	4 805	74 833 761	
1931	152	80 801	489 240 000	6 054	172 438 518	
1932	106	24 781	126 495 000	5 122	119 155 845	
1933	40	3 944	49 770 000	12 619	103 051 726	
1934	269	79 187	291 510 000	3 681	82 416 531	
1935	306	138 507	446 625 000	3 224	72 964 993	136
1936	331	185 954	692 415 000	3 723	67 049 662	126
1937	369	172 823	547 515 000	3 168	61 135 735	114
1938		48 824	256 234 500	5 248	44 633 865	90

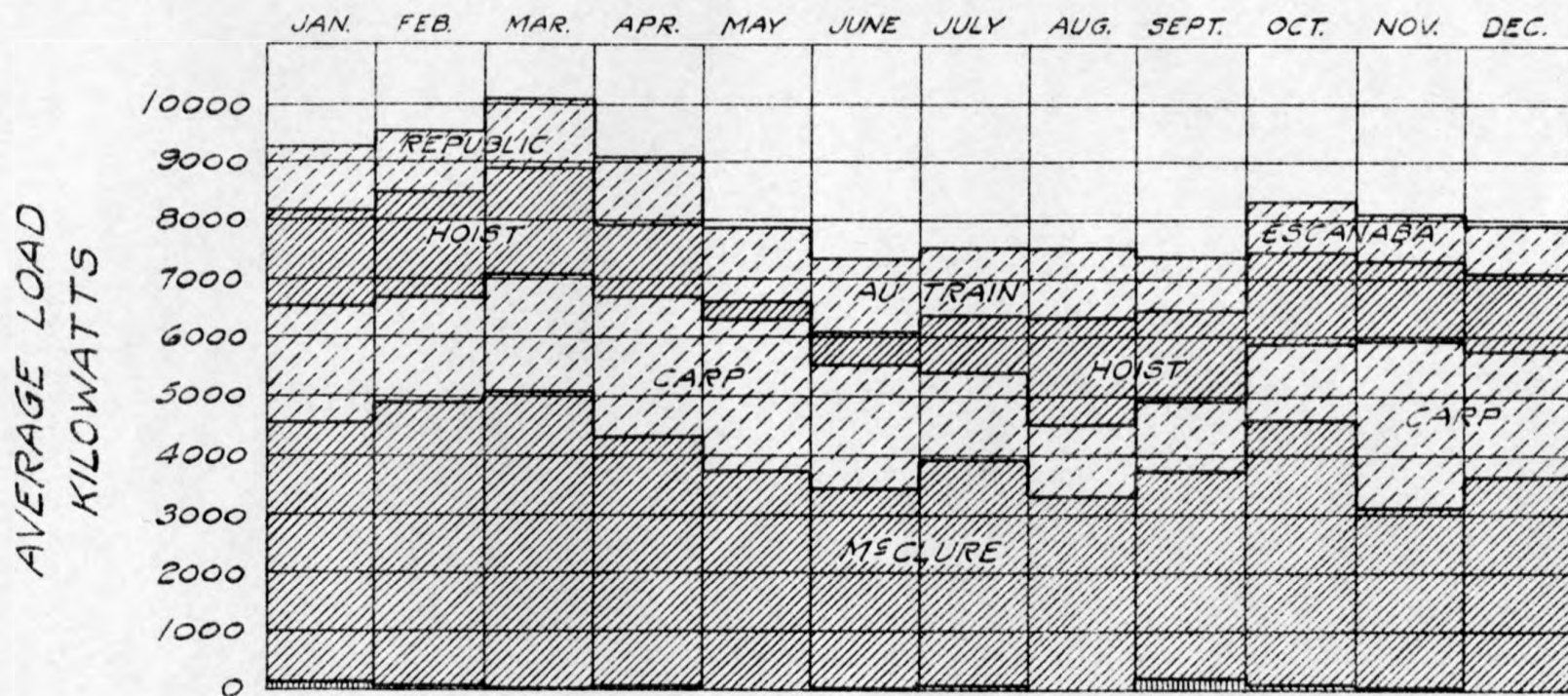




1938

WATER LOST
KILOWATT EQUIVALENT



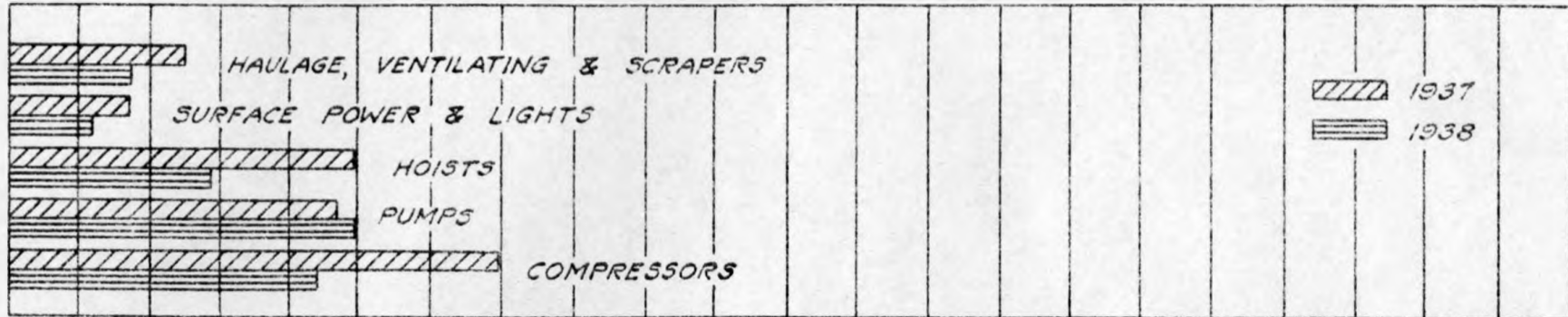
1938



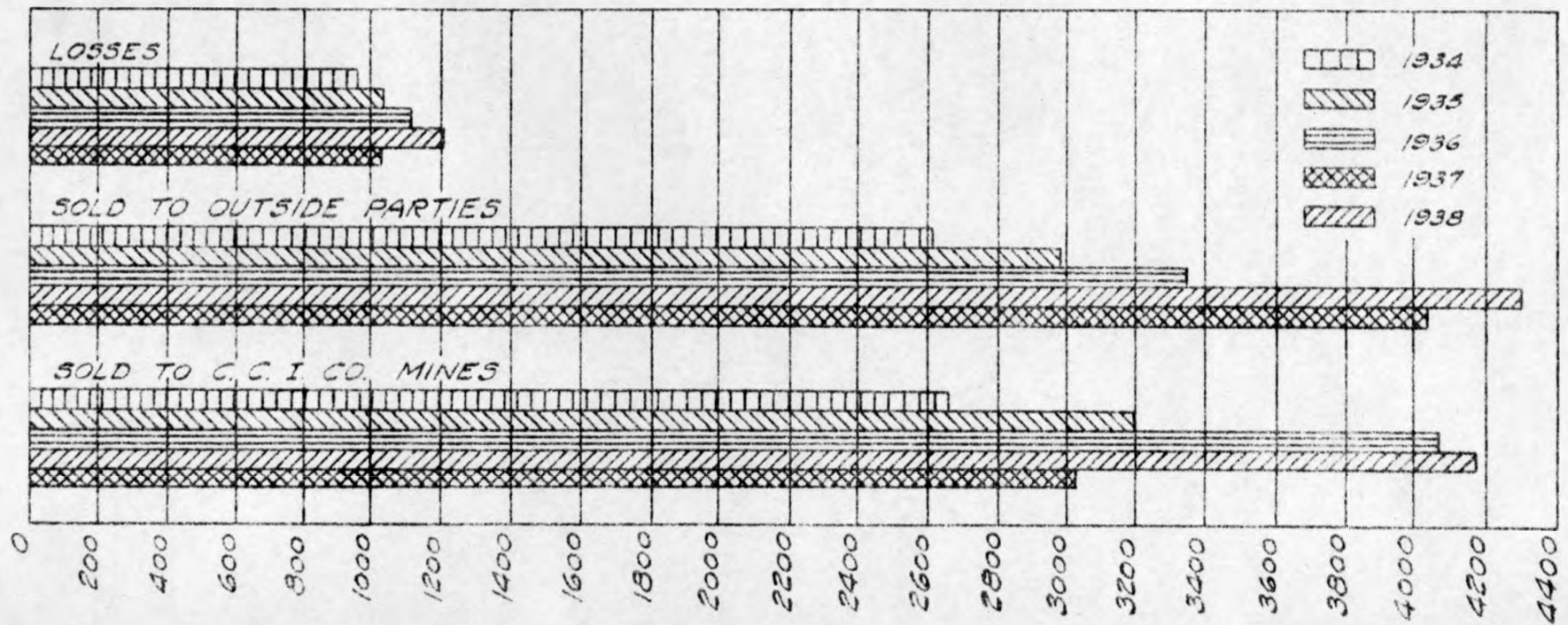
 CURRENT MADE BY WATER POWER
 POWER PURCHASED

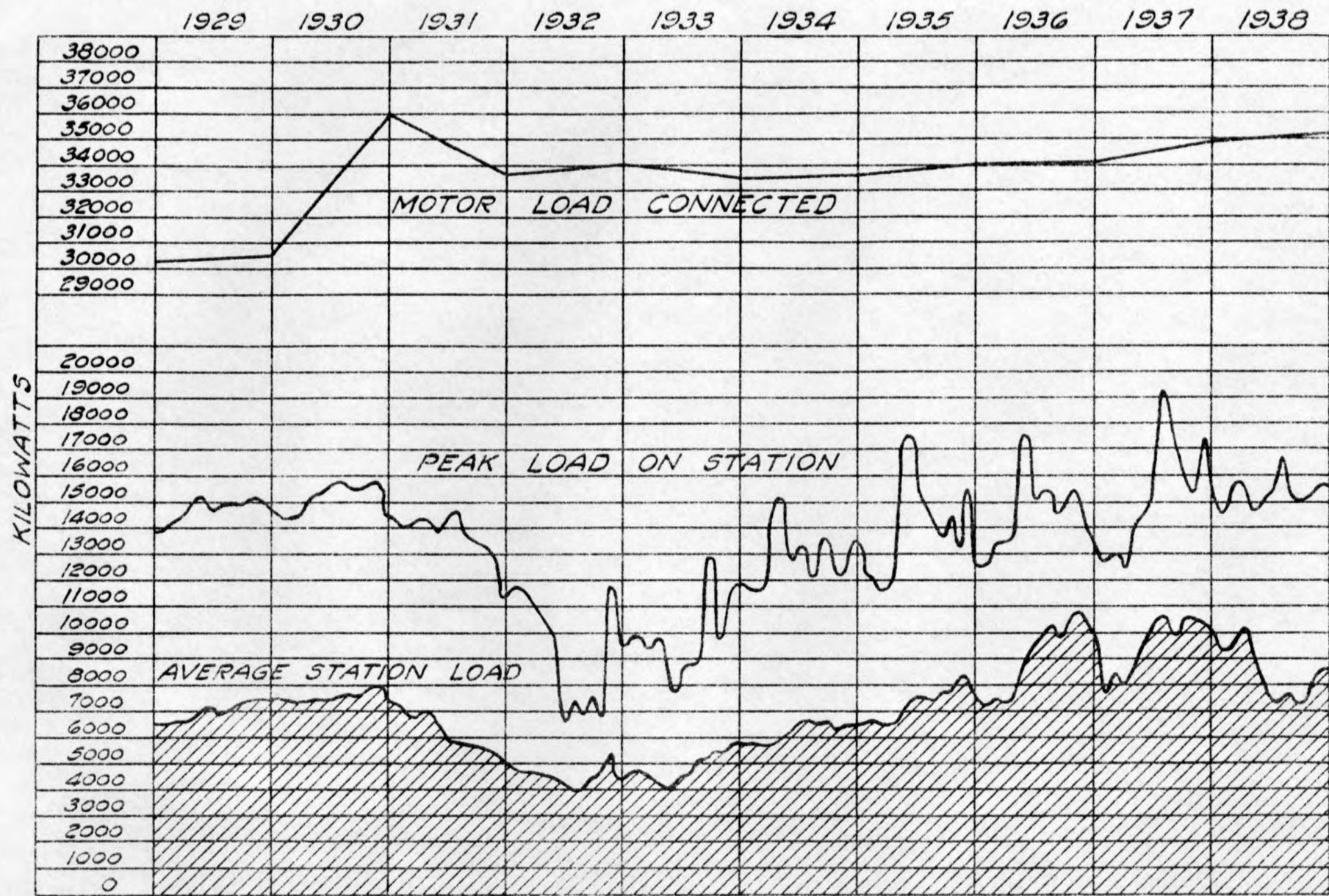
MECLURE	48.4 %
CARP	22.8
HOIST	15.4
AU TRAIN	6.6
ESCANABA	4.6
REPUBLIC	1.6
PURCHASED	0.6

