

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

The following motors are not connected to our Power System:

MESABA RANGE:	INSTALLED		CONNECTED	
	TO JAN. 1 1937	INSTALLED IN 1937	TAKEN OUT IN 1937	JAN. 1, 1938 TOTALS
Canisteo Mine:				
Priming Pump		3		
Shop Line Shaft		10		
Washing Plant Compressor		50		
Belt Conveyors 2 - 5 H.P. motors		10		
Jaw Crusher		100		
Centrifugal Pumps 2 - 125 H.P. "		250		
Symons Crushers 2 - 100 " "		200		
Belt Conveyor		75		
Armstrong Drills 2 - 15 " "		30	30	
Centrifugal Pump		25		
Portable Drill		1/2		
Hacksaw		1/2		
Wood Planer		3		
Band Saw		5		
Circular Saw		5		
Shaper		3		
Portable Drill		1/8		
Clear Water Pumps 1 - 3 H.P. motor		3		
Motor-Generator Set on Shovel No's. 32 & 35		750		
Exciter Sets " " " " "		40		
Dipper Trips " " " " "		4		
Fan		6		
Heater Motors 5 - 1/2 H.P. motors		2-1/2		
" Motor		1/4		
" Motors 8 - 1/8 " "		1		
Belt & Pipe Machine		5		
Machine Shop Planer		10		
Boring Machine		15		
Pressure Pump in Boiler House		30		
Shop Air Compressor		50		
Portable Grinder		1		
Bench Grinders 2 - 1/2 H.P. motors		1		
Blacksmith Shop Forge		1/4	1/4	
Electric Welder		15		
Punch & Shear Machine		5		
Small Pump		3		
Portable Saw		7-1/2		
Blacksmith Shop Bit Sharpener		10		
Roll Motor in Laboratory		5		
Pulverizer " "		1		
Fan " "		1/8		
Heater " "		1/8	1/8	
Fan " "		1/8		
Centrifugal Pump		125		
Motor-Generator Set - Washing Plant		225		
Battery Charger		3		
Allis-Chalmers Screen		5		
Electric Welder (To Hill-Trumbull)		15	15	
Priming Pump		3		
Armstrong Drill		15		
Ro-Tap in Laboratory		1/2		
Centrifugal Pump (From Holman)		125		
Battery Charger (Old Band Saw Motor)		3		
fwd.		2,255-1/2	0	45-3/8 2,210-1/8

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

	brt. fwd.	INSTALLED		CONNECTED	
		TO JAN. 1 1937	INSTALLED IN 1937	TAKEN OUT IN 1937	JAN. 1, 1938 TOTALS
GANISTEO MINE: (Cont'd.)		2,255-1/2	0	45-3/8	2,210-1/8
Portable Drill		1/2			
Dorr Classifiers - From Holman - 2 - 10 H.P.		20			
Picking Belts - " " - 2 - 5 "		10			
Armstrong Drill - " "		15			
Portable Grinder - " "		1			
Shop Door Hoist - " " (Correction)		5		4-1/2	
Shop Heater - " "		1/4			
Air Comp. in Lab. - " "		1-1/2			
Exhaust Fan		1/2			
Blacksmith Forge Fan		1/2			
Pit Pump		20			
" "		125			
4' x 6' Screen		5			
Lake Feed Pump		10			
Clear Water Pump		7-1/2			
5' x 14' Screen		10			
Drive Under Cutting Tool		1/4			
Arc Welder			15		
Pit Conveyor			20		
Laboratory Fan			1/8		
Clear Water Pump			3		
Pit Conveyor			25		
" "			60		
Tank Water Supply			20		
Pump For Pit			85		
					2,665-3/4
HOLMAN-CLIFFS MINE:					
Bench Grinder		1/4			
Belt Conveyor		75			
Symons Crushers 2 - 100 H.P. Motors		200			
Jaw Crusher		100			
Air Compressor		50			
Screen		25			
Machine Shop		30			
Centrifugal Pump		275			
Motor-Generator Set		225			
Clear Water Pump - Washing Plant		3			
Bench Grinder		1/4			
Shop Heater		1-1/4			
" Heaters 10 - 1/8 H.P. Motors		1-1/4			
Roll Motor In Laboratory		3			
Pulverizer in "		1			
					990
HILL-TRUMBULL MINE:					
Log Washer (Spare)		50		50	
" "		40		40	
Belt Conveyors 4 - 5 H.P. Motors		20			
Crusher		100			
Sample Crusher		10			
Prescott Plunger Pump		125			
Centrifugal Pump		150			
Shops		30			
Punch & Shear Machine in Shop		5			
	fwd.	3,477-1/2	228-1/8	49-7/8	3,655-3/4

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

	brt.	fwd.	INSTALLED	INSTALLED	TAKEN OUT	CONNECTED
			TO JAN. 1 1937	IN 1937	IN 1937	JAN. 1, 1938 TOTALS
HILL TRUMBULL MINE:	"	"	3,477-1/2	228-1/8	49-7/8	3,655-3/4
Band Saw in Carpenter Shop			530			
Compressor in Shop			5			
Screen			50			
Conveyor			20			
Planer in Shop			100			
Variety Saw in Shop			2			
Electric Drill			5			
Motor-Generator Set			1/4			
Blacksmith Shop Fan			65			
Drill			1/4			
Washing Plant Laboratory Rolls			1/4			
Picking Belt			3			
Car Puller			5			
Portable Grinder			7-1/2			
North Pit Pump			1			
Air Compressor at Washing Plant			30			
Churn Drill			25			
Boiler Feed Pump			10			
Layne & Bowler Pump			5			
Tool Post Grinder			125			
Armstrong Drill (From Drew Mine)			1/4			
Rock Drives on Classifiers 2 - 10 H.P. Motors			15			
Hummer Screen			20			
Pulverizer in Laboratory			2		2	
Fan " "			1			
Symons Crushers 2 - 100 H.P. Motors			1/8			
Bench Grinder			200			
Motor-Generator Set on Shovel #34			1/2			
Exciter " " "			250			
Dipper Trip " " "			20			
Fan " " "			2			
Fan for Blacksmith Shop			3			
Clear Water Pump			5			
Flue Machine			3			
Bench Grinder at Washing Plant			5			
Centrifugal Pump at Washing Plant			1/2			
Pit Pump			85		85	
Shop Door Hoist			30			
Cross Conveyor				2		
Screen Conveyors 2 - 5 H.P. Motors				10		
Transfer & Boom Conveyors 2 - 30 H.P. Motors				10		
Motor-Generator for Logs				60		
Pump for Pit				150		
Drill Water Supply Pump				2		
Arc Welder				25		
South Log Screen				15		
North " "				5		
Bit Sharpener in Shop (From Tilden)				5		
Motor-Generator Set - Marion Shovel #47				15		
				100		
			<u> </u>	<u> </u>	<u> </u>	<u>1,853-5/8</u>
TOTAL MESABA RANGE			5,109-1/8	627-1/8	226-7/8	5,509-3/8

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

The following motors are not connected to our Power System:

	<u>INSTALLED</u> <u>TO JAN. 1</u> <u>1937</u>	<u>INSTALLED</u> <u>IN 1937</u>	<u>TAKEN OUT</u> <u>IN 1937</u>	<u>CONNECTED</u> <u>JAN. 1, 1938</u> <u>TOTALS</u>
SPIES-VIRGIL MINE:				
Underground Triplex Pump	50			
Crusher	50			
Air Compressor	403			
Compressor Cooling Water Pump	3			
Hoist	400			
Boiler Feed Pump	2			
Circular Saw in Carpenter Shop	25			
Shop	5			
Compressor Cooling Water Pump	3			
8th Level Prescott Plunger Pumps 2 - 150 H.P.	300			
Underground Haulage Converter	150			
Sump Pump	2			
Auxiliary Compressor for Hoist Brakes	5			
Fan		15		
" (From Athens)		15		
"		5		
Grinder		<u>2</u>		
			<u>TOTAL</u>	1,435

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

The following A.C. motors are on hand, (Dec. 31, 1937) but are not installed:

CLIFFS SHAFT MINE:

Top Tram (Stator only)		50 H.P.
Spare Top Tram		50
Small Conveyor Motor		2
Scraper Motors	2 - 25 H.P.	125
Scraper Motor		15
Top Tram Motor from Republic		50
Magnetic Separator		3
Screen		<u>10</u>

305 HP

GENERAL STOREHOUSE & BARN:

Spare from Republic Concrete Mixer (Needs repairs)		5
" General Electric Pump		50
" for Centrifugal pump used at North Lake		200
" motor (Needs repairs)		40
Pump motor from Republic Mine (Needs repairs)		10
2 - 500 HP hoist motors from Cliffs Shaft Mine		1,000
Hoist stator only	" " " "	500
Feeder Belt	" " " "	5
Conveyer Belt	" " " "	20
Concrete mixer from Au Train		7-1/2
Leach concrete mixer		10
Carpenter Shop from Republic Mine		20
Undg. Hoist	" " "	50
" " " Maas "		50
Cyclone Drill	" Tilden "	10
Pump	" Au Train Dam	100
"	" Republic Mine (needs repairs)	50
"	" " "	7-1/2
Screen #9 Shaft	" " " scrap	25
Crusher	" " "	100
Coal Tram	" " "	7-1/2
Pump from 3rd Level	" " "	50
Screen from crusher	" " "	10
Pump from	" " "	35
Pump from Mackinaw Mine		20
Spare fro small compressors (In for repairs)		5
Pump motor from Cliffs Shaft change house		2
Prescott pump motor from Maas Mine		325
Pump motor from Morris Mine		50
" " " " "		40
Gwinn Crushing Plant conveyor motor		40
Top Tram from Wade Mine		50
Sump Pump	" " "	7-1/2
Blacksmith Shop fan	" " "	3
Air Compressor	" " "	150
Clear water pump	" " "	15
Triplex pump from	" " "	50
Pump motor	" " "	100
Undg. Haulage Set from Morris Mine		150
Coaling water pump " Wade "		2
Sump Pump from Negaunee Mine (needs repairs)		5
Allis-Chalmers 3-K-2164.1 From Armour Mine		5
Hoist		<u>150</u>

fwd.

3,532

fwd.

305 HP.

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

526

A.C. motors on hand but not installed: (Cont'd.)

	brt.	fwd.	
GENERAL STOREHOUSE & BARN: (Cont'd.)			305 HP.
Hoist from Armour Mine		3,532	
Centrifugal pump " " "		250	
" " " " "		150	
" " " " "		200	
" " " " "		35	
Blacksmith Shop blower (C.S. Lab.)			1/2
Centrifugal pump		5	
Skip hoist motor from Lloyd Mine		400	
" " " " Barnes-Hecker Mine		400	
Compressor motor		50	
" " from Shop		10	
Top Tram from Lloyd Mine		40	
Top Tram		50	
Cliffs Shaft Tram		100	
Lloyd Tram		40	
Sump Pump		2	
" " "		2	
Top tram for Lloyd Mine		50	
Hoist Motor from Agneline Mine		<u>250</u>	
			5,566-1/2
ISHHEMING HOSPITAL:			
Spare for dumb waiter		3	
" " hot wate/return		<u>5</u>	
			8
ATHENS MINE:			
Pump Motor		<u>50</u>	
			50
MAAS MINE:			
Winze Pump		15	
Rheostat pump		2	
Cooling water pump		5	
Return " "		2	
Sump pump (New)		<u>5</u>	
			29
NEGAJUNEE MINE & BARN:			
Flywheel hoist set motor		350	
Top Tram		50	
Hoist from South Jackson		75	
Pump " Maas Mine		50	
Pump " Morris Mine		50	
Hoist motor from Stephenson Mine		<u>75</u>	
			650
GWINN DISTRICT:			
Underground pump		150	
Hoist motor from Spies Mine		200	
Hoist motor		400	
Top Tram from Gardner Mine		25	
Stephenson 5th level plunger pump		250	
" " " " "		250	
" 8th " " "		50	
Spare for Pumping Station		<u>30</u>	
			<u>1,355</u>
	fwd.		7,963 3/4

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

A. C. motors on hand but not installed: (Cont'd.)

TILDEN MINE:

brt. fwd. 7,963 $\frac{3}{4}$ HP.

Conveyor Belt
Trip motor for shovels

50
1-1/4
51 $\frac{1}{4}$
TOTAL 8,014-3/4

Spare motors at Spies-Virgil Mine:
Underground haulage set

150
TOTAL 150 HP.

Spare motors on Mesaba Range:

HILL-TRUMBULL MINE & SHOPS:

Screen	from Crosby Mine	20
Picking Belt	" " "	3
Chip screen	" " "	3
#2 Turbo	" " "	20
Planer	" " "	3
Chip screen		2
Conveyor belt	" Drew "	15
Feeder	" " "	10
Helmer hoist		<u>200</u>

276

CANISTEO MINE:

Centrifugal pump		600
" "		600
Dipper trip		2
H-T table motor		20
H-Y picking belt		5
Spare heaters on #35 shovel		1/8
Dorr washers	2 - 75 HP.	<u>150</u>

1,377-1/8

HOLMAN-CLIFFS MINE:

Shaft pump		150
Sump pump		5
Air compressor from Pontiac Mine		100
Chip screen		2
Blacksmith shop fan		1/4
Clear water pump		3
Hydrotator		<u>15</u>

275-1/4

TOTAL 1,928-3/8

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

Total C.G.I.Co. & C.P.&L.Co. load connected to Power System - 12/31/37 -	26,890	H.P.
" outside " " " " " " - " -	<u>19,940</u>	"
<u>TOTAL CONNECTED LOAD</u>	46,830	H.P.
Total connected load at Mesaba Range Mines - Dec. 31st, 1937 -	5,509-3/8	H.P.
" " " " Spies-Virgil Mine - " " " -	1,435	H.P.
Total spare motors on hand Dec. 31st, 1937 - Ishpeming District -	8,014-3/4	H.P.
" " " " " " " " - Spies-Virgil Mine -	150	H.P.
" " " " " " " " - Mesaba Range Mines -	1,928-3/8	H.P.

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

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

	Installed to Jan.1, 1937	Installed in 1937	Taken Out in 1937	Jan.1,1938 TOTALS
AU TRAIN WATER POWER PLANT:				
Exciters (2)	<u>34</u>			34 KW.
GARP RIVER WATER POWER 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
ESCANABA 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
CLIFFS SHAFT MINE:				
Compressor motor exciters (3)	<u>30</u>			30
BROWNSTONE SUBSTATION & SHOPS:				
Battery Charging set	2			
Line testing set	1/2			
Voltage regulator control	1/2			
Condenser exciter	15			
M. G. set in shop	10			
Welding generators	<u>16</u>			44
ATHENS MINE:				
Nordberg Compressor motor exciter	10			
Flywheel set exciter	15			
Skip hoist generator	700			
Ingersoll-Rand compressor motor exciter	<u>10</u>			735
MAAS CRUSHING PLANT:				
Pan conveyor generator	35			
" " " exciter	<u>1½</u>			36¾
fwd.	<u>1,377¼</u>	<u>0</u>	<u>0</u>	<u>1,377¼</u>

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

Direct current generators and exciters installed: (Cont'd.)

