

THE CLIFFS POWER & LIGHT CO.

SUMMARY OF OPERATIONS - 1935.

	<u>KILOWATT HOURS GENERATED & PURCHASED</u>								Used by Auxilia- ries	Delivered to Line	KWH. Sold	<u>Transmission Losses</u>	
	<u>McClure</u>	<u>Carp</u>	<u>Hoist</u>	<u>Au Train</u>	<u>Republic</u>	<u>Escanaba</u>	<u>Purchased</u>	<u>TOTAL</u>				<u>K.W.H.</u>	<u>%</u>
Jan.	2,080,000	1,482,500	614,000	254,730	116,300	200,000	0	4,747,530	11,196	4,736,334	4,084,855	651,479	13.75
Feb.	2 188 600	1 284 600	698 000	276 530	129 100	224 000	0	4 800 830	10 553	4 790 277	4 088 310	701 967	14.65
March	2 179 200	1 198 900	661 000	265 950	104 000	203 000	0	4 612 050	11 064	4 600 986	3 885 002	715 984	15.56
April	1 904 900	1 475 800	617 000	256 310	116 800	198 000	0	4 568 810	9 946	4 558 864	3 995 358	563 506	12.36
May	2 485 200	1 730 000	540 000	201 270	89 200	208 000	0	5 253 670	8 436	5 245 234	4 488 453	756 781	14.42
June	2 790 000	1 107 300	857 000	135 240	106 000	362 000	0	5 357 540	11 676	5 345 864	4 602 494	743 370	13.90
July	2 677 600	1 365 800	611 000	210 260	105 900	326 000	0	5 296 560	9 822	5 286 738	4 521 004	765 734	14.48
Aug.	3 023 300	800 300	927 000	443 920	97 000	222 000	0	5 513 520	12 125	5 501 395	4 711 758	789 637	14.35
Sept.	3 351 200	693 000	1 126 000	416 850	59 900	192 000	0	5 838 950	12 733	5 826 217	5 040 184	786 033	13.49
Oct.	3 281 800	742 700	1 075 000	316 630	51 100	239 000	0	5 706 230	12 941	5 693 289	4 903 852	789 437	13.86
Nov.	3 176 800	974 700	1 037 000	346 410	91 100	320 000	0	5 946 010	12 182	5 933 828	5 132 107	801 721	13.51
Dec.	2 505 300	1 502 500	826 000	392 650	83 900	268 000	0	5 578 350	12 936	5 565 414	4 788 305	777 109	13.96
<u>TOTAL</u>	<u>31,643,900</u>	<u>14,358,100</u>	<u>9,589,000</u>	<u>3,516,750</u>	<u>1,150,300</u>	<u>2,962,000</u>	<u>0</u>	<u>63,220,050</u>	<u>135,610</u>	<u>63,084,440</u>	<u>54,241,682</u>	<u>8,842,758</u>	<u>14.01</u>

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Electrical Department: (Cont'd)

The following alternating current motors are installed and operating as needed;

	INSTALLED TO JAN. 1, 1935	INSTALLED IN 1935	TAKEN OUT IN 1935	CONNECTED JAN. 1, 1936 TOTALS
ANGELINE MINE:				
Hoist	250 HP.			250 HP.
CLIFFS SHAFT MINE:				
Shop	25			
No. 8 Crusher	125			
Screens	15			
Top Tram	100			
Hoist for "A" Shaft	750			
Underground Plunger Pump #1	180			
" Centrifugal Pump	250			
Allis-Chalmers Compressor	175			
Hoist for "B" Shaft	750			
Underground Plunger Pump #2	200			
Laboratory Crusher	5			
Cooling Water Pump for Compressors	10			
Ingersoll-Rand Compressor #1	400			
" " " #2	400			
Lower Tram #2	50			
Heating Plant Condensing Water Pump	5			
Underground Haulage Set #2	215			
Jaw Crusher - New Crushing Plant	75			
Magnetic Separator- " " (Stored)	1½			1½
Underground Scrapers - 55 - 25 HP motors	1325	50		
Lower Tram #3	30			
Battery Charging Set, 2nd Level "A" Shaft	7½			
Grinder in Drill Sharpening Shop	7½			
Rotary Screen (stored)	10			10
Boiler Feed Pump at Central Office	¾			
Undg. Haulage Set #1 (from Gen. Storehouse)	150			
Carpenter Shop	25			
Return Water Pump at Central Office	1			
Stoker " " "	¾			
Rock Tram	50			
Laboratory Stoker	¾			
Rock Picking Belt	5			
Machine Shop Stoker			1	
Bit grinders 3 - 2 HP.			6	
Small Hoist "A" Shaft			20	
				5,410¼
BROWNSTONE SUBSTATION:				
Test Set	1/2			
Oil Filter Press	1/4			
Battery Charging Motor-Generator Set	3			
Commutator Grinder	1			
Synchronous Condenser	80			
M.G. Set on Voltage Regulator Control	1/4			
Large Oil Filter Press	2			
Drill	1			88
fwd.	5,682¾ HP	77 HP	11½ HP	5,748¼ HP

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Electrical Department (Cont'd)

	brt. fwd	INSTALLED	INSTALLED	TAKEN OUT	CONNECTED
		TO JAN. 1, 1935	IN 1935	IN 1935	JAN. 1, 1936 TOTALS
HARD ORE SHOPS:		5,682 $\frac{3}{4}$ HP	77 HP	11 $\frac{1}{2}$ HP	5,748 $\frac{1}{4}$ HP
Machine Shop		10	25	10	
Carpenter Shop		25			
Blacksmith Shop Punch		3			
Armature Banding Machine		2			
" " "		1/2			
" " "		1/8			
Lathe Grinder		1			
Portable Drill - small (Stanley)		1/4			
" " - large		1/4			
Commutator Slotter		1/8			
Air Compressor		10 $\frac{1}{2}$		10 $\frac{1}{2}$	
Water Supply Pump		7 $\frac{1}{2}$			
Blacksmith Shop Blower		1/4			
Hacksaw		1/2			
Small Grinder		1/4			
Portable Drill (Stanley)		1			
Carpenter Shop Saw		25			
Water Pump (S.R.Elliott)		2			
Motor-Generator Set		15			
Air Compressor		60			
Hard Ore Office Stoker		1/4			
Portable Welder - Blacksmith Shop		30			
" " " "		20			
Bandsaw			5		
Crane			5		
					229
ISHPEMING HOSPITAL:					
Passenger Elevator		7 $\frac{1}{2}$			
Dumb Waiter		3			
Large Washer		2			
Small "		1			
Extractor		2			
Vacuum Cleaner		3			
Water Supply Pump		1			
XRay Machine		1/4			
Hot Water Circulating Pump		1/2			
" " Return - high pressure		5			
" " " - low "		1 $\frac{1}{2}$			
Vacuum Pump		3			
					29 $\frac{3}{4}$
TILDEN MINE:					
Compressor		150			
Centrifugal Pump		275			
Scraper on Coal Dock		15			
#29 Shovel - Motor-Generator Set		110			
" " - Air Compressor		4 $\frac{1}{2}$			
" " - Oil Pump		1/4			
" " - Trip Motor		2			
" " - Exciter Motor		10			
	fwd.	5,927 HP.	112 HP.	32 HP	6,007

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	brt.	fwd.	INSTALLED			CONNECTED
			TO JAN. 1, 1935	INSTALLED IN 1935	TAKEN OUT IN 1935	JAN. 1, 1936 TOTALS
TILDEN MINE:			5,927 HP.	112 HP	32	6,007 HP
Cyclone Drill			566 $\frac{3}{4}$			
" Drills - 4 - 15 HP			10			
Car Dumper			60			
Large Crusher			30			
Car Puller			250			
Sample Crusher			10			
Belt Conveyor			3			
Secondary Crushers 2 - 100 HP			50			
Small Hoist over Crusher			200			
#31 Shovel - Motor Generator Set			3			
" " - Exciter Motor			110			
" " - Trip "			7 $\frac{1}{2}$			
" " - Air Compressor			1 $\frac{1}{4}$			
Drill Sharpener			5 $\frac{3}{4}$			
Pump for Drills			15	10	5	
Synchronous Condenser from P.C.P. Plant			625			
Shop Motor			5			
" " #2			3	50	50	
Scraper				50	50	
Armstrong Drill (returned from Maas Mine)			15			
Blower Fan			1 $\frac{1}{2}$			
Fan in Crusher Bldg.			1 $\frac{1}{2}$			
Centrifugal Pump in Compressor Pit			2			
Booster Pump			125			
Pump for Summit Pit				50		
Emery Wheel				1 $\frac{1}{4}$		
						2,168 $\frac{1}{2}$
ATHENS MINE:						
Cage Hoist			400			
Nordberg Compressor			325			
Compressor Cooling Water Pump			3			
Auxiliary Compressor for Hoist Brakes			5			
Underground Ventilating Fan #1			15			
Skip Hoist Set			850			
" " " Oil Pump			1			
Shop			10			
Underground Haulage Converter			150			
Skip Pit Pump			2			
Underground Plunger Pumps - 2 - 400 HP			800			
Ore Tram 2 - 50 HP			100			
Carpenter Shop			20			
Ore Crusher			25			
Underground Ventilating Fan #2			50			
Ingersoll-Rand Compressor			450			
Rock Tram			50			
Underground Haulage Converter #2			150			
Saw Gunning Machine			1 $\frac{1}{4}$			
Nordberg Compressor Oil Pump			1 $\frac{1}{2}$			
Breitung Pump				25		
						3,431 $\frac{3}{4}$
	fwd.		11,447 HP	247 $\frac{1}{4}$ HP	87	11,607 $\frac{1}{2}$

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Electrical Department: (Cont'd)

		INSTALLED			CONNECTED
		TO JAN. 1,	INSTALLED	TAKEN OUT	JAN. 1, 1936
		1935	IN 1935	IN 1935	TOTALS
	brt. fwd.	11,447 HP	247 $\frac{1}{4}$ HP	87	11,607 $\frac{1}{4}$ HP.
<u>MAAS MINE:</u>					
	(Circulating Pump		40		
Turbine Auxiliaries	(Injection " "		25		
	(Exciter " "		35		
Underground Haulage Set			215		
Shop			10		
3rd level Centrifugal Pump			350		
" " Plunger Pump #1			500		
Ore Tram	2 - 50 HP. motors		100		
Coal Crushing Plant			15		
3rd level Plunger Pump #2			250		
Ingersoll-Rand Compressors - 2 - 400 H.P.			800		
Skip Hoist			700		
Cage "			400		
Skip Hoist Rheostat Pump			3		
Carpenter Shop Saw			15		
Auxiliary Compressor for Hoist Brakes			7 $\frac{1}{2}$		
Cooling Water Pump			5		
Saw Gunning Outfit in Carpenter Shop			2		
Underground Haulage Set #2 (from Neg. Mine)			215		
5th level Aldrich Pump (" Boeing mine)			100		
3rd " Centri. " "			400		
" " " " - primer			50		
5th " Prescott Plunger Pump (from Lake mine)			75		
" " Centrifugal " (" Princeton)			125		
					4,435 $\frac{1}{2}$

NEGAUNEE MINE:

Underground Haulage Set #1		300			
"Ilgner" Hoist Set		450			
Ore Tram	2 - 50 H.P.	100			
Carpenter Shop in Lab. Bldg. (from Athens)		5			
Auxiliary Compressor for Hoist Brakes		3			
10th level Plunger Pumps -	2 - 300 HP.	600			
" " Centrifugal Pump		350			
" " Suction Pumps	2 - 15 HP.	30			
Compressor Cooling Water Pump		3			
Nordberg Air Compressor		325			
Shop		15			
Ore Crusher		25			
Ingersoll-Rand Compressor		400			
13th level Plunger Pump		15			
11th " " Pumps	2 - 75 HP.	150			
Exciters for 10th level Pump Motors (2)		40			
Signal System Motor-Generator Set			1/2		
Timber Hoist - #2 Shaft		25			
Ventilating Fan " "		150			
Gravel Hoist		15			
Saw in Carpenter Shop		15			
Skip Pit Pump		5			
Underground Haulage Set #2		220			
Pump - Temporary					
			35		
	fwd.	15,882 $\frac{1}{2}$	247 $\frac{1}{4}$	87	16,042 $\frac{3}{4}$

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Electrical Department: (Cont'd)

	brt. fwd.	INSTALLED			CONNECTED
		TO JAN. 1, 1935	INSTALLED IN 1935	TAKEN OUT IN 1935	JAN. 1, 1936 TOTALS
		15,882 $\frac{1}{2}$ HP	247 $\frac{1}{2}$ HP	87	16,042 $\frac{3}{4}$ HP
MEGAUNEE MINE:	brt. fwd.	3,241 $\frac{1}{2}$	35		
New Flywheel Set for Hoists		800			
Oil Pump on #2 Flywheel Set		1			
" " " " " "		1			
" " " Nordberg Compressor		1			
Hot Well Pump		2			
					4,081 $\frac{1}{2}$
MAAS CRUSHING PLANT:					
Jaw Crusher		100			
Belt Conveyor		50			
Pan Conveyor Motor-Generator Set		50			
					200
LLOYD MINE:					
Skip Hoist (from Republic)		500			
Cage "		400			
Top Tram (changed to 50 HP - from Gwinn)		40	50	40	
Ore Crusher		25			
Water Supply Pump Installed Underground		50			
Concrete Mixer		5			
Top Tram		50			
Compressor		100			
"		225			
Underground Haulage Converter		120			
Timber Yard Saw		7 $\frac{1}{2}$			
Underground Haulage Converter (from Wade)		150			
Compressor Cooling Water Pump		3			
					1,685 $\frac{1}{2}$
MORRIS MINE:					
Ingersoll-Rand Compressor #2		500			
					500
SECTION 6 SHAFT:					
Hoist		200			
Water Pump in Change House		2			
					202
GWINN CRUSHING PLANT:					
Crusher		85			
Pan Conveyor		50			
Belt " (from Mackinaw)		50			
Compressor		15			
" Cooling Water Pump		3			
					203
FRANCIS MINE STOCKPILE:					
Triplex Pump		7 $\frac{1}{2}$			
					7 $\frac{1}{2}$
GARDNER MINE:					
Hoist		400			
Top Tram		50			
Laboratory Crusher		3			
					453
	fwd.	23,170 HP	332 $\frac{1}{2}$	127	23,375 $\frac{1}{2}$ HP.