DISTRIBUTION OF ELECTRIC POWER TO C. C. I. CO. MINES 1937 - 1938

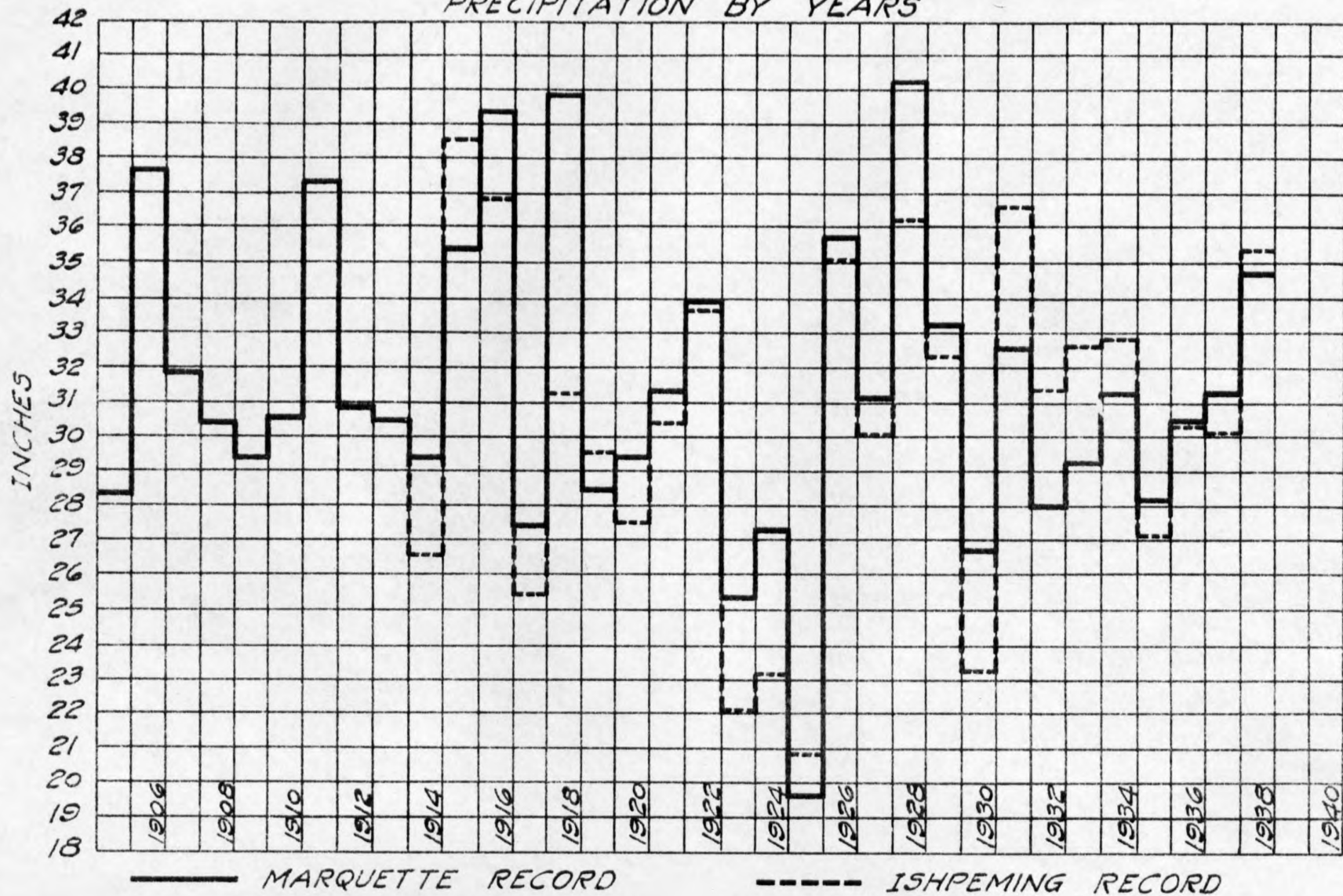


DISTRIBUTION OF ELECTRIC POWER 1934 1935 1936 1937 1938





PRECIPITATION BY YEARS



WELFARE DEPT. ANNUAL REPORT YEAR 1938.

The name of the department was changed during the year from the Pension Department to the Welfare Department. The usual work carried on by this department was continued throughout the year and matters pertaining to the general welfare of employees, workmen's compensation, group insurance, pensions, donations, special relief, and all other services which usually are carried on in a welfare department.

Mr. Moulton, who acted as Secretary of the Pension Department for over thirty years, retired on July 1, 1938. Mr. Moulton has been called upon at various times in certain cases and he has always shown an eagerness to cooperate and help. It is our desire to keep in touch with Mr. Moulton on any matters in which he may be helpful.

The department is now known as the Welfare Department and my title is that of Superintendent. Under the Pension Department, Mr. Moulton carried the title of Secretary. This is mentioned in this report so that the change may be made a matter of record.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

11.
a. WORKMEN'S COMPENSATION

The direct work of the Compensation Department has been taken care of by Mr. Walter E. Johnson, as has been the plan since 1926.

During 1936 and 1937 the Michigan Department of Labor and Industry made several changes in the final settlement receipt used in all compensation cases. These receipts all definitely warned an injured person that it should not be signed unless he had fully recovered from all disability as a result of an accident. This made the closing of cases difficult and apparently some objection was raised throughout the State, for in February of 1938 a new settlement receipt was furnished by the Department which contained none of the above-mentioned objectionable language. In addition to giving the date of the accident and a resume of the payments that were made, it carries the statement that compensation is stopped as of a certain date for one of the following reasons only:

- (1) "I have fully recovered from the effects of the accident."
- (2) "I have returned to work at a certain wage per week."

Before a settlement receipt is binding, it must be approved by the Department of Labor and Industry, and it is noted on this new settlement receipt that if an employee has returned to work, the approval will be granted only for reason no. 2. During the early months following the adoption of this receipt, in those cases in which a man decided he would not return to work for us but would get work elsewhere, it was only necessary to cross out reason no. 2, and they would approve it on the basis that he had fully recovered from the effects of the accident. However, during the later months of 1938 a new ruling on this point provides that if a man has fully recovered and prefers not to return to our employ, it is necessary that both he and his attending physician file affidavits to the effect that the injured employee has fully recovered before the case can be closed.

Following are the cases of two men requiring some special attention during the year:

WILLIAM HENDRICKSON - Spies-Virgil Mine - Acc. Rept. No. 142A

At a hearing held on December 10, 1937 the date of Hendrickson's accident was definitely set at sometime during the first half of May 1930, and at that time Ray Derham, attorney for the plaintiff, called but one witness, Eric Kempainen, who had worked as Hendrickson's partner at the time of the alleged injury. At that hearing Derham did not complete his case but intimated that he would take the depositions of several witnesses at a later date. On June 21, 1938 we made a trip to Iron Mountain for the purpose of taking some of these depositions, but the witnesses did not show up, so it was necessary to go to Iron Mountain a second time on July 9, 1938. At that time the depositions of Hendrickson's brother, a daughter, and a son-in-law were taken. Following the taking of these depositions Mr. Derham said that he wanted to take the depositions of two Detroit physicians and when these were taken his case would be complete. The case was set for hearing before the depositions of the physicians were taken, and Mr. Derham suggested that we go ahead and present our case and these depositions could be taken later, but, naturally, we did not do this and refused to put in any of our testimony until his case had been

11.
a. WORKMEN'S COMPENSATION (Continued)

William Hendrickson (Continued)

completed. The next hearing was held on November 18, 1938 at Crystal Falls, at which time Mr. Derham entered the depositions of his Detroit physicians, and we put in our case. The Deputy Commissioner has ruled in our favor, but Mr. Derham has taken an appeal to the full board and the case will be argued before them sometime in the early part of 1939.

JOHN MANNIKKO - Lloyd Mine

John Mannikko was employed as a miner at the Lloyd Mine. On September 9, 1937 he climbed a short ladder to remove the scraper head-block. He had reached up and flipped the block off the hook when he felt a sharp pain in his chest. He coughed considerably and did not do any further work for the remaining two hours of the shift. When he came off shift in the morning, he consulted one of our doctors, and an x-ray revealed that he had a collapsed right lung. There was no history of an accident in this case as there was no unusual circumstance, such as slipping or stumbling, nor was he struck by anything, so Mannikko was paid Group Insurance until he recovered and was able to return to work. On March 12, 1938 while he was walking from the shaft to the dry-house, the lung again collapsed and Mannikko has not worked since that date.

The Saranac report on the x-rays in this case reveal emphysematous blebs on the lung, and apparently one of these blebs, or bubbles, let go causing the collapse of the lung. The x-ray also revealed an old fractured rib and upon investigation we found that he had incurred an injury in 1914 while working for another company, and at that time the lung had been ruptured, he had a ruptured pleura and a general emphysema.

Mannikko has now made a claim for compensation through an attorney and has stated in his claim that while standing on a ladder attempting to unhook a pulley, the ladder shifted straining his chest and back. The case was set for hearing on October 10 and December 27, 1938 but was continued on both occasions at the request of his attorney.

11.
a. Workmen's Compensation (Continued)

FATALITIES:

The following fatalities occurred in 1938.

<p><u>Richard S. Cain</u> Age 54</p>	<p>Cliffs-Shaft Mine, Acc. Rept. #1093 Occurred May 9, 1938 Chunk fell, crushing abdomen Widow Compensation at \$18.00 per week for 300 weeks. Funeral expense</p>	<p>\$5400.00 <u>200.00</u> \$5600.00</p>
<p><u>William T. Ninnis, Jr.</u> Age 29</p>	<p>Cliffs-Shaft Mine, Acc. Rept. #1097 Occurred December 23, 1938 Crushed between tram car and side of drift. Widow and one minor child. Compensation at \$18.00 per week for 300 weeks. Funeral expense</p>	<p>\$5400.00 <u>200.00</u> \$5600.00</p>
<p><u>Vaino L. Etalamaki</u> Age 24</p>	<p>Athens Mine, Acc. Rept. #357 Occurred November 21, 1938 Electrocuted Widow Compensation at \$18.00 per week for 300 weeks Funeral expense</p>	<p>\$5400.00 <u>200.00</u> \$5600.00</p>

WELFARE DEPT. ANNUAL REPORT YEAR 1938

11.

a. WORKMEN'S COMPENSATION (Continued)

Following is a list of the more serious cases occurring during 1938 other than fatalities:

<u>Mine and Report No.</u>	<u>Name</u>	<u>Nature of Injury</u>	<u>Compensation Paid</u>
Athens #352	Reino E. Peura	Contusions, both legs & ankles. Fracture, both bones, left leg.	720.00 *
Cliffs-Shaft #1090	Ernest Harris	Compound fracture, distal phalanx, left thumb. Almost severed.	828.00 *
Cliffs-Shaft #1092	Philip Collins	Dislocation, left shoulder. Frag- ment torn from head of humerus.	648.00 *
Maas #517	Ferdinand Leinonen	Fractured ribs, left. Ruptured rt. kidney. Compound fracture, left leg Fracture, 3 vertebrae. Probably a total disability case.	540.00 *
Maas #520	Frederick Johns	Sprained left knee. Bone fragment pulled loose from head of tibia.	360.00 *
Negaunee #628	Arvo Maki	Fracture of left femur 5 inches above knee.	882.00 *
Negaunee #629	John Eskola	Fracture of right tibia.	612.00
Negaunee #631	Thomas Pascoe	Comminuted fracture of rt. leg.	552.00
Negaunee #633	Walter Lampshire	Fracture of rt. tibia and left fibula.	420.00
Canisteo #30	Helmer R. Kallevig	Comminuted fracture, rt. tibia and rt. fibula.	232.32 *

* Payments still being made.

11. a. WORKMEN'S COMPENSATION (Continued)

Compensation Payments including Medical Expense.