	INSTALLED TO JAN. 1 1937	INSTALLED IN 1937	TAKEN OUT IN 1937	JAN. 1, 1938 TOTALS
brt. fwd.	1,377 $\frac{1}{4}$	0	0	1,377 $\frac{1}{4}$
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	<u>35</u>			1,258 $\frac{1}{2}$
LLOYD MINE:				
Compressor motor exciter	<u>6</u>			6
MACKINAW MINE:				
Compressor motor exciter	<u>10</u>			10
TILDEN MINE:				
Thrust generator on electric shovel #29	15			
Hoist " " " " "	75			
Swing " " " " "	15			
Exciter " " " " "	5 $\frac{1}{2}$			
" " " " "#51	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 v " " " " "	<u>5$\frac{1}{2}$</u>			322 $\frac{1}{2}$
TOTAL	<u>2,974-1/4</u>	<u>0</u>	<u>0</u>	<u>2,974-1/4</u>

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

Underground Haulage Generators:

	INSTALLED TO JAN. 1 1937	INSTALLED IN 1937	TAKEN OUT IN 1937	JAN. 1, 1938 TOTALS
CLIFF SHAFT MINE:				
Motor-Generator Set #2	100 KW			
" " charging set	5			
" " Set #1	<u>100</u>			
				205 KW
ATHENS MINE:				
Rotary Converter #1	100			
" " #2	<u>100</u>			
				200
MAAS MINE:				
Motor-generator Set #1	100			
" " Set #2	100			
" " Set #3	<u>250</u>			
				450
NEGAUNEE MINE:				
Motor-generator Set #1 (New)	200			
" " Set #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:

AU TRAIN WATER POWER PLANT:				
Governor control motors (2)	<u>1/4</u>			
				1/4
CARP RIVER WATER POWER 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
CLIFFS SHAFT MINE:				
Portable Hoist	10			
Carp Puller	6-1/2			
Scrapers	<u>90</u>	<u>75</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
fwd.	<u>500-3/4</u>	<u>75</u>	<u>0</u>	<u>575-3/4</u>

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

Direct Current Motors: (Cont'd.)

		INSTALLED		TAKEN OUT	JAN. 1, 1938
		TO JAN. 1	INSTALLED	IN 1937	TOTALS
		1937	IN 1937	IN 1937	
		500-3/4	75	0	575-3/4
ATHENS MINE:					
	brt. fwd.				
	Skip Hoist	900			
	Ventilating fans 6 - 5 HP motors	30			
	Sullivan Scrapers 2 - 6 $\frac{1}{2}$ " "	13			
	" " 20 - 15 " "	240	60		
	Sullivan Scrapers 4 - 20 " "	40	40		
	I.-R. Scrapers 2 - 10 " "	20			
	Ventilating fan (From Maas Mine)	15			
	Scrapers 2 - 25 HP motors		50		
					1,408
MAAS MINE:					
	Timber Hoist - 4th Level	10			
	Sullivan Scrapers 28 - 15 HP motors	345	75		
	" " 5 - 6 $\frac{1}{2}$ " "	32 $\frac{1}{2}$			
	Ventilating fans 10 - 5 " "	50			
	Scrapers 2 - 25 " "	50			
	I.-R. Scrapers 9 - 15 " "	135			
	" " 3 - 10 " "	30			
	Scrapers 1 - 20 " "	20			
	Fan 1 - 3 " "	3			
					750-1/2
MAAS CRUSHING PLANT:					
	Pan Conveyor	40			
					40
NEGAUNEE MINE:					
	Skip Hoist	500			
	Cage "	200			
	Timber hoist - 11th level	10			
	" " - 12th "	10			
	Grindstones 2 - 6 $\frac{1}{2}$ HP motors	13			
	Sullivan Scrapers 2 - 25 " "	50			
	Ventilating fans 6 - 5 " "	20	10		
	Denver Scrapers 3 - 10 " "	30			
	Sullivan " 7 - 15 " "	105			
	I.-R. " 10 - 15 " "	90	60		
	" " 6 - 10 " "	60			
	Sullivan " 1 - 20 " "	20			
	Gardner-Denver Scrapers 2 - 15 HP "	30			
	I.-R. Scrapers	20	30		
	" " 2 - 25 " "		50		
					1,308
LLOYD MINE:					
	Scrapers 13 - 15 HP motors	180			
	" 1 - 10 " "	10			
	" 1 - 25 " "	25			
	Skip Pit 1 - 6 $\frac{1}{2}$ " "	6 $\frac{1}{2}$			
	" " 1 - 7 $\frac{1}{2}$ " "	7 $\frac{1}{2}$			
	I.-R. Scraper 1 - 20 " "	20			
					249
GARDNER-MACKINAW MINE:					
	Scraper 3 - 10 " "	30			
	" 1 - 20 " "	20			
	" 1 - 15 " "	15			
	Fan		15		
TOTAL D.C. MOTORS					80
		3,946-1/4	465	0	4,411-1/4

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

Spare Generators and Exciters on hand Dec. 31st, 1937:

NEGAUNEE MINE:

Skip Hoist (Armature only) 500 H.P.

Spare Underground Haulage Generators on hand Dec. 31st, 1937:

GENERAL STOREHOUSE:

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

Spare Direct Current Motors on hand Dec. 31st, 1937:

ATHENS MINE:

Timber Hoist Motor	10	
Fan	15	25

MAAS MINE:

Conway Loader	50	50
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LLOYD MINE:

Crane Motor	10	10
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GENERAL STOREHOUSE:

Pump Motor	20	
Spare hoist motor for shovel	105	
" swing " " "	20	145

GARDNER-MACKINAW MINE:

Hoist	15	
TOTAL		15
		245 H.P.

MESABA RANGE:

Canisteo Mine:

Exciters and Generators installed up to Dec. 31st., 1937:

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)	10	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	115	444

HOLMAN-CLIFFS MINE:

Generator for feeder	150	
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TOTAL

150
1,246 KW

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

MESABA RANGE:

Underground Haulage Generators installed up to Dec. 31st, 1937:

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

Direct Current motors installed up to Dec. 31st, 1937:

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	80
		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 " " "		¾
		498½

HOLMAN-CLIFFS MINE:		
Pan Conveyor	40	
<u>TOTAL</u>		40
		1,203½ HP

Spare Direct Current Motors on Mesaba Range Dec. 31st., 1937:

CANISTEO MINE:		
Generator (From Pontiac Mine)	7 KW	
		7 KW
HOLMAN-CLIFFS MINE:		
1 D.C. motor	5 HP	
1 " "	3	
1 " "	3	
		11 HP

MESABA RANGE:

Total Exciters and Generators installed to Dec. 31st, 1937 - 1,246 KW

" Haulage Generators	" " " " " "	80 KW
" Direct Current Motors	" " " " " "	- 1,203½ HP

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

SPIES-VIRGIL MINE:

Exciters installed to December 31st., 1937:

Compressor motor exciter		10 KW
Underground Haulage Generators installed to Dec. 31st., 1937:		250 KW
Top Tram larry cars	- 20 HP D.C. motors	40
Fan		<u>15</u>
		55 HP
Spare D.C. Generator		100 KW

ISHPEMING DISTRICT:

Total D.C. Generators and Exciters installed to December 31st., 1937	-	2,974 $\frac{1}{4}$ KW
" Underground Haulage Generators	" " " "	- 1,495 KW
" Direct Current Motors	" " " "	- 4,411 $\frac{1}{4}$ HP
" Spare D.C. Generators and Exciters on hand	" " "	- 500 KW
" " Underground Haulage Generators	" " "	- 152 KW
" " Direct Current Motors	" " "	- 245 HP

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

THE CLIFFS POWER & LIGHT CO.

Substation Transformers installed up to December 31st, 1937.

<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	
Au Train "	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	112 $\frac{1}{2}$	
" "	1	2	150	300	412 $\frac{1}{2}$
<u>33,000/2300 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	
Princeton "	1	3	250	750	
Republic "	1	3	400	1 200	
Maas "	1	6	590	3 540	
Escanaba Plant "	1	3	590	1 770	
Brownstone "	1	3	625	1 875	
Hartford "	1	3	200	600	
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 "	1	3	150	450	
Michigan Gold Mine "	1	3	75	225	
Tilden "	3	1	1,250	1 250	
Palmer Rural "	1	4	15	60	37,265 "
<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	2 $\frac{1}{2}$	2 $\frac{1}{2}$
<u>12,000/2300 Volts</u>					
McClure Plant (Furnace Lines)	3	2	1,250	2,500	
Au Train Substation	1	3	50	150	
Chatham "	1	3	25	75	
Eben "	1	1	25	25	
Rumely "	1	2	15	30	
Inland #1 (Wis-Michigan 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	
" " "	1	1	15	15	2,240 "
<u>6,600/115/230 Volts</u>					
Germfask	1	1	15	15	
"	1	2	1.5	3	
"	1	2	3	6	
" C.C.C. Camp	1	1	7 $\frac{1}{2}$	7 $\frac{1}{2}$	52,926 K.V.A.
			fwd.	31 $\frac{1}{2}$	

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

Substation Transformers installed up to December 31st, 1937: (Cont'd.)

	<u>Phase</u>	<u>No.</u>	<u>K.V.A.</u>	<u>Total K.V.A.</u>	
Brought forward			31½	31½	52,926
<u>6,600/115/230 Volts</u>					
Furnace Substation Lighting	1	1	5	<u>5</u>	<u>36½</u>
<u>GRAND TOTAL</u>					52,962½ K.V.A.

THE CLIFFS POWER & LIGHT CO.

Distribution Transformers installed up to Dec. 31st, 1937:

	<u>Phase</u>	<u>No.</u>	<u>K.V.A.</u>	<u>TOTAL K.V.A.</u>
<u>AM TRAIN WATER POWER:</u>				
Heater at Valve House	1	1	2	
Control	1	3 (1)	3	
Power & Lights, Dixon Location	1	2 (5)	10	
" " " , Grand Island	1	2 (5)	10	
Lights, Forest Lake Location	1	1	10	
Chief Operator's Dwelling Lights	1	1	5	
Surge Tank Heaters	1	1	5	
Dixon Tie Mill	1	2 (3)	6	
Chief Operator's House	1	2 (5)	10	
Dixon Location, Power	1	1	<u>3</u>	64
<u>CARD RIVER WATER POWER PLANT:</u>				
Power & Lights	1	1	10	
" " "	1	1	20	
Pump	1	2 (2)	<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	1½	
"	1	1	<u>3</u>	4½
<u>GRAND TOTAL FOR PLANTS:</u>				185½
<u>RETAIL SERVICE:</u>				
Princeton Location Lighting	1	1	5	
Austin " "	1	1	10	
Gwinn Street Lights	1	2 (1)	2	
" " " "	1	1	<u>2</u>	
			fwd.	19

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

THE CLIFFS POWER & LIGHT CO: (Cont'd.)

Distribution Transformers (Cont'd.)

	brt.	fwd.	v	<u>Phase</u>	<u>No.</u>	<u>K.V.A.</u>	<u>TOTAL K.V.A.</u>
19							
<u>RETAIL SERVICE:</u>							
Gwinn Lighting near Depot	1	1				1/2	
" " " Poplar Alley	1	1				30	
" Power - Club House	1	1				10	
" Lighting - Mineral St.	1	1				10	
" " - Pine St.	1	2		(10)		20	
" Power - School	1	3		(5)		15	
" Lighting "	1	1				10	
New Swanzy Lighting	1	1				10	
Cyr Location "	1	1				2	
Little Lake "	1	1				10	
" " "	1	1				7½	
Sundell "	1	1				5	
" " "	1	1				3	
" " " Rural	1	1				2½	
Rumely "	1	14		(1½)		21	
" " "	1	1				5	
" " " Rural	1	1				2½	
Germfask " Rural & Local	1	17		(1½)		25½	
" " " " "	1	2		(3)		6	
" " " " "	1	1				1½	
Seney "	1	1				10	
Little Lake Lighting	1	1				3	
Hirwas' Camp	1	1				5	
Winter's "	1	1				3	
Connors' "	1	1				3	
Railo-Rytkonen Camp	1	1				5	
Eben School	1	1				10	
" Corner	1	1				7½	
" Lighting (Hallstrom)	1	1				5	
" " (Ahola & Micklow)	1	1				5	
" " "	1	4		(3)		12	
" " "	1	8		(1½)		12	
Chatham "	1	1				15	
" " (Heldmann's Store)	1	1				10	
" " (County Garage)	1	1				5	
" " (Alger County Infirmary)	1	1				10	
" " (State Farm Chicken Coop)	1	1				5	
" " (State Farm)	1	2		(7½)		15	
" " (Maki)	1	1				5	
" " (Rural)	1	1				5	
" " "	1	1				3	
" " "	1	18		(1½)		27	
" " "	1	3		(3)		3	
Palmer Rural	1	2		(15)		30	
" " "	1	2		(3)		6	
" " "	1	8		(1½)		12	
Shops - Light & Power	1	1				15	
" " " " "	1	1				7½	
Blacksmith Shop	1	1				30	
Manager's Residence	1	2		(20)		20	
" " "	1	1				5	
" " "	1	1				7½	
" " "	1	1				1½	
fwd.							