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Electrical Department: (Cont'd)

	INSTALLED TO JAN. 1, 1935	INSTALLED IN 1935	TAKEN OUT IN 1935	CONNECTED JAN. 1, 1936 TOTALS
brt. fwd.	23,170 HP	332 $\frac{1}{4}$ HP	127	23,375 $\frac{1}{4}$ HP
<u>MACKINAW MINE:</u>				
Hoist	400			
Shop	7 $\frac{1}{2}$			
Ore Tram	50			
Underground Haulage Set	150			
Air Compressor	325			
Compressor Cooling Water Pump	7 $\frac{1}{2}$			
4th level Quintuplex Pump	350			
" " Triplex "	75			
5th " Pump - Automatic #1	30			
Winze Hoist	200			
4th level Centrifugal Pump	400			
6th " " " " Automatic #2	20			
Grinder in Shop	_____	3		
				2,018
<u>PRINCETON MINE #2</u>				
Hoist	200			
Top Tram (stored)	50		50	
Stockpile Loader	25		_____	
				225
<u>PRINCETON MINE #3</u>				
Hoist	75			
				75
<u>PRINCETON CENTRAL POWER PLANT</u>				
(Circulating Pump)	50			
Turbine Auxiliaries (Injection " (Exciter)	40			
	33			
Boiler Room Fan	50			
Coal Handling Machinery	10			
" " "	5			
				188
<u>PRINCETON CENTRAL SHOPS</u>				
Shop Motor	25			
				25
<u>PRINCETON CENTRAL PUMP STATION</u>				
Centrifugal Pump	100			
Automatic Pump	30			
				130
<u>CARP PLANT</u>				
Auxiliaries 2 - 15 HP pump motors	30			
Water Supply Pump	1			
Air Compressor	5			
				36
<u>HOIST PLANT</u>				
Exciter Motor-Generator Set	20			
Oil Pump	3			
Air Compressor	5			
Small Supply Hoist Motor	3			
				31
fwd.	25,945 HP	335 $\frac{1}{4}$	177	26,103 $\frac{1}{4}$ HP

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Electrical Department: (Cont'd)

	brt. fwd.	INSTALLED TO JAN. 1, 1935	INSTALLED IN 1935	TAKEN OUT IN 1935	CONNECTED JAN. 1, 1936 TOTALS
		25,945 HP	335 $\frac{1}{4}$ HP	177	26,103 $\frac{1}{4}$ HP
McCLURE PLANT:					
Water Supply Pump		2			
Exciter Motor-Generator Set		17 $\frac{1}{2}$			
Air Compressor		<u>5</u>			
					24 $\frac{1}{2}$
ESCANABA PLANT:					
Air Compressor		5			
Oil Pump		5			
Valve Operating Motor		<u>1</u>			
					<u>11</u>
TOTAL MINING DEPARTMENT and CLIFFS POWER & LIGHT CO.		25,980 $\frac{1}{2}$ HP	335 $\frac{1}{4}$	177	26,138 $\frac{3}{4}$ HP

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Electrical Department (Cont'd)

	INSTALLED TO JAN. 1, 1935	INSTALLED IN 1935	TAKEN OUT IN 1935	CONNECTED JAN. 1, 1936 TOTALS
TOTAL MINING DEPARTMENT and CLIFFS POWER & LIGHT CO.	25,980½ HP.	335¼	177	26,138¼ HP
PIONEER FURNACE Furnace & Sawmill	<u>1,195</u>			1,195
L. S. & I. RR. CO. Shops, Sawmill, Ore Dock & Pumps	<u>800</u>			800
LAND DEPARTMENT Grand Island 3 motors	<u>15½</u>			15½
LUMBERING DEPARTMENT (Dixon) Location Water Supply Pump	5			
Tie Mill Saw	75			
" " Conveyors	37			
" " Shop	<u>10</u>			127
MICHIGAN GAS & ELECTRIC CO. Ishpeming	2,170			
Munising	250			
Munising City Pumping	<u>125</u>			2,545
REPUBLIC TOWNSHIP Water Supply Pump	<u>25</u>			25
OLIVER IRON MINING CO. Pumps at Angeline & Sec. 16 Mines Holmes Mine	525			
	<u>2,552½</u>			3,077½
CITY OF ISHPEMING Booster Pump at Brownstone Air Compressor for Tank	15			
	<u>10</u>			25
CITY OF NEGAUNEE	<u>435</u>			435
THE CLIFFS ELECTRIC CO.) Now C.P.&L.Co. retail	<u>100 Est.</u>			100
PALMER MINING COMPANY Volunteer Mine, Palmer	<u>800</u>			800
MUNISING WOODENWARE CO.	<u>695</u>			695
NORTH RANGE MINING CO. Blueberry Mine	<u>1,165</u>			1,165
INLAND STEEL CO. Greenwood Mine Morris Mine	450			
	<u>3,360</u>			3,810
INLAND LIME & STONE CO. Quarry & Dock	<u>4,000</u>			4,000
MICHIGAN GOLD MINE	<u>150</u>			150
ROPES GOLD MINE		<u>350</u>		350
TOTAL OUTSIDE LOAD	18,965 HP	350	0	19,315 HP
GRAND TOTAL CONNECTED LOAD	44,945½ HP	685¼	177	45,453¼ HP

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Electrical Department: (Cont'd)

The following motors are not connected to our Power System:

	INSTALLED			CONNECTED	
	TO JAN. 1, 1935	INSTALLED IN 1935	TAKEN OUT IN 1935	JAN. 1, 1936 TOTALS	
MESABA RANGE:					
CANISTEO MINE:					
Priming Pump		3			
Shop		10			
Washing Plant Compressor		50			
Belt Conveyors	2 - 5 HP. motors	20		10	
Jaw Crusher		100			
Centrifugal Pump	1 - 125 " "	250		125	
Symons Crushers	2 - 100 " "	200			
Belt Conveyor		75			
Dorr Washers	2 - 75 " "	150		150	
" "	2 - 30 " "	60		60	
Armstrong Drills	2 - 15 " "	30			
Centrifugal Pumps		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	2 - 3 HP motors	6			
Motor-Generator Set on Shovel No. 35		250	250		
Exciter Set	" " " "	20	20		
Dipper Trip	" " " "	2	2		
Fan		3	3		
Heater Motors	5 - 1/2 HP motors	2 1/2			
" "			1/4		
" "	8 - 1/8 " "	1			
Bolt & 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 HP motors	2		1	
Blacksmith Shop Forge		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			
Fan " "		1/8			
Centrifugal Pump		125			
Motor-Generator Set - Washing Plant		225			
Battery Charger			3		
Allis-Chalmers Screen (stored)		5		5	
Electric Welder		15			
Priming Pump		3			
Armstrong Drill		15			
Ro-Tap in Laboratory		1/2			
Centrifugal Pump (from Holman)		125			
Washing Plant feed pump (stored at Canisteco)		20		20	
Battery Charger (old band saw motor)		3			
	fwd.	1,971 1/4 HP	278 1/4	371	1,878 1/2 HP

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Electrical Department: (Cont'd)

	brt. fwd.	INSTALLED		CONNECTED JAN. 1, 1936. TOTALS	
		TO JAN. 1, 1935	INSTALLED IN 1935		TAKEN OUT IN 1935
CANISTEO MINE: (Cont'd)		1,971 $\frac{1}{4}$ HP	278 $\frac{1}{4}$	371	
Portable Drill			1/2		
Layne & Bowler Pump	from Holman Mine		350		
Door Classifiers	- from Holman - 2-10 HP Motors		20		
Picking Belts	- " " - 2- 5 " "		10		
Armstrong Drill	- " "		15		
Hummer Screen	- " "		5		
Portable Grinder	- " "		1		
Shop Door Hoist	- " "		5		
Shop Heater	- " "		1/4		
Air Comp. in Lab.-	" "		1 $\frac{1}{2}$		
			<hr/>	<hr/>	2,286 $\frac{3}{4}$
HOLMAN-CLIFFS MINE:					
Layne & Bowler Pump	- to Canistee	350		350	
Bench Grinder		1/4			
Belt Conveyor		75			
Symons Crushers	- 2 - 100 HP motors	200			
Jaw Crusher		100			
Dorr Classifiers	- 2 - 10 HP motors-to Canistee	20		20	
Air Compressor		50			
Screen		25			
Picking Belts	- 2 - 5 " " " "	10		10	
Machine Shop		30			
Exhaust Fan		1/2			
Centrifugal Pump		275			
Blacksmith Forge Fan	- from Drew Mine	1/2			
Motor-Generator Set		225			
Clear Water Pump, Washing Plant		3			
Armstrong Drill	- to Canistee	15		15	
Hummer Screen	- " "	5		5	
Bench Grinder		1/4			
Portable Grinder	- " "	1		1	
Shop Heaters	- 1 to Canistee - 1 - 1/4 HP motor	1 $\frac{1}{2}$		1/4	
" "	10 - 1/8 " "	1 $\frac{1}{4}$			
Roll Motor in Laboratory		3			
Pulverizer in	"	1			
Compressor	" - to Canistee	1 $\frac{1}{2}$		1 $\frac{1}{2}$	
Hydrotator	- stored	15		15	
"	"	20		20	
Centrifugal Pump at Pit	"	125		125	
		<hr/>	<hr/>	<hr/>	991
	fwd.	3,525 HP	686 $\frac{1}{2}$	933 $\frac{3}{4}$	3,277 $\frac{3}{4}$

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Electrical Department: (Cont'd)

	brt. fwd.	INSTALLED		CONNECTED	
		TO JAN. 1, 1935	IN 1935	TAKEN OUT IN 1935	JAN. 1, 1936. TOTALS
HILL-TRUMBULL MINE:		3,525	686½	933½	3,277½
Log Washer		50			
" "		40			
Belt Conveyors	4 - 5 HP motors	20			
Crusher		100			
Sample Crusher		10			
Prescott Plunger Pump		125			
Centrifugal Pump		150			
Shops		30			
Punch & Shear Machine in Shop		5			
Band Saw in Carpenter Shop		5			
Compressor in Shop		50			
Screen		20			
Conveyor		100			
Planer in Shop		2			
Variety Saw in Shop		5			
Electric Drill		1/4			
Motor-Generator Set		65			
Blacksmith Shop Fan		1/4			
Drill		1/4			
Washing Plant Laboratory Rolls		3			
Picking Belt		5			
Car Puller		7½			
Portable Grinder		1			
North Pit Pump		30			
Air Compressor at Washing Plant		25			
Churn Drill		10			
Boiler Feed Pump		5			
Chip Screens		2			
Layne & Bowler Pump		125			
Tool Post Grinder		1/4			
Armstrong Drill (from Drew Mine)		15			
Rack Drives on Classifiers	2 - 10 HP motors	20			
Hammer Screen		2			
Pulverizer in Laboratory		1			
Fan " "		1/8			
Symons Crusher	2 -100 " "	200			
Bench Grinder		1/2			
Motor-Generator Set on Shovel #34		250			
Exciter " " "		20			
Dipper Trip " " "		2			
Fan " " "		3			
Fan for Blacksmith Shop		5			
Clear Water Pump		3			
Flue Machine		5			
Bench Grinder at Washing Plant		1/2			
Centrifugal Pump at Washing Plant			85		1,603½ HP
<u>TOTAL MESABA RANGE MINES.</u>		5,043½ HP	771½	933½	4,861½ HP

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Electrical Department: (Cont'd)

	INSTALLED		INSTALLED TAKEN OUT IN 1935	CONNECTED
	TO JAN. 1, 1935	IN 1935		JAN. 1, 1936.
				TOTALS
<u>SPIES-VIRGIL MINE:</u>				
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 HP		300		
Underground Haulage Converter		150		
Sump Pump		2		
Auxiliary Air Compressor for Hoist Brakes		5		
			<u>TOTAL</u>	1,398

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Electrical Department: (Cont'd)

The following A.C. motors are on hand, (Dec. 31, 1935) but are not installed:

CLIFFS SHAFT MINE:

Top Tram (stator only)		50 HP.
Spare Top Tram		50
Small Conveyor Motor		2
Scraper Motors	6 - 25 HP	150
Crusher		25
Scraper Motor		15
Top Tram Motor from Republic		50
Magnetic Separator		3
Screen		10

355 HP

GENERAL STOREHOUSE & BARN:

Spare from Republic concrete mixer (needs repairs)		5
" General Electric pump		50
" from Hard Ore #3 plunger pump		35
" 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
Conveyor Belt	" " " " 1 motor	20
Concrete mixer from Au Train		7½
Picking Belt		5
Leach concrete mixer		10
Pump from 11th level Republic Mine		7½
Carpenter Shop from	" "	20
Undg. Hoist	" " "	50
" " " Maas "		50
Cyclone Drill	" Tilden "	10
Pump	" Au Train Dam	100
"	" Republic Mine (needs repairs)	50
"	" " "	7½
Screen #9 Shaft	" " " scrap	25
Crusher	" " "	100
Coal Tram	" " "	7½
Pump from 3rd level	" "	50
Screen from crusher	" "	10
Pump from	" "	35
Top tram motor	" Athens "	50
Pump from Mackinaw Mine		20
Spare for small compressors (in for repairs)		5
Pump motor from Cliffs Shaft change house		2
Prescott pump motor from Maas Mine		325
Tilden fan motor (in shop for repairs)		1/4
Pump motor from Morris Mine		50
" " " " "		40
Gwinn Crushing Plant conveyor motor (in shop for repairs)		40
Sinking hoist from Wade Mine		35
Top tram	" " "	50
Sump pump	" " "	7½
Blacksmith Shop fan	" "	3
Air compressor	" "	150
Hoist	" "	125
Clear water pump	" "	15
Triplex pump	" "	50

fwd. 3,377½
fwd.