Year	C. C. I. Co.	Negaunee Mine Co.	Athens Ir. Mng. Co.	Cliffs Pr. & Light Co.	Mesaba Cl. Mng. Co.	Holman Cl. Mng. Co.	Canisteeo Cl. Mng. Co.	Alexandria Mine	TOTAL
1912	1073.81	105.08							1178.89
1913	13149.70	1152.87	27.15						14329.72
1914	27416.82	2840.13	446.63						30702.58
1915	15657.71	1699.28	656.07						18013.06
1916	32404.74	3496.75	672.29						36573.78
1917	45129.92	5301.30	911.46						51342.68
1918	43734.77	6198.93	1197.57						51131.27
1919	59417.51	11724.68	2234.77		263.00				73639.96
1920	59535.76	8888.01	2928.15		3057.46				74409.38
1921	59065.26	4709.80	5208.92		2953.08				71937.06
1922	56794.35	5283.24	2048.23		1866.67				65992.49
1923	57856.37	4142.00	5007.88		4874.48				71880.73
1924	56335.89	5487.07	6394.01		9408.59				77625.56
1925	49376.47	4464.79	8305.60		7316.55				69463.41
1926	51123.41	5433.85	7087.93	514.40	9537.84				73697.43
1927	86156.10	5311.69	5489.81	939.86	7147.98				105045.44
1928	87186.58	6532.66	6235.08	1331.30	4576.56	9.00			106371.18
1929	76959.01	8899.76	6303.92	1895.50	3557.86	292.83	4.50		97913.38
1930	76753.51	10603.63	5803.45	1930.48	2531.15	1236.18	1357.05	1993.76	102209.24
1931	75167.79	10723.30	5233.65	1867.50	1489.36	559.63	1346.64	1700.87	98088.74
1932	52920.75	12137.00	5012.72	1398.25	1336.00	33.75	65.50	1074.00	73972.97
1933	23425.69	9605.70	5298.56	993.45	2180.61			614.00	42128.01
1934	26672.34	7573.97	8429.38	468.46	2468.61				45612.76
1935	34874.17	6854.34	5154.12	218.75	3778.56				50879.94
1936	31597.79	7139.26	4588.74	438.50	3514.63				47278.92
1937	32509.48	8695.66	7235.96	615.72	3647.16				52703.98
1938	35644.38	11236.47	6174.30	526.75	3465.08				57046.98
Totals \$	1267950.08	176241.25	114086.35	13638.92	78971.23	2131.39	2768.69	5382.63	1661170.54

WELFARE DEPT. ANNUAL REPORT YEAR 1938

11.
a. WORKMEN'S COMPENSATION (Continued)

ANNUAL STATEMENT OF COMPENSATION PAYMENTS
FROM JANUARY 1st, 1938 to DECEMBER 31st, 1938

Compensation paid on 1938 accidents	\$	11235.89
Compensation still pending		62116.82
Cost of medical and hospital service		17063.48
Total		<u>\$90416.19</u>
Less pending for years 1929 to 1937 inclusive		40413.18
Less medical paid on accidents occurring prior to January 1, 1938		<u>1178.78</u>
		<u>41591.96</u>
Cost of 1938 accidents		\$48824.23
Percentage of payrolls		.01625
Number of compensable accidents		48
Number of non-compensable accidents		-
Number of slight accidents		351

The above figures, and those on the large compensation sheet, cover only those accidents on which we carry our own risk.

Our experience under the insurance plan for Michigan properties is shown on another statement.

ANNUAL REPORT - 1938
 STATEMENT OF COMPENSATION PAYMENTS FROM
 JANUARY 1, 1936 TO DECEMBER 31, 1938

	Average No. of Employees	No. of Fatal Accs.	No. of Non-fatal Accidents		Actual Comp. Paid in 1 9 3 8	1 9 2 7	1 9 2 8	1 9 2 9	1 9 3 0	1 9 3 1	1 9 3 2	1 9 3 3	1 9 3 4	1 9 3 5	1 9 3 6	1 9 3 7	1 9 3 8	Estimated Compensation Still Pending	Medical & Special Expense	Fatal Cases Pending	Injury Cases Pending			
Cliffs-Shaft	397	2	9	58	9200.79	607.50							1809.60	1872.00	936.00	1136.69	2837.00	24686.27	2362.75	6	6			
Cliffs-Shaft Laboratory	10																	60.00						
Chief of Police	1																	6.00						
District Welfare	4																	24.00						
Employes Wood, Winn District					624.00					624.00								2076.00			1			
Gardner-Mackinaw	74		2	14	255.31										117.31	136.00		302.08	498.50		2			
General Storehouse	127			12															759.50					
General Welfare	4																		13.50					
Geological Department	3																		18.75					
Winn Office	1																		3.00					
Holmes					904.80				904.80									800.40			1			
Ishpeming Hospital	56			2															122.75					
Ishpeming Office	21																		1478.63					
Lloyd	232		5	30	5196.12			1404.00										936.51	2204.61	651.00	4658.00	122.75	6	
Maas	427		12	75	5785.16					936.00				414.00			2062.16	2873.00	5612.16	3347.27		7		
Mechanical Engineering	3																		17.75					
Mining Engineering	8																		50.00					
Miscellaneous	6																		47.25					
Purchasing Department	4																		22.50					
Safety Department	1																		6.50					
Shipping Department	5																		32.00					
Spies-Virgil	75		1	4	954.00														162.00		1			
Tilden	23			3	936.00								936.00						1260.00	199.50		1		
Uncompleted Const. E & A #689					936.00													936.00	114.00		1			
Uncompleted Const. E & A #727	2				36.00														25.00					
Workmen's Compensation					780.90														25.00					
Chemical Plant						302.40						478.40							1913.60			1		
Cleveland Roll	12																		48.00					
The Cliffs Power & Light Company	84			2															526.75					
The Negaunee Mine Company	376		10	68	8888.97			1872.00	994.24	245.00			915.20						1274.96	3689.57	9126.80	2347.50	1	9
The Athens Iron Mining Company	327	1	5	45	3914.47		3.20	936.00					116.48						1379.79	1379.00	8095.44	2359.83	1	5
Total - Michigan Mines	2295	3	44	313	38312.42	607.50	305.60	2808.00	3303.04	1179.00	624.00	478.40	3777.28	1872.00	3222.51	9131.52	11003.57	56528.75	15269.48	8	41			
Hibbing Office	19			1															116.50					
Holman-Brown	7																		41.50					
Ganister	217		1	34	1003.92									468.00	303.60			232.32	1843.52	1321.00	1	1		
Hill-Trumbull	52			3	567.16				667.16										1744.75	315.00				
Total - Minnesota Mines	295	0	1	38	1671.08				667.16					468.00	303.60			3688.07	1794.00	2	1			
Total - All Mines	2590	3	45	351	39983.50	607.50	305.60	2808.00	3970.20	1179.00	624.00	478.40	3777.28	1872.00	3690.51	9435.12	11235.89	62116.82	17063.48	10	42			

This statement covers only those accidents on which we carried our own risk

WELFARE DEPT. ANNUAL REPORT YEAR 1938

11.

a. WORKMEN'S COMPENSATION (Continued)

For the purpose of reference, mention is made here of the agreement with the Fidelity and Casualty Company of New York to carry the compensation risk of the Company from May 17, 1933 to May 16, 1934. The insurance company wrote the compensation payments and our own Company assumed the medical expense, the payment of 50¢ per man per month being made at the different properties.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

11.
a. WORKMEN'S COMPENSATION (Continued)

The compensation risk at the different mining properties was carried by the Fidelity and Casualty Company of New York from May 17, 1933 to May 16, 1934, inclusive.

The following statement shows the payments made to date, payments having been made during the year 1938 to the total amount of \$ 4570.90. There is also shown the estimated deferred liability as of December 31, 1938.

	<u>C.C.I. Co.</u>	<u>C.P.&L. Co.</u>	<u>Negaunee Mine Co.</u>	<u>Athens Iron Mining Co.</u>	<u>Total</u>
Premium earned	9197.47	664.87	1564.67	1338.09	12765.10
Medical Expense	4014.43	164.30	814.99	727.16	5720.88
Cost to Company	13211.90	829.17	2379.66	2065.25	18485.98
Compensation paid by The Fidelity & Casualty Co.					
1933	973.60		89.88		1063.48
1934	3479.60	811.52	386.68	24.01	4701.81
1935	2034.00	757.12			2791.12
1936	1750.05	757.12			2507.17
1937	2092.40	757.12			2849.52
1938	3813.78	757.12			4570.90
Total compensation payments	14143.43	3840.00	476.56	24.01	18484.00
Estimated deferred liability	214.58	728.00			942.58
Cost of Accidents	14358.01	4568.00	476.56	24.01	19426.58
Premium earned as above					<u>12765.10</u>
Estimated loss to Insurance Company					6661.48

Payments in the following cases were completed by the Fidelity & Casualty Company during 1938.

Leo Field - Fatally injured at the Maas Mine on October 27, 1933. The widow remarried about a year after the accident and compensation payments were being made to a guardian of the two minor children appointed by the Probate Court of Marquette County, Michigan. During the year the guardian petitioned for the balance of compensation for the completion of a home which they were building, the balance to be rendered in a lump sum. The Department of Labor & Industry authorized the petition on August 24, 1938, the money to be expended under the direction of the Probate Court.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

11. WORKMEN'S COMPENSATION (Continued)

Payments completed by the Fidelity & Casualty Company during 1938 (Continued)

Sidney Wales suffered a back injury at the Spies-Virgil Mine on June 22, 1933 when he fell from a railroad car while taking samples, falling about 12 feet and landing on his buttocks. He was paid total compensation at \$11.60 per week until December 20, 1935, when his compensation was reduced to \$5.80 per week for partial disability. Payments continued at the latter rate until July 1938 when Wales petitioned for additional compensation, and a hearing was set for September 2, 1938. At this hearing The Fidelity & Casualty Company filed a petition to redeem liability in a lump sum and on September 2, 1938 the Department of Labor & Industry granted the petition awarding Wales \$2,000.00 as a final settlement of his case.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

11.

a. WORKMEN'S COMPENSATION (Continued)

The following table shows the percentage of compensation costs since the law went into effect, the percentage of non-fatal accidents on which compensation payments were made, and the percentage of the cases in which compensation payments were made of the total number of men employed. These figures cover only our own risk.

	<u>Percentage of Payroll</u>	<u>Percentage of Compensable Accidents</u>	<u>Percentage of Men Paid Compensation</u>
1912 (4 months)	.00648		
1913	.01104	42.88	8.06
1914	.0160	42.49	6.51
1915	.01095	36.26	6.63
1916	.01903	43.76	8.29
1917	.01268	41.71	7.84
1918	.01214	37.61	5.73
1919	.00901	48.71	8.15
1920	.0079	60.56	10.52
1921	.01444	64.53	9.79
1922	.01570	68.49	10.22
1923	.01590	61.67	10.23
1924	.01885	66.59	10.15
1925	.01613	69.61	10.19
1926	.07641	66.75	10.73
1927	.01356	68.24	6.55
1928	.01357	69.92	4.27
1929	.01616	74.12	3.02
1930	.01254	78.20	2.33
1931	.01697	89.28	1.11
1932	.01503	100.00	.71
1933 to 5/17/33	.01479	90.00	.60
1934 after 5/17/34	.02214	93.75	.90
1935	.01675	95.12	2.11
1936	.01161	88.01	1.74
1937	.00817	88.23	2.17
1938	.01625	100.00	1.85

WELFARE DEPT. ANNUAL REPORT YEAR 1938

11.

a. WORKMEN'S COMPENSATION (Continued)

There were no changes during the year in the matter of our Michigan Compensation Department. The personnel of the Department is as follows:

George A. Krogstad, Chairman
 Besse M. Garner
 Lionel Heap
 John F. Cassin
 Walter A. Kirkby
 Joseph Ashmore, Secretary
 John L. Boer, Asst. Secretary

Michael J. DeFant of Negaunee served as Deputy Commissioner for this District throughout the year.

The following table shows the principal items of the changes made at different periods as affecting our properties.

	When Law went into effect	As amended in effect	In effect	In effect
<u>MICHIGAN LAW</u>	<u>Sept. 1, 1912</u>	<u>Aug.14,1919</u>	<u>Aug.18,1921</u>	<u>Sept.4,1927</u>
Percentage of weekly wages	50	60	60	66 2/3
Maximum weekly compensation	10.00	14.00	14.00	18.00
Minimum weekly compensation	4.00	7.00	7.00	7.00
Waiting period	2 weeks	1 week	1 week	1 week
Waiting period picked up at end of	8 weeks	6 weeks	6 weeks	6 weeks
Maximum payment for death	3000.00	4200.00	4200.00	5400.00
Maximum compensation for total disability	4000.00	6000.00	7000.00	9000.00

The Occupational Disease law became effective on October 29, 1937. No claims have been filed under this section to date.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

11.
a. WORKMEN'S COMPENSATION (Continued)

MINNESOTA COMPENSATION LAW

There were no changes made in the Minnesota Law in 1938.

The present members of the commission are as follows:

J. D. Williams,	Chairman
F. T. Starkey	
N. H. Debel	
E. D. McKinnon,	Secretary
Emily L. Olson,	Asst. Secretary

The following table shows the principal items of the changes made at different periods as affecting our properties:

<u>MINNESOTA LAW</u>	When Law went into effect Oct. 1, 1913	As Amended April 26, 19 19	As Amended June 6, 19 21	In effect since Oct. 1, 19 23
Percentage of weekly wage	50	66 $\frac{2}{3}$	66 $\frac{2}{3}$	66 $\frac{2}{3}$
Maximum weekly compensation	10.00	15.00	18.00	20.00
Minimum weekly compensation	6.00	6.50	8.00	8.00
Waiting period	2 weeks	1 week	1 week	1 week
Waiting period picked up at end of	- -	- -	4 weeks	4 weeks
Maximum death payment	3000.00	4500.00	7500.00	7500.00
Maximum compensation for total disability	4000.00	5000.00	10000.00	10000.00

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

- 11.
- b. BENEFIT FUNDS.