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

THE CLIFFS POWER & LIGHT CO.:

Distribution Transformers (Cont'd.)

	brt.	fwd.	Phase	No.	K.V.A.	TOTAL K.V.A.
<u>RETAIL SERVICE:</u>						
Hospital			1	3 (25)	75	
Shop Power			1	3 (15)	45	
" Lights			v1	1	5	
Blacksmith Shop Lights			1	1	15	
F. C. Stanford			1	1	10	
Office Lights			1	1	10	
" "			1	1	15	
L.S.&I. Yard Service			1	3 (7½)	22½	
North Lake Location Lights			1	1	7½	
" " Club House			1	1	10	
Inland #1 Sub. Circuit Breaker Control			1	1	1½	
Prin. Central Power Plant Coal Crusher			1	1	7½	
" " " " Lights			1	1	10	
" " Shops Power & Lights			1	2 (10)	20	
Gwinn District Office Lights			1	1	10	
Kidder Shaft Pump Station Power			1	2 (37½)	75	
Gwinn Crushing Plant Power & Lights			1	2 (10)	20	
Gwinn Substation Lights			1	1	1/2	
Princeton Pump Station Sub. Control			1	2 (7½)	15	
New Shop Power			1	3 (10)	30	
" " Lights			1	1	15	
Garage & Warehouse			1	1	50	
" " " Power			1	2 (5)	10	
Breitung Pump at Athens Mine			1	3 (5½)	22½	479½
						22½
						<u>502</u>
<u>TOTAL RETAIL SERVICE</u> -----						

Distribution Transformers installed up to December 31st, 1937:

2300/220/110 Volts:

CLIFFS SHAFT MINE:

"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 (1½)	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	
		fwd	952	

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

Distribution Transformers (Cont'd.)

	brt. fwd.	Phase	No.	K.V.A.	TOTAL K.V.A.
				952	
CLIFFS SHAFT MINE: (Cont'd.)					
Top Tram Control		1	1	2	
Garage Lights		1	1	5	
Engine House Lights		1	3 (10)	30	
Shop Lights		1	1	7½	
Drill Furnace		1	1	25	
Scraper on Stockpile		1	3 (15)	45	
					1,066½
TILDEN MINE:					
Pump		1	1 (7½)	7½	
"		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 (7½)	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
ATHENS MINE:					
Machine Shop		1	2 (10)	20	
Surface Lights & Lab. 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
MAAS MINE:					
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	
					171
MAAS CRUSHING PLANT:					
Lights		1	1	5	
Brake		1	1	1	
					6
				fwd.	1,786½

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

Distribution Transformers (Cont'd.)

	brt. fwd.	Phase	No.	K.V.A.	TOTAL K.V.A.
					<u>1,786½</u>
NEGAUNEE MINE:					
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	
					<u>139½</u>
LLOYD MINE:					
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	
					<u>314½</u>
SECTION 6 SHAFT:					
Hoist Control		1	1	7½	
Lights		1	2 (2)	4	
					<u>11½</u>
GARDNER MINE:					
Cage Hoist Control		1	1	10	
					10
MACKINAW MINE:					
Machine Shop		1	2 (5)	10	
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	
R.&R. Lumber Co.		1	2 (10)	20	
5th. Level Pump House		1	2 (10)	20	
					170
PRINCETON #3:					
Lighting & Bell System		1	1	1½	
					<u>1½</u>
<u>TOTAL</u>					<u>2,433½</u>

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

Spare Transformers on hand December 31st, 1937:

	<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	7 $\frac{1}{2}$	
" "	1	1	25	
" "	1	1	10	
" "	1	1	25	
New General Electric	1	2 (7 $\frac{1}{2}$)	15	
" " "	1	3 (3)	9	
" " "	1	2 (1 $\frac{1}{2}$)	3	
" " "	1	2 (15)	30	
" " "	1	2 (10)	20	
" " "	1	3 (5)	15	
" " "	1	1	3	
Spare at Furnace	1	1	100	
" " Inland Substation	1	1	500	
				862 $\frac{1}{2}$
<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>		877 $\frac{1}{2}$

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

COMPARATIVE TABLES:

<u>YEAR</u>	<u>TONS COAL BURNED</u>	<u>TONS ORE & 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>						
1927	957	426,830	766,647,000	1,796	440,517,425	
1928	1,008	416 344	804 600 000	1 932	463 182 750	
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	288 053	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	370 755 799	705
<u>ATHENS MINE:</u>						
1928	827	241 977	710 640 000	2,936	120 178 303	
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	
1933	546	49 506	152 235 000	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
<u>MAAS MINE:</u>						
1928	657	272 740	679 005 000	2 489	553 419 346	
1929	577	347 232	1,067 265 000	3 074	554 452 221	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
<u>NEGAUNEE MINE:</u>						
1928	1,278	472 459	1,047,240,000	2 216	629 675 383	
1929	1 410	569 489	1 123 840 000	1 973	648 591 436	
1930	1 254	597 364	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

P. W. K.

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1937

COMPARATIVE TABLES: (Cont'd.)

<u>YEAR</u>	<u>TONS COAL BURNED</u>	<u>TONS ORE & 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				
<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		
<u>GARDNER-MACKINAW MINE:</u>						
1928	336	91,293	216,020,000	2,344	52,760,063	
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

THE CLIFFS POWER & LIGHT CO.

STATISTICAL DATA --- 1 9 3 7

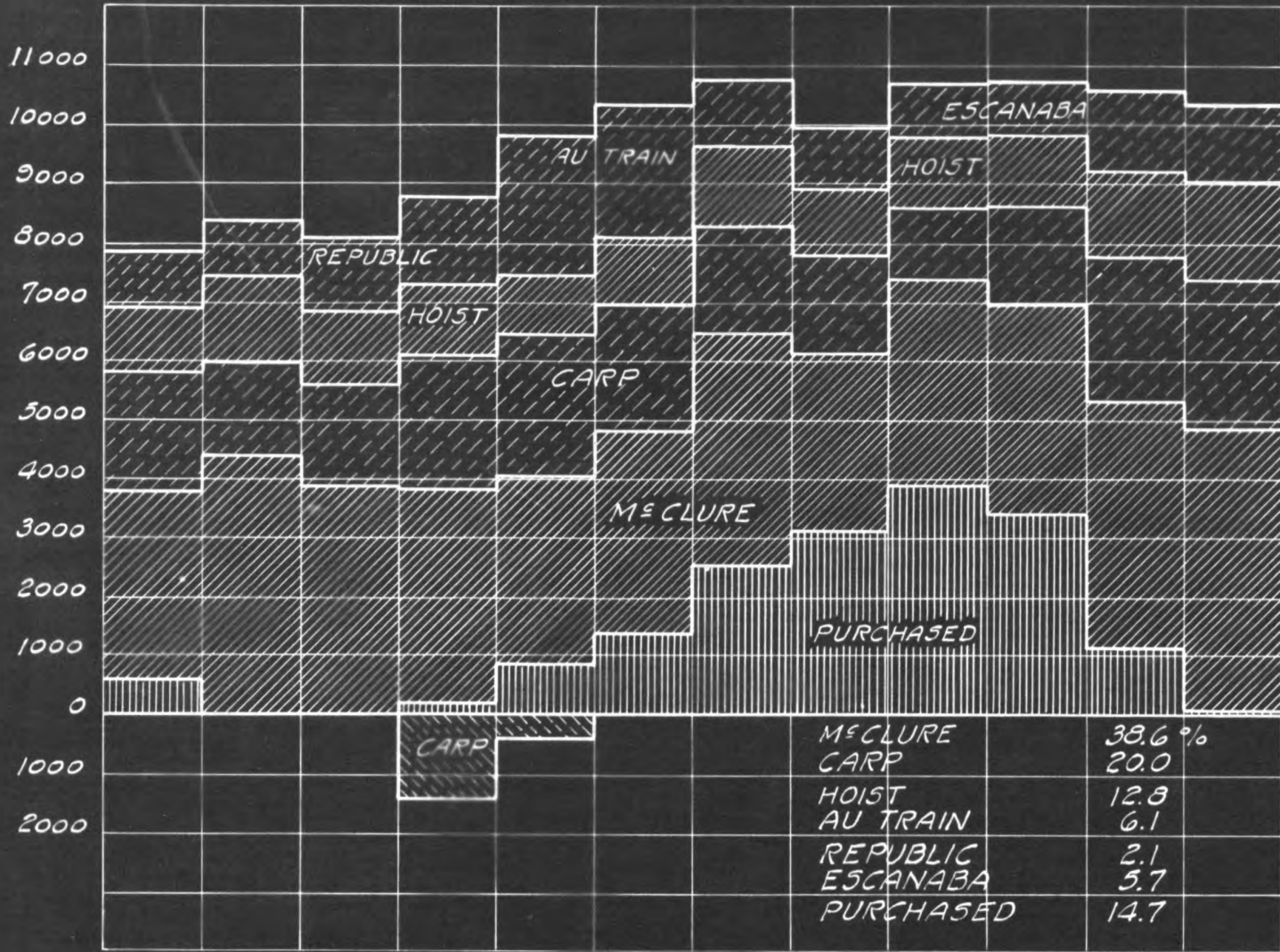
	KILOWATT HOURS GENERATED & PURCHASED								Used by Auxilia- ries	Delivered to Line	KWH SOLD	TRANSMISSION LOSSES	
	McGLURE	CARP	HOIST	AU TRAIN	REPUBLIC	ESCANABA	PURCHASED	TOTAL				K.W.H.	&
Jan.	2,318,800	1,433,400	780,000	179,400	137,000	405,000	407,000	5,660,600	18,191	5,642,409	5,005,769	636,640	11.28
Feb.	3 042 100	1 132 700	973 000	290 730	109 800	264 000	0	5 812 330	19 066	5 793 264	5 068 602	724 662	12.50
March	2 895 700	1 230 200	937 000	575 990	106 400	271 000	0	6 016 290	19 691	5 996 599	5 273 163	723 436	12.06
Apr.	2 712 600	1 690 200	858 000	654 160	150 900	312 000	128 000	6 505 860	19 417	6 486 443	5 816 212	670 231	10.33
May	2 434 800	1 726 200	753 000	661 470	297 100	807 000	601 500	7 281 070	17 103	7 263 967	6 252 553	1 011 414	13.92
June	2 497 100	1 536 400	814 000	664 970	254 600	678 000	975 600	7 420 670	17 146	7 403 524	6 311 839	1 091 685	14.74
July	2 830 800	1 320 300	958 000	400 870	109 900	306 000	1 810 520	7 736 390	17 270	7 719 120	6 792 727	926 393	12.00
Aug.	2 249 500	1 254 900	785 000	379 680	188 400	256 000	2 291 000	7 404 480	17 957	7 386 523	6 434 197	952 326	12.89
Sept.	2 605 200	894 000	896 000	348 660	80 800	251 000	2 874 000	7 949 660	17 563	7 932 097	6 975 063	957 034	12.06
Oct.	2 581 000	1 132 900	878 000	283 730	59 600	325 000	2 457 640	7 717 870	18 089	7 699 781	6 904 752	795 029	10.32
Nov.	3 105 700	1 834 200	1 042 000	252 730	151 700	651 000	832 400	7 869 730	20 065	7 849 665	7 005 886	843 779	10.74
Dec.	<u>3 413 300</u>	<u>1 803 500</u>	<u>1 230 000</u>	<u>462 160</u>	<u>113 700</u>	<u>363 000</u>	<u>44 440</u>	<u>7 427 100</u>	<u>21 161</u>	<u>7 405 939</u>	<u>6 415 460</u>	<u>990 479</u>	<u>13.37</u>
TOTAL	32,686,600	16,988,900	10,904,000	5,154,550	1,759,900	4,889,000	12,422,100	84,805,050	222,719	84,582,331	74,256,223	10,326,108	12.20

1937

JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.