355 HP

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Electrical Department: (Cont'd)

	brt. fwd.		355 HP
GENERAL STOREHOUSE & BARN: (Cont'd)	brt. fwd.	3,377 $\frac{3}{4}$	
Pump motor from Wade Mine		100	
Undg. haulage set from Morris Mine		150	
Cooling Water Pump " Wade "		2	
Sump Pump from Negaunee Mine (needs repairs)		5	
Allis-Chalmers 3K2164.1 from Armour Mine		5	
Hoist " " "		150	
" " " "		250	
Centrifugal Pump " " "		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	
Nordberg Compressor at Lake Mine Engine House		325	
Compressor Motor		50	
		<hr/>	5,605 $\frac{1}{4}$
ISHPEMING HOSPITAL:			
Spare for dumb waiter		3	
" " hot water return		5	
		<hr/>	8
ATHENS MINE:			
Pump Motor		50	
		<hr/>	50
MAAS MINE:			
Winze Pump		15	
Pump (from Morris Mine)		50	
Hoist motor from Stephenson Mine		75	
Rheostat Pump		2	
Cooling Water Pump		5	
Return " " "		2	
Sump Pump (new)		5	
		<hr/>	154
NEGAUNEE MINE & BARN:			
Flywheel hoist set motor		350	
Top tram		50	
Hoist from South Jackson		75	
Pump " Maas Mine		50	
		<hr/>	525
PRINCETON MINE:			
Underground Pump		150	
		<hr/>	150
PRINCETON CENTRAL SHOPS & CENTRAL POWER PLANT:			
Hoist motor from Spies		200	
Hoist motor		400	
Ore Tram from Princeton Mine		50	
		<hr/>	650
Top Tram from Gardner Mine		25	
" " " Stephenson Mine		50	
		<hr/>	75
GWINN STORAGE SHED & STEPHENSON TRANSFER:			
Stephenson 5th level plunger pump		250	
" " " " "		250	
" 8th " " "		50	
Spare for Pumping Station		30	
		<hr/>	580
	fwd.		8,152 $\frac{1}{4}$ HP

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Electrical Department. (Cont'd)

	brt. fwd.	
TILDEN MINE:		8,152 $\frac{1}{2}$ HP
Conveyor Belt	50	
Trip motor for shovels	1 $\frac{1}{4}$	
Scraper motor	<u>50</u>	
		<u>101$\frac{1}{4}$</u>
	<u>TOTAL</u>	8,253 $\frac{1}{2}$ HP
Spare Motors at Spies-Virgil Mine:		
Underground haulage set	150	
Grinder motor	3	
Fan	<u>15</u>	
	<u>TOTAL</u>	168 HP.
Spare motors on Mesaba Range:		
HILL-TRUMBULL MINE & SHOPS:		
Log Washer	25	
Log Washer from Crosby Mine	40	
Screen " " "	20	
Picking Belt " " "	3	
Chip Screen " " "	3	
Tables " " " (Loaned to Charleston Mining Co.)	20	
#2 Turbo " " "	20	
Feeder " " " (Loaned to Buggalo Mine)	20	
North Pit Pump	30	
Planer " " "	3	
Chip Screen	2	
Trammel Drive from Drew Mine	30	
Rakes " " "	10	
Conveyor Belt " " "	15	
Feeder " " "	10	
Air Compressor " " "	60	
Helmer Hoist	<u>200</u>	
		511 HP
CANISTEO MINE:		
Centrifugal Pump	600	
" "	600	
Dipper trip	2	
H-T Table motor	20	
H-T Picking Belt	5	
Belt Conveyors - 2 motors	10	
Spare Centrifugal Pump	20	
Spare Heaters on #35 Shovel	<u>1/8</u>	
		1,257 HP
HOLMAN-CLIFFS MINE:		
Shaft Pump	150	
Motor-generator Set	150	
Sump Pump	5	
Pump Loaned to Charleston Mine Co.	85	
Priming Pump	2	
Air Compressor from Pontiac Mine	<u>100</u>	
	<u>TOTAL</u>	<u>492</u> HP 2,260 HP

MECHANICAL DEPARTMENT
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YEAR 1935

Electrical Department: (Cont'd)

Total C.C.I.Co. & C.P.&L.Co. load connected to Power System - 12/31/35 -	26,138 $\frac{3}{4}$ HP
" Outside " " " " " " " " - " -	<u>19,315</u>
<u>TOTAL CONNECTED LOAD</u>	45,453 $\frac{3}{4}$ "
Total connected load at Mesaba Range Mines - Dec. 31st, 1935 -	4,881 $\frac{1}{2}$ "
" " " " Spies-Virgil Mine - " " " " -	1,398 "
Total spare motors on hand Dec. 31st, 1935 - Ishpeming District -	8,253 $\frac{1}{2}$ "
" " " " " " " " " - Spies-Virgil Mine -	168 "
" " " " " " " " " - Mesaba Range Mines -	2,260 "

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1935

Electrical Department; (Cont'd)

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

		INSTALLED TO JAN. 1, 1935	INSTALLED IN 1935	TAKEN OUT IN 1935	JAN. 1, 1936 TOTALS
AU TRAIN WATER POWER PLANT:					
Exciters	(2)	34 KW			34 KW.
CARP RIVER WATER POWER PLANT:					
Exciters	(2)	150			150
HOIST PLANT:					
Exciter		17½			
"		37			54½
McCLURE PLANT:					
Exciters	(2)	110			
M. G. Exciter		12			122
ESCANABA PLANT:					
Exciter		28			28
REPUBLIC PLANT:					
Exciter		18			
"		15			33
MAAS PLANT:					
Motor driven exciter		22½			
Turbo " "		22½			
Compressor motor exciters (2)		20			65
PRINCETON CENTRAL POWER PLANT:					
Motor driven exciter		22½			
Turbo " "		22½			45
CLIFFS SHAFT MINE:					
Compressor motor exciters (2)		20			20
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 generator		20			
" "		22			70
ATHENS MINE:					
Nordberg Compressor motor exciter		10			
Flywheel set exciter		15			
Skip hoist generator		700			
Ingersoll-Rand compressor motor exciter		10			735
MAAS CRUSHING PLANT:					
Pan conveyor generator		35			
" " " exciter		1¾			36¾
		36¾			
	fwd.	1,393¼	0	0	1,393¼

MECHANICAL DEPARTMENT
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YEAR 1935

Electrical Department: (Cont'd)

	INSTALLED TO JAN. 1, 1935	INSTALLED IN 1935	TAKEN OUT IN 1935	JAN. 1, 1936 TOTALS
	brt. fwd.	1,393 $\frac{1}{4}$ KW		1,393 $\frac{1}{4}$ KW.
NEGAUNEE MINE:				
Skip hoist generator	400			
Cage " "	150			
Flywheel set 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 $\frac{1}{2}$
MORRIS MINE:				
Ingersoll-Rand compressor motor exciter	<u> </u>	10		10
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 $\frac{1}{2}$			
" " " " #31	5 $\frac{1}{2}$			
Thrust " " " " "	15			
Hoist " " " " "	75			
Swing " " " " "	16			
Exciter for synchronous motor	<u>15</u>			
				<u>237</u>
<u>TOTAL</u>	2,904 $\frac{3}{4}$ KW.	10	0	2,914 $\frac{3}{4}$ KW

MECHANICAL DEPARTMENT
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YEAR 1935

Electrical Department: (Cont'd)

Underground Haulage Generators:

	INSTALLED TO JAN. 1, 1935	INSTALLED IN 1935	TAKEN OUT IN 1935	JAN. 1, 1936 TOTALS
CLIFFS 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			
" " " #2	<u>100</u>			
				200
NEGAUNEE MINE:				
Motor-generator set #1 (new)	200			
" " " #2	<u>150</u>			
				350
LLOYD MINE:				
Converter #1	90			
" #2 (from Wade Mine)	<u>100</u>			
				190
MACKINAW MINE:				
Rotary Converter	<u>100</u>			
				100
TOTAL	<u>1,245 KW</u>	<u>0</u>	<u>0</u>	<u>1,245 KW</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			
Car Puller	6 1/2			
Scrapers	<u>180</u>		<u>15</u>	
				181 1/2
TILDEN MINE:				
Hoist motor on electric shovel #29	100			
Swing " " " " "	20			
Thrust " " " " "	20			
Swing " " " " #31	20			
Thrust " " " " "	20			
Hoist " " " " "	<u>100</u>			
				280
fwd.	<u>479 1/4</u>	<u>0</u>	<u>15</u>	<u>464 1/4</u>

MECHANICAL DEPARTMENT
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YEAR 1935

400

Electrical Department: (Cont'd)

		INSTALLED			JAN. 1, 1936
		TO JAN. 1,	INSTALLED	TAKEN OUT	TOTALS
		1935	IN 1935	IN 1935	
	brt. fwd.	479 $\frac{3}{4}$ HP	0	15	464 $\frac{3}{4}$ HP
ATHENS MINE:					
	Skip Hoist	900			
	Ventilating fans	5 - 5 HP motors		5	
	Sullivan scrapers	2 - 6 $\frac{1}{2}$ " "			
	" "	15 - 15 " "		15	
	Ventilating fan	15			
	Sullivan scrapers	2 - 20 " "			
	I. R. "	2 @ 10 " "			
		<u>20</u>			1,248
					1,243
MAAS MINE:					
	Timber hoist - 4th level	10			
	Ventilating fan	15			
	Sullivan scrapers	19 - 15 HP motors		60	
	" "	5 - 6 $\frac{1}{2}$ " "			
	Scrapers Slide	To Negaunee Mine			15
	Ventilating fans	10 - 5 HP motors		15	
	Scrapers	2 - 25 " "			
	I-R. Scrapers	9 - 15 " "			
	" "	3 - 10 " "			
	Scrapers	1 - 20 " "			
	Fan	1 - 3 " "			
		<u>3</u>			630 $\frac{1}{2}$
MAAS CRUSHING PLANT:					
	Pan conveyor	40			40
NEGAUNEE MINE:					
	Skip Hoist	500			
	Cage "	200			
	Timber hoist - 11th level	10			
	" " - 12th "	10			
	Scrapers	3 - 7 $\frac{1}{2}$ HP motors		67 $\frac{1}{2}$	
	Sullivan scrapers	2 - 6 $\frac{1}{2}$ " "		52	
	" "	2 - 25 " "			
	Ventilating fans	4 - 5 " "			
	Denver scrapers	3 - 10 " "			
	Sullivan "	7 - 15 " "			
	Ingersoll-Rand Scrapers	5 - 15 " "			
	" " "	6 - 10 " "			
	Sullivan "	1 - 20 " "		20	
	Gardner-Denver "	2 - 15 " "		30	
		<u> </u>			1,026
LLOYD MINE:					
	Scrapers	7 - 15 " "		15	
	" "	1 - 10 " "		20	
	" "	3 - 25 " "			
	Skip Pit	1 - 6 $\frac{1}{2}$ " "			
		1 - 7 $\frac{1}{2}$ " "		7 $\frac{1}{2}$	
		<u> </u>			204
GARDNER-MACKINAW MINE:					
	Scraper	3 - 10 " "		30	
	" "	1 - 20 " "		20	
	" "	1 - 15 " "		15	
		<u> </u>			65
	TOTAL D.C. MOTORS	<u>3,650$\frac{1}{4}$</u>	<u>212$\frac{1}{2}$</u>	<u>189$\frac{1}{2}$</u>	<u>3,673$\frac{1}{4}$</u>

Spare Generators and Exciters on hand Dec. 31st, 1935:

NEGAUNEE MINE:

Skip hoist (armature only)

500 HP.

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YEAR 1935

Electrical Department (Cont'd)

Spare Underground Haulage Generators on hand Dec. 31st, 1935:

GENERAL STOREHOUSE:

Motor-Generator Set (from Morris)	100	
Exciter - Nordberg Compressor	<u>10</u>	
<u>TOTAL</u>		110 K.W.

Spare Direct Current Motors on hand Dec. 31st, 1935:

CLIFFS SHAFT MINE:

Spare scraper motor	3 - 15 H.P. motors	<u>45 HP</u>
		15 HP

ATHENS MINE:

Timber hoist motor		10
Fan		<u>15</u>
		25

MAAS MINE:

Conway Loader		<u>50</u>
		50

LLOYD MINE:

Crane motor		10
Ore Loader		2
Scrapers	1 - 15 HP motor	15
"	2 - 7½ " "	<u>15</u>
		42

GENERAL STOREHOUSE:

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

GARDNER-MACKINAW MINE:

Hoist		<u>15</u>
		<u>15</u>
<u>TOTAL</u>		292 HP

MESABA RANGE:

Exciters and Generators installed up to Dec. 31st, 1935:

CANISTEO MINE:

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

HILL-TRUMBULL MINE:

Hoist generator on shovel		150
Swing " " "		40
Thrust " " "		39
Exciter	" "	<u>12</u>
		241

HOLMAN-CLIFFS MINE:

Generator for feeder		<u>150</u>
		<u>150</u>
<u>TOTAL</u>		1,043

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1935

Electrical Department: (Cont'd)

MESABA RANGE:

Underground Haulage Generators installed up to Dec. 31st, 1935:

HILL-TRUMBULL MINE;			
Motor-generator set		55 KW	
" " " for rock haulage		<u>25</u>	
	<u>TOTAL</u>		80 KW.