The funds, generally known and referred to as Benefit Funds, were wiped out during the year 1927 and a complete record is shown in the annual report of that year. During 1938 a study of these funds has been started and at the present time the study is still being carried on. This work is being carried on under the direction of a special group of people and this department is cooperating when called upon.

Reference is made in this report to the Benefit Funds and the action taken in 1927 so that there may be a statement on record and the report readily located should occasion require a check or a study of the funds.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

11.

c. GROUP INSURANCE

The Group Insurance plan, which became effective on October 1, 1936 at all of our properties, has proved most satisfactory in every way and the people as well as the Company are very much benefitted by it.

The following statement shows the total cost for the policy year ending September 30, 1938. It includes all cases in which disability began prior to September 30, 1938.

	<u>Death Claims</u>		<u>Health & Accident</u>		<u>Total</u>	
	<u>No. of Cases</u>	<u>Amount Paid</u>	<u>No. of Cases</u>	<u>Amount Paid</u>	<u>No. of Cases</u>	<u>Amount Paid</u>
Cliffs-Shaft	3	4125.00	48	3479.13	51	7604.13
Gardner-Mackinaw	1	1000.00	19	1030.86	20	2030.86
General Roll	1	1250.00	18	1280.57	18	2530.57
General Storehouse & Shops	2	3125.00	10	936.57	11	4061.57
Ishpeming Hospital	1	1250.00	17	1320.68	17	2570.68
Lloyd			35	2715.72	35	2715.72
Maas	1	1250.00	55	3181.99	56	4431.99
Spies-Virgil			4	253.71	4	253.71
Tilden			3	368.57	3	368.57
Total C. C. I. Co.	9	12000.00	209	14567.80	215	26567.80
The Negaunee Mine Company	1	1875.00	53	3473.70	53	5348.70
The Athens Iron Mining Co.	2	2750.00	53	4069.72	55	6819.72
The C. P. & L. Co.			3	240.86	3	240.86
Total All Companies	12	16625.00	318	22352.08	326	38977.08

Four of the twelve death claims shown above were paid disability benefits in addition to the death benefit which accounts for the discrepancy in the total number of cases shown.

Insurance benefits were paid in 54 cases of non-occupational accidents, one of which was a fatality.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

11.
c. GROUP INSURANCE (Continued)

The direct work in connection with claims under the Group Insurance Plan has been taken care of by Mr. Walter E. Johnson since the adoption of the plan on October 1, 1936. Every effort has been made to facilitate the prompt payment of claims. Frequent contacts are made with the men drawing benefits, and we find their attitude toward the plan exceedingly favorable.

The increase of 25% in Life Insurance, which became effective on December 20, 1937, remained in force throughout the year. A copy of the notice which was given to each employee at the time the increase was announced will be found in the annual report for the year 1937. This notice shows the amount of increase for each class of insurance, also the monthly premium, and the weekly benefit for sickness and accident.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

11. GROUP INSURANCE (Continued)

The following deaths occurred during the policy year ending September 30, 1938.

	<u>Mine</u>	<u>Date of Death</u>	<u>Amount of Insurance</u>
Kalle Rintala	Athens	10-26-37	\$ 1500.00
Consta Johnson	"	4-12-38	1250.00
William J. Thomas, Sr.	Cliffs-Shaft	10-17-37	1000.00
Carl Ernest Norell	" "	3-7-38	1875.00
Richard S. Cain	" "	5-9-38	1250.00
Fred Berry	Gardner-Mackinaw	11-27-37	1000.00
John Salson	General Roll	1-14-38	1250.00
Adolph G. Gellein	General Storehouse	9-3-38	1875.00
George H. Harris	" "	10-10-38	1250.00
Jacob Harvala	Hospital	4-13-38	1250.00
George Cox	Maas	9-8-38	1250.00
Gust Maki	Negaunee	2-12-38	1875.00

Two of the above deaths were accidental. William J. Thomas, Sr. was run over by a train at one of the down-town crossings in Ishpeming. Richard S. Cain was fatally injured at the Cliffs-Shaft Mine.

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

23.

a. PENSION SYSTEM.

The pension system which went into effect on January 1, 1909 completed the thirtieth year of its operation in 1938.

No changes in the rates of pensions were made during the year 1938. On January 1st, 1933 the pension payments were reduced 50%, those under \$20.00 remaining the same; those over \$20.00 having a minimum rate of \$20.00.

No new pensions were granted during the year 1938.

The following Mining Department pensioners passed away during 1938:

<u>No.</u>	<u>Name</u>	<u>Date Pensioned</u>	<u>Date Died</u>
117	Peter Bloken	5- 1-21	4- 9-38
145	William Asikainen	6- 1-21	2-13-38
164	Consta Paavala	1- 1-24	6-18-38
169	Jacob Christiansen	4- 1-24	3- 4-38
189	Paul Ritchie	11- 1-25	3-13-38
217	William Jory	11- 1-27	8-14-38

	<u>1937</u>	<u>1938</u>
Number of pensions granted during the year	0	0
Number of deaths	7	6
Number of Old Age pensions in force Dec. 31	69	63
Average annual pension	\$ 284.71	\$ 291.43

There was one death in the Furnace Department pension roll during the year 1938. This pensioner was James Hannigan, pension #12. Mr. Hannigan was pensioned on October 1, 1925 and he died in March of 1938.

On December 31, 1938 there were five pensioners on the Furnace Department pension roll and the average annual pension of this group was \$289.38.

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

23.

a. PENSION SYSTEM (Continued)Republic Mine.

During the year 1938 no new names were added to the pension roll.

There were seven pensioners remaining on the roll at the close of the year 1938.

The average annual pension for the year 1937 was \$291.19. The average annual pension for the year 1938 amounted to \$289.55.

The payments made from October 1, 1920 to December 31, 1938, follow:

1920	\$ 278.61
1921	3427.97
1922	5672.84
1923	6641.51
1924	8172.96
1925	8379.08
1926	9539.90
1927	12185.24
1928	12768.21
1929	14199.74
1930	13148.40
1931	11809.51
1932	7673.30
1933	4908.04
1934	4400.52
1935	4160.52
1936	4031.36
1937	2853.58
1938	<u>2028.88</u>

\$136280.17

One death occurred among the Republic Mine pensioners during the year 1938. This was John Anderson, pension number 2, who died on August 13, 1938. Mr. Anderson was pensioned on October 1, 1920

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

23.

a. PENSION SYSTEM (Continued)

Pension payments for the year 1908 to 1938, inclusive, are as follows:

Mining Department.

<u>Year</u>	<u>Old Age</u>	<u>Widows and Orphans</u>	<u>Total</u>
1908	\$ 69.10	\$ 48.00	\$ 117.10
1909	351.92	464.00	815.92
1910	896.44	1043.00	1939.44
1911	1690.37	2649.00	4339.37
1912	3865.95	3113.00	6978.95
1913	5133.62	3025.00	8158.62
1914	6179.57	3403.00	9582.57
1915	7910.35	2372.00	10282.35
1916	8787.02	1694.00	10481.02
1917	9327.22	1266.00	10593.22
1918	8889.14	944.00	9833.14
1919	9605.02	888.00	10493.02
1920	12613.29	814.00	13427.29
1921	21856.64	14.00	21870.64
1922	29063.85	168.00	29231.85
1923	29564.57	168.00	29732.57
1924	31987.64	168.00	32155.64
1925	34926.34	163.00	35089.34
1926	38924.88	143.00	39067.88
1927	45841.03	0.00	45841.03
1928	51869.03	0.00	51869.03
1929	52701.19	0.00	52701.19
1930	53779.24	0.00	53779.24
1931	56379.39	0.00	56379.39
1932	40615.13	0.00	40615.13
1933	30981.29	0.00	30981.29
1934	28205.25	0.00	28205.25
1935	24987.66	0.00	24987.66
1936	22736.32	0.00	22736.32
1937	20393.66	0.00	20393.66
1938	<u>18360.44</u>	<u>0.00</u>	<u>18360.44</u>
	\$ 708492.56	\$ 22547.00	\$ 731039.56
Payment made by Cleveland Office in 1930	<u>2500.00</u>	<u> </u>	<u>2500.00</u>
	\$ 710992.56	\$ 22547.00	\$ 733539.56

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

23.

a. PENSION SYSTEM (Continued)

Furnace Department:

The pension payments for the years 1910 to 1938, inclusive, are as follows:

<u>Year</u>	<u>Old Age</u>	<u>Widows and Orphans</u>	<u>Total</u>
1910	\$ 111.75	\$ 0.00	\$ 111.75
1911	268.20	120.00	388.20
1912	268.20	180.00	448.20
1913	268.20	180.00	448.20
1914	268.20	180.00	448.20
1915	268.20	180.00	448.20
1916	268.20	60.00	328.20
1917	268.20	0.00	268.20
1918	268.20	0.00	268.20
1919	130.55	0.00	130.55
1920	223.80	0.00	223.80
1921	781.63	0.00	781.63
1922	1118.04	0.00	1118.04
1923	1179.38	0.00	1179.38
1924	2085.82	0.00	2085.82
1925	2833.39	0.00	2833.39
1926	5351.35	0.00	5351.35
1927	4819.73	0.00	4819.73
1928	5481.50	0.00	5481.50
1929	6137.02	0.00	6137.02
1930	6191.42	0.00	6191.42
1931	5531.30	0.00	5531.30
1932	3327.09	0.00	3327.09
1933	2528.04	0.00	2528.04
1934	2309.43	0.00	2309.43
1935	1930.54	0.00	1930.54
1936	1902.72	0.00	1902.72
1937	1662.72	0.00	1662.72
1938	<u>1446.90</u>	<u>0.00</u>	<u>1446.90</u>
	\$ 59229.72	\$ 900.00	\$ 60129.72

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

23.

a. PENSION SYSTEM (Continued)Land Department.

Erick Johnson continued on the pension roll during the year 1938. His annual pension amounts to \$240.00.

Total pension payments from January 1, 1927 to December 31, 1938, are as follows:

1927	\$ 333.36
1928	333.36
1929	333.36
1930	333.36
1931	333.36
1932	250.08
1933	240.00
1934	240.00
1935	240.00
1936	240.00
1937	240.00
1938	<u>240.00</u>

\$ 3356.88

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

23.

b. REPUBLIC MINE FUNDS

The report for 1930 has a full statement of the Sick Benefit Relief and the Fatal Accident Funds of the Republic Mine.

The unpaid balance which remained in the fund was turned over to the Marquette County Chapter of the American Red Cross. A small amount of this fund was retained in the Miners' National Bank at Ishpeming to take care of any outstanding checks or any claims which might be made by people who had paid into the fund and who had not been reached in any way during the period that these funds were being divided. No claims against the fund, as far as the record shows, have been made for a period of five years and it would seem unnecessary to keep these funds separately any longer. The funds are now in the reorganized Miners' First National Bank and the following statement agrees with the bank book:

Deposit Account #1672
Republic Mine Fatal Accident Fund

Miners' First National Bank:	
Balance on hand December 31, 1937	\$191.82
Interest for 1938	<u>2.87</u>
Total	\$194.69

Deposit Account #1673
Republic Mine Relief and Sick Benefit Fund

Miners' First National Bank:	
Balance on hand December 31, 1937	\$ 67.43
Interest for 1938	<u>1.00</u>
Total	\$ 68.43

After the club organization was no longer active the club voted to turn over the unexpended balance to the American Red Cross. It was understood that this unexpended balance was to be used for any relief or welfare projects in Republic only. A committee, composed of Mr. E. L. Pearce, Chairman of the Marquette County Chapter of the American Red Cross, Mr. E. S. Bice, Treasurer of that organization, and Walter F. Gries, a member of the Board of Directors, keeps in touch particularly with the needs at Republic in connection with the Republic Hospital. From time to time money is provided for fuel to heat this building which is no longer used as a hospital, but rather as a health center for the community. Dr. VanRiper holds office hours there every day and from time to time the committee has approved the expenditure of funds for repairs and fuel. The balance in this fund is in the neighborhood of \$400.00.

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

23.

c. SUSPENSE FUNDS.

The 1918 Annual Report contains a complete statement of the payments made from the Suspense Funds from September 1, 1912, at which time the Michigan Compensation Law went into effect. The funds were exhausted and this portion of the report is made from year to year so that it may always be readily determined where to look for the final report of the Suspense Funds.

At the present time certain Suspense Funds are being re-checked by the Cleveland office to determine the present status of this fund.

d. VISITING NURSES.

The work of the visiting nurses has continued throughout the year and their services have been of very great help.

This work was begun in Ishpeming on May 1, 1908; at Negaunee on September 1, 1912. It began at Gwinn on September 1, 1910 and was continued until October 1, 1927, when the mines were closed.