AVERAGE LOAD
KILOWATTS

WATER LOST
KILOWATT EQUIVALENT

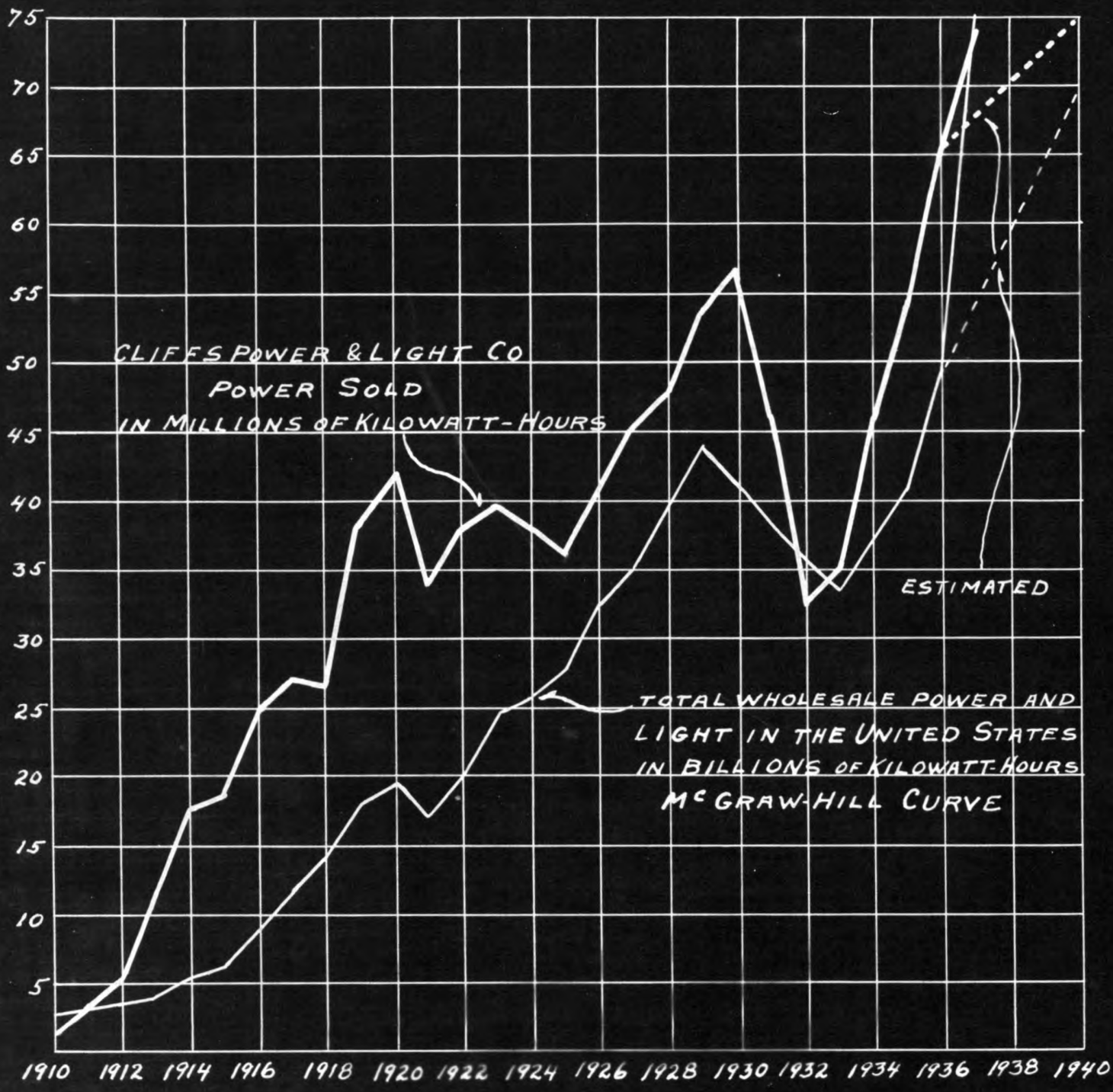


DIAGONAL LINES CURRENT MADE BY WATER POWER

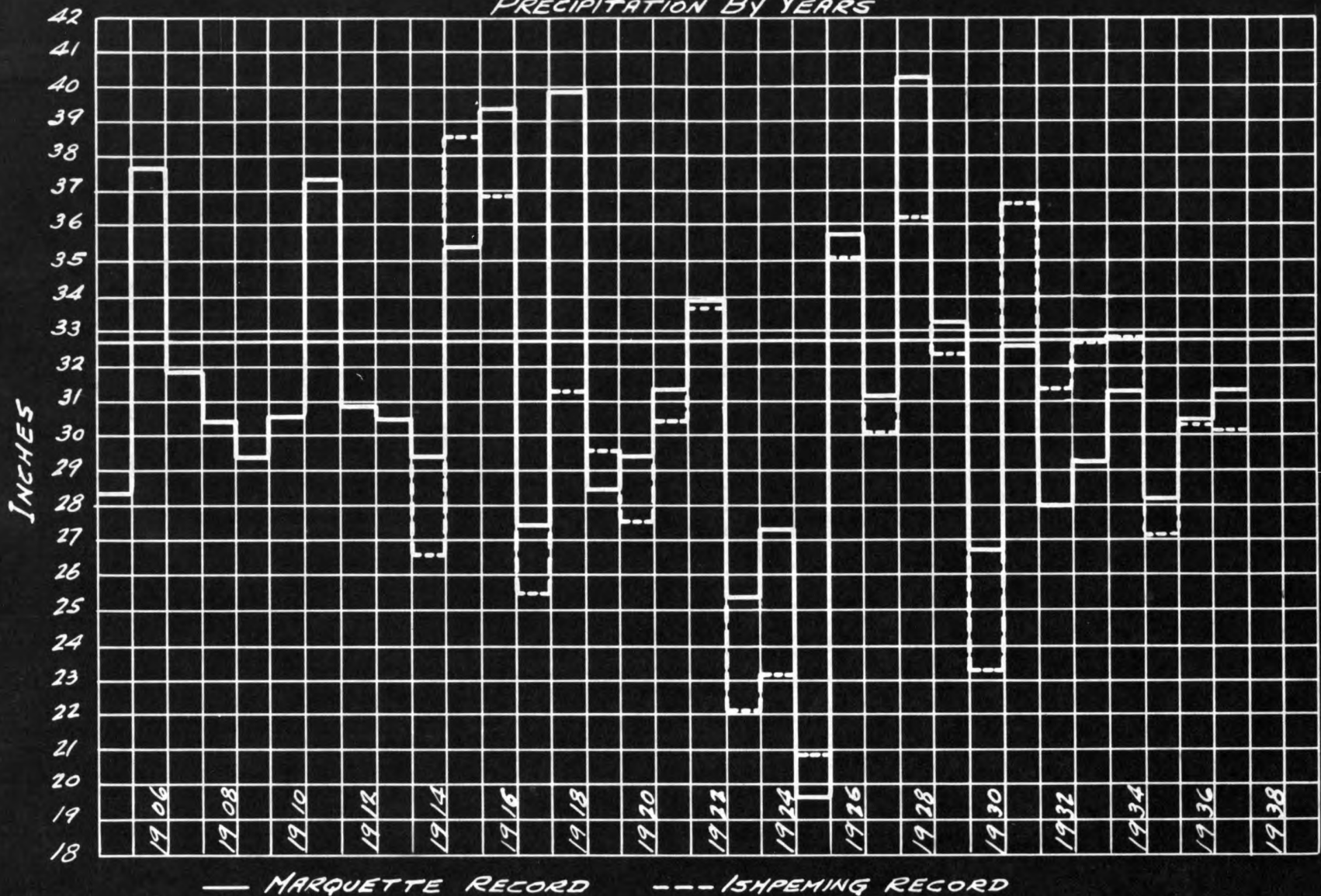
CROSS-HATCHED WATER LOST BY OVERFLOW

VERTICAL LINES POWER PURCHASED

MECLURE	38.6%
CARP	20.0
HOIST	12.8
AU TRAIN	6.1
REPUBLIC	2.1
ESCANABA	5.7
PURCHASED	14.7

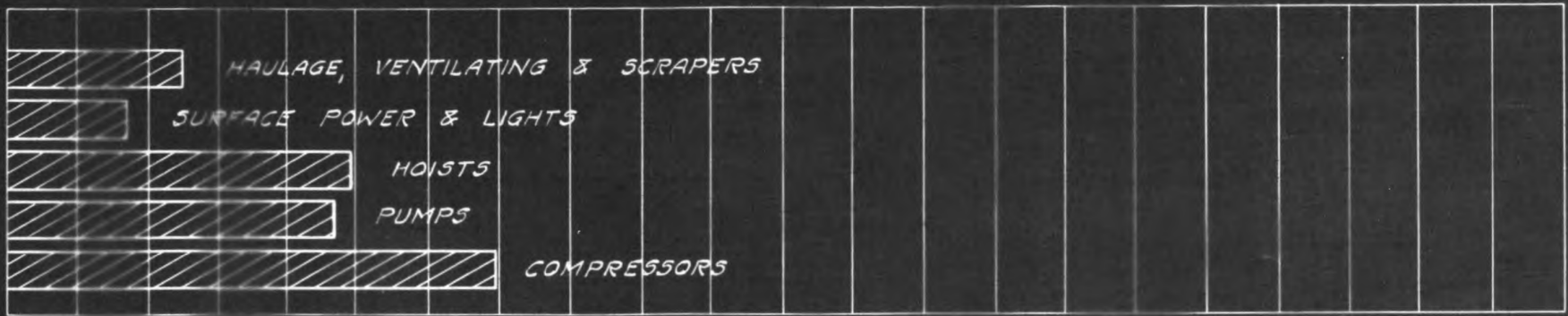


PRECIPITATION BY YEARS



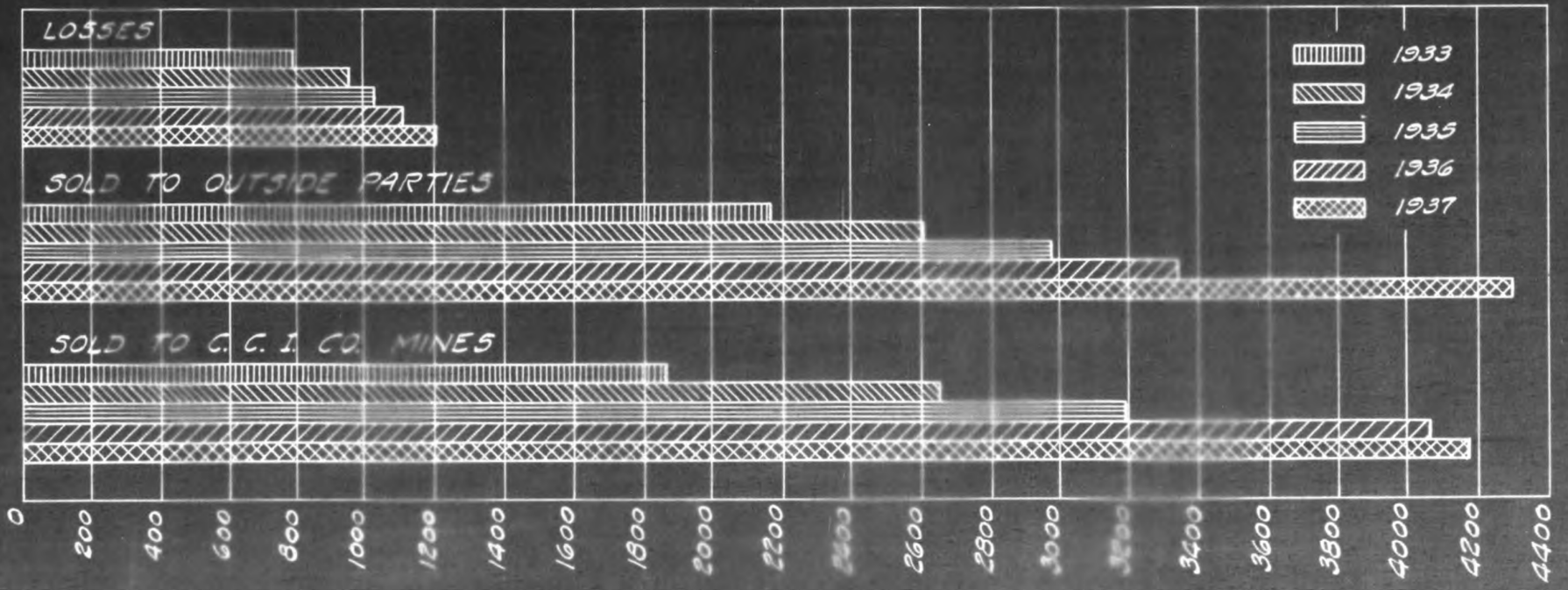
— MARQUETTE RECORD --- ISHPERING RECORD

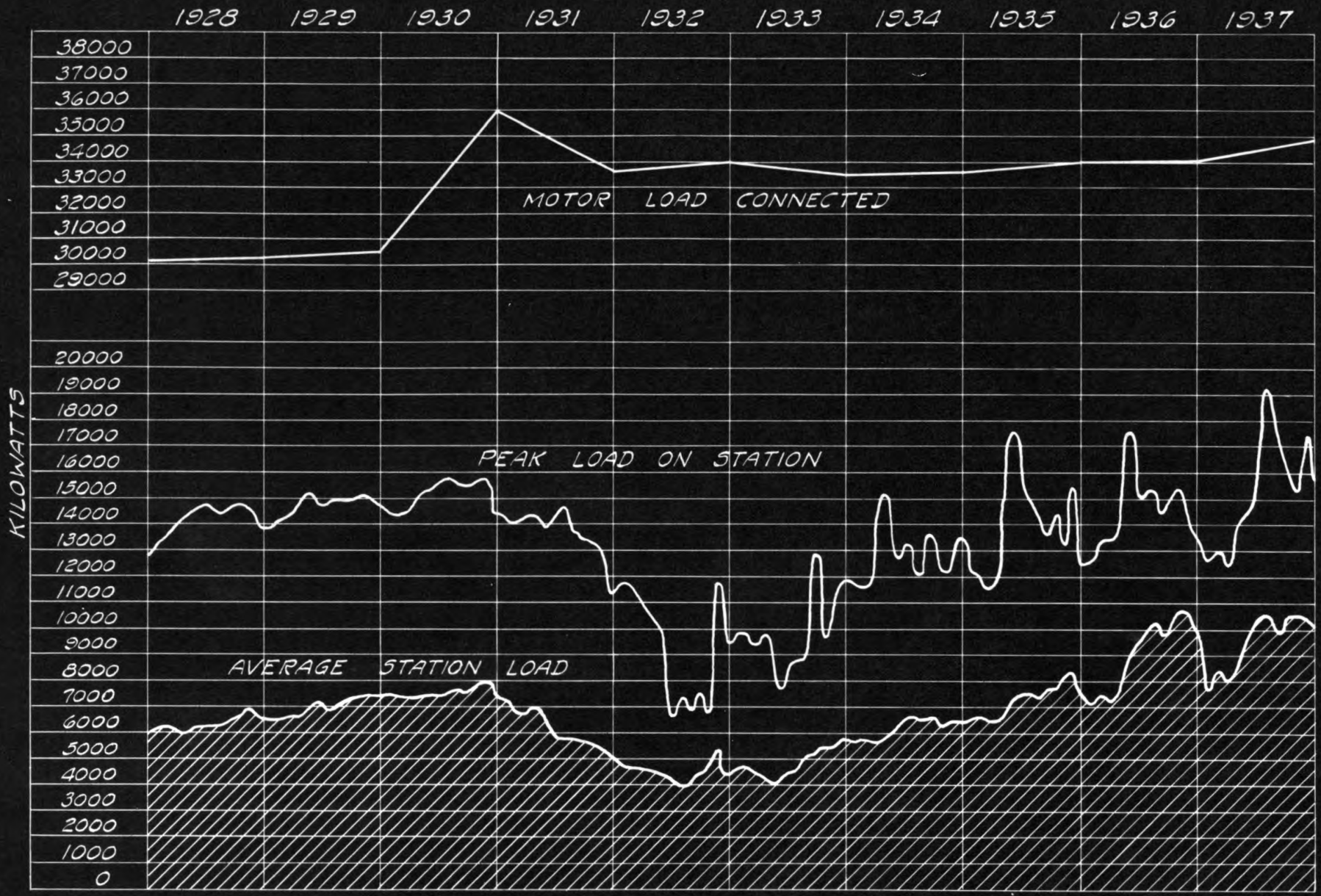
DISTRIBUTION OF ELECTRIC POWER TO C. C. I. CO. MINES - 1937



DISTRIBUTION OF ELECTRIC POWER

1933 - 1934 - 1935 - 1936 - 1937





PENSION DEPT. ANNUAL REPORT YEAR 1937.

The Department has operated in its usual manner, handling the matters of Workmen's Compensation, Group Insurance, Relief, and special services in connection with the various departments. From early in June we have had the assistance of Walter F. Gries, who for some years was Warden at the Marquette Prison.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

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.

We still continue the plan of seeing a man just as soon as possible following an accident either at home or at the hospital. This has served to make the men recognize the advantages of the Workmen's Compensation Law. Usually an agreement with the injured man has readily been secured.

The Michigan Commission has made several changes in the Final Settlement receipt and these have been all unsatisfactory as it has required a statement that a man has completely recovered from his disability. Nine times out of ten when a man goes to work he is not wholly recovered and in some cases does not ever recover to that extent, but is able to work. We have had some difficulty in getting these final settlements and it has been necessary occasionally to ask for a stop order to close the case.

The Safety Department has been very efficient in their work during the year and the supervision at the mines has been excellent. This has made possible the low accident record.

Following is a list of men requiring some special attention during the year:

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

On January 18, 1937 Messrs. Bell, Dawe, and Johnson went to Iron Mountain to be present at the taking of the deposition of Eric Kemppinen, one of plaintiffs' witnesses. Kemppinen did not appear. On January 27, we made a trip to Eric Kemppinen's farm in Ontonagon County where we interviewed Kemppinen and took a statement from him in which he disclaimed any knowledge of an accidental injury suffered by Hendrickson. He told us that at no time had Hendrickson been overcome by gas, that the air at the Spies-Virgil Mine was good, and that he had no recollection of the air line ever being plugged. A hearing was scheduled for February 19, 1937, but this was postponed at the request of Ray Derham, attorney for the plaintiffs. A hearing was held at Crystal Falls on April 6, 1937. The plaintiffs called Eric Kemppinen as a witness, but were unable to prove that Kemppinen was employed at the Spies-Virgil mine at the time of the alleged accident on March 16, 1931. Derham then withdrew his petition. Later in the year Derham filed another petition giving the date of accident as March 16, 1930. We realized that Kemppinen was his key witness, so early in December another trip was made to Kemppinen's farm at which time his statement was read to him. We told him that the date of the accident had been changed, and he said that the statement he gave us applied to all the time that he worked with Hendrickson, and that he knew of no time when Hendrickson had been either injured or overcome by gas or smoke. Another hearing was held at Crystal Falls on December 10, 1937, and at this time Kemppinen testified to an incident in May, 1930 when he said Hendrickson and he were working in a place when the compressor went out of commission. He said the air became very bad and that Hendrickson took sick and vomited. He also said that when they came up they reported this incident to Captain Rogers, the mine foreman. He said he was able to establish the approximate date as being in the first half of May, 1930 as his daughter had died on May 30, 1930, and the Hendrickson incident had occurred two or three weeks

PENSION DEPT. ANNUAL REPORT -YEAR 1937.