Direct Current Motors installed up to Dec. 31st, 1935:

CANISTEO MINE;			
Rack drives on classifiers	4 - 5 HP motors	20 HP	
Hoist motor on shovel	2 shovels	375	
Swing " " "	2 "	80	
Thrust " " "	2 "	80	
Pan conveyor		40	
Log Washers - from Holman	3 - 40 HP motors	<u>120</u>	
			715 HP.
HILL-TRUMBULL MINE;			
Feeder motor		60	
Hoist motor on shovel		187½	
Swing " " "		40	
Thrust " " "		39	
Dorr bowl classifiers	2 - 5 HP motors	<u>10</u>	
			336½
HOLMAN-CLIFFS MINE;			
Pan conveyor		<u>40</u>	
			40
	<u>TOTAL</u>		<u>1,091½</u> HP

Spare Direct Current Motors on Mesaba Range Dec. 31st, 1935:

CANISTEO MINE;			
Generator	(from Pontiac Mine)	<u>7 KW</u>	
			7 KW.
HOLMAN-CLIFFS MINE;			
1 D.C. motor		5 HP	
1 " "		3	
1 " "		3	
Motor-generator set - spare from Boeing Mine		<u>115 KW</u>	

MESABA RANGE:

Total Exciters and Generators installed to Dec. 31st, 1935 -	1,043 KW
" Haulage Generators " " " " " -	80 KW
" Direct Current Motors " " " " " -	1,091½ HP

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1935

Electrical Department: (Cont'd)

SPIES-VIRGIL MINE:

Exciters installed to December 31st, 1935:

Compressor motor exciter	10 KW
Underground Haulage Generators installed to December 31st, 1935:	150 KW
Top tram larry cars - 20 HP D.C. motors	40
Fan	<u>15</u> 55 HP

ISHPEMING DISTRICT:

Total D.C. Generators and Exciters installed to December 31st, 1935-	2,914 $\frac{3}{4}$ KW
" Underground Haulage Generators " " " " " -	1,245 KW.
" Direct Current Motors " " " " " -	3,673 $\frac{1}{4}$ HP
" Spare D. C. Generators and Exciters on hand " " " -	0
" " Underground Haulage Generators " " " " " -	110 KW
" " Direct Current Motors " " " " " -	292 HP

MECHANICAL DEPARTMENT
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YEAR 1935

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Electrical Department: (Cont'd)

Substation Transformers installed up to December 31st, 1935.

<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	5,026 K.V.A.
<u>33,000/66,000 Volts</u>					
Gwinn Substation	1	3	1,250	3,750	3,750 "
<u>33,000/13,200 Volts</u>					
Clarksburg Substation	1	3	37½	112½	112½ "
<u>33,000/110-220 Volts</u>					
Toebe Substation	1	1	10	10	10 "
<u>33,000/2300 Volts</u>					
Brownstone 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	
Gwinn "	1	3	625	1 875	
Munising "	1	3	200	600	
McClure Plant "	3	2	5,000	10 000	
Carp "	1	3	1 900	5 700	
Au Train "	3	1	1 250	1 250	
Palmer "	1	3	625	1 875	
Hoist Plant "	1	3	667	2 000	
Greenwood "	1	3	150	450	
Chatham "	1	3	15	45	
Eben "	1	1	25	25	
Camp Au Train "	1	1	15	15	37,065 "
<u>6,600/2,300 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	24 "
<u>GRAND TOTAL</u>				48,227½	K.V.A.
<u>12,000/2300 Volts</u>					
McClure Plant (Furnace Lines)	3	2	1,250	2,500	K.V.A.

Transformers used for Underground Haulage installed to Dec. 31, 1935:

Athens Mine converters	1	6	35	210	
Mackinaw Mine converter	1	3	35	105	315 K.V.A.

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1935

Electrical Department: (Cont'd)

Distribution Transformers installed up to December 31st, 1935:

<u>2300/220/110 Volts</u>	<u>Phase</u>	<u>No.</u>	<u>K.V.A.</u>	<u>TOTAL K.V.A.</u>
<u>ANGELINE MINE:</u>				
Hoist Control	1	1	<u>7½</u>	7½
<u>CLIFFS SHAFT MINE:</u>				
Office Lights	1	1	10	
" "	1	1	15	
"A" Shaft hoists	1	2 (15)	30	
Pump station lights	1	1	3	
Crusher house lights	1	2 (1)	2	
Crushers & surface lights	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	1	2 (15)	<u>30</u>	867
<u>HARD ORE, BROWNSTONE, ETC.</u>				
Light & power	1	1	15	
" " "	1	1	7½	
Blacksmith Shop	1	1	30	
Manager's residence	1	2 (10)	20	
" "	1	1	5	
F. C. Stanford & testing	1	1	7½	
" " " "	1	1	5	
Manager's residence	1	1	7½	
" "	1	1	1½	
Hospital	1	3 (25)	75	
Shop power	1	3 (15)	45	
" lights	1	1	5	
Blacksmith shop lights	1	1	<u>15</u>	239
<u>TILDEN MINE:</u>				
Pump	1	1 (7½)	7½	
"	1	1 (10)	10	
Lights & power	1	2 (5)	10	
" " "	1	2	2	
Drills	1	3 (15)	45	
Shovel	1	3 (5)	15	
Crusher	1	3 (10)	30	
Synchronous condenser	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)	<u>30</u>	225
			fwd.	<u>1,339½</u>

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1935

Electrical Department: (Cont'd)

Distribution Transformers (Cont'd)

brt. fwd.	<u>Phase</u>	<u>No.</u>	<u>K.V.A.</u>	<u>TOTAL K.V.A.</u>
				1,339½
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	
Pump at Breitung Shaft	1	3 (7½)	<u>22½</u>	
				132½
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	<u>15</u>	
				100
MAAS CRUSHING PLANT:				
Lights	1	1	<u>7½</u>	
				7½
NEGAUNEE MINE:				
Shop light and power	1	1	10	
" " " "	1	1	7½	
Engine house lights and power	1	1	10	
" " " " "	1	1	5	
Signal system	1	1	1/2	
Pump station lights, etc.	1	3 (7½)	<u>22½</u>	
13th level pump	1	3 (5)	15	
Barn	1	1	1	
Gravel pit	1	1	7½	
Hoist and lights - #2 Shaft	1	3 (10)	30	
Underground haulage	1	1	<u>3</u>	
				112
LLOYD MINE:				
Cage hoist control	1	1	5	
Skip " "	1	1	7½	
Water supply pump house lights	1	1	2	
Engine house lights and bell system	1	1	10	
" " "	1	1	5	
Saw	1	1	5	
Underground haulage	3	1	100	
" " " from Wade Mine	1	3 (35)	<u>105</u>	
				239½
			fwd.	1,930

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1935

Electrical Department: (Cont'd)

Distribution Transformers (Cont'd)	Phase	No.	K.V.A.	TOTAL K.V.A. 1,930
brt. fwd.				
NORTH LAKE LOCATION:				
Location Lights	1	1	<u>7½</u>	
Club House "	1	1	<u>10</u>	17½
SECTION 6 SHAFT:				
Hoist control	1	1	<u>7½</u>	
Lights	1	2 (2)	<u>4</u>	11½
REPUBLIC MINE:				
Engine house lights	1	1	<u>7½</u>	
Water Power Plant Lights	1	1	<u>1½</u>	
" " " "	1	1	<u>3</u>	12
PALMER SUBSTATION:				
Circuit breaker control	1	1	<u>1½</u>	1½
AUSTIN MINE:				
Shop	1	1	<u>10</u>	10
GARDNER MINE:				
Cage hoist control	1	1	<u>10</u>	10
MACKINAW MINE:				
Machine Shop	1	2 (5)	10	
Hoist control	1	1	10	
Top tram	1	1	1	
7th level Engine House lights	1	1	1	
Engine house heaters - 5th level	1	1	<u>3</u>	25
PRINCETON #2:				
Stockpile	1	2 (10)	20	20
PRINCETON #3:				
Lighting and bell system	1	1	<u>1½</u>	1½
PRINCETON CENTRAL POWER PLANT:				
Coal Crusher	1	3 (7½)	22½	
Power plant lights	1	1	<u>10</u>	32½
PRINCETON CENTRAL SHOPS:				
Power and Lights	1	2 (10)	20	20
GWINN DISTRICT OFFICE:				
Lights	1	1	<u>10</u>	10
PRINCETON PUMP STATION:				
Power	1	3 (15)	45	
Lights	1	1	<u>5</u>	50
GWINN DISTRICT CRUSHING PLANT:				
Power and Lights	1	2 (10)	20	20
GWINN SUBSTATION:				
Lights	1	1	<u>1/2</u>	1/2
			fwd.	<u>2,172</u>

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1935

Electrical Department: (Cont'd)

Distribution Transformers (Cont'd)

	brt.	fwd.	<u>Phase</u>	<u>No.</u>	<u>K.V.A.</u>	<u>TOTAL K.V.A.</u>
						2,172
AU TRAIN WATER POWER:						
Operators dwelling lights			1	1	2	
Control			1	3 (1)	3	
Power and Lights, Dixon Location			1	1	5	
" " " 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	2 (5)	10	
Dixon Tie Mill			1	3 (3)	9	
Power Saw			1	2 (5)	10	
Grand Island			1	1	7½	
" " "			1	2 (5)	10	
Dixon Location, power			1	1	<u>3</u>	
						84½
CARP RIVER WATER POWER PLANT:						
Power and lights			1	1	10	
" " "			1	1	20	
Pump			1	2 (1)	<u>2</u>	
						32
HOIST PLANT:						
Power and Lights			1	3 (10)	<u>30</u>	
						30
McCLURE PLANT:						
Power and Lights in Plant			1	2 (10)	20	
" " " " Houses			1	1	5	
" " " " "			1	1	<u>15</u>	
						40
ESCANABA RIVER PLANT:						
Power and Lights			1	3 (5)	<u>15</u>	
						<u>15</u>
					<u>GRAND TOTAL</u>	2,373½
RETAIL SERVICE:						
Princeton Location Lighting			1	1	5	
Austin " "			1	1	10	
Gwinn Street Lights			1	2 (1)	2	
" " "			1	1	2	
" 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 (15)	30	
" 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	5	
" " "			1	1	7½	
Sundell "			1	1	5	
" " "			1	2 (3)	6	
" " "			1	1	2½	
" " Rural			1	9 (1½)	13½	
Rumely "			1	1	5	
" " "			1	1	2½	
" " Rural			1	9 (1½)	<u>13½</u>	
					fwd.	197

ANNUAL REPORT

YEAR 1935

Electrical Department: (Cont'd)

Distribution Transformers (Cont'd)		Phase	No.	K.V.A.	TOTAL K.V.A.
RETAIL SERVICE				197	
	brt. fwd.				
Eben School		1	1	10	
" Corner		1	1	7½	
" Lighting (Hallstrom)		1	1	5	
" " (Ahola & Micklow)		1	1	5	
" "		1	4 (3)	12	
" "		1	12 (1½)	18	
Chatham "		1	1	10	
" " (Heldmann's Store)		1	1	5	
" " (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	
" " (Camp Chatham)		1	1	5	
" " (Rural)		1	1	3	
" "		1	15 (1½)	22½	
" "		1	3 (1)	3	
			<u>TOTAL</u>		343

Spare Transformers on hand December 31st, 1935:

GENERAL STOREHOUSE & BARN:

General Electric for 440 V. Shaft Pump	1	1	100	
" " from Republic	1	1	7½	
" "	1	1	75	
" "	1	1	5	
" "	1	1	25	
" "	1	1	3	
" "	1	1	3	
" "	1	1	10	
" "	1	1	25	
" "	1	1	7½	
" "	1	1	5	
" "	1	1	7½	
" "	1	1	5	
" "	1	1	2	
" "	1	1	5	
" "	1	1	3	
" "	1	1	5	
" "	1	1	5	
New Westinghouse Elec. & Mfg. Co.	1	1	1½	
" " "	1	1	1½	
" " "	1	1	1½	
New General Electric	1	3 (15)	45	
" " "	1	3 (10)	30	
" " "	1	3 (5)	15	
" " "	1	2 (3)	6	
				399
ATHENS MINE:				
Spare	1	1	3	
"	1	1	3	
				6
REPUBLIC MINE:				
General Electric	1	1	4	
				4
GWINN SUBSTATION:				
Spare	1	1	10	
"	1	1	10	
				20
PRINCETON MINE ENGINE HOUSE:				
Surface Lighting	1	1	5	
				5
			<u>TOTAL</u>	434

MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1935

COMPARATIVE TABLES:

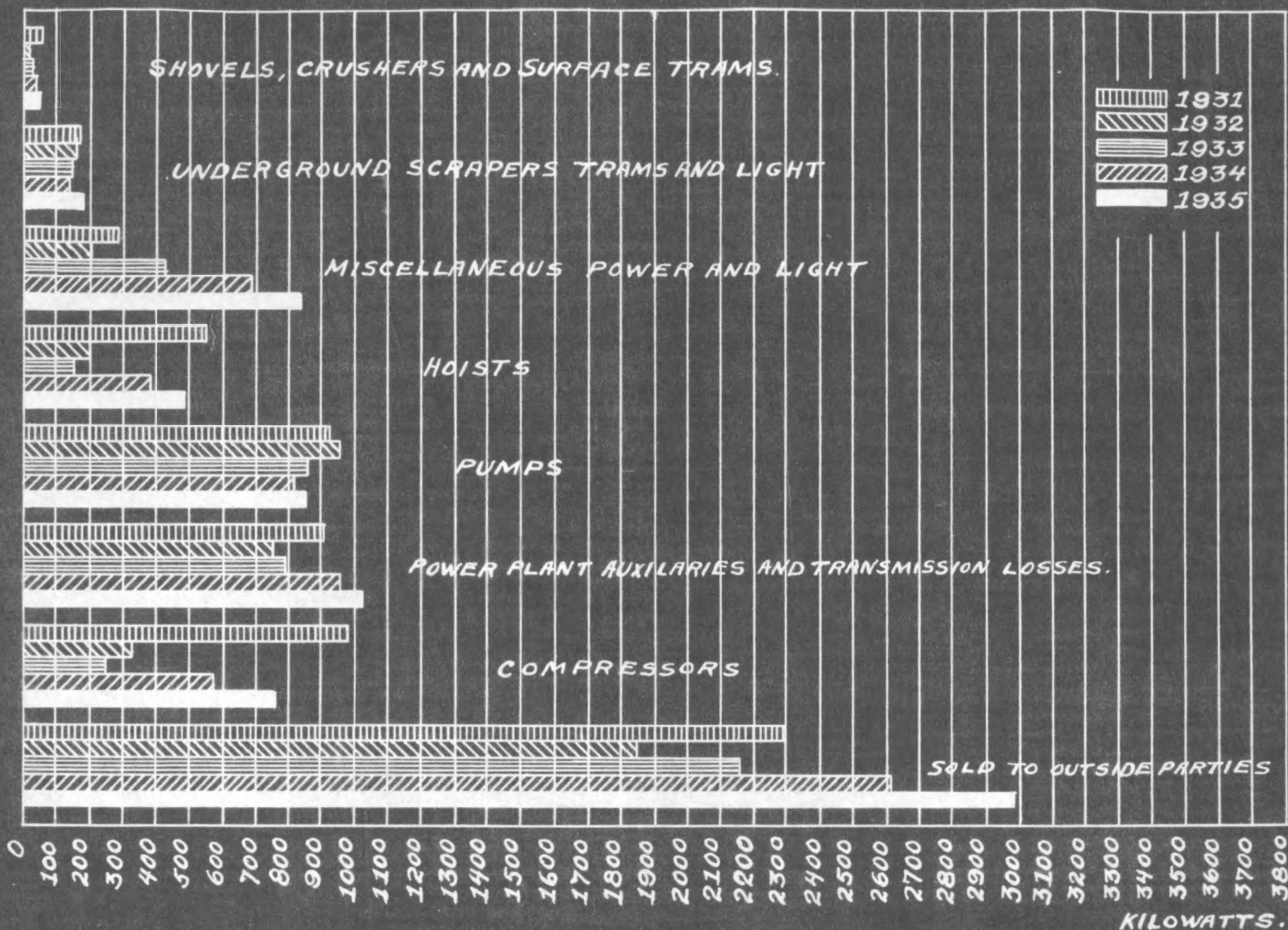
<u>YEAR</u>	<u>TONS COAL BURNED</u>	<u>TONS ORE & ROCK HOISTED</u>	<u>CU. FT. AIR USED</u>	<u>CUBIC FT. AIR PER TON HOISTED</u>	<u>GALLONS OF WATER PUMPED</u>	<u>G.P.M.</u>
<u>CLIFFS SHAFT MINE:</u>						
1926	1,470	350,604	801,351,000	2,285	379,727,700	
1927	957	426 830	766 647 000	1 796	440 517 425	
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
<u>ATHENS MINE:</u>						
1926	869	226,229	547,650,000	2,421	140,788,044	
1927	790	233 221	679 815 000	2 914	127 086 869	
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	1 060 650 000	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
<u>MAAS MINE:</u>						
1926	829	245,992	420,930,000	1,711	508,242,996	
1927	767	274 586	521 730 000	1 900	534 129 791	
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	
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
<u>NEGAUNEE MINE:</u>						
1925	1,100	342,824	660,600,000	1,927	436,422,253	
1926	1 229	374 004	602 010 000	1 609	440 271 619	
1927	1 139	501 516	895 680 000	1 785	603 746 976	
1928	1 278	472 458	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

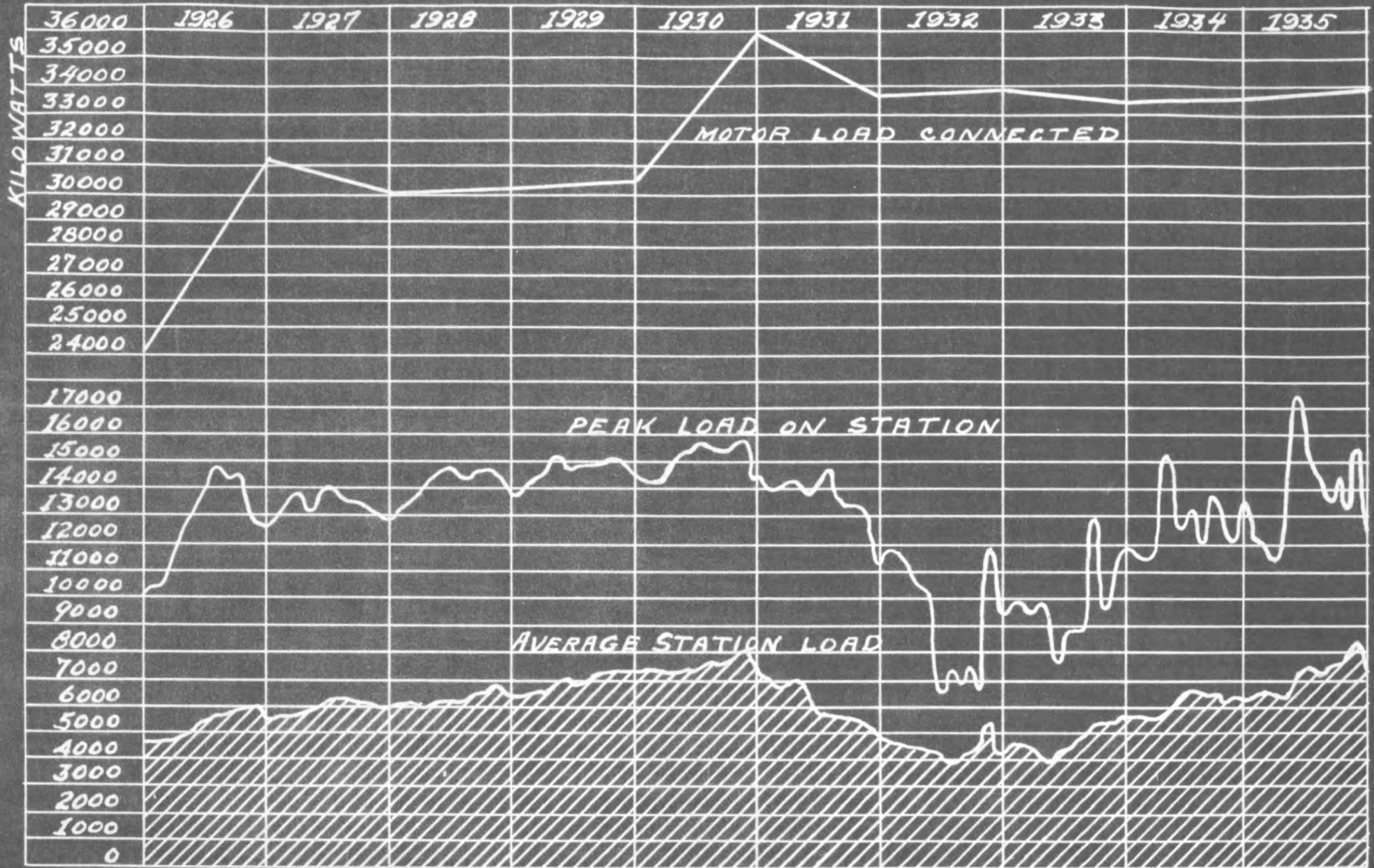
MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1935

COMPARATIVE TABLES:

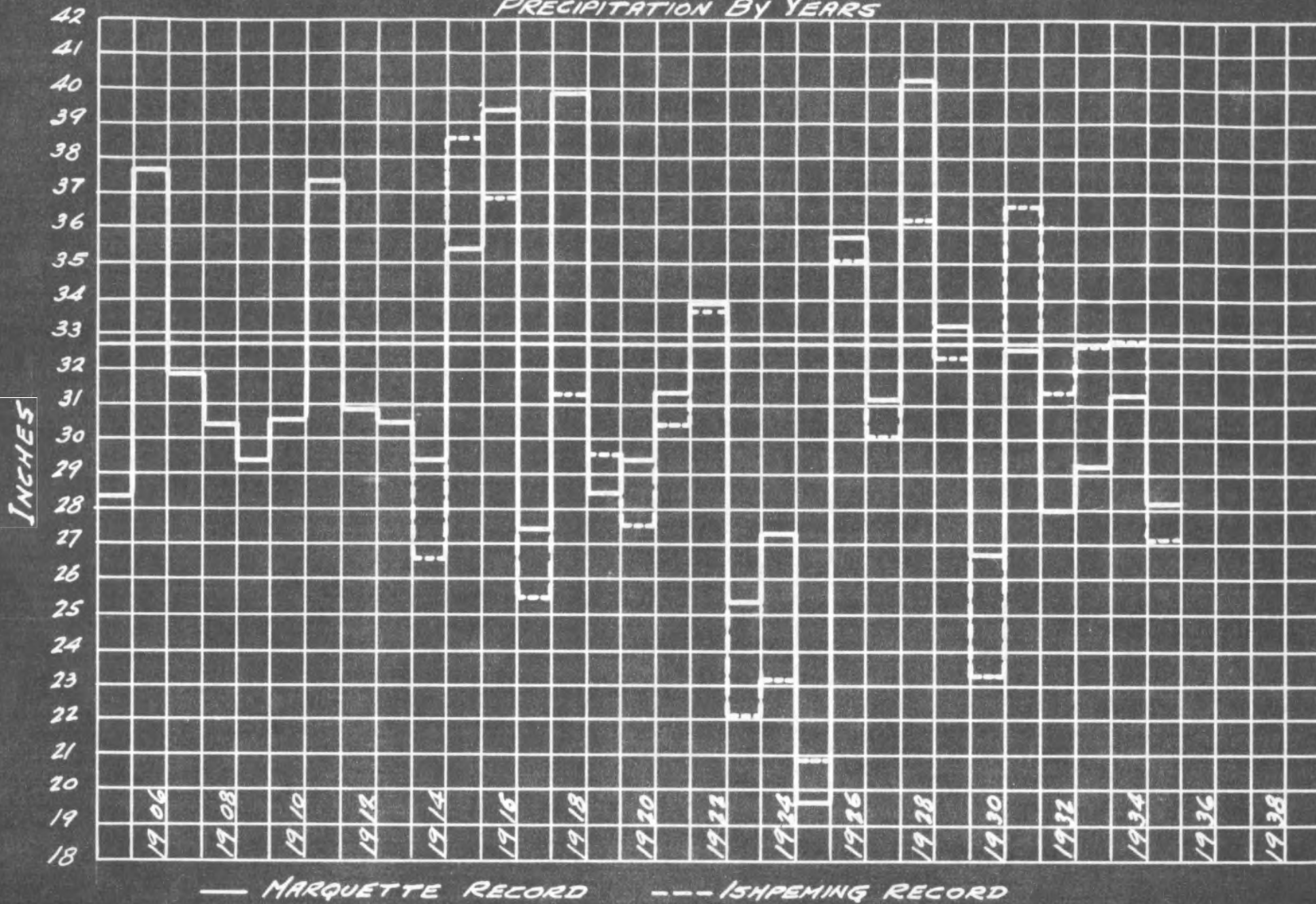
<u>YEAR</u>	<u>TONS COAL BURNED</u>	<u>TONS ORE & ROCK HOISTED</u>	<u>CU. FT. AIR USED</u>	<u>CUBIC FT. AIR PER TON HOISTED</u>	<u>GALLONS OF WATER PUMPED</u>	<u>G.P.M.</u>
<u>TILDEN MINE:</u>						
1929	625	441,769				
1930	498	287 043				
1931	244	137 010				
1932	38	19 957				
1933	164	94 194				
1934	325	167 688				
1935	394	190 511				
<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		
<u>GARDNER-MACKINAW MINE:</u>						
1928	336	91,293	214,020,000	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	74 823 761	
1931	152	80 801	489 240 000	6 054	172 438 518	
1932	106	24 781	126 945 000	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

DISTRIBUTION OF ELECTRIC POWER 1931-1932-1933-1934-1935.