The following nurses were employed during the year:

Ishpeming	-	Miss Myrtle Welander
Negaunee	-	Miss Ina E. Atkin
Iron River	-	Miss Laura N. Fisk, (Who is employed jointly with other companies).

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

23.

d. VISITING NURSES.

The following is the report of the Ishpeming Visiting Nurse for the year 1938:

Total number of patients cared for during year	769
Number of new cases cared for during year	363
Total number of visits to patients	5018
Number of families visited for the first time	56
Number of social calls	47
Number died	10

Classification of new cases for the year:

Number of adults	190	Male	20	Female	170
Number of children	173	Male	75	Female	98

Nationalities of new cases for the year:

American	279	Irish	2
English	24	Italian	13
Finnish	25	Norwegian	1
French	6	Swedish	13

Diseases and number of new cases:

Anemia	6	Heart Trouble	9	Post-Operative	50
Appendicitis	1	Hypertension	2	Pre-natal	25
Asthma	1	Infants, Newborn	27	Pul.Tuberculosis	3
Bowel Trouble	11	Infections	38	Rheumatism	3
Baby Welfare	7	Influenza	1	Rupture	1
Bronchitis	3	Injury	11	Sore eyes	2
Burns	5	Kidney trouble	3	Stomach trouble	7
Carcinoma	1	Lumbago	1	Tonsilitis	24
Chorea	1	Miscarriage	2	Unclassified	15
Cold	25	Obstetrical	11	Undiagnosed	16
Cystitis	4	Otitis Media	3	Var. Ulcer	4
Diabetic	2	Paralysis	3	Var. Veins	2
Dysentery	1	Pleurisy	2	Whooping cough	19
Fracture	2	Pneumonia	9		

Visiting Nurse: Miss Myrtle Welander.

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

23.

d. VISITING NURSES (Continued)

The following is the report of the Negaunee Visiting Nurse for the year 1938:

Number of patients cared for during year:	1006
Number of new cases cared for during year	598
Total number of visits to patients	4166
Number of families visited for the first time	34
Number of social calls	589
Number died	6

Classification of new cases for the year:

Number of adults	289	Male	61	Female	228
Number of children	309	Male	156		153

Nationalities of new cases for the year:

American	411	Italian	34
English	6	Norwegian	2
Finnish	125	Swedish	13
French	7		

Diseases and number of new cases:

Abdominal Abscess	1	Epileptic	3	Pleurisy	1
Aenemia	9	Gen. Debility	3	Pneumonia	5
Apoplexy	4	Grippe	37	Post Operative	69
Appendicitis	16	Heart trouble	7	Pregnancy	28
Asthma	1	Infants, Newborn	29	Pul. Tuberculosis	2
Bowel Trouble	31	Infections	29	Pyelitis	3
Bronchitis	13	Injury	30	Quincy	3
Burns	5	Jaundice	1	Renal Calculus	1
Carcinoma	3	Kidney trouble	2	Rheumatism	10
Chicken Pox	5	Mal. Nutrition	39	Scarlet Fever	1
Cholystitis	9	Mastoditis	2	Sore Eyes	3
Cold	71	Measles	8	Sprains	2
Colic	1	Migraine	1	Stomach trouble	7
Croup	1	Neuritis	3	Tonsilitis	15
Cystitis	3	Obstetrical	25	Unclassified	10
Diabetes	6	Otitis Media	11	Undiagnosed	1
Eczema	1	Pertussis	16	Var. Ulcer	4
				Whooping Cough	7

Visiting Nurse: Miss Ina E. Atkin.

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

23. d. VISITING NURSES (Continued)

NUMBER OF PATIENTS ATTENDED AND CALLS MADE BY VISITING NURSES.

	<u>No. of Patients</u>	<u>No. of New Cases</u>	<u>Male Adult</u>	<u>Female Adult</u>	<u>Male Children</u>	<u>Female Children</u>
Ishpeming	769	363	20	170	75	98
Negaunee	<u>1006</u>	<u>598</u>	<u>61</u>	<u>228</u>	<u>156</u>	<u>153</u>
	1775	961	81	398	231	251

	<u>Total No. of Visits</u>	<u>Number Died</u>	<u>Social Calls</u>	<u>Families Visited for the first time.</u>
Ishpeming	5018	10	47	56
Negaunee	<u>4166</u>	<u>6</u>	<u>589</u>	<u>34</u>
	9184	16	636	90

NATIONALITIES OF CASES.

	<u>American</u>	<u>English</u>	<u>Finnish</u>	<u>French</u>
Ishpeming	279	24	25	6
Negaunee	<u>411</u>	<u>6</u>	<u>125</u>	<u>7</u>
	690	30	150	13

	<u>Irish</u>	<u>Italian</u>	<u>Norwegian</u>	<u>Swedish</u>
Ishpeming	2	13	1	13
Negaunee	<u>0</u>	<u>34</u>	<u>2</u>	<u>13</u>
	2	47	3	26

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

23.

f. NORTH LAKE CLUB

The usual program of supervised recreation and community activity has continued throughout the year at the North Lake Club under the supervision of Superintendent C. J. Stakel. John A. Peterson, Clerk at the Lloyd Mine, has acted as Treasurer and Dewey Urquhart acts as Director of the club.

Early in 1938 the North Lake school house burned down and classes are now being held in the clubhouse and they will be held there until such time as the new school, now under construction, is completed. This has given the club special use but the regular activities have been continued.

The Inland Steel Company cooperates in the operation of the North Lake Club and, of course, their employees have enjoyed the benefits of the club. The clubhouse serves as a community center for practically all the activities in the North Lake District and in Ishpeming Township.

Following is the statement showing the receipts and expenditures:

	<u>TOTAL FOR YEAR</u>
<u>RECEIPTS:</u>	
Membership Fees	\$ 399.50
Bowling Alleys	367.45
Pool and Billiards	68.05
Telephone Tolls	25.57
TOTAL	<u>860.57</u>
 <u>EXPENDITURES:</u>	
Building Maintenance	700.35
Equipment	384.37
Lighting	109.55
Heating	525.65
Water	60.00
Bowling Alley	314.31
Pool Room	3.12
Office Expense - Telephone	46.86
Salaries and Wages	1,988.50
Reading Rooms	17.30
Miscellaneous	22.68
Telephone Tolls	26.05
Personal Injury Expense	51.05
Unemployment Insurance Tax	84.01
Old Age Benefit Tax	24.45
Fire and Boiler Insurance	146.86
TOTAL	<u>4,505.11</u>
 Deficit	 3,644.54
Charged to Inland	960.00
Balance to Lloyd	\$ <u>2,684.54</u>

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23.

g. GWINN ASSOCIATION. (Continued)

The following report and summary of the activities of the Association is compiled from the regular monthly reports issued during the year 1938.

MEMBERSHIP:

Number on roll January 1st, 1938	219
Number on roll January 1st, 1939	253
High membership for year - November	280
Low membership for year - April	213
Average monthly membership	243

ATTENDANCE:

The attendance at the building showed an increase over the previous year and was due no doubt to the fact that many of the unemployed young men of the district spend much of their time at the building, reading and playing miscellaneous games, and also to the fact that with the number of work hours for the men at the mine reduced, they have much more leisure time.

Total estimated attendance at building for year	76500
Average monthly attendance	6377
High monthly attendance - December	8750
Low monthly attendance, - July	3625

The attendance at outdoor activities showed a large increase, due to the interest in the senior softball league sponsored by the association and also to the fact that the Club baseball team had more games on their league schedule. There was quite an increase in the number of participants as well as spectators at the different activities.

The following estimated attendance covers all outdoor activities conducted and supervised by the association 24,800

SUMMARY - RECEIPTS AND EXPENDITURES:
Taken from December Financial Statement.

Total receipts including 1937 balance	\$ 6,018.49
Total expenditures for year	<u>4,558.55</u>
Balance January 1, 1939	\$ 1,459.94

BUFFET, BILLIARDS, BOWLING ACCOUNTS:

Receipts for year	\$ 644.00
Expenditures for year	<u>244.16</u>
Profit	\$ 399.84
Receipts from Membership and Rental	\$ 3,718.75

WELFARE DEPT. ANNUAL REPORT YEAR 193823. g. GWINN ASSOCIATION (Continued)GENERAL ACTIVITIES AND ORGANIZATIONS USING BUILDING:

- 16 committee meetings.
- 13 nights play in Women's bridge and cribbage league - 1 party.
- 23 nights play in Men's cribbage league - 1 lunch - 1 banquet.
- 13 meetings by Women's Study Club.
- 9 meetings by Sportsmen's Association - 3 with special entertainment.
- 5 meetings by Women - State Extension Nutrition Class.
- 25 classes held by C. C. I. employees - special instructor.
- 27 days unemployment insurance adjustors received registrations.
- 3 married folks social parties - cards, dancing, misc. games and lunch.
- 1 dinner party - Girl Scouts.
- 1 recital - Tap Dancing Class.
- 1 social party - High School Glee Club.
- 1 audition for talent - Marquette Kiwanis Club.
- 1 celebration of 25th wedding anniversary by local couple.
- 4 meetings of G G G's - newly organized group of young ladies.
- 1 grade school Hallowe'en Party (afternoon).
- 1 social evening with lunch for all club athletes.
- 2 meetings by Ex-service men.
- 24 dances held during year - 3 by Scouts to raise funds; 9 social dances by High School students; 2 after basketball games; 2 by CYO society; 3 by High School Alumni; 5 listed below under events of special interest.
- 172 all day sessions of kindergarten school.
- 41 times equipment; card tables, dishes and chairs loaned for family parties.
- 91 times dinners or lunches were served by different organizations.
- 45 times noon lunches were served to kindergarten pupils by NYA help.

Annual - or Events of Special Interest. (not included in above.)

Annual Easter Monday Ball	by	Club Basketball Team
Annual Junior Prom	by	Junior Class High School
Annual Scout Ceremonial	by	Scout Troops and Local Council
Annual Masquerade Dance	by	Entire Senior High School
Annual Hunter's Ball	by	Local Sportsmen's Association
Annual Mother's Party	by	Local Scout Troops
Annual Hallowe'en Round-Up	by	Entire Junior High School
Annual Xmas Treat for Children	by	Local Fire Department
Dinner Party	by	Nutrition Class for Marquette County Groups under State Extension Supervision

Church Organizations Using Building: (not included in above)

- 11 meetings Methodist Ladies Aid - 3 rummage sales.
- 13 meetings Gwinn Ladies Guild - Episcopal.
- 6 card parties by St. Anthony's Catholic Guild.
- 10 meetings Gwinn Missionary Society - 1 special entertainment.
- 5 meetings Methodist Bible School.
- 4 chior rehearsals - 1 social by chior - 1 special chorus.
- 3 meetings by Swedish Guild.
- 1 pot-luck supper by Sunday School Class.

WELFARE DEPT. ANNUAL REPORT YEAR 193823. g. GWINN ASSOCIATION (Continued)LIBRARY AND READING ROOM.

Although there were fewer new books added to the library this year, the withdrawals were about the same in number as previous years. The library was closed two weeks during the year when all books were re-checked and repaired. During the year 28 new books were added and 11 were taken out of circulation on account of poor condition.

Number of books withdrawn on cards during the year 1859

The reading room service was much appreciated during the entire year; with the curtailment of working hours for mine employees, many of the men were regular daily patrons. The number of magazines subscribed for yearly was increased and the following material was received and placed in service.

Weekly magazines	8	Daily papers	2
Monthly magazines	20	Weekly papers	2

CARD PLAYING FACILITIES.

The card playing room was used extensively during the afternoon and evening during the entire year. The regular men's cribbage league has increased from the 48 entered last year to 64 for this year and they will play a schedule of 21 weekly matches. The women's bridge and cribbage leagues were very successful last year and are being continued this year. Social games of bridge, cribbage, and pinochle are the most popular games. The room is also used for married couples social parties.

GENERAL RECREATIONAL ROOM.

This room is the most popular for the younger boys and girls and the leading games are table tennis, regular checkers and Chinese checkers. It is unable to estimate the number making use of these facilities, other than to state that the equipment is in constant use between the months of November and May.

BOWLING.

This year the senior men's league consists of 8 teams and they will complete a schedule of 63 games. The women's league consists of nine teams and they will bowl a 48 game schedule. During the year the women bowlers entertained 2 out of town teams. Instruction in bowling was again given to boys and girls in the senior high school class as part of the physical training program. The alleys are still in demand by married couples for Saturday nights.

BAND.

The Club Band failed to re-organize, but did get together to furnish music for the Memorial Day Service with the assistance of some players from the local high school band. When there was a demand or need for band music on other occasions, the high school band filled the request.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23.

g. GWINN ASSOCIATION. (Continued)PHYSICAL RECREATIONS AND ATHLETIC DEPARTMENTS.