11.

a. WORKMEN'S COMPENSATION (Continued)

William Hendrickson (Continued)

before that. Because of the switching of dates we were given additional time to prepare our case. Upon cross examination by Mr. Bell, Kemppinen denied the statement which he had given us in January and confirmed shortly before the December hearing, and all that the statement contained.

JOHN PARIS - Athens Mine - Acc. Rept. No. 342

Paris suffered a back injury at the Athens Mine on September 4, 1936. His recovery was slow, so he was sent to Ann Arbor for examination. The report from there was that he could do light work within a month. He continued to complain of a weak back and later proposed that we send him to Mayo Brothers, he offering to pay his expenses if we would take care of the doctor and hospital bills. The report from Mayo's was that he could do some light work, but it was questionable as to when he would be able to return to mining. It was apparent that this case might drag for some time and even if he would return to light work, he was the type of man that would have to be coddled. He had talked of opening a tavern in the city of Negaunee but had no way of financing it unless he could get a lump sum advance. We offered to redeem the total liability in this case for approximately \$2,000.00. This was satisfactory to Paris so on June 8, 1937 the matter was taken up before the full board and approved by them. When seen in December of 1937 Paris had opened his tavern and was doing a fair business. At that time he claimed that his back was still troubling him a good deal.

CLARENCE LAFRENIERE - Lloyd Mine - Acc. Rept. No. 775

Lafreniere suffered a fractured femur in an accidnet on September 5, 1935 when he was caught by a car against the dipper of an underground loader. He was totally disabled for 13 months and returned to light work on November 18, 1936. He was finally given work as a floorman in the engine house. There is some shortening of the leg with a resultant limp in spite of the build-up of the shoe. After the increase in wages in March, 1937, Lafreniere's wages exceeded his earnings at the time of the accident. As he was not entitled to further compensation, he was asked to sign a settlement receipt. He preferred not to as he claimed his leg was not right, so a routine hearing was held before a deputy commissioner on September 23, 1937 and he issued an order stopping compensation until conditions warranted a change.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

11. a. Workmen's Compensation (Continued)

FATALITIES:

The following fatality occurred in 1937.

<u>Charles Kangas</u> Age 49	Negaunee Mine, Acc. Rept. #620 Occurred May 21, 1937 Fall of ground Widow and one minor child Compensation at \$18.00 per week for 300 weeks	\$ 5400.00
	Funeral Expense	<u>200.00</u>
		\$ 5600.00

Payments on account of the following fatal accident were completed during the year:

<u>Mine</u>	<u>Name</u>	<u>Acc. Rept.</u>	<u>Date of Accident</u>	<u>Date of Final Payment</u>
Cliffs Shaft	Jacob Pihlaja	,1056	7/8/31	4/7/37

PENSION DEPT. ANNUAL REPORT YEAR 1937.

11.

a. Workmen's Compensation (Continued)

Following is a list of the more serious cases occurring during 1937 other than fatalities:

<u>Mine and Report No.</u>	<u>Name</u>	<u>Nature of Injury</u>	<u>Compensation Paid</u>
Athens #345	John Romelli	Sprain & dislocation right ankle.	642.69 *
Cliffs Shaft #1082	Matt Luoma	Loss of 3 fingers & half of thumb - left hand.	612.00 *
Lloyd #785	George Niemi	Fracture of left tibia & fibula.	792.00 *
Negaunee #617	Hugo Johnson	Fell into raise. Bruises about arms, legs & body. Cerebral irritation.	354.35 *
Negaunee #622	Peter Fonzasin	Loss of terminal phalange of 2nd & 3rd fingers right hand.	315.00
Gard.-Mack. #73	Matt Valimaa	Severe contusion with bursitis to right elbow & arm.	434.48 *
Spies-Virgil #145	John Frantti	Loss of left thumb To be paid 60 weeks.	-----

*Payments still being made.

PENSION DEPT. ANNUAL REPORT YEAR 1937

11. a. WORKMEN'S COMPENSATION (Continued)

Compensation Payments including Medical Expense.

<u>Year</u>	<u>C.C.I.Co.</u>	<u>Negaunee Mine Co.</u>	<u>Athens Ir. Mng. Co.</u>	<u>Cliffs Pr. &Light Co.</u>	<u>Mesaba Cl. Mng. Co.</u>	<u>Holman Cl. Mng. Co.</u>	<u>Canistee Cl.Mng.Co.</u>	<u>Alexandria Mine</u>	<u>TOTAL</u>
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	<u>32509.48</u>	<u>8695.66</u>	<u>7235.96</u>	<u>615.72</u>	<u>3647.16</u>				<u>52703.98</u>
Totals \$	1232305.70	165004.78	107912.05	13112. 17	75506.15	2131.39	2768.69	5382.63	1604123.56

ANNUAL REPORT - YEAR 1937

STATEMENT OF COMPENSATION PAYMENTS FROM
JANUARY 1, 1937 TO DECEMBER 31, 1937

	Average No. of Employees	No. of Fatal Accos.	No. of Non-fatal Accidents		Actual Comp. Paid in 1937	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	Estimated Compensation Still Pending	Medical & Special Expense	Fatal Cases Pending	Injury Cases Pending
Cliffs-Shaft	590		10	94	7797.75	864.00				270.00			1828.80	2374.95	936.00	1524.00	14602.80	2274.00	4	2
Cliffs-Shaft Laboratory	15																	94.00		
Chief of Police	1																	6.00		
District Welfare	4																	24.00		
Employer Wood, Winn, District					624.00						624.00									1
Gardner-Mackinaw	149		2	25	550.19									7.71			2700.00	66.56	906.00	1
General Storehouse	163		1	16	101.53														983.00	
General Welfare	3																		20.50	
Geological Department	3																		18.75	
Gwin Office	1																		6.00	
Holmes					904.80			904.30										1705.20		
Isipemng Hospital			2	1	28.00															1
Isipemng Office	20																		122.50	
Lloyd	207		7	72	4106.78			1404.00						38.00	1060.20	1604.58	4398.00		2137.17	7
Maas	497		15	3 167	4760.35					936.00					2178.87	1646.48	6022.16		3270.50	6
Mechanical Engineering	3																		15.00	
Mining Engineering	9																		52.25	
Miscellaneous	3																		16.25	
Purchasing Department	4																		22.50	
Safety Department	1																		7.00	
Shipping Department	7																		42.25	
Spies-Virgil	58		1	2															955.97	
Tilden	48			6	936.00								936.00						2196.00	1
Uncompleted Const. E & A #689					882.00														468.00	
Uncompleted Const. E & A #727			1		144.00														10.00	
Workmen's Compensation Chemical Plant	2				288.16														2694.40	
The Cliffs Power & Light Co.	60		1	5	252.72														365.00	
The Negaunee Mine Company	395	1	10	3 143	6251.91			1872.00	1031.04	11.20					915.20				10933.44	1
The Athens Iron Mining Co.	296		6	1 125	5299.96			85.20	936.00						164.48				1662.08	5
Total - Michigan Mines	2428	1	56	7 657	32927.93	864.00	198.40	2808.00	3339.84	1217.20	725.36	73.60	3844.48	2420.64	8249.38	9189.03	47448.64	16128.89	6	34
Hibbing Office	17																		105.00	
Holman Brown	7																		40.50	
Ganisteo	171		1	21	568.00														1029.50	1
Hill-Trumbull	140		2	1 39	977.16														310.00	1
Total - Minnesota Mines	335		3	1 60	1545.16				667.16						468.00	410.00	4610.91	2102.00	2	1
Total - All Mines	2763	1	59	8 717	34475.09	864.00	198.40	2808.00	4007.00	1217.20	725.36	73.60	3844.48	2420.64	8717.38	9599.03	52059.55	18230.89	8	35

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

PENSION DEPT. ANNUAL REPORT YEAR 1937.

11.
a. WORKMEN'S COMPENSATION (Continued)

ANNUAL STATEMENT OF COMPENSATION PAYMENTS
FROM JANUARY 1st, 1937 to DECEMBER 31st, 1937.

Compensation paid on 1937 accidents	\$	9599.03	
Compensation still pending		52059.55	
Cost of medical and hospital service		<u>18230.89</u>	
Total			\$ 79889.47
Less pending for years 1928 to 1936 inclusive		39856.27	
Less payments on account of Chemical Plant		288.16	
Less medical paid on accidents occurring prior to January 1, 1937		<u>1459.14</u>	
			<u>41603.57</u>
Cost of 1937 accidents			38285.90
Percentage of payrolls			.00817
Number of compensable accidents			60
Number of non-compensable accidents			8
Number of slight accidents			717

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.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

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 17th, 1933 to May 16th, 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.

PENSION DEPT. -ANNUAL REPORT -YEAR 1937.

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 15, 1934, inclusive.

The following statement shows the payments made to date, payments having been made during the year 1937 to the total amount of \$2849.52. There is also shown the estimated deferred liability as of December 31, 1937.

	<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
Total compensation payments	10329.65	3082.88	476.56	24.01	13913.10
Estimated deferred liability	3353.43	1485.12			4838.55
Cost of Accidents	13683.08	4568.00	476.56	24.01	18751.65
Premium earned as above					<u>12765.10</u>
Estimated loss to Insurance Co.					5986.55

PENSION DEPT. ANNUAL REPORT YEAR 1937.

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

PENSION DEPT. ANNUAL REPORT YEAR 1937.

11.

a. WORKMEN'S COMPENSATION (Continued)

There were some changes during the year in the matter of our Michigan Compensation Department. The whole Commission was thrown out by Governor Murphy and the following appointments made:

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 was appointed Deputy Commissioner for this District and has been in service during the year.

At the last session of the legislature the Occupational Disease Law was passed. Various amendments were presented and substitute bill prepared by the Commission but nothing effective occurred. The bill as presented was passed and went into effect on October 29, 1937. This covered the full list of occupational diseases, including silicosis.

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

<u>MICHIGAN LAW</u>	When Law went into effect <u>Sept. 1, 1912</u>	As amended in effect <u>Aug. 14, 1919</u>	In effect <u>Aug. 18, 1921</u>	In effect <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	3000.00	4200.00	4200.00	5400.00
Maximum compensation for total disability	4000.00	6000.00	7000.00	9000.00

PENSION DEPT. ANNUAL REPORT YEAR 1937.

11.

a. WORKMEN'S COMPENSATION (Continued)MINNESOTA COMPENSATION LAW.

There were no changes made in the Minnesota Compensation Law in 1937.

The present members of the commission are as follows:

F. T. Starkey, Chairman
 J. D. Williams
 N. H. Debel
 E. C. Nelson Secretary
 Emily L. Olson, Assistant Secretary.

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

<u>MINNESOTA LAW</u>	<u>When Law went into effect Oct. 1, 1913</u>	<u>As Amended April 26, 1919</u>	<u>As Amended June 6, 1921</u>	<u>In effect since Oct. 1, 1923</u>
Percentage of weekly wage	50	66 2/3	66 2/3	66 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

PENSION DEPT. ANNUAL REPORT YEAR 1937.

11.

b. Benefit Funds.

The general Benefit Funds were wiped out during the year 1927, and a complete record is shown in the annual report for that year.

Reference is made here so that this statement may be readily located at any time.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

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 first policy year ending September 30, 1937. It includes all cases in which disability began prior to September 30, 1937.

	<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	4000.00	46	3239.14	46	7239.14
Gardner-Mackinaw			24	1005.43	24	1005.43
General Roll	2	6500.00	16	1395.13	17	7895.13
General Storehouse			13	784.29	13	784.29
Ishpeming Hospital			5	148.00	5	148.00
Lloyd	2	2500.00	24	1559.12	25	4059.12
Maas	2	2000.00	64	2934.55	65	4934.55
Tilden			3	150.85	3	150.85
Total C.C.I. Co.	9	15000.00	195	11216.51	198	26216.51
The Negaunee Mine Co.	2	3000.00	47	2302.57	48	5302.57
The Athens Iron Mining Co.	2	2500.00	71	2678.01	73	5178.01
The C. P. & L. Co.	1	1500.00	3	43.71	3	1543.71
Total All Companies	14	22000.00	316	16240.80	322	38240.80

Eight of the fourteen 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.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

11.

c. GROUP INSURANCE (Continued)

The following deaths occurred during the policy year:

	<u>Mine</u>	<u>Date of Death</u>	<u>Amount of Insurance</u>
William Mahoney	Athens	1/23/37	\$ 1500.00
Andrew E. Bjorklund	"	7/20/37	1000.00
Fred Paju	Cliffs Shaft	4/ 9/37	1000.00
Matt Pesola	" "	4/18/37	1500.00
Jacob Laakso	" "	10/27/37	1500.00
Carl Johnson	G. P. & L. Co.	8/ 2/37	1500.00
William R. Meyers	General Roll	12/25/36	5000.00
George M. DeRoche	" "	5/23/37	1500.00
James Gravedoni	Lloyd	7/11/37	1500.00
Arthur Francis	"	7/31/37	1000.00
Dennis A. Hickey	Maas	7/25/37	1000.00
Sidney Adams	"	9/30/37	1000.00
Elias Kangas	Negaunee	1/20/37	1500.00
Charles Kangas	"	5/21/37	1500.00

Three of the above deaths were accidental, Charles Kangas being killed at the Negaunee Mine, while George M. DeRoche and Arthur Francis were killed in automobile accidents.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

11.
c. GROUP INSURANCE (Continued)

For the purpose of reference we are enclosing in this report the notice of the increase of death benefit payments in our Group Insurance plan as operated by the Aetna Life Insurance Company. The attached sheet is a notice that was delivered to all of our employees in this district indicating an increase in the Life Insurance of 25%, effective December 20th, 1937.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

11. c. GROUP INSURANCE (Continued)

GROUP INSURANCE NOTICE TO EMPLOYEES

The Cleveland-Cliffs Iron Company
The Negaunee Mine Company
The Athens Iron Mining Company
The Cliffs Power & Light Company

On October 1st, 1936, our employees were given an opportunity to insure under a Group Insurance policy for Life Insurance, and Sickness and Non-Occupational Accident Benefits.

Because of favorable experience the past year, we are now able to increase this Life Insurance with no additional cost to our employees.

Effective December 20th, 1937, the Life Insurance benefits were increased 25% for all employees now insured under our group plan with the Aetna Life Insurance Company.