PRECIPITATION BY YEARS



— MARQUETTE RECORD

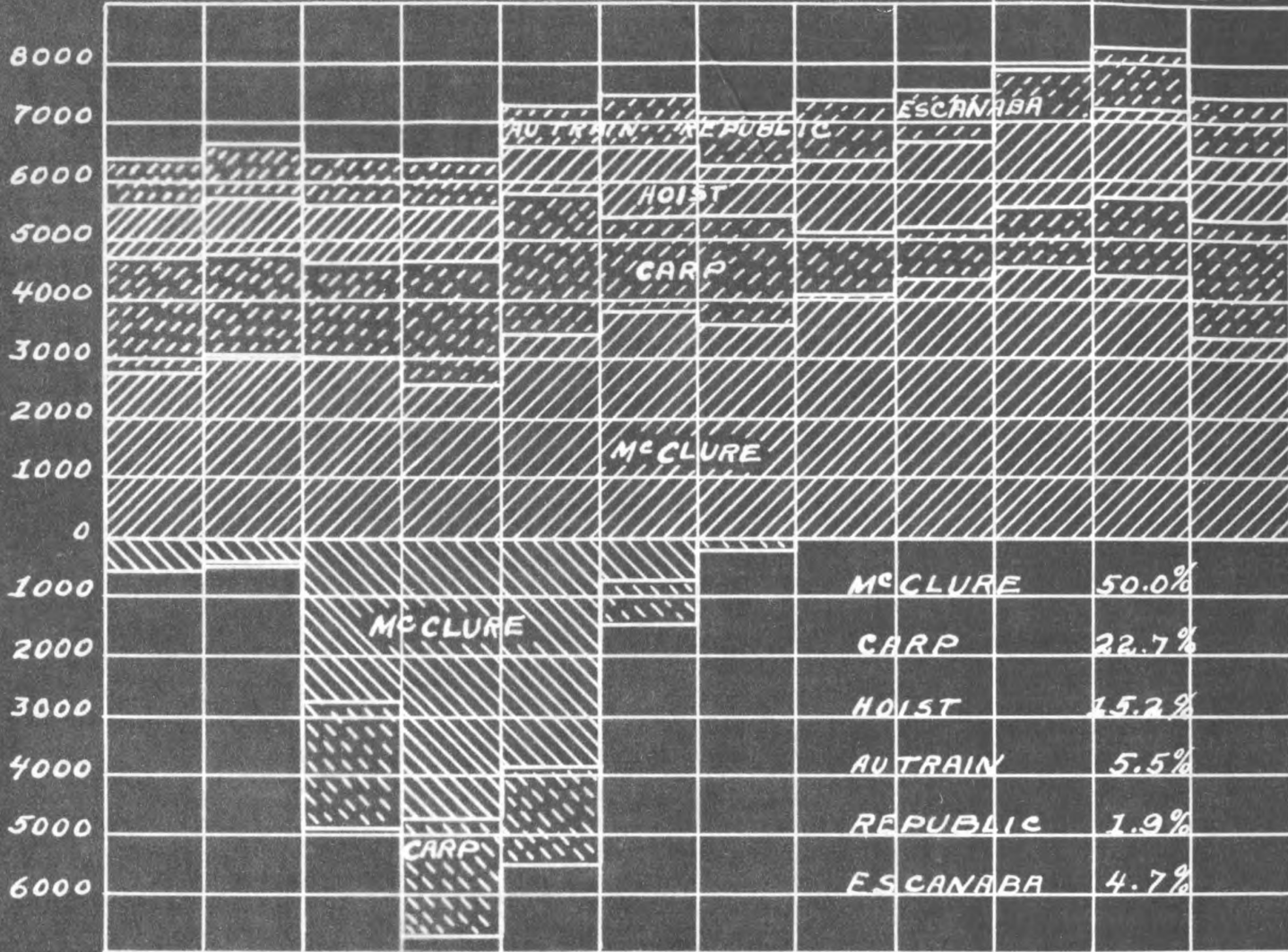
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1935

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

AVERAGE LOAD
KILOWATTS.

WATER LOST
KILOWATT EQUIVALENT



CURRENT MADE BY WATER POWER
 WATER LOST BY OVERFLOW
 POWER PURCHASED

McCLURE	50.0%
CARP	22.7%
HOIST	15.2%
AUTRAIN	5.5%
REPUBLIC	1.9%
ESCANABA	4.7%

PENSION DEPT. ANNUAL REPORT YEAR 1935.

11.

a. Workmen's Compensation.

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

The injured man is seen just as soon as possible following an accident and this has served to make the man realize the advantages of the Workmen's Compensation Law, and in this way it has been possible to readily secure the signature of the man to the compensation agreement.

All payments have been made promptly, the checks being delivered to the men here at the office, when they are able to come for them, or they are delivered to them at the hospitals or at their homes.

In the outside districts the mine clerks do this work for us.

In many cases this year while the mines were operating on a reduced basis the compensation paid is more than the men would receive on their return to work, but there has been very little difficulty in getting them to return to work when the physicians have reported them able to do so and there was work for them.

The compensation based on the Michigan Law is $66 \frac{2}{3}$ per cent of the weekly wage which is six times the daily wage, regardless of the number of days regularly employed. In Minnesota the minimum weekly wage to be considered is five and one-half times the daily wage.

The men have shown a good spirit in returning to work just as soon as possible.

The reduced number of accidents will result in reduced compensation costs which will be reflected in total costs as the old cases are ended, which run for 300 weeks in the case of a fatality and for 500 weeks for total disability.

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

Linnea Erkkila.

Miss Erkkila was employed as a nurse at the Ishpeming Hospital until November 1934 when she claims that she was disabled as a result of an anti-typhoid inoculation administered some months before. She filed a claim for compensation through her attorneys, Derham & Derham. We requested her to submit to an examination by our doctors, which she refused to do. The Derhams withdrew from the case shortly before the first hearing, which was scheduled for January 28th, 1935. Miss Erkkila did not appear and the case was postponed; and it was again postponed on March 7th because of her non-appearance. The hearing was then set for March 20th and when she failed to appear for the third time the Deputy Commissioner permitted us to enter our defense and he later made an award in our favor.

David Lampinen - Athens Mine.

Lampinen won a decision before a Deputy Commissioner on October 19, 1934, for a leg injury which he claims occurred on May 29th, 1930. We appealed from this decision and the case was heard before the Full Board on March 20, 1935. They reversed the decision of the Deputy Commissioner on the ground that Lampinen's claim had not been made within the statutory period.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

11.
a. Workmen's Compensation (Continued)

William Merrila - Negaunee Mine, Acc. Rept. #605.

Claim was filed against the Fidelity & Casualty Company by Eli, 22, and Emil, 21, younger brothers of William Merrila, who was accidentally killed on March 20, 1934. Both claimed they were dependent upon him at the time of his death and, therefore, entitled to compensation. Their claim was denied by a Deputy Commissioner and they appealed, and following the hearing before the Full Board on March 20, 1935, compensation was again denied. Their attorney then tried to bring the case before the Supreme Court but writ of certiorari was denied, which closes the case.

Emil Linna - Cliffs Shaft Mine.

On October 17th, 1935, Linna filed an application for adjustment of claim in which he asked that he be allowed compensation, either total or partial, because of a hernia which he suffered on November 30, 1932, while employed at the Cliffs Shaft mine. Linna did have a hernia repaired at the Ishpeming Hospital on December 2, 1932, but we denied that it was due to an accidental injury. In a hearing before the Deputy Commissioner held on November 22, 1935, he received an award covering the period from December 2, 1932, to March 1, 1933, this being the period he was disabled following his operation. Linna has appealed from this award. Following his return to work on March 1, 1933 he was employed at the Cliffs Shaft mine until April 30th, 1933, when the mine shut down. Following this he was employed on various relief projects until August 14, 1935, and he feels that he should have partial compensation during this period and total compensation after August 14th. No date has been set for the hearing before the Full Board.

Adolph Wheeler- Negaunee Mine, Acc. Rept. 584.

Wheeler was employed on the top tram at the Negaunee Mine. On March 29, 1930, some ore slid out of the chute and struck his left leg, tearing the ligaments of the knee. He was disabled until May 19, 1930, when he returned to work at his regular job and continued in our employ until October. He had suffered from myocarditis for some time and had been under a doctor's care. Because of his heart condition his physician recommended that he quit work and he decided to take his pension. He was put on the pension roll on January 1, 1931, and he died on February 12th. In October 1935 Mrs. Wheeler filed a claim for compensation in which she states that her husband's death was attributable to the injury which he sustained on March 29, 1930. Her claim came on for hearing before a Deputy Commissioner on November 22, 1935 but Mrs. Wheeler did not appear and the case was continued. It will undoubtedly be scheduled for hearing early in 1936.

Sidney Wales - Spies Virgil Mine, Acc. Rept. #144.

Wales was injured at the Spies Virgil mine on June 22, 1933. He was picking samples on a loaded railroad car when in some manner he fell from the car, landing in a sitting position on the ground some ten or twelve feet below. X-rays reveal no bony injury but since the accident Wales complained of pains in the back and hips and disability in one leg. He was paid compensation by

PENSION DEPT. ANNUAL REPORT YEAR 1935.

11.
a. Workmen's Compensation (Continued)

Sidney Wales, (Continued)

The Fidelity and Casualty Company from the date of the accident to August 15, 1935, when they petitioned the Department of Labor and Industry for a stop order. The case was set for hearing on September 23rd, but was postponed due to the inability of two of the doctors to appear on that date. The case was heard at Crystal Falls, Michigan, on December 19th, 1935, the testimony on both sides being wholly medical. Wales had just returned from Ann Arbor on the day before the hearing, he having gone there on his own initiative, and as the defense was uncertain as to whether they would wish to take the deposition of the physician who examined him in Ann Arbor, the Deputy allowed him until January 2, 1936, to decide. If Wales decides to take the deposition of the Ann Arbor physician we will obtain the deposition of Dr. Spencer Braden of Ann Arbor, who made an examination of Wales at the Ishpeming Hospital in August 1935.

Julius Hedstrom.

Hedstrom suffered a contusion of the chest at the Athens Mine on April 20, 1934, when the sling holding poles which were being hoisted broke and the rope caught him around the chest. He lost no time until January 10th, 1935, when he claims he was forced to give up work because of the pain in his chest. Hedstrom felt that the above injury aggravated an old injury which he received at the Gardner-Mackinaw mine on December 15, 1930, when he fractured several ribs; an opinion concurred in by Dr. MacIntyre, who is caring for him. Hedstrom returned to work as a dryman at the Gardner-Mackinaw mine in November 1935. While he was idle we rendered some assistance. He has made no formal demand for compensation and he probably will not do so.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

11.

a. Workmen's Compensation (Continued)FATALITIES:

The following fatalities occurred during 1935.

<u>John E. Oja</u> Age 42	Cliffs Shaft Mine, Acc. Rept. #1071. Occurred April 15, 1935. Moving chunk with a bar. Tip of bar broke off and he lost his balance and fell into a raise. Compensation at \$18.00 a week for 300 weeks	5400.00
	Funeral Expense	200.00
		\$ 5600.00

<u>Gabriel Saari</u> Age 52	Cliffs Shaft Mine, Acc. Rept. #1073. Occurred July 10, 1935. Fall of ground. Compensation at \$18.00 per week for 300 weeks	5400.00
	Funeral Expense	200.00
		\$ 5600.00

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

<u>Mine</u>	<u>Name</u>	<u>Acct. Rept.</u>	<u>Date of Accident</u>	<u>Date of Final Payment</u>
Holmes	Solomon Ristimaa	410	9/28/29	6/29/35
Lloyd	Allesandro Boz	755	12/10/29	9/10/35
Maas	Joseph Paris	447	12/14/29	9/13/35
Athens	Peter Koskela	324	3/25/30	12/24/35
Maas	August Kaheliin	458	1/ 5/31	Lump sum

settlement made in July 1935.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

11.

a. Workmen's Compensation (Continued)

Following is a list of the more serious cases occurring during 1935 other than fatalities:

<u>Mine and Report No.</u>	<u>Name</u>	<u>Nature of Injury</u>	<u>Compensation Paid.</u>
Athens #336	Issac Maki	Fracture of 3 transverse processes of spine	360.00 *
Maas #476	Alfred Laak	Loss 1/2 index finger.	315.00
Maas #480	James Langdon	Fractured right patella.	50.40 *
Lloyd #775	Clarence LaFreneire	Fractured right femur.	288.00 *
Negaunee #609	Emanuel Thomas	Fractured both femurs.	235.20 *
Gardner-Mackinaw #68	Floyd Erickson	Compound comminuted fracture right fibula	483.00 *
Gardner-Mackinaw #69	Charles Poggi	Fracture of left tibia and fibula	444.00 *
Canisteo #17	Mike Hecemovich	Loss of 1/2 right index finger, 40% of middle finger, and 35% of ring finger.	306.28 *

* Payments are still being made.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

11.

a. WORKMEN'S COMPENSATION (Continued)

Compensation Payments including Medical Expense.

<u>Year</u>	<u>C. C. I. Co.,</u>	<u>Negaunee</u>	<u>Athens Ir.</u>	<u>Cliffs Pr.</u>	<u>Mesaba Cl.</u>	<u>Holman Cl.</u>	<u>Canisteeo</u>	<u>Alexandria</u>	<u>TOTAL</u>
	<u>Co.</u>	<u>Mine Co.</u>	<u>Mng. Co.</u>	<u>& Light Co.</u>	<u>Ir. Mng. Co.</u>	<u>Mng. Co.</u>	<u>Cl. Mng. Co.</u>	<u>Mine</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		2952.08				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	1831.30	4576.56				106371.18
1929	76959.01	8899.76	6303.92	1895.50	3557.86	9.00			97913.38
1930	76753.51	10603.63	5803.45	1930.48	2531.15	292.83	4.50		102209.24
1931	75167.79	10723.30	5233.65	1867.50	1489.36	1236.18	1357.05	1993.76	98088.74
1932	52920.75	12137.00	5012.72	1398.25	1336.00	559.63	1346.64	1700.87	73972.97
1933	23425.69	9605.70	5298.56	993.45	2180.61	33.75	65.50	1074.00	42128.01
1934	26672.34	7573.97	8429.38	468.46	2468.61			614.00	45612.76
1935	34874.17	6854.34	5154.12	218.75	3778.56				50879.94
Totals \$	1168198.43	149169.86	96087.35	12057.95	68344.36	2131.39	2768.69	5382.63	1504140.66

PENSION DEPT. ANNUAL REPORT YEAR 1935.