This includes all activities in the gymnasium and all outdoor recreations; such as, furnishing softball equipment for teams at Austin, Princeton, Swanzy and three teams in Gwinn, also of league play for senior members, junior boys, and women. The sponsoring of the club baseball team in Inter-County League and supervision of tennis and horseshoe courts and Bass Lake cottage and grounds.

Employees of the association continue to supervise the high school physical education program and act as coach of their athletic teams. The association also furnishes some equipment where supervision is in charge of outside agencies. During the year the association equipped the club basketball team with new uniforms.

Summary of Supervised Work: Gymnasium.

	<u>Periods</u>	<u>Attendance</u>
High school classes (girls)	146	3298
High school classes (boys)	168	4046
High school classes (mixed dancing)	40	1359
High school basketball practice	81	922
Club team basketball practice	46	365
Tap dancing classes	67	408
Misc. volleyball, badminton, or handball	31	282
Junior boys - Saturday morning	17	990
Swimming pool not operated		
Total	<u>596</u>	<u>11670</u>

The following basketball games were played under Association supervision:

High School team played 7 games at home - 9 away.

Club Team played 8 games at home - 11 away.

(The Club Team has entered the County League this year and will play a schedule of 18 games.)

Junior League and tournament played 62 games.

Attendance at all home games and practice sessions 3800

OUTDOOR RECREATIONS:

Club baseball team played 10 games at home and 11 away; winning the Championship of the Inter-County League.

Attendance at all home games and practice sessions 5350

The club sponsored a 6 team senior softball league which including a tournament at the end of the regular schedule played 79 games. Attendance at all games and practice sessions . . 10150

Junior softball teams for boys and women played 104 games.
Attendance including participants 3750

Tennis court in condition for play - 71 days - attendance . . 545

Horseshoe and misc. playground games including touch football 1650

The ice skating rink sponsored by the association but supervised by outside parties was in condition but 21 days. Attendance 1650

The local township has taken over the rink for the coming year so the association will have no report on this activity in the future.

23. g. GWINN ASSOCIATION. (Continued)

BASS LAKE CAMP

The attendance at the grounds for the season was about the same as last year. Bathing attendance was down but local fishermen made good use of their opportunities to fish there. There was "No Charge" on boat rental for club members and the same rule covered the use of the cottage.

SUMMARY

- 73 basket picnics.
- 725 bathers.
- 700 fishermen and visitors.

<u>USE OF COTTAGE</u>	<u>NUMBER</u>
Girl Scouts Troop #1	14
Girl Scouts Troop #2	11
Boy Scouts week-ends	20
6 different families used camp from 4 to 7 days	42
Group older boys 1 week	6
Group girls 1 week	6
1 picnic - Ladies Guild	20
1 picnic - Negaunee Band	40
Number using camp for dinner parties	18
Sportsmen's Annual Rabbit Supper	45
Total attendance at cottage and grounds	1700.

SCOUT ACTIVITIES.

The three scout troops sponsored by the association were under the same leadership as the previous year and continued very active. Scout Council Members are well satisfied with the program of work and recreation arranged for these organizations. During the month of July all scout activities were dropped in order to permit vacations for leaders. However, leaders put in additional time while troops were at camp.

The following summary covers activities for the two troops of girls and the one boy troop.

- 21 Lunches or suppers were held; this includes lunches after meetings indoors or after hikes or swimming parties outdoors.
- 4 All-day picnics.
- 12 Hikes, either ski or foot.
- 4 Swimming parties.
- 3 Dances to raise funds.
- 5 Bicycle trips.
- 4 Social parties.
- 1 Annual Mother's Day party.
- 1 Annual ceremonial.
- 1 Special speaker for boys.
- 28 Boys and girls attended their respective camping trips. Both boys and girls observed their annual scout week by attending different functions and church services.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23.

g. GWINN ASSOCIATION. (Continued)BUILDING.

During the year the building as well as equipment was put in good condition so that all departments would function properly.

Financial assistance is received from the local school board, the Cliffs Power and Light Company, and the Cleveland-Cliffs Iron Company. The Cleveland-Cliffs Iron Company also replaced all toilet units in the building and added a new hot-plate with gas service in the club kitchen.

A new three board checker table was installed in the game room, all floors were re-varnished and waxed where needed, new fencing constructed in rear of club, a new roof placed on storage building in rear of club. Toilet rooms were redecorated, bowling alleys sanded and put in good shape.

The coming year it will be necessary to make repairs to some of the outside brick work on walls of the main building, also the roof causes some trouble in spring by leaking and pool and billiard tables will need attention. Otherwise, the building and equipment is standing up well for the amount of use it receives.

23.

h. ISHPEMING Y.M.C.A BUILDING

The Ishpeming Y.M.C.A. building was closed on October 1, 1935 and has remained closed ever since except for a brief period when a number of relief workers occupied the building and at another time when a group of mining folks from Canada who were prospecting for gold north of Ishpeming occupied the building. Occasionally the building has been used during the summer months as headquarters for camp activities.

Camp Minneyata at Ross Lake which at one time was operated as a part of the Y.M.C.A. has been taken over by the Boy Scout Council of Marquette County and at the present time the Boy Scouts control the camp as far as upkeep, care, and administration are concerned. Groups of Boy Scouts and Girl Scouts and other organizations of young people enjoy the facilities of the camp during the whole summer season. An active camp program is carried on and each year the attendance is larger.

Late in 1936 an effort was made in the City of Ishpeming to have the Y.M.C.A. building taken over as a community enterprise. The Ishpeming Industrial Association and other groups undertook for a time the raising of funds to take care of the outstanding indebtedness with the idea that the building could be turned over to the city as a community center as well as a place to house some of the city governmental activities. The financial campaign was not very successful and it was some time before the building changed hands. Several months ago, however, the difficulties connected with the transferring of the building to the city were overcome and the building is now under the control of the city government. Up to the present time no program has been organized or suggested for using the Y.M.C.A. building. It is hoped that some type of organization under the direction of the city government can be perfected so that the Y.M.C.A. building will again be made available for community and civic programs.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23.
i. SAFETY WORK

The Central Safety Committee, made up of the men listed below, held meetings from time to time throughout the year as follows:

February 17th
May 13th
July 20th
November 3rd
December 16th

These meetings generally last from two to three hours and all accidents are discussed which occurred previous to the meeting and matters pertaining to the general safety of employees are brought up for consideration.

The following are the present members of the Committee:

Mr. G. R. Jackson, Chairman
Mr. S. R. Elliott
Mr. O. D. McClure
Mr. C. J. Stakel
Mr. W. W. Graff
Mr. H. O. Moulton
Mr. C. W. Allen
Mr. Carl Brewer
Mr. William Conibear
Mr. W. F. Gries
Mr. W. E. Johnson

At one of the meetings during the year the captains of the various mining properties were in attendance and matters pertaining to general mining safety were discussed.

The regular work of the Safety Department is covered by Mr. Conibear's report.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23.

j. HOSPITALS AND MEDICAL SERVICE.

The Welfare Department keeps in almost daily touch with the hospital in Ishpeming, and with the dispensary in Negaunee. Occasional visits are made to the branch at Gwinn and twice during the year the hospital at Iron River was contacted.

ISHPEMING HOSPITAL

The Ishpeming Hospital, which is generally rated as one of the best hospitals north of Milwaukee, has had a very active year. The Ishpeming Hospital continues on the accredited list of the American College of Physicians and Surgeons and its usual standard of fine service to the community has been broadened. Miss Hildur Swanson, R.N., has continued in charge as Superintendent throughout the year. Miss Swanson has been Superintendent since July 1, 1930.

The work of the hospital staff, the nurses, and other employees at the hospital has been superior in every way. The operating costs have increased somewhat, but the hospital has had a very busy year and because of some new equipment, new repairs, and new supplies an increase in the cost was unavoidable. The regular monthly reports mention some of the improvements, repairs, and installation of new equipment.

The staff of the Ishpeming Hospital during the year 1938 was made up of the following:

Dr. V. H. Vandeventer, Chief of Staff
 Dr. J. D. Crane
 Dr. P. P. Hartt
 Dr. A. W. Erickson
 Dr. W. A. Corcoran
 Miss Hildur Swanson, R.N., Superintendent

Dr. Vandeventer retired on December 31, 1938 as Chief of Staff. At the present time Dr. J. D. Crane is serving in the capacity of Acting Medical Director. No doctor has been engaged to fill the vacancy resulting from Dr. Vandeventer's retirement since it is deemed advisable to wait until the new Industrial Hygiene Clinic has been in operation. It appears possible at this time that the Industrial Hygiene Clinic will take care of all the physical examination work and it will not be necessary under those circumstances to engage someone to take Dr. Vandeventer's place on the regular staff. Future developments will determine whether or not this place should be filled.

Staff meetings have been held at various times throughout the year with Dr. Vandeventer acting as Chairman.

A special report submitted by Miss Swanson, Superintendent of the Ishpeming Hospital, is being included this year as a part of the annual report under Ishpeming Hospital.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23. j. HOSPITALS (Continued)

ISHPEMING HOSPITAL
STATISTICAL REPORT FOR THE YEAR 1938

Number of patients remaining in the Hospital at beginning of year		33
Number of adult patients admitted	1,104	
Number of child patients admitted	141	
Number of births	<u>249</u>	
Total new patients for the year 1938		<u>1,494</u>
Total of all patients during the year 1938		1,527
Number of deaths	53	
Number discharged during the year	<u>1,447</u>	
Total number leaving hospital		<u>1,500</u>
Number of patients remaining at end of year 1938		27
Classification of New Cases:		
Newborn	249	
Surgical	631	
Medical	317	
Obstetrical	<u>296</u>	
TOTAL		1,493
Number of Operations:		
Major	333	
Minor	247	
Emergency Room	<u>70</u>	
TOTAL		640
Number of patient days		17,073
Average number patients per day		46.8
Average stay per patient (days)		11.4
Number of fracture cases year 1938:		
Hercules Powder Company	2	
Inland Steel Company	14	
Oliver Iron Mining Company	2	
Cleveland-Cliffs Iron Company	63	
Outside Parties	26	
Republic Steel Corporation	<u>1</u>	
TOTAL		109

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23.

j. HOSPITALS (Continued)ISHPEMING HOSPITAL (Continued)

Number of Emergency room cases Oct. 15th to Jan. 1st, 1939 *(1)		
October, 1938	463	
November, 1938	765	
December, 1938	<u>764</u>	
TOTAL		1,992

*(1) Record has been kept since the 15th of October, 1938 only. Will be complete record of this department beginning January 1st, 1939.

Number of Electrocardiographs taken year 1938:		
Hospital cases	48	
Examinations	<u>105</u>	
TOTAL		153

Deaths during the year 1938:		
Surgical	11	
Medical	30	
Traumatic Injuries	5	
Newborn	<u>7</u>	
TOTAL		53

Deaths within 12 hours	7	
Deaths within 24 hours	10	
Deaths over 48 hours	<u>36</u>	
TOTAL		53

Deaths for the year 1938 classified by diseases:

Empyema	1	
Perforated gastric ulcer	2	
Cardiac	9	
Paratititis following surgery	1	
Carcinoma	6	
Peritonitis	3	
Pneumonia	4	
Birth injuries	2	
Diabetes	5	
Traumatic injuries	4	
Septicemia	3	
Pneumococci meningitis	1	

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23.

j. HOSPITALS (Continued)ISHPEMING HOSPITAL (Continued)

Deaths for the year 1938 classified by diseases: (Continued)

Tuberculosis	1	
Cerebral hemorrhage	2	
Congenital defect	2	
Premature birth	2	
Gastric hemorrhage	1	
Acute cholecystitis	1	
Arteriosclerosis	1	
Asthma	1	
Monstrosity	<u>1</u>	
TOTAL		53

Oxygen Tent Summary:

Deaths	8	
Discharges	9	
Total Oxygen Hours	<u>972</u>	

X-ray Report for 1938:

Extremities	629	
Gastro-Intestinal Tract	74	
Urinary Tract, Pyelography	47	
Disease of Bone	5	
Spine	130	
Mastoid	4	
Sinuses	6	
Foreign Body	19	
Chest & Heart	250	
Skull	28	
Fetus	17	
Cholecystography	37	
Fluoroscopic Examination	<u>113</u>	
Saranac Investigation--Chests	<u>1961</u>	
Grand Total		3320
Number of out patients	808	
Number of in patients	<u>390</u>	
Total		1198

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23. j. HOSPITALS (Continued)

ISHPEMING HOSPITAL (Continued)

Physio-therapy Report for 1938:

Diathermy	553
Ultra-violet	57
Metabolism	<u>50</u>
Total	660

Clinical Laboratory Report for 1938:

Blood Sugar	63
Cultures	39
Coagulation Time	88
Differential Counts	214
Faces	14
Gastric Contents	5
Haemoglobin	851
Parasites & Ovas	4
Red Cell Counts	770
Smears	111
Special Blood Examinations	259
Spinal Fluid	7
Sputum	56
Urinalysis	6248
Spec. & Misc. Examinations	696
Leucocyte Counts	881
Blood Typing	83
Blood Matching	36
Sedimentation	344
P. S. P.	<u>5</u>
Total	10,774

Pathological Specimens to
University Hospital, Ann Arbor 387

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23.

j. HOSPITALS (Continued)ISHPEMING HOSPITAL (Continued)

Dietary Report for 1938:

Patients Meals	51,552
Doctors, Nurses, Employees and Visitors	33,156
Total Meals for the Year	84,708
Formulas	249

Special Diet Patient Days

Diabetic	385
Allergy	27
Hypertension	132
Low Protein Salt Free	52
Post-operative Gastric Ulcer	172
Sippy	42
Low Fat	83
Milk	2
Ulcer	2
Low Purin	72
Reducing	45
Gall Bladder	3
Low Residue	7
Colitis	55
High Calorie	94
Special Soft	6
Low Fat High Calorie	48
Nephritic	108
Fat Free	109
High Carbohydrate	53
Initial Ulcer	10
Salt Free	31
Karrell	4

Total Special Diet Patient Days	1,542
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Total Special Diet Meals	4,626
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WELFARE DEPT. ANNUAL REPORT YEAR 1938

23. j. HOSPITALS (Continued)

Negaunee Dispensary

The Negaunee Hospital building has been used for several years by the doctors in the Negaunee District as an office building, emergency station, and a dispensary. During the year the building was painted and repaired and it is now in very good condition. The Negaunee Dispensary is a very busy place since all our employees in the Negaunee District go to the Negaunee Dispensary for medical attention. This plan works out very well and it is a splendid help to our employees in the Negaunee District. No hospitalization is undertaken at Negaunee. All hospital cases are sent to the Ishpeming Hospital.