All employees will shortly receive riders to be attached to their insurance certificates, certifying to the increase in the Life Insurance benefit, as shown in table below:

Class--	Monthly Payment By Employee	Present Insurance Benefits	Insurance Benefits After Dec. 20, 1937
"A"--Life Insurance.....		\$ 1,000.00	\$ 1,250.00
Sickness and Accident.....	\$ 1.35	8.00	8.00
 "B"--Life Insurance.....		 1,000.00	 1,250.00
Sickness and Accident.....	1.70	12.00	12.00
 "C"--Life Insurance.....		 1,500.00	 1,875.00
Sickness and Accident.....	2.25	14.00	14.00
 "D"--Life Insurance.....		 2,000.00	 2,500.00
Sickness and Accident.....	3.10	20.00	20.00
 "E"--Life Insurance.....		 4,000.00	 5,000.00
Sickness and Accident.....	5.00	25.00	25.00
 "F"--Life Insurance.....		 5,000.00	 6,250.00
Sickness and Accident.....	6.15	30.00	30.00

THE CLEVELAND-CLIFFS IRON COMPANY

E.B. Greene, President

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

a. PENSION SYSTEM.

The year 1937 completed the twenty-ninth year of the operation of the pension system.

On January 1, 1933 the pension payments were reduced fifty per cent, those under \$20.00 remaining the same; those over \$20.00 having a minimum rate of \$20.00. Pensions were continued during 1937 at the same rate.

No new pensions were granted during 1937.

The following Mining Department pensioners died during the year 1937:

<u>No.</u>	<u>Name</u>	<u>Date Pensioned</u>	<u>Date Died</u>
23	Gust Anderson	6/ 1/1911	2/18/1937
62	Ferdina Jondreau	3/ 1/1915	11/27/1937
105	Matt Vanhalla	1/1/ 1921	1/25/1937
125	John Korpela	6/ 1/1921	9/14/1937
224	Marcus Lindberg	12/ 1/1927	4/30/1937
235	Captain James H. Rough	1/ 1/1929	5/20/1937
236	Joseph King	1/ 1/1929	6/21/1937

	<u>1936</u>	<u>1937</u>
Number of pensions granted during the year	0	0
Number of deaths	8	7
Number of Old Age pensions in force Dec. 31,	76	69
Average annual pension	\$286.08	284.71

There were no changes in the Furnace Department pension roll during 1937.

On December 31, 1937, there were six pensioners on the Furnace Department pension roll with an average annual pension of \$277.12.

PENSION DEPT. ANNUAL REPORT YEAR 1937

23.

a. PENSION SYSTEM (Continued)

Pension payments for the years 1908 to 1937 inclusive are as follows:

Mining Department.

<u>Year</u>	<u>Old Age</u>	<u>Widows and Orphans</u>	<u>Total</u>
1908	60.10	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	<u>20393.66</u>	<u>0.00</u>	<u>20393.66</u>
	\$ 690132.12	22547.00	712679.12
Payment made by Cleveland Office in 1930	<u>2500.00</u>	<u> </u>	<u>2500.00</u>
	\$ 692632.12	22547.00	715179.12

PENSION DEPT. ANNUAL REPORT YEAR 1937

23.

a. PENSION SYSTEM (Continued)Furnace Department:

The pension payments for the years 1910 to 1937 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	<u>1662.72</u>	<u>0.00</u>	<u>1662.72</u>
	\$ 57782.82	900.00	58682.82

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

a. PENSION SYSTEM (Continued)

Republic Mine.

No new names were added to the pension payroll during the year 1937.

There were eight pensioners on the roll at the close of the year.

The average annual pension for the previous year, 1936, was \$297.55.
The average annual pension for this year, 1937, is \$291.19.

The payments made from October 1, 1920 to December 31, 1937, follows:

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	<u>2853.58</u>

\$134251.29

There were four deaths of Republic Mine pensioners during the year 1937.

<u>Pension No.</u>	<u>Name</u>	<u>Date Pensioned</u>	<u>Date Died</u>
7	Peter Pascoe	6- 1-1921	9-24-1937
17	Matt Hargas	5- 1-1923	3- 2-1937
19	Joseph Geach	5- 1-1923	5-13-1937
34	Harold Gjiers	10- 1-1928	4- 7-1937.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

a. PENSION SYSTEM (Continued)Land Department.

Erick Johnson continued on the pension roll during the year 1937.
His annual pension amounts to \$240.00.

Total pension payments from January 1, 1927 to December 31, 1937,
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	<u>240.00</u>

\$ 3116.88

PENSION DEPT. ANNUAL REPORT YEAR 1937

23.

b. Republic Mine Funds

In the report for 1930 will be found a full statement of the Sick Benefit Relief and Fatal Accident Funds.

When the balance remaining unpaid to the men was turned over to the Marquette Chapter of the Red Cross, a small amount was retained in the Miners' National Bank to take care of any outstanding checks or any claims made by people who had paid into this fund and who had not been reached in any way during the period of the disposal of the funds. We have not had any claims now for two years and as now seven years have elapsed since the distribution was made, it would seem unnecessary to keep the funds any longer. These funds were in the custody of the Miners' National Bank when it was closed and distribution to the other bank has been made from time to time as funds were available. During 1937 the last transfer was made, so that the funds are now in the Miners' First National Bank, and the following statement shows the funds now in the two accounts:

Republic Mine Relief and Sick Benefit Fund.

Miners' First National Bank:	
On hand December 31, 1936	\$ 61.91
Transferred August 3rd, 1937	4.27
Interest for 1937	<u>1.25</u>
Total	\$ 67.43

Republic Mine Fatal Accident Fund.

Miners' First National Bank:	
Balance on hand December 31, 1936	\$175.98
Transferred on August 3rd, 1937	12.28
Interest for 1937	<u>3.56</u>
Total	\$191.82

According to the vote of the Club at the time the organization was dissolved and the money turned over to the Red Cross, the unexpended balance would be turned over to the Red Cross to be used for any relief projects or work in Republic. We presume the proper procedure would be to have these funds now remaining in the Miners' First National Bank also turned over to the Red Cross.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

c. Suspense Funds.

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

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).

PENSION DEPT. ANNUAL REPORT YEAR 1937

23.

d. Visiting Nurses.

The following is the report of the Ishpeming Visiting Nurse for the year 1937:

Total number of patients cared for during year	757
Number of new cases cared for during year	340
Total number of visits to patients	5327
Number of families visited for the first time	69
Number of social calls	30
Number died	3

Classification of new cases for the year:

Number of adults	182	Male	21	Female	161
Number of children	158	Male	75	Female	83

Nationalities of new cases for the year:

American	260	Irish	4
English	18	Italian	14
Finnish	22	Norwegian	3
French	1	Swedish	18

Diseases and number of new cases:

Abscess	1	Frost Bite	11	Pleurisy	3
Anemia	2	Heart Trouble	8	Post Operative	25
Appendicitis	6	Hypertension	3	Prenatal	18
Asthma	2	Infants, Newborn	27	Pul. Tuberculosis	2
Baby Welfare	13	Infections	23	Rheumatism	4
Bowel Trouble	6	Influenza	34	Rupture	3
Bronchitis	4	Injury	20	Scarlet Fever	1
Burns	3	Kidney trouble	1	Stomach Trouble	13
Carcinoma	1	Miscarriage	1	Tonsillitis	9
Cold	14	Neuritis	1	Unclassified	12
Cystitis	6	Obstetrical	21	Undiagnosed	9
Diabetes	3	Otitis Media	2	Var. Ulcer	4
Dysentery	2	Paralysis	2	Whooping Cough	14
Fracture	1	Pneumonia	15		

Visiting Nurse: Miss Myrtle Welander.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

d. Visiting Nurses (Continued)

The following is the report of the Negaunee Visiting Nurse for the year 1937:

Total number of patients cared for during year	1027
Number of new cases cared for during year	632
Total number of visits to patients	4167
Number of families visited for the first time	40
Number of families investigated 3 No. of investigation calls	5
Number of social calls	515
Number died	6

Classification of new cases for the year:

Number of adults	357	Male	109	Female	248
Number of children	275	Male	119	Female	156

Nationalities of new cases for the year:

American	370	French	13
Danish	2	Italian	63
English	12	Swedish	10
Finnish	162		

Diseases and number of new cases:

Anemia	9	Heart Trouble	4	Pneumonia	19
Appendicitis	24	Infants, Newborn	18	Post Operative	66
Apoplexy	1	Infections	22	Pregnancy	15
Asthma	3	Injury	37	Pul. Tuberculosis	2
Bowel Trouble	21	Insanity	2	Pylitis	2
Bronchitis	4	Kidney Trouble	4	Quinsy	6
Burns	9	Lumbago	3	Rheumatism	9
Carcinoma	1	Mal-Nutrition	35	Rupture	2
Chicken Pox	4	Mastoiditis	9	Scarlet Fever	6
Cholecystitis	4	Migraine	1	Sore Eyes	8
Cold	34	Measles	2	Sprains	7
Croup	2	Neuralgia	1	Stomach Trouble	5
Cystitis	4	Neuritis	1	Theombosis	1
Eczema	2	Obstetrical	20	Tonsillitis	16
Epileptic	1	Otitis Media	7	Unclassified	9
Gen. Debility	1	Paralysis	1	Var. Ulcer	5
Grippe	157	Pleurisy	3	Var. Veins	3

Visiting Nurse: Miss Ina E. Atkin.

PENSION DEPT. ANNUAL REPORT YEAR 1937

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	757	340	21	161	75	83
Negaunee	<u>1027</u>	<u>632</u>	<u>109</u>	<u>248</u>	<u>119</u>	<u>156</u>
	1784	972	130	409	194	239

	<u>Total No. of visits</u>	<u>Number Died</u>	<u>Social Calls</u>	<u>Families Visited for the first time.</u>
Ishpeming	5327	3	30	69
Negaunee	<u>4167</u>	<u>6</u>	<u>515</u>	<u>40</u>
	9494	9	545	109

NATIONALITIES OF CASES:

	<u>American</u>	<u>Danish</u>	<u>English</u>	<u>Finnish</u>	<u>French</u>
Ishpeming	260	0	18	22	1
Negaunee	<u>370</u>	<u>2</u>	<u>12</u>	<u>162</u>	<u>13</u>
	630	2	30	184	14

	<u>Irish</u>	<u>Italian</u>	<u>Norwegian</u>	<u>Swedish</u>
Ishpeming	4	14	3	18
Negaunee	<u>0</u>	<u>63</u>	<u>0</u>	<u>10</u>
	4	77	3	28

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

f. North Lake Club.

Work at the Clubhouse has continued throughout the year under the supervision of Mr. C. J. Stakel. John A. Peterson, clerk at the Lloyd Mine, has acted as Treasurer and Dewey Urquhart as Superintendent. He has been quite ill during the last half of the year, but is now at work regularly.

The Inland Steel Company has cooperated in the operation of the Club and the officials have assisted in the work of the building. The Club still continues to be very useful in the community.

Following is the financial statement showing the receipts and expenditures:

<u>RECEIPTS:</u>	<u>TOTAL TO 8/31/37</u>	<u>TOTAL FOR YEAR</u>
Membership Fees	\$ 307.50	\$ 459.00
Bowling Alleys	415.60	627.18
Pool and Billiards	42.35	56.00
Telephone Tolls	16.64	25.76
TOTAL	<u>782.09</u>	<u>1,167.94</u>
 <u>EXPENDITURES:</u>		
Building Maintenance	129.65	129.65
Equipment	7.81	14.28
Lighting	65.70	107.15
Heating	276.89	470.14
Water	40.00	60.00
Bowling Alley	262.25	625.38
Pool Room	2.25	4.50
Office Expense-Telephone	33.75	50.64
Salaries and Wages	1,360.25	2,094.75
Reading Room	22.50	22.50
Miscellaneous	12.65	18.86
Telephone Tolls	16.04	25.06
Personal Injury Expense	24.63	43.98
Unemployment Ins. Tax	24.63	43.98
Old Age Benefit Tax	11.78	21.08
Fire & Boiler Insurance	82.96	141.23
TOTAL	<u>2,373.75</u>	<u>3,873.18</u>
 Deficit	 1,591.66	 2,705.24
Charged to Inland	640.00	960.00
Balance to Lloyd	\$ 951.66	\$ 1,745.24

PENSION DEPT. ANNUAL REPORT YEAR 1937.

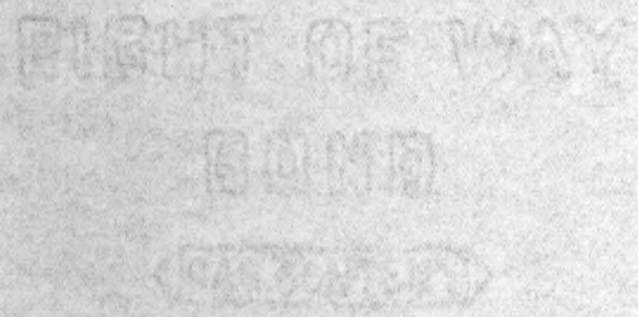
23.

g. GWINN ASSOCIATION.

Mr. E. L. Miller has continued in charge of the work at the Club House as Superintendent throughout the year. He has been ill during the latter portion of the year and was at Mayo Brothers, Rochester, Minnesota for some period. He has now returned and has resumed his work and we hope that the improvement in his physical condition may continue.

After our properties shut down, a new plan of operation went into effect on October 1, 1927. At this time the Company reduced its salary payments to \$50.00 per month, paying this amount in order to retain control and supervision of the Club.

In November, 1932 it was decided to reduce the payment made by the men to 25¢ per month, the Company paying an additional 25 cents. This plan of assistance to the Club has been continued through 1937. The principle support of the Association comes through the employment of Mr. Miller by the School Board as athletic instructor for the schools and this has made it possible to keep the Club House open and as the following report shows it is doing a most excellent piece of work.



PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

g. GWINN ASSOCIATION. (Continued)

The following report and summary of the activities of the Association Clubhouse is taken from the records kept daily during the year. The report includes activities taking place in the clubhouse and those that are supervised by other agencies but where the equipment and sponsorship is furnished by the club, whether taking place indoors or on some location outdoors.

MEMBERSHIP:

Number on roll January 1st, 1937	235
Number on roll January 1st, 1938	203
High membership for year - June	257
Low membership for year - December	203
Average monthly membership	237

ATTENDANCE:

The estimated attendance at the building showed very little change over the previous year, although the summer attendance showed a decrease. The fall and winter attendance was greater, and no doubt this fact can be expected to continue, as, during the summer months, the members of the Club are becoming more interested in securing cottages on lakes. Also, many are enjoying new cars the past summer.

Total estimated attendance at building during the year	66400
Average monthly attendance	5533
High monthly attendance- January	8375
Low monthly attendance -July	2850

The outdoor activities showed an increase in the number of participants taking part, but a drop in the attendance of spectators at the various events.

The following estimated attendance covers spectators and participants at three playgrounds, tennis, horseshoe, and loopball courts; baseball and softball for men and boys; ice skating rink, and supervision of city baseball team, and Bass Lake Cottage and grounds, 12850.