11.
a. WORKMEN'S COMPENSATION (Continued)

ANNUAL STATEMENT OF COMPENSATION PAYMENTS
FROM JANUARY 1ST, 1935 to DECEMBER 31st, 1935.

Compensation paid on 1935 accidents	6668.58	
Compensation still pending	73080.32	
Cost of medical and hospital service	<u>11292.25</u>	
Total		\$ 91041.15
Less pending for years 1926 to 1934 inclusive	58740.42	
Less medical paid on accidents occurring prior to January 1, 1935	324.00	
Less medical paid on Insurance Company cases	<u>65.00</u>	
		<u>59139.42</u>
Cost of 1935 accidents		31911.73
Percentage of payrolls		.01675
Number of accidents on which compensation payments were made		39
Number of non-compensable accidents		2
Number of slight accidents which caused not over 1 day's lost time		282

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

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

ANNUAL REPORT - YEAR 1935

STATEMENT OF COMPENSATION PAYMENTS FROM
JANUARY 1, 1935 TO DECEMBER 31, 1935.

	Average No. of Employees	No. of fatal Accs.	No. of Non-Fatal Accidents	Actual Comp. Paid in 1935	1922	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	Estimated Compen- sation still Pending	Actual Payments to Phy- sicians	Continuing Cases		
Cliffs Shaft	315	2	5	51	8012.48			1872.00				936.00			3207.90	1996.58	21446.64	1974.50	4	6	
Cliffs Shaft Laboratory	3																	18.00			
Chief of Police	1																	6.00			
District Welfare	4																	24.00			
Employs Wood, Gwinn District					624.00																
Gardner-Mackinaw	127		2	7	981.00								624.00			981.00	3948.00	837.75		1	
General Storehouse	69		2	14	1039.21						936.00				43.20	146.41	117.52	417.00	1	2	
General Welfare	2																956.00	9.00			
Geological Department	1																	3.50			
Gwinn Office	1																	6.00			
Holmes					1372.80					468.00	904.80						3514.80			1	
Ishpeming Office	15																	95.00			
Lloyd	158		6	39	5306.33		728.00			413.28	2189.60	936.00				1039.45	9739.40	982.25	2	6	
Maas	307		12	49	8008.56	919.34	1932.00			666.00		2549.64			786.75	1155.83	6230.77	1931.75		7	
Mechanical Engineering	3																	15.00			
Mining Engineering	5																	32.50			
Purchasing Department	4																	21.50			
Republic					245.29				245.29												
Safety Department	1																	3.00			
Shipping Department	4																	22.50			
Spies Virgil	12																	137.75			
Stephenson					1512.00		56.00	728.00	728.00									379.67		2	
Tilden	37		1	5	936.00										936.00		4068.00	224.50	1		
Workmen's Compensation	1																	9.00			
Saranac Investigation																		2.50			
Miscellaneous	50		1															4.50			
The Cliffs Power & Light Co.	35		1	1	6.00											6.00		212.75			
Negaunee	235		1	36	5411.34		129.60		808.86	1872.00	1200.88	249.60			915.20	235.20	14718.88	1443.00		7	
Athens	201		3	39	3903.62		799.86		83.20	936.00	936.00	235.76			435.80	477.00	4440.00	1250.50		6	
Total - Michigan Mines	1601	2	33	1241	37358.63	919.34	56.00	4317.46	2600.00	1137.35	4355.28	5231.28	5842.00	624.00	6238.45	6037.47	69039.68	9673.75	8	38	
Hibbing Office	11																	69.00			
Holman Brown	6																	34.50			
Canisteo	224		4	141	1561.90									206.08	724.71	631.11	281.58	1482.00		1	
Hill Trumbull	6				667.16						667.16						3759.06	33.00	1		
Total - Minnesota Mines	247		4	141	2229.06						667.16			206.08	724.71	631.11	4040.64	1618.50	1	1	
Total - All Mines	1848	2	37	2282	39587.69	919.34	56.00	4317.46	2600.00	1137.35	4355.28	5899.44	5842.00	624.00	206.08	6953.16	6668.58	73080.32	11292.25	9	39

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

PENSION DEPT- ANNUAL REPORT YEAR 1935.

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 1935.

11.
a. Workmen's Compensation (Continued)

Estimated cost of accidents which occurred at Michigan properties during the year from May 17, 1933 to May 16th, 1934, inclusive, the compensation risk being carried by The Fidelity & Casualty Company of New York during this period.

	<u>C.C.I.Co.</u>	<u>C.P.&L.Co.</u>	<u>Negaunee Mine Co.</u>	<u>Athens Iron Mng.Co.</u>	<u>Total</u>
Premium earned	9197.47	664.87	1564.67	1338.09	12765.10
Medical Expense	<u>4014.43</u>	<u>164.30</u>	<u>814.99</u>	<u>727.16</u>	<u>5720.88</u>
	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	<u>2034.00</u>	<u>757.12</u>	-		<u>2791.12</u>
Total Compensation Payments	\$ 6487.20	1568.64	476.56	24.01	8556.41
Estimated Deferred Liability	<u>5144.63</u>	<u>2999.36</u>			<u>8143.99</u>
Cost of Accidents	11631.83	4568.00	476.56	24.01	16700.40
Premium Earned as above					<u>12765.10</u>
Estimated Loss to Insurance Company					\$ 3935.30

The case of Sidney Wales, Spies-Virgil Mine, is being contested. Hearing was held before a Deputy Commissioner on December 19th, 1935, but no decision has been received.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

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	.1268	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

PENSION DEPT. ANNUAL REPORT YEAR 1935.

11. Workmen's Compensation (Continued)

There were no changes made in the Compensation Law of Michigan in 1935.

There was a complete change in the Department of Labor and Industry. The Board is now as follows:

- Frank F. Ford, Chairman.
- William H. Wise,
- Frank B. Wade
- Betty W. Allie
- W. F. Doyle, Secretary.

John W. Bennett was appointed Deputy Commissioner for the Upper Peninsula District.

In June 1935 by separate enactment a Commission of five men was appointed to investigate the matter of occupational disease, to report thereon to the next legislature; including a form of law, which, in their opinion, will meet the requirements. Mr. Clancey was appointed one member of this commission.

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	As amended	In effect	In effect
	into effect	in effect		
	<u>Sept.1,1912</u>	<u>Aug.14,1919</u>	<u>Aug.18,1931</u>	<u>Sept.4,1927</u>
Percentage of weekly wages	50	60	60	66 2/3
Maximum weekly compensation	10.00	14.00	14.00	18.00
Minimum weekly compensation	4.00	7.00	7.00	7.00
Waiting period	2 weeks	1 week	1 week	1 week
Waiting period picked up at end of	8 weeks	6 weeks	6 weeks	6 weeks
Maximum payment	\$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 1935.

11. a. Workmen's Compensation (Continued)

MINNESOTA COMPENSATION LAW.

There were no changes made in the Minnesota Compensation Law in 1935.

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:

	When Law went into effect <u>Oct. 1, 1913</u>	As Amended April 26, <u>1919</u>	As Amended June 6, <u>1921</u>	In effect since Oct. 1, <u>1923.</u>
<u>MINNESOTA LAW.</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 1935

- 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 1935.

23.

a. PENSION SYSTEM.

The year 1935 completed the twenty-seventh 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.

No pensions were granted during the year.

The following Mining Department pensioners died during the year:

<u>No.</u>	<u>Name</u>	<u>Date Pensioned</u>	<u>Date Died</u>
45	John Baer	10/ 1/1913	1/30/1935
50	John Eckloff	5/ 1/1914	4/22/1935
107	Erick Peterson	1/ 1/1921	3/ 2/1935
153	Charles Letcher	5/ 1/1922	9/29/1935
182	Thomas Dawe	4/ 1/1925	8/ 4/1935
202	Thomas Lucas	12/ 1/1926	6/25/1935
206	John Westlund	4/ 1/1927	3/13/1935
218	Alfred Bone	11/ 1/1927	2/24/1935
220	Simon Uren	1/ 1/1928	6/ 1/1935
248	Fred J. Baker	12/ 1/1930	4/19/1935

Number of pensions granted during year	0	0
Number of Deaths	11	10
Number of Old Age pensions in force Dec. 31,	94	84
Average Annual Pension	288.79	284.33

There were no additions to the Furnace Department roll during 1935. There was one death, this being

<u>No.</u>	<u>Name</u>	<u>Date Pensioned</u>	<u>Date Died</u>
No. 18	Peter Bergstrom	1/ 1/29	1/21/35

On December 31, 1935, there were seven pensioners on the Furnace Department pension roll with an average annual pension of \$271.81.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

a. PENSION SYSTEM (Continued)

Pension payments for the years 1908 to 1935 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	<u>24987.66</u>	<u>0.00</u>	<u>24987.66</u>
	647002.14	22547.00	669549.14
Payment made by Cleveland Office in 1930	<u>2500.00</u>	<u> </u>	<u>2500.00</u>
	\$ 649502.14	22547.00	672049.14

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

a. PENSION SYSTEM (Continued)Furnace Department.

The pension payments for the years 1910 to 1935 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	1178.38	0.00	1178.38
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	<u>1930.54</u>	<u>0.00</u>	<u>1930.54</u>
	\$ 54217.38	\$ 900.00	\$ 55117.38

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

a. PENSION SYSTEM (Continued)

Republic Mine.

No new pensioners were added to the pay-roll during the year.

There are fourteen pensioners on the roll, the average annual pension being \$247.65.

The payments made from Oct. 1, 1920 to Dec. 31, 1935 are as follows:

1920	278.61
1921	3427.97
1922	5672.84
1923	6641.51
1924	8172.96
1925	8279.07
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	<u>4160.52</u>

\$ 127366.35

There were no deaths on the Republic Mine pension roll during 1935.

Land Department.

Erick Johnson continued on the pension roll during the year.

Total pension payments from January 1, 1927 to December 31, 1935, 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	<u>240.00</u>

\$ 2636.88

PENSION DEPT. ANNUAL REPORT YEAR 1935.

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 was turned over to the Marquette Chapter of the American Red Cross a small amount was retained to take care of outstanding checks and within a few years this balance can be safely turned over to the Red Cross if no further payments are called for.

During the year 1935 we had one call in regard to a payment from these funds. In the settlement of an estate check No. 370 of the Fatal Accident Fund, made payable to Axel Kulback, was discovered and payment was made of the amount of this check -\$2.22.

It is probably best to keep these funds intact in these small savings accounts for some time longer to make sure that there can be no question as to the payment to any people to whom the money rightfully belongs.

The funds turned over to the Red Cross were to be used for emergency relief and in accordance with this understanding some use has already been made of the funds. A new boiler was put in the hospital, and for a time the school furnished the fuel and Dr. Van Riper made examinations of the school children at the hospital. Later the School Board was short of funds and during 1935 coal was furnished from the funds in the hands of the Red Cross.

The statement of these balances in savings accounts at the Miners' National Bank and the Miners' First National Bank is as follows:

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- 23.
- b. Republic Mine Funds (Continued)

Republic Mine Relief & Sick Benefit Fund.

<u>Miners' National Bank</u>		
Amount on deposit Dec. 31, 1933		58.83
Distribution 1934 60%	35.30	
Distribution 1934 20%	<u>11.77</u>	<u>47.07</u>
Balance in old bank Dec. 31, 1934		<u>11.76</u>
Distribution 1935 12 1/2%		<u>7.35</u>
Balance in old bank Dec. 31, 1935		\$ 4.41

<u>Miners' First National Bank:</u>		
January 15th, 1934 60%		35.30
Interest for 1934		.79
Distribution 1934 20%		<u>11.77</u>
Balance Dec. 31, 1934		\$ <u>47.86</u>
Interest for 1935		1.12
Distribution 1935 12 1/2%		<u>7.35</u>
Balance December 31, 1935		\$ <u>56.33</u>

Republic Mine Fatal Accident Fund.

<u>Miners' National Bank</u>		
Amount on deposit Dec. 31, 1933		\$ 169.32
Distribution 1934 60%	101.59	
Distribution 1934 20%	<u>33.86</u>	<u>135.45</u>
Balance in old bank Dec. 31, 1934		<u>33.87</u>
Distribution 1935 12 1/2%		<u>21.17</u>
Balance in old bank Dec. 31, 1935		\$ <u>12.70</u>

<u>Miners' First National Bank.</u>		
January 15, 1934 60%		101.59
Interest for 1934		2.28
Distribution 1934 20%		<u>33.86</u>
Balance on hand Dec. 31, 1934		\$ <u>137.73</u>
Interest for year 1935		3.24
Distribution 1935 12 1/2%		<u>21.17</u>
		<u>162.14</u>
Check No. 370 paid		<u>2.22</u>
Balance on hand Dec. 31, 1935		\$ <u>159.92</u>

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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, because of the depression, 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.)

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23.

d. Visiting Nurses.

The following is the report of the Ishpeming Visiting Nurse for the year 1935:

Total number of patients cared for during year	539
Number of new cases cared for during year	262
Total number of visits to patients	3599
Number of families visited for the first time	36
Number of social calls	39
Number died	7

Classification of new cases for the year:

Number of adults	146	Male	20	Female	126
Number of children	116	Male	57	Female	59

Nationalities of new cases for the year:

American	193	Italian	13
English	16	Norwegian	3
Finnish	23	Swedish	7
French	7		

Diseases and number of new cases:

Anemia	2	Fracture	1	Paralysis	1
Asthma	4	Heart trouble	11	Phlebitis	2
Bowel Trouble	1	Hypertension	1	Pleurisy	1
Bronchitis	2	Hysterics	1	Pneumonia	3
Burns	2	Infants, Newborn	17	Post Operative	24
Bursitis	1	Infections	19	Prenatal	22
Carcinoma	5	Influenza	7	Pul. Tuberculosis	1
Child Welfare	15	Injury	15	Rupture	3
Cold	13	Lumbago	1	Scarlet Fever	6
Cyst	1	Mal-Nutrition	1	Stomach Trouble	2
Cystitis	1	Mastoditis	4	Tonsilitis	9
Diabetes	2	Miscarriage	3	Unclassified	16
Dysentery	1	Obstetrical	11	Undiagnosed	4
Eczema	1	Otitis Media	1	Var. Ulcer	5
				Whooping Cough	19

Visiting Nurse: Miss Myrtle Welander.