The staff at the Negaunee Dispensary is made up of the following:

Dr. D. R. MacIntyre
Dr. W. A. Mudge
Dr. Miles J. Gullickson

Dr. MacIntyre, who was not on duty for several months due to illness, has resumed his work as of January 1, 1939. He appears to be in good physical condition and his advisors claim that it will be helpful to him to resume his practice.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23.

j. HOSPITALS (Continued)Republic Hospital

The Republic Hospital has been kept open and is somewhat of a health center for the west end of the county. Dr. Van Riper, who takes care of practically all the medical work in Champion, Ely, and Republic Townships, holds a daily office hour in the doctor's office in the old Republic Hospital. Much of the work that he does in this district is charitable work, but he receives some remuneration for cases which can be turned over to the County Poor Commission since he is the representative physician for the Poor Commission in Republic and the surrounding area. Dr. Van Riper takes care of the men for our company who live in the Republic District as well as their families and the men and the families of men who work for the Inland Steel Company and the North Range Mining Company who live in the townships of Champion, Humboldt, Republic, and Ely.

For the past two years an effort has been made to secure the cooperation of the Board of Education of the Republic Township to make plans to take over the administration of the building formerly used as a hospital in Republic. At present the Republic Hospital is under lease to the Republic Improvement Association, but this organization has done nothing in any way to make it possible for the Republic Hospital to be maintained.

The building has been maintained by the money which remained in the old Republic Benefit Fund and which was turned over several years ago to the Marquette County Chapter of the American Red Cross to be used only, as long as it lasted, for general relief and health work in Republic. This fund, which is now about \$400.00, has provided all the repair work and fuel for the Republic Hospital. No local funds have been available for fuel for the Republic Hospital building.

During the past fall the Republic Board of Education as well as the Township Board was contacted and it was explained to these two groups that sooner or later some group in Republic would have to take it upon itself to provide for the maintenance and heating of the Republic Hospital building if it was desired that the building should be continued as a health center. Up to the present time there has been no response and next year this matter will be taken up again. It is only a matter of a few more years when the present fund for the fuel and up-keep will be exhausted and if health service is to be continued in this district the local people will have to interest themselves in maintaining the building. No effort has been made by anyone to take over the lease and we are merely helping all we can to keep the present building so that health service may be maintained for the residents.

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

23.

j. HOSPITALS (Continued)Gwinn

We maintain a branch in the Gwinn District and Dr. Thomas P. Hickey is now our physician at Gwinn. Dr. Hickey came just a week ago to succeed Dr. C. A. Serbst who left our employ late in December to accept a position at Sea View Hospital, Staten Island.

Dr. Hickey is living in the home provided for the doctor and he maintains his office in this home and daily office hours are kept. Contact is kept with Dr. Hickey day by day and occasional visits are made by this department to the Gwinn branch.

Iron River Hospital

Two visits were made during the year to the hospital at Iron River, which is now in the seventh year of its service. This is a small hospital but very well equipped, and it appears to give very satisfactory service.

During the year Dr. Libby at Iron River has been contacted several times in connection with the physical examinations of our men at the Spies-Virgil Mine. We have had excellent cooperation from Dr. Libby.

Payments to Physicians

For reference purposes the following statement is made:

On August 1, 1927, a new rate of payment for our Company went into effect. The men pay \$1.25 for the medical service for themselves and immediate members of their families, the Company paying 50¢ per man per month to cover medical and hospital services under the provisions of the Workmen's Compensation Law.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23.

j. HOSPITALS AND MEDICAL SERVICE (Continued)

PHYSICAL EXAMINATION OF EMPLOYEES

Our arrangement with the Trudeau Foundation at Saranac, New York continued throughout the year with excellent results. Our contract runs from November 1st to October 31st. Mr. Richard F. Libby continues as a representative of the Trudeau Foundation and he has charge of all x-ray examinations.

During 1938 a regular schedule of examinations was carried on and a number of new men were given physical examinations and re-examinations of a great number of regular employees were continued. The results of the examinations are carefully recorded and studied. The passage of new occupational disease legislation in Michigan in 1937 makes it imperative that examinations be carried on with greater care than ever before and every effort is being made to induce our employees to take advantage of the physical examination program.

The following number of examinations have been made up to December 31, 1938:

Cleveland-Cliffs Iron Company	4058
Cliffs Power & Light Company	133
Athens Mine	894
Negaunee Mine	1076
Inland Steel Company	1060
Pickands, Mather & Company	73
Richmond Iron Company	82
Republic Steel Company	602
Calumet and Hecla Company	27
North Range Mining Company	285
Oliver Iron Mining Company	228
Marquette County Road Commission	<u>10</u>
Total	8528

Mr. Don Cummings, Director of the Trudeau Foundation Field Staff, has visited us several times during the year. Each time we have gone over the list of cases that required consideration and conferences are then held with the superintendents of the various properties relative to the placing of men in the proper working environment. In several cases we have found it necessary to suggest to the employee that he again contact his doctor for further discussion of his case.

We have succeeded during the year in having several employees take advantage of the services of the Morgan Heights Sanatorium. In this connection it should be recorded that Dr. Robert F. Berry, Superintendent of the sanatorium, has been very cooperative and eager to assist in any way he can.

WELFARE DEPARTMENT ANNUAL REPORT YEAR 1938

23.

j. HOSPITALS AND MEDICAL SERVICE (Continued)

PHYSICAL EXAMINATION OF EMPLOYEES (Continued)

The regular physical examination program has been carried on several years with very satisfactory results. The company is enabled through these examinations to know the physical conditions of a number of their employees and from the standpoint of industrial health, as well as community health, the physical examination program is very worthwhile.

Starting with the next issue of the Miners' Bulletin, which is issued by Mr. Conibear from time to time, this department will run a series of health articles. The purpose of this new undertaking is to bring to our employees, not only new health information, but it is felt that much can be done from the standpoint of industrial health and community health by carrying on in the regular bulletin a series of informational articles on personal, industrial, and community health.

k. HEALTH

During the year 1938 the mining communities, as well as other communities in Marquette County, have been regularly free from epidemics and contagious diseases. The three cities of Ishpeming, Negaunee, and Marquette are under the supervision of active health officers and school nurses. In addition to the regular health work in the cities, Miss Martha Johnson continues as Marquette County Red Cross Nurse and she is called upon to take care of most of the social nursing in the township districts of the county.

The three cities, Ishpeming, Negaunee, and Marquette, in addition to health officers also have full-time school nurses. Marquette is the only city which has a full-time health officer.

The city health officers in Marquette County are:

Marquette	-	Dr. C. P. Drury
Ishpeming	-	Dr. J. P. Bertucci
Negaunee	-	Dr. W. A. Mudge

The Northern Michigan Children's Clinic at Marquette has cooperated with public health officers in caring for children who have illnesses or physical deficiencies. This department maintains close contact with the clinic at Marquette, as well as the Bay Cliff Health Camp, a summer camp for undernourished children, at Big Bay. This camp is maintained by funds from the Michigan Children's Fund, commonly known as the Senator Couzens' Fund. Mr. Moulton has acted as Chairman of the Board of Directors of the Bay Cliff Health Camp, and since his retirement Mr. Gries has been the Acting Chairman. Regular visits are made to the camp during the time it is in session for eight weeks during the summer.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23.

k. HEALTH (Continued)

Regular contact is maintained with the social agencies in Marquette County. The representatives of the various social agencies in Marquette County meet on the second Friday of each month at the Northern Michigan Children's Clinic for the discussion of any problems dealing with general welfare, community health, juvenile delinquency, as well as problems dealing with home management and civic consciousness.

1. RED CROSS

Mr. E. L. Pearce of Marquette continued as Chairman of the Marquette County Chapter of the American Red Cross during the year 1938. There were no changes in the directors or other officials of the organization during the year.

Mrs. Martha Johnson of Ishpeming has continued as the Red Cross nurse for Marquette County, under the direction of the Nursing Activities Committee of the Red Cross. Mr. Stanley Williams, our County School Commissioner, acts as Chairman of the Nursing Activities Committee. Mrs. Johnson's salary and expenses are paid by the County and the Nursing Activities Committee supervises her work by agreement with the County Board of Supervisors.

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

23.

1. RED CROSS (Continued)

Report of Nurse
Marquette County Chapter
American Red Cross.

School Inspections; 10/1/37 to 10/1/38.

Number of schools in County	31
Number of schools examined	31
Number of children	2884

Number of Children with defects:

Eyes	85
Teeth	2242
Tonsils	112
Orthopedic defects	16
Communicable Diseases	20
	2425

Number of days spent at clinics:

Pre-school and infant	1
Psychiatric	1
	2

Number of children at Dental Clinics:

Number of children	909
Number of extractions	1799
Number of fillings	1080
Prophylactic	20

Children having glasses through Children's Fund,
parents or County paying for prescription 32

Number of schools receiving surplus commodities 8

Number of Children taken to hospitals, schools,
or Health Camp.

Orthopedic cases to Hospitals	23
Children to school for blind - Lansing	2
Children to school for deaf - Flint	5
To Children's Clinic - Marquette	43
To Big Bay Health Camp - Diabetics	10
To Big Bay Health Camp- Undernourished	10
	93

Investigations Made.

For County	131
Home Visits	1354
Red Cross	6
Number of surgical dressings for County Patient	22
	1513

WELFARE DEPT. ANNUAL REPORT YEAR 1938.

23.

1. RED CROSS (Continued)

Report of nurse (Continued)Meetings attended:

District Nurses Meetings	3
Child Guidance meetings	3
Maternal Health Clinic	3
Red Cross meeting at Iron Mountain	1
Teachers' Meeting	1
Achievement Day	1
Talks to School Clubs, etc.,	4

Report of Dental Clinic - June 27th to Sept. 17th, 1938.

<u>Township</u>	<u>Patients.</u>
Holy Family Orphanage	47
Children's Clinic	8
Michigan Children's Aid	6
Sands	17
Richmond	120
Negaunee	26
Champion	27
Republic	40
Forsyth	94
Wells	16
Powell	45
Skandia	9
Marquette	44
Chocolay	8
Tilden	60
Ely	37
State Children	6
Michigamme	23
Turin	16
Ishpeming	192

Returns 54. Total number of children 909.

Dr. S. J. Laubach of the Michigan Children's Clinic was the dentist.

Indigent Children having glasses through the Children's Clinic prescription,
paid for by parents or County:

<u>Township</u>	<u>Patients.</u>
Wells	5
Chocolay	4
Ishpeming	6
Negaunee	1
Ely	4
Forsyth	8
Republic	4
Total	<u>32</u>

23.

m. RELIEF WORK

Help has been extended to certain families who have been in special need, through sickness or death, or some special disability.

Following is a statement of the assistance rendered.