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

Total Receipts, including 1936 balance (\$1,388.03)	\$ 5797.28
Total Expenditures 1937	<u>4193.54</u>
Balance January 1, 1938	\$ 1603.74

BUFFET, BILLIARDS, BOWLING ACCOUNTS:

Receipts for year	\$ 640.00
Expenditures for year	<u>337.29</u>
profit	\$ 302.71

Buffet Inventory January 1, 1938	\$ 55.00
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PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

g. GWINN ASSOCIATION (Continued)

GENERAL ACTIVITIES AND ORGANIZATIONS USING BUILDING:

- 11 general committee meetings.
- 12 meetings; 1 social; 1 dance; 1 picnic; by Town Club.
- 17 meetings by Women's Study Club.
- 12 dancing parties by High School students.
- 2 dancing and cribbsge parties by Married Folks.
- 1 dinner party by teachers' Club.
- 1 dinner party by Marquette County Boy Scout leaders.
- 5 meetings by Forsyth Township Sportsmens Association.
- 1 meeting by Ex-Service men.
- 21 class sessions by Cleveland-Cliffs Iron Company employees.
- 11 rehearsals for local talent plays.
- 1 dinner party by Girl Scouts.
- 8 dancing classes by High School students.
- 5 showers by women.
- 25 nights play in men's cribbage league.
- 13 sessions play in women's cribbage and bridge league.
- 6 meetings for women in State Extension Educational Course.
- 25 total number of dances by different organizations.
- 3 dances by Girl Scouts to raise funds.
- 103 lunches or dinners served by different organizations.
- 25 requests for chairs, dishes, and other equipment for home parties.
- 3 social dances by different organizations.
- 182 sessions kindergarten school.

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

- Annual Easter Monday Ball by Town Club
- Annual Junior Prom by Junior Class High School
- Annual Scout Ceremonial by Local Scout Council
- Annual Hallowe'en Party for Entire Junior High School.
- Annual Hunter's Ball by Sportsmen's Association
- Annual Christmas Treat for Children by Entire Community.
- Annual New Year's Eve Ball by Fire Department.

Church Organizations using building; (not included in above)

- 12 choir rehearsals by Methodist Choir.
- 10 meetings by Methodist Ladies Aid.
- 1 social by Epworth League.
- 2 rummage sales by Ladies Aid.
- 2 entertainments by Methodist Church.
- 9 meetings and card parties by St. Anthony's Guild.
- 12 meetings by Gwinn Ladies Guild.
- 2 meetings by Swedish guild.
- 11 meetings; 1 entertainment by Gwinn Missionary Society.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

g. GWINN ASSOCIATION. (Continued)

ASSOCIATION BAND.

The Association Band discontinued rehearsals owing to a lack of cornet players. However, they were able to get together for the Memorial Day service. There is some indication of an effort to re-organize the band the coming winter. The local school band filled in when band music was required.

LIBRARY AND READING ROOM.

With the help of NYA girls, all books in the library were again checked and those needing repairs were given attention. During the year 64 new books were added and 19 in bad condition were discarded.

Number of books loaned on cards during year 1970.

During the year the reading room was moved into the general lobby and the room vacated was remodeled into a room to be used for supervised card playing. The arrangement is very satisfactory, as the new reading room is more easily supervised.

During the year the Club subscribed for a two-year period for 25 of the better weekly and monthly magazines.

Weekly magazines	7	Daily Newspapers	2
monthly magazines	18	Weekly newspapers	2

SUPERVISED CARD PLAYING LEAGUES.

The men's Cribbage League was again organized with 48 members and a 20 week schedule will be played, with games every Wednesday night. The schedule is divided into two sections and lunch is served at the end of each section.

The women's Bridge and Cribbage League is very successful; play is held every other week. Married couples held two joint cribbage and dance socials during the year.

BOWLING.

The senior league for men consisted of ten 3-member teams and all teams completed their required schedule of games. During the season a tournament was held for team, double and single events. The indications are that there will not be as many teams entered in the league this year owing to the fact that many members interested in the sport will be working on the afternoon shift at the mine.

The women's league was very successful and the four teams entered completed a schedule of 45 games for each team. The league organized for the coming season will consist of eight teams.

Many married couples made it a practice of getting together in the bowling alleys on Saturday night to enjoy the pastime.

High School students, boys and girls are given instruction without charge in bowling and billiards as part of their physical education program.

PENSION DEPT. ANNUAL REPORT YEAR 1937

23. g. GWINN ASSOCIATION. (Continued)

PHYSICAL AND ATHLETIC DEPARTMENTS.

This includes all activities in the gymnasium and all outdoor recreations, such as supervising work at the school and other playgrounds, baseball leagues, softball leagues, management of Association baseball team, sponsoring ice skating rink, tennis, horseshoe and loopball courts, and supervision of Bass Lake Cottage and grounds.

Employees of the Association continue to supervise the High School physical training program and act as coach of their athletic teams. The Association furnishes most of the equipment to carry on activities on playgrounds where supervision is done by other agencies. The High School classes closed their gymnasium work with a physical educational demonstration with 200 taking part and 200 spectators attending.

Summary of Supervised Work: Gymnasium.

	<u>Periods</u>	<u>Attendance</u>
High School classes (Girls)	167	3782
High School classes (Boys)	204	4691
High School basketball practice	78	1024
Junior Boys (Saturday morning)	12	1200
Senior men - Misc. games	64	492
Women- badminton, handball & Volleyball	8	56
Tap dancing classes - women	25	520
(Swimming pool not operated)		
Total	<u>558</u>	<u>11765</u>

The following basketball games were played under Association supervision:

High School team played 6 games at home - 8 away.
 Club Team played 3 games at home - 8 away.
 Junior League and tournament played 73 games.
 Attendance at all home games and practice sessions 3675.

Tennis, Horseshoe and Looptennis Courts, and playgrounds:

The tennis court was in condition 89 days. Attendance 550
 Horseshoe court and playground attendance 3200
 Softball teams played 60 supervised games.
 Association baseball team played 7 games at home and 7 away.
 Attendance at all games and 47 practice sessions 7000

Ice Skating Rink:

The Association sponsored a much larger rink, securing permission from The Cleveland-Cliffs Iron Company for the use of four lots near the clubhouse and with the help of outside agencies the rink was kept in condition for 43 days; attendance 4000.

BASS LAKE CAMP.

The attendance at the grounds this season was below other years, due to the fact that the lake property was posted to the effect that the camp grounds were to be used only by Cleveland-Cliff Company employees and residents of Gwinn.

PENSION DEPT. ANNUAL REPORT YEAR 1937

23. g. GWINN ASSOCIATION. (continued)

BASS LAKE (Continued)

During the year there were:

114 basket picnics
934 bathers
533 fishermen and visitors holding basket picnics.

The following had use of Cottage:

Girl Scout troop No. 1 -	attendance	16
Girl Scout troop No. 2 -		15
Boy Scout troop No. 1 -		20
4 families		45
High School girls		6
Maas Mine surface crew picnic		40
2 church picnics		200
Sportsmen's annual rabbit feed		45
2 Town Club picnics		40
Total attendance at Cottage and grounds		1400.

SCOUT ACTIVITIES:

The Association now sponsors two troops of Girl Scouts and one troop of Boy Scouts. The older troop of girls has been organized since 1920; the troop for boys was organized in 1936.

All troops had a very active year under splendid leadership and members of the Local Scout Council are well pleased with results.

The following summary covers all Scout activities, both boys and girls.

Meetings- class work and social events	131
Attendance at all meetings indoor or out	2295
27 lunches or suppers were held; this includes lunches after meetings indoors, or after hikes, or swimming parties outdoors.	
8 all-day picnics	
12 hikes for instruction	
3 dances to raise funds.	
3 skating parties	
3 swimming parties	
1 Christmas party	
1 dinner party	
1 annual Mother's Day party	
1 Annual Ceremonial.	
31 girls attended Scout Camp at Bass Lake.	
40 boys attended Scout Camps at Bass Lake and Ross Lake.	

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

g. GWINN ASSOCIATION. (Continued)

BUILDING.

During the summer Company employees painted all outside woodwork and during December installed a new hot water tank. The building was kept in good condition, all floors were re-varnished and toilet rooms re-decorated. Bowling alleys were re-conditioned, new pins purchased, and one pool table recovered with cloth.

The Association continues to receive financial assistance from the local Board of Education, the Cliffs Power & Light Company, and from The Cleveland-Cliffs Iron Company.

All departments were operated except the swimming pool, and some equipment was replaced in gymnasium.

During the coming year it will be necessary to give some attention to the roof as there are several places that need repair.

During the summer the donor of the building, Mr. Wm. G. Mather, accompanied by Mrs. Mather, paid an inspection visit to the building.

PENSION DEPT. ANNUAL REPORT YEAR 1937

23. g. GWINN ASSOCIATION (Continued)

On hand January 1, 1937	\$ 1388.03
Total Receipts	<u>4409.25</u>
Total	5797.28
Total Expenditures	<u>4193.54</u>
Balance	<u>\$ 1603.74</u>
<u>Receipts</u>	
Membership Fees- men	1215.00
Rent	2505.00
Bowling alley	189.00
Pool and Billiards	184.00
Buffet	267.00
Towels and soap	13.00
Camp	25.00
Telephone	<u>11.25</u>
	<u>\$ 4409.25</u>
<u>Expenditures.</u>	
Building, maintenance	54.16
Building, repair	10.55
Equipment	39.66
Lighting	3.30
Heating	174.73
Water	14.40
Bowling alley	110.95
Pool and Billiards	2.00
Buffet	224.34
Stationery & Printing	7.20
Entertainments	39.16
Towels and soap	2.50
Laundry	2.50
Office Expense	27.58
Camp	17.91
Salaries	3150.00
Grounds	6.00
Library	23.17
Readingr room	88.20
Athletics	137.38
Telephone	<u>57.85</u>
	<u>\$ 4193.54</u>

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

h. ISHPEMING Y.M.C.A.

The building was closed on October 31, 1935, and has remained closed ever since, except that some relief workers occupied the building making garments for a short time, and at another time a prospecting party from Canada, looking for gold north of Ishpeming, occupied the building. The building has also been used for occasional purposes during the summer when it was not necessary to heat the building.

Arrangements were made with the Boy Scouts of the County to assume the responsibility of the Ross Lake Camp and a deal was made with them for the property. The understanding was that the boys and girls of Ishpeming should have the use of the facilities there as required during the summer for camp activities.

During the latter part of the year 1936 an effort was made to interest the City in the matter of the use of the building as a community enterprise. The Industrial Association and other organizations undertook this summer the raising of sufficient funds to take care of the outstanding indebtedness with the idea that it then could be turned over to the City on some basis for community work to be carried on by the City. The financial campaign was not successful in raising the amount of money required and it is hoped that this will be continued in the spring of 1938 to bring about the desired results, if possible.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

i. Safety Work.

Meetings of the Central Safety Committee were held when necessary throughout the year to discuss accidents which had occurred or any matters requiring the action of the Committee.

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. H. Moulton, Secretary.

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

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

j. HOSPITALS AND MEDICAL SERVICE.

Throughout the year this Department has kept in close touch with the hospitals in Ishpeming and Iron River, and with the dispensary service at Negaunee and Republic, and with the branch at Gwinn.

Ishpeming Hospital.

The Ishpeming Hospital has maintained its standard of fine service to the community and has continued on the accredited list of the American College of Physicians and Surgeons. This institution is generally regarded as among the best in the Northern Peninsula of Michigan.

Miss Hildur Swanson, R.N., has continued in charge as Superintendent, having taken over her work as Superintendent on July 1, 1930.

The work of the hospital staff and force has been superior in every way. The operating costs for the year establish a good record.

The staff of the Ishpeming Hospital is made up of the following:

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

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

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

During the year regular meetings of the staff have been held each month with Dr. Vandeventer as Chairman.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23. j. HOSPITALS (Continued)

ISHPEMING HOSPITAL
STATISTICAL REPORT FOR THE YEAR 1937.

Number of patients remaining in hospital at beginning of year		34
Number of adult patients admitted	1030	
Number of child patients admitted	107	
Number of births	<u>209</u>	
Total new patients for the year		<u>1346</u>
Total of all patients for the year		<u>1380</u>
Number of deaths	64	
Number discharged during year	<u>1283</u>	
Total number leaving hospital		<u>1347</u>
Number of patients remaining in Hospital Dec. 31, 1937		33
Classification of new cases:		
Surgical	209	
Medical	642	
Obstetrical	267	
New Born	<u>228</u>	1346
Number of operations		495
Number of emergency room operations		52
Number of patient days		14410
Number of meals for patients	43221	
Number meals for nurses, Superintendent & Dietitian	21641	
Number meals for physicians and guests	178	
Number of meals for help	<u>5881</u>	
Total number of meals		70921
Average number of patients per day:		
1919	12.2	
1920	17.6	
1921	15.9	
1922	16.5	
1923	20.1	
1924	20.5	
1925	19.9	
1926	21.3	
1927	21.8	
1928	25.4	
1929	30.1	
1930	31.4	
1931	29.9	
1932	21.8	
1933	19.6	
1934	28.9	
1935	36.0	
1936	38.0	
1937	38.2	

PENSION DEPT. ANNUAL REPORT YEAR 1937

23.
j. HOSPITALS (Continued)

Negaunee Hospital.

The building formerly used as a hospital in Negaunee has been used now for several years for the doctors in the Negaunee district as an office building and dispensary. This plan works out excellently and is a fine service to employees in the Negaunee district. All hospital cases are cared for at the Ishpeming Hospital.

The large number of employees at the mines in the Negaunee district made it necessary to add a physician to the staff at the Negaunee dispensary. Dr. Miles Gullickson, who came with superior recommendations, experience, and training, undertook his work on September 6th, 1937.

During the late fall the Negaunee dispensary underwent necessary repairs and redecorating. The interior of the building is again in good condition and presents a pleasant atmosphere. The outside is in need of paint.

A new four-stall garage was erected in the fall. It replaces an old, inadequate structure and provides ample car space for the three doctors and the visiting nurse.

Republic Hospital

The Republic hospital has been kept open for emergencies and for Dr. Van Riper, of Champion, who holds a daily office hour there. Dr. Van Riper takes care of practically all the medical work in the Republic district. He is exceedingly considerate and does much work as a physician for which he can expect no payment. He receives some remuneration for cases which can be turned over to the County Poor Commission as he acts as a physician for the Poor Commission in Republic. Dr. Van Riper attends not only cases of men who formerly worked for our Company but he is also called upon to take care of families of men who work for the Inland Steel Company and the North Range Mines and who live in Republic, Champion, Ely and Humboldt Townships.

An effort was made during the year to interest the Board of Education of Republic Township to make plans for taking over the management of the building formerly used as a hospital in Republic. At present this building is under lease to the Republic Improvement Association, but practically nothing has been done by the Association to maintain the building. Money which remained in the old Republic Benefit Fund was turned over a few years ago to the Marquette County Chapter of the American Red Cross to be used, as long as it lasted, for general relief work in Republic. This fund, which now amounts to about \$600.00, has provided fuel and some repair work for the Republic hospital building. It is planned to contact the Board of Education again in the spring so they may plan their 1938-1939 budget to include upkeep and management of the Republic hospital.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.
j. HOSPITALS (Continued)

Gwinn.