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23.

d. Visiting Nurses (Continued)

The following is the report of the Neegaunee Visiting Nurse for the year 1934:

Total number of patients cared for during year	1055
Number of new cases cared for during year	667
Total number of visits to patients	5318
Number of families visited for the first time	4
Number of families investigated	22
Number of families helped	8
Number of social calls	535
Number died	9

Classification of new cases for the year:

Number of adults	292	Male	69	Female	223
Number of children	375	Male	196	Female	179

Nationalities of new cases for the year:

American	359	Austrian	1
Danish	1	French	8
English	15	Italian	23
Finnish	243	Swedish	17

Diseases and number of new cases:

Aenemia	2	Grippe	9	Pleurisy	3
Appendicitis	29	Heart Trouble	8	Pneumonia	2
Asthma	1	Infants, Newborn	19	Post Operative	101
Bowel Trouble	22	Infections	27	Pregnancy	25
Bronchitis	8	Injury	30	Pyelitis	3
Burns	6	Larngitis	1	Quincy	4
Carcinoma	1	Lumbago	4	Rheumatism	3
Chicken Pox	7	Mal-Nutrition	23	Rupture	6
Cholystitis	6	Mastoditis	1	Scarlet Fever	78
Cold	42	Mastoid	2	Sore Eyes	3
CCystitis	2	Measles	11	Sprains	3
Diabetes	4	Mumps	1	Stomach Trouble	7
Eczema	1	Neuritis	1	Tonsalitis	38
Epistaxis	1	Obstetrical	22	Unclassified	4
Gastro-Enteritis	1	Otitis Media	10	Undiagnosed	3
Gastric-Ulcer	19	Pertusis	14	Var. Ulcer	2
Gen. Debility	2	PetetMal	1	Whooping Cough	44

Visiting Nurse: Miss Ina E. Atkin.

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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	539	262	20	126	57	59
Negaunee	<u>1055</u>	<u>667</u>	<u>69</u>	<u>223</u>	<u>196</u>	<u>179</u>
	1594	929	89	349	253	238

	<u>Total No. of Visits</u>	<u>Number Died</u>	<u>Social Calls</u>	<u>Families Visited for the First Time.</u>
Ishpeming	3599	7	39	36
Negaunee	<u>5318</u>	<u>8</u>	<u>535</u>	<u>4</u>
	8917	15	574	40

NATIONALITIES OF CASES:

	<u>American</u>	<u>Austrian</u>	<u>Danish</u>	<u>English</u>
Ishpeming	193	0	0	16
Negaunee	<u>359</u>	<u>1</u>	<u>1</u>	<u>15</u>
	552	1	1	31

	<u>Finnish</u>	<u>French</u>	<u>Italian</u>	<u>Swedish</u>
Ishpeming	23	7	13	7
Negaunee	<u>243</u>	<u>8</u>	<u>23</u>	<u>17</u>
	266	15	36	24

	<u>Norwegian</u>
Ishpeming	3
Negaunee	<u>0</u>
	3

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23.

f. North Lake Club.

The work of the Club has continued during the year under the supervision of Mr. Stakel. George S. Bowden has acted as Treasurer and Dewey Urquhart as superintendent.

The Inland Steel Company has cooperated in it's operation and management and the Club is filling a very useful place in the community.

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23.

g. Gwinn Association.

Mr. E. L. Miller has continued in charge of the work at the Club House as superintendent.

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.

Those employed at the mines have paid 50 cents per month and the School Board pays a substantial sum for the use of the building for its physical training and the assistance rendered by Mr. Miller in this and the school athletic work.

In November 1932 it was decided to reduce the payments made by the men to 25¢ per month, the Company paying an additional 25 cents.

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23.

g. Gwinn Association (Continued.)

The following report and summary of the activities of the Association Club-House has been taken from the records kept daily during the year. The report includes activities taking place in the Club House and those which are supervised by other agencies but where the equipment is furnished by the Club, whether taking place in-doors or on some location under the control of the Association.

MEMBERSHIP

The membership held steady during the year, due mostly to the fact that the number of men employed at the Gardner-Mackinaw Mine showed only a slight variation during the year.

Number members on roll January 1st, 1935	229
Number members on roll January 1st, 1936	248
High membership for year - December	248
Low membership for year - July	199
Average monthly membership	232
Number of men securing membership by working on wood-cutting job	41

ATTENDANCE.

The estimated attendance at the building showed an increase for the fall and winter months, but a decrease during the period when Eastern Standard time is used. More local residents are securing summer cottages on the near-by lakes and their families are spending their spare time enjoying camp life.

Total estimated attendance at building	67780
Average monthly attendance	5730

The attendance for outdoor activities showed an increase, due to the fact that the ice skating rink has been enlarged and also to the fact that a better check was secured on the activities at Bass Lake camp due to having a regular caretaker at that location.

Estimated attendance covering ice skating rink, playground, tennis and horse-shoe courts, baseball leagues for adult men and junior boys, playground ball for girls, supervision of Association baseball team and Bass Lake Camp . . .	18,165
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RECEIPTS AND EXPENDITURES:

Total Receipts, including 1934 balance(\$1,084.90)	\$ 5,251.20
Total Expenditures 1935	4,011.95
Balance January 1, 1936	1,239.25

BUFFET ACCOUNT.

Receipts for year	220.30
Expenditures for year	134.83
Profit	85.47

BILLIARD AND BOWLING ACCOUNT.

Receipts for year	431.00
Expenditures for year	150.78
Profit	\$ 280.22

23.

g. Gwinn Association (Continued)

GENERAL ACTIVITIES AND ORGANIZATIONS USING BUILDING.

- 18 General committee meetings.
- 164 sessions kindergarten school
- 16 meetings Women's Study Club.
- 9 meetings - 3 social parties - 1 annual dance - Town Club.
- 2 parties under supervision High School - no dancing.
- 5 dancing parties by High School classes.
- 5 dancing parties by Married Folks.
- 3 meetings by Sportsmen's Association.
- 3 meetings by local Chamber of Commerce.
- 8 social dances by different organizations.
- 24 total number of dances by different organizations for year.
- 15 rehearsals for local plays.
- 5 social card parties to raise funds by different organizations.
- 99 lunches or dinners served by different organizations.

EVENTS OF SPECIAL INTEREST.

- Annual Physical Training Exhibition by High School students.
- Annual Easter Monday Ball by local Firemen.
- Annual Meeting of Managers - InterCounty Baseball League.
- Annual Junior Party Prom by Junior Class High School.
- Annual Scout Ceremonial by Local Scout Council and Troops.
- Annual Chicken Supper by St. Anthony Guild.
- Banquet and Dance arranged by Town Club in honor of High School Basketball team championship.
- Annual Party for Scout Mothers by Scout Troops.
- Annual Dance to raise funds for Christmas treat by Town Club.
- Annual Card Party by Ladies Guild.
- Annual Church Supper by Methodist Church.
- Annual Hallowe'en Party by Junior High School students under supervision of faculty.
- Annual Christmas treat by Entire Community.
- Annual Lute-fish supper by Gwinn Missionary Society.
- Annual Firemen's Ball by Local Firemen.

CHURCH ORGANIZATIONS USING BUILDING.

- 10 events by Church organizations to raise funds.
- 11 meetings by Gwinn Ladies Guild.
- 9 meetings - 1 dinner by Gwinn Missionary Society.
- 8 meetings by Methodist Ladies Aid.
- 3 suppers by different Church organizations.
- 1 bazaar and fair by Methodist church.
- 5 meetings by Swedish Ladies Guild.
- 6 meetings by St. Anthony's Guild.
- 3 social parties by Epworth League.

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23.

g. Gwinn Association (Continued)

ASSOCIATION BAND.

The Association Band was very active during the year. They held regular weekly rehearsals at the Club House and had several engagements, some of which were repeat engagements from the previous year. One exchange of concerts with the Negaunee Band was held.

Summary: 41 rehearsals
 2 local engagements
 2 out-of-town engagements
 1 out-of-town concert
 5 local concerts
 1 social party with lunch.

LIBRARY AND READING ROOM.

Withdrawals from the library decreased during the year due to the fact that the local school library placed in circulation many new books and local residents made use of the school library facilities.

Number of books loaned from library during year 1426

The reading room continues to be popular as most of the better weekly and monthly magazines are received and placed on the tables.

Weekly magazines	5	Daily newspapers	2
Monthly magazines	19	Weekly newspapers	2

SUPERVISED CARD PLAYING LEAGUE.

The cribbage playing fans continue their interest and the league opened this year on December 6th. A weekly schedule will continue until April 2nd, 1936. Six eight-men teams complete the league and the men look forward to their Crib Night.

During 1935 18 nights' play was held and at the conclusion the Championship Team was given a banquet.

During the fall of 1935 a group of 20 women organized a bridge league and play will continue until April 6, 1936. This organization meets every other week and during 1935 held five nights of play.

BOWLING.

The Senior Men's League was composed of eight 3-men teams. All teams completed their schedule of 63 games. The Women's League consisted of four 3-member teams and this league completed a schedule of 45 games. As part of their physical training course, students of the local High School are given instruction in bowling on the club alleys.

The alleys were in good condition and two new balls were purchased beside the usual requirements of new pins.

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23.

g. Gwinn Association (Continued)

Including all work done in the gymnasium and all outdoor recreations, such as supervising work at school playgrounds, baseball leagues for adults, Junior Boys and playground league ball for girls, also management of the Association baseball team, ice skating rink, tennis and horse-shoe pitching courts, and supervision of Bass Lake camp.

Employees of the Association continue to supervise the High School physical education department and act as coach of the varsity athletic teams. The Association furnishes most of the equipment to carry on the above work and also provides equipment for summer activities where work is supervised by other parties.

Senior members make use of the gymnasium facilities for volleyball, handball, basketball and miscellaneous games. The Women's class met twice weekly under Association supervision.

Summary of Supervised work; Gymnasium.

	<u>Periods</u>	<u>Attendance</u>
High School Girls' classes	119	2912
High School Boys' classes	117	3083
High School basketball practice	60	677
Junior Boys recreation (Saturday A.M.)	13	745
Senior men using gym	83	865
Women's classes	<u>25</u>	<u>299</u>
Total supervised work in gym		
not including basketball	417	8581

The following basketball games were played under Association supervision.

High School team 8 games at home. 11 away.	
High School team again won Class "C" Championship of the Upper Peninsula.	
Junior League, including tournament games	53
Senior League, composed of 4 local teams and 2 CCC teams	30
Senior League practice sessions	20
Attendance at all home games, including practice periods	5800

TENNIS COURT AND PLAYGROUND.

The tennis court as in condition for play 68 days during the season.
 Attendance at court 625; at playground 1400; total 2025
 Horse-shoe pitching court in condition 42 days - attendance 900

ICE SKATING RINK.

The ice skating rink was enlarged and was in condition for skating
 65 days and was flooded 33 times. Attendance 6125

The Inter-County Baseball League composed of teams in Marquette and Alger Counties for the eighth season was under the supervision of secretary of the Association. The league had a very successful season as to attendance of spectators and also as to the ball playing displayed by the different teams. Beside the team entered in the above league, the Association sponsored a

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23.

g. Gwinn Association (Continued.)

twilight league for adults, a junior league for High School boys and a playground ball league for girls. Material for all these activities was furnished by the Association.

Summary:

High School team played	2 games at home and 4 away.
Club team played	8 games at home and 7 away
Senior Twilight League played	15 games.
Junior League played	33 games.
Girls' League playground ball	10 games.

Attendance at all home games and practice sessions 6,185.

BASS LAKE CAMP

Although there were not many requests for the use of the cottage, many of the local residents made use of the grounds and bathing facilities. Fishermen reported better luck on catching small-mouth bass than in previous years. Many residents of Ishpeming, Negaunee, Marquette and Escanaba use Bass Lake as their fishing location.

The Cleveland-Cliffs Iron Company arranged for a caretaker to be on duty from the first of July until September 15th.

Summary:

15 picnics by organizations
 1 special picnic by employees of the Gardner-Mackinaw mine.
 2 families had use of the cottage one week each.
 1 non-resident had use of the cottage two days.
 1 rabbit supper by local sportsmen's association in October.
 30 Girl Scouts had use of cottage one week.
 1 party had cottage five days.
 2 parties had cottage four days.
 4 parties had cottage for evening picnic suppers.
 2 parties had camp overnight.
 90 basket picnics by families.

Estimated number of bathers	1450
Estimated attendance at grounds during season	2930

The camp grounds were kept in good condition during the entire season and one new boat was added.

SCOUT ACTIVITIES.

Both Scout troops continued active during the year. The Scout leader was given some much needed assistance when two former Scouts offered to help without pay and much better results are being obtained through the increased supervision during class work.

Troop No. 1, composed of the older girls, now has a membership of 27, and Troop No. 2, the younger girls, has a membership of 22.

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23.

g. Gwinn Association (Continued)SCOUT ACTIVITIES (Continued)

During the month of June all Scout activities were cancelled, the Scout leader making up this lost time by staying the entire week with the Scout