	<u>Ishpeming</u>	<u>Negaunee</u>	<u>Republic</u>	<u>Gwinn</u>	<u>Total</u>
January	302.47	111.72	23.74	83.11	521.04
February	255.76	97.32	39.48	101.31	493.87
March	301.20	128.95	24.47	20.03	474.65
April	219.29	156.86	31.46	55.32	462.93
May	246.71	136.66	24.02	66.28	473.67
June	225.77	99.49	23.89	12.41	361.56
July	245.96	96.38	27.93	40.00	410.27
August	248.82	101.69	39.84	20.00	410.35
September	256.77	84.01	13.91	23.50	378.19
October	256.74	59.15	22.95	86.19	425.03
November	485.73	61.02	22.93	-	569.68
December	334.95	45.12	66.72	78.58	525.37
	3380.17	1178.37	361.34	586.73	5506.61
Number of families assisted	32	11	2	9	54
Average amount of relief per family					\$101.97

n. EMPLOYMENT

Records of the men as secured by the Employment Department at the different properties have been furnished to us to keep the records which we have always kept in this office.

23.

o. INCAPACITATED EMPLOYEES

During the year payments have continued to certain men and certain families who originally did not have sufficient service to bring them within the provisions of the pension system. To these people donations were granted. These men are those who have suffered from some disability through accidents or through injuries at the mines and some with large families who became incapacitated.

Following is a list of the families and the amount of donations paid to them during the year:

DONATIONS TO INCAPACITATED EMPLOYEES

	Monthly Rate for 1938	Total Amount Paid during 1938	
Fred Fredette	\$ 20.00	\$ 240.00	
Sam Metherell	14.40	172.80	
August Samuelson	20.00	80.00	Died Apr. 8, 1938
John Aho	14.40	172.80	
Bennett Andrew	16.00	192.00	
Andrew Niemi	16.60	199.20	
Edmond Durante	20.00	240.00	
Axel Erickson	20.00	240.00	
Edward Van Langenhoven	20.00	240.00	
Nick Detoma	18.00	216.00	
Edwin J. Goodman	20.00	20.00	Died Jan. 14, 1938
Donato Valenzio	20.00	240.00	
William Anderson	20.00	240.00	
Fred Carlson	16.00	192.00	
Joseph Thomas	75.00	900.00	
A. J. Yungbluth	100.00	1200.00	
William Ryan	25.00	300.00	
R. J. Chenneour	50.00	600.00	
W. H. Moulton	150.00	900.00	Began July 1, 1938
Peter Nordeen, Sr.	25.00	75.00	Began Oct. 1, 1938 Died Dec. 23, 1938
Total		\$ 6659.80	

HOLMES MINE DONATIONS

Peter Lesage	20.00	\$ 240.00
Carl Jarvinen	16.99	203.88
Bernt Wiggen	20.00	240.00
Martin Trondson	20.00	240.00
Evan Kinnish	20.00	240.00
Total		\$1163.88

WELFARE DEPT.

ANNUAL REPORT

YEAR 1938.

23.

o. INCAPACITATED EMPLOYEES (Continued)DONATIONS TO WIDOWS

	Monthly Rate for Year 1938	Total Amount Paid during 1938	
Mrs. John Makela	\$ 20.00	\$ 240.00	Ended Dec. 31, 1938
Mrs. Wilhelmina Marjamaa	12.00	144.00	Ended Dec. 31, 1938
Mrs. Mathilda Carlson	12.00	144.00	
Mrs. J. H. Tregoning	25.00	<u>300.00</u>	
		\$ 828.00	

FURNACE DEPARTMENT DONATIONS

The donations, after being granted, were paid by the Furnace Department itself and later by the Cliffs-Dow Chemical Company. By directions from Cleveland on September 1, 1937, the donations have been paid from this office and the following payments have been made during the year.

John Schrandt	25.00	\$ 300.00	
James M. Johnson	25.00	275.00	Died Dec. 1, 1938
Patsy DePetro	20.00	240.00	
Mrs. George Cameron	20.00	240.00	
Jacob Hill	20.00	240.00	
Julius Olson	25.00	<u>300.00</u>	
		\$1595.00	

Amount of Donations paid to Incapacitated Employees	\$ 6659.80
Amount of Donations paid to Incapacitated Holmes Mine Employees	1163.88
Amount of Donations paid to Widows	828.00
Amount of Donations paid to Furnace Department cases	<u>1595.00</u>
Total Donations	\$ 10263.68

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23.

p. COST OF LIVING

It is estimated that the cost of living during the year 1938 increased approximately 7% in the Ishpeming and Negaunee Districts. We have continued to receive report blanks from time to time from leading grocery stores in both cities on the cost of various items of food. This practice has been continued since we issue relief orders to several needy persons and we keep a check of the prices that are being charged. It is believed that this is a desirable practice since it informs the local merchants who fill our relief orders that we are interested in the prices charged. In this connection it might be stated that our relief orders generally bear prices showing that the local merchants in most cases charge our relief clients the highest market prices. The relief client is almost helpless in that the merchant is designated on the relief order and the client is obliged to do his business with that merchant. In some cases the merchant has received these orders for years and while we have no definite check that any abuse is made of the order for groceries, still we can not be sure.

It seems that practically all the people we help with relief orders are making the most of the orders and undoubtedly getting all the value possible. However, we do know that in the cases where people have been given cash donations to assist ^{them} that they take advantage of sales at different times during the month and undoubtedly ^{are} getting more for their money.

Bank Deposits

A check was made of bank deposits in the community and it was found that they dropped during the year. This is undoubtedly due to industrial conditions throughout the year. Taking a particular illustration, the demand deposits in the First National Bank of Negaunee were reduced during the year by \$158,000.

Housing

The housing problem in the cities of Ishpeming and Negaunee is quite acute. Many of our Gwinn men are working at the Ishpeming and Negaunee mines but they continue to make their homes in Gwinn, first, because there are no places available in Ishpeming and Negaunee, and second, because of the low rents in Gwinn.

During the year it is estimated that between 25 and 35 new houses were built in the City of Ishpeming and in the neighborhood of 15 in the City of Negaunee. Rents, for the most part, have not increased and they are still what might be termed reasonable, taking all conditions into consideration.

23. p. COST OF LIVING (Continued)

Relief Situation

The general relief situation in Marquette County must still be described as being serious. There are many direct relief cases and at the present time while the W.P.A. rolls have been cut, there are approximately 1400 to 1500 men on W.P.A. projects. Medical aid for indigents has increased and one reason for this increase lies in the fact that more people avail themselves of what seems to be an easy way of getting consideration from a medical standpoint. The relief problem has established a peculiar psychology among people since they no longer seem to have any pride about accepting anything from an established governmental agency.

As far as our own employees are concerned they seem to be getting along very well. The present program of working four days a week at present wage levels seems to make it possible for a great majority of our families to make a decent living. If our working schedule could be so arranged that our employees knew definitely that four-days-a-week work were available the year round over an extended period of time it would seem that all our families could get along very well.

q. IMPROVEMENT WORK

Mr. Payen continues to look after the work dealing with improvement of grounds and properties. The only new work which was done during the year was that at the new location at Negaunee where the grounds were leveled, and lawns and trees planted. This location at the present time presents a very fine appearance. The work at the other properties has continued in the usual manner with some additional work on the hospital grounds.

WELFARE DEPT. ANNUAL REPORT YEAR 1938

23.

r. PRIZES FOR WELL-KEPT PREMISES.

During the year 1938 no prizes were offered for well-kept premises.

During the entire year trips are made at various times around the mines on our regular visits and through the various locations. Practically all properties are well-kept and there are a number of very fine gardens, both vegetable and flower gardens, in all the locations in the mining area.

The people of Marquette continue to offer inducement for well-kept premises. We have worked with the Marquette committee and provided them with suggestions, catalogues, and various ideas which have helped them to carry on their city beautification program.

In Munising prizes were offered during the year and this department has cooperated with them when called upon for help.

s. COMMUNITY SERVICE WORK

The American Legion building, formerly the old hospital, continues to serve the city as the meeting place for the American Legion and various other civic organizations. The Y.M.C.A. building has been used occasionally during the summer but it is in a very bad state of repair and nothing was done with this building during the year 1938. A movement to have the city take over the building appears to be meeting with favor. (Early in 1939 the city finally took over the building, but no program of improvement has been outlined as yet).

The American Legion Club in Negaunee continues to function and it is one of the popular civic centers of the community. The Negaunee Community building, which is under the direction of the city administration, continues to cater to various civic groups and groups of children. The building is used for meetings of the civic groups and various athletic groups which meet from time to time.

t. CLUBS

There have been two general meetings of the Cleveland-Cliffs Mining Club at the Mather Inn during the year. At these meetings the superintendents, captains, shift bosses, and other department executives listen to discussions dealing mostly with safety and general welfare.

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u. OUT-DOOR SPORTS.

The out-door winter sports program has been promoted during the past few years. The ski tournament, of course, has been held for over fifty years on Washington's Birthday. The Out-door Sports Committee has established a new clubhouse near the Marquette County Road Commission headquarters in Ishpeming. New ski trails and hills have been opened and this portion of the winter sports activity continues to be very popular.

Skating rinks are made available in various places in both Ishpeming and Negaunee and they are very popular, particularly with children and younger people.

The arrangements made a few years ago with the Northwestern Railroad for cheaper transportation rates to winter sports enthusiasts, particularly from Chicago, have been continued and each year the number of people who avail themselves of this service becomes greater.

The Mather Inn

The Mather Inn continues to be the popular hotel in the area. Last year's business was somewhat under the normal rate of business but the activity which is being promoted in winter sports has increased the income during the generally dull months of the winter season. The Saturday executive's club meets during the winter months at the Mather Inn.

w. VARIOUS DEPARTMENTS

We are called upon occasionally to assist in various matters with the Land Department and the Lumbering Department and frequent conferences are had with Mr. Frank Bell, particularly in matters dealing with compensation and occupational disease cases.

We are called upon also on many occasions to assist programs which are of general civic nature, such as the American Red Cross, The Michigan Tuberculosis Association, the Michigan Child Guidance Institute, the Michigan Delinquency Prevention Council, the Michigan Society for Crippled Children, and the Marquette County Social Welfare Agencies.

The donation payments being made to the Furnace employees at the Furnace Department in Marquette are now being paid directly under the supervision of the Welfare Department in Ishpeming.

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w. VARIOUS DEPARTMENTS (Continued)

LAKE SUPERIOR & ISHPEMING RAILROAD COMPANY

COMPARATIVE STATEMENT OF GENERAL WELFARE EXPENSE

YEARS 1935 to 1938, INCLUSIVE

<u>Donations:</u>	<u>1935</u>	<u>1936</u>	<u>1937</u>	<u>1938</u>
Fire Department	\$ 25.00	\$ 25.00	\$ 25.00	\$ 15.00
Visiting Nurse-Marquette	120.00	120.00	152.50	250.00
To employees and families	140.00	769.25	220.00	505.00
Boy and Girl Scouts-Munising - -	- -	25.00	- -	- -
St. Luke's Hospital	<u>200.00</u>	<u>- -</u>	<u>- -</u>	<u>- -</u>
	485.00	939.25	397.50	770.00
 <u>Pensions:</u>	 <u>3443.28</u>	 <u>3998.40</u>	 <u>1666.00</u>	 <u>nil</u>
Total	3928.28	4937.65	2063.50	770.00
 <u>Compensation:</u>				
Compensation Paid	990.00	1034.00	616.48	324.00
Medical Expense	317.16	541.11	858.80	1045.44
Percentage of Payrolls				
Acct. Comp. Payments	.0015	.0014	.0008	.0005

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w. Various Departments.

LAND DEPARTMENT

COMPARATIVE STATEMENT OF GENERAL WELFARE EXPENSES

FOR THE YEARS 1935 to 1938, INCLUSIVE.

<u>General Welfare Acct. No. 11</u>	<u>1935</u>	<u>1936</u>	<u>1937</u>	<u>1938</u>
A-2 Prop. charged by Treas.	677.60	500.00	800.00	250.00
11-F Miscellaneous Expenses	<u>240.00</u>	<u>240.00</u>	<u>240.00</u>	<u>240.00</u>
	917.60	740.00	1040.00	490.00
 <u>Donations</u>				
Negaunee Fire Department		7.50		
Munising Fire Department	10.00	10.00	10.00	
U. P. Development Bureau	500.00	500.00	500.00	500.00
Christmas presents to school children - Logging Operations	19.82			
Christmas Basket Fund - Munising			<u>58.27</u>	
	<u>529.82</u>	<u>517.50</u>	<u>568.27</u>	<u>500.00</u>
 <u>Compensation</u>				
a. Funeral Expense				
d. Legal Expense				
g. Medical Expense				
i. Monthly Payments to Doctors	101.50	100.50	108.50	310.84
h. Compensation				
 <u>Safety Work - Logging Operations</u>				
Supplies	33.62	11.72	28.71	16.61
 <u>Compensation - Logging Operations</u>				
Medical and Hospital	4626.05	6206.50	5272.49	3076.85
Compensation Payments	7831.50	8914.40	7724.49	6986.43
Percentage of Payroll	.0398	.0446	.0282	.04