Dr. C. A. Serbst became our physician at Gwinn on May first, 1936. He has been a conscientious worker and maintains his office in the home which has been used as the doctor's residence for a long period. He has kept in touch with this Department. All hospital cases are brought to the Ishpeming Hospital.

Iron River.

The new hospital at Iron River, now in its sixth year of service, continues to function satisfactorily. During the year Dr. Libby has been contacted several times in connection with physical examinations of men at the Spies-Virgil mine.

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.

The above paragraph is put in each annual report to show the date on which the new rate of payments became effective.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

j. MEDICAL SERVICES (Continued)Physical Examination of Employees.

The arrangement with the Trudeau Foundation of Saranac, New York, continued throughout the year with excellent results. The contract runs from November first to October thirty-first.

Mr. R. F. Libby continues as a representative of the Trudeau Foundation and he has charge of the X-ray examinations. During 1937 a large number of new men were given physical examinations and re-examinations of employees were continued. The examination of new applicants for employment and the re-examinations of old employees is more important than ever due to the passage of the new Occupational Disease legislation in Michigan.

The following examinations have been made up to December 31, 1937:

The Cleveland-Cliffs Iron Company	3092
Cliffs Power & Light Company	83
Athens Mine	637
Negaunee Mine	763
Inland Steel Co.,	919
Pickands, Mather & Co.,	73
Richmond Iron Co.,	82
Republic Steel Co.,	401
Calumet & Hecla Co.,	25
North Range Mining Co.,	272
Oliver Iron Mining Co.,	211
Marquette Co. Road Comm.	9
Total	6567

Mr. Don Cummings, Manager of the Trudeau Foundation field staff, held conferences with this Department early in the year and again during the last few months of the year. Mr. Cummings now lives in Denver, Colorado. He spent some time during the year at a sanatorium at Englewood, near Denver, but during the last few months of the year he visited this Department several times.

During the year we also had a visit from Dr. L. U. Gardner and Dr. H. L. Sampson, of Saranac Lake, New York.

The films of every man examined are sent to Saranac to be studied by Dr. Sampson. He reports to us the findings in each case and a complete file is kept on every employee. Special cases are discussed with the mine superintendents and heads of departments. Cases requiring special treatment because of recommendations or suggestions made by Mr. Cummings are taken up with the General Manager, Mr. S. R. Elliott.

This phase of the physical examinations of employees has been carried on for several years with satisfactory results. The Company, as well as the employees, are benefitted by this program of health promotion and maintenance.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

k. HEALTH.

The communities surrounding the mines, as well as other communities in Marquette County, have been free from any epidemics or illnesses during 1937. The health activities in the larger communities- Ishpeming, Marquette, and Negaunee- are under the supervision of active health officers and nurses.

In addition to health officers the three cities, Ishpeming, Marquette, and Negaunee, also have full-time school nurses.

The Northern Michigan Children's Clinic has co-operated with public health officials in caring for many cases of children suffering from disease or deficiency. This Department has maintained a close contact with the Children's Clinic at Marquette as well as with the Bay Cliffs Health Camp, a summer camp for under-nourished children at Big Bay.

The city Health officers in Marquette County are:

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

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

1. RED CROSS.

Mr. E. L. Pearce of Marquette was elected Chairman of the Marquette County Chapter of the American Red Cross in May. He succeeds Mr. T. M. Redmond, who passed away early in the year.

The present officers of the local County Chapter are:

Chairman:	E. L. Pearce	
Vice-Chairmen:	Miss Elba L. Morse, Marquette.	
	G. Sherman Collins, Negaunee	
	Michael J. Defant, Negaunee	
	Sam Cohodas, Ishpeming	
	G. R. Jackson, Ishpeming.	
Secretary:	John G. Walsh, Marquette	
Treasurer:	Edward S. Bice, Marquette	

Directors for Three years.

Walter F. Gries	Negaunee
R. S. Archibald	Negaunee
J. E. Hayden	Ishpeming
Dr. Paul Van Riper	Champion
H. E. Perkins	Big Bay

Directors for Two Years.

Webster H. Pearce	Marquette
W. W. Graff	Negaunee
George Quinnell	Marquette
W. E. Moulton	Ishpeming
C. J. Stakel	North Lake

Directors for One Year

Peter Trudell	Negaunee
Mrs. Kiril Rosberg	Ishpeming
Dr. E.R. Elzinga	Marquette
Stanley Williams	Ishpeming
R. J. Jeffrey	Gwinn.

Mrs. A. L. Johnson, of Ishpeming, has continued as Red Cross nurse for the County under the direction of the Nursing Activities Committee of the Red Cross. Her salary and expenses are paid by the County and the Committee supervises her work by request of the County Board of Supervisors.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.
1. RED CROSS (Continued)

Report of Nurse
Marquette County Chapter
American Red Cross.

School Examinations.

Number of schools in County	35
Number of schools examined	35
Number of children	3358

Number of Children Found with Defects:

Eyes	91
Teeth	3013
Tonsils	224
Orthopedic defects	<u>12</u>
	3340

Corrections made by Parents:

Eyes	6
Teeth	10
Tonsils	<u>4</u>
	20

Number of Days Spent at Clinic:

Pre-school and Infant	2
Psychiatric	<u>1</u>
	3

Number of Children at Dental Clinic:

Number of Children	766
Number of extractions	1265
Number of fillings	1291

Number of Children receiving glasses from Children's Fund	25
Parents or County paying for prescription.	

Number of Children, and Adults taken to
Hospitals, Schools, and Health Camp.

Orthopedic cases (Adult-Children) to hospitals	16
Children to Deaf School at Flint	5
Children to Blind School - Lansing	2
Children to Children's Clinic- Marquette	62
Children to Big Bay Camp	10
House of Good Shepherd- Grand Rapids	<u>1</u>
	96

Investigations Made:

For County	66
Home Calls	1070
Red Cross	<u>2</u>
	1138

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

1. RED CROSS (Continued)Report of Nurse (Continued)Meetings Attended:

District Nurses meetings	5
Social Workers Conference	1
Red Cross	2
Achievement Day	1
State Supervisor of Nurses	1
County Educational	1
Metropolitan Regional	2
W.P.A. meeting on Surplus Foods	2
Assisted Red Cross representative in disaster relief collections	1
Talk on First Aid to Ishpeming High School girls	1

Number of schools receiving Surplus Commodities Food 5

PENSION DEPT. ANNUAL REPORT YEAR 1937

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	270.40	81.87	41.17	66.13	459.57
February	396.87	376.99	30.10	77.89	881.85
March	354.62	85.24	26.74	96.50	563.10
April	332.63	87.55	41.91	53.00	515.09
May	264.61	161.54	12.99	86.55	525.69
June	628.44	53.99	26.70	75.36	784.49
July	398.91	53.60	27.20	101.96	581.67
August	209.36	45.68	29.13	62.70	346.87
September	218.07	53.62	8.96	41.40	322.05
October	292.24	55.76	56.65	101.75	506.40
November	279.29	77.62	37.26	42.04	436.21
December	<u>317.91</u>	<u>67.72</u>	<u>24.33</u>	<u>41.75</u>	<u>451.71</u>
	3963.35	1201.18	363.14	847.03	6374.70

No. of families assisted	28	13	2	7	50
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Average amount of relief per family \$ 127.50

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.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

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 1937	Total Amount Paid during 1937	
Fred Fredette	\$ 20.00	\$ 240.00	
Sam Metherell	14.40	172.80	
August Samuelson	20.00	240.00	
John Aho	14.40	172.80	
Bennett Andrew	16.00	192.00	
Andrew Niemi	16.60	199.20	
Edmond Durante	20.00	240.00	
August Walline	20.00	240.00	Died Dec. 22, 1937
Axel Erickson	20.00	240.00	
Edward Van Langenhoven	20.00	240.00	
Nick Detoma	18.00	216.00	
Edwin J. Goodman	20.00	240.00	
Henry Maki	20.00	60.00	Died March 24, 1937
Donato Valenzio	20.00	240.00	
William Anderson	20.00	240.00	
Fred Carlson	16.00	192.00	
Joseph Thomas	75.00	900.00	
J. H. Tregonning	100.00	100.00	Died Jan. 28, 1937
A. J. Yungbluth	100.00	1200.00	
William Ryan	25.00	275.00	Began Feb 1, 1937
R. J. Chenneour	50.00	450.00	Began April 1, 1937
Total		\$ 6289.80	

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

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

o. INCAPACITATED EMPLOYEES (Continued)

DONATIONS TO WIDOWS.

	<u>Monthly Rate for Year 1937</u>	<u>Total amount Paid during 1937</u>
Mrs. John Makela	\$ 20.00	\$ 240.00
Mrs. Wilhelmina Marjamaa	12.00	144.00
Mrs. Mathilda Carlson	12.00	144.00
Mrs. J. H. Tregonning	25.00	<u>275.00</u>
		Began Feb. 1, 1937
		\$ 803.00

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 1st, the donations have been paid from this office and the following statement shows the payments made since September 1, 1937:

John Schrandt	\$ 25.00	\$ 100.00
James M. Johnson	25.00	100.00
Patsy DePetro	20.00	80.00
Mrs. George Cameron	20.00	80.00
Jacob Hill	20.00	80.00
Julius Olson	25.00	<u>100.00</u>
		\$ 540.00

Amount of Donations paid to Incapacitated Employees	\$ 6289.80
Amount of Donations paid to Incapacitated Holmes Mine Employees	1163.88
Amount of Donations paid to Widows	803.00
Amount of Donations paid to Furnace Department cases	<u>540.00</u>
Total Donations	\$ 8796.68

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

p. COST OF LIVING.

We have continued to send out our report blanks on the 15th of each month to one of our leading stores in Ishpeming and one in Negaunee. This has been done to serve as a check upon the cost of food in our localities and these have been compared with the United States Government reports on the cost of living.

This has served to advise the storekeepers that we are keeping track of the prices that are being charged which we believe has been well worthwhile. We have made one complete calculation of the cost of living, this being made as of December 15, 1937.

The following tabulation shows the comparisons with previous years, the cost being based on a family of five persons.

June 1913	\$ 692.56
June 1914	706.17
June 1917	1006.79
June 1920	1408.65
June 1921	1054.28
June 1924	1015.83
Dec. 1925	1049.16
Oct. 1931	910.82
Dec. 1932	752.52
Dec. 1933	757.89
Dec. 1934	801.94
Dec. 1935	870.82
Dec. 1936	874.90
Dec. 1937	779.36

The Government reports show that the index number for the cost of living in November, 1937 as compared with 1923 was 89.0 and as compared with the cost of living in 1914 was 143.56.

The value of the dollar in November, 1937 on the basis of government figures as compared with the value in 1923 is 112.4 and as compared with 1914, 69.66.

From our own calculations from the prices furnished by our storekeepers here the cost of living in Ishpeming is lower than that reported from the government cities. Our index figure for the cost of living in Ishpeming in December, 1937 as compared with 1923 is 77.5 and with 1914 is 110.36.

The value of the dollar in Ishpeming in December, 1937 as compared with 1923 is 129.0 and as compared with 1914 is 90.61.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

g. IMPROVEMENT WORK.

Mr. Payen, who returned to Ishpeming in July 1936, has continued to look after this work at the different properties. No new work was undertaken through 1937 but the different locations were put in good shape with his assistance and this has relieved the superintendents of some work which they were obliged to look after during the time that Mr. Payen was away from Ishpeming.

r. PRIZE PREMISES.

No prizes were offered for the season of 1937, but we have looked over the different locations at different periods during the year and the people are continuing their interest in keeping their own grounds in good condition.

In Munising prizes were offered during the year and I cooperated in some degree with the Committee.

The people in Marquette became interested in this movement and it was undertaken with very satisfactory results. Mrs. William F. Morgan was made Chairman of the Committee and we assisted the Committee from this office in regard to methods of announcements, prizes to be offered, and the matter of inspection. We spent part of two days with the Committee in going over the work and inspecting the various premises.

s. COMMUNITY SERVICE WORK.

The Legion building has served the city as a meeting place for various civic activities throughout the year, and occasionally the Y.M.C.A. building was used during the summer. It is hoped that the effort to raise funds for the Y.M.C.A. to clear off the indebtedness may eventually be successful and the building used for community purposes regularly.

t. CLUBS.

There have been two general meetings of the Cleveland-Cliffs Mining Club, being held at the Mather Inn. These meetings have referred especially to the matter of safety and the work at the mines.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

u. OUT-DOOR SPORTS.

The Department has helped with Ski Tournament held in Ishpeming on February 22nd, and has also cooperated with the Out-Door Sports Committee which is fostering real activity during the winter season in Ishpeming. Arrangements have been made, particularly with the Northwestern Railroad, for transportation service which has, previous to the end of December, 1937, brought a larger number of visitors to Ishpeming than ever before and weather conditions have been especially favorable.

w. VARIOUS DEPARTMENTS.

Throughout the year we have cooperated with the different Departments, principally with accidents under the Workmen's Compensation Law, with safety matters, and in connection with Group Insurance matters. We have made frequent visits to Marquette and to Negaunee and have had frequent conferences with the Land Department and Mr. Bell in regard to different compensation cases.

In view of the conditions at the Dow Chemical Company by directions from the Cleveland office, the matter of donation payments and the old compensation cases of men who had been injured while the Furnace was operated under the direction of the Cleveland-Cliffs Iron Company were turned over to this Department and are being taken care of by us.

Attached is the annual statement of the Land Department, showing various special payments during the year and the cost of compensation and also a similar report from the L. S. & I. Railroad Company.

PENSION DEPT. ANNUAL REPORT YEAR 1937.

23.

w. VARIOUS DEPARTMENTS. (Continued)

LAKE SUPERIOR & ISHPEMING RAILROAD CO.,

COMPARATIVE STATEMENT OF GENERAL WELFARE EXPENSE

YEARS 1934 to 1937, INCLUSIVE.

<u>Donations:</u>	<u>1934</u>	<u>1935</u>	<u>1936</u>	<u>1937</u>
Fire Department	25.00	25.00	25.00	25.00
Visiting Nurse-Marquette To Employees and Families	120.00	120.00	120.00	152.50
Boy and Girl Scouts-Munising	20.00	140.00	769.25	220.00
St. Luke's Hospital	- -	- -	25.00	-
	<u>400.00</u>	<u>200.00</u>	<u>- -</u>	<u>-</u>
	\$ 565.00	485.00	939.25	397.50
 <u>Pensions</u>	 <u>3479.28</u>	 <u>3443.28</u>	 <u>3998.40</u>	 <u>1666.00</u>
 Total	 \$ 4044.28	 3928.28	 4937.65	 2063.50
 <u>Compensation:</u>				
Compensation Paid	\$ 2938.18	990.00	1034.00	616.48
Medical Expense	251.94	317.16	541.11	858.80
Percentage of Payrolls				
Acct. Comp. Payments	.0052	.0015	.0014	.0008

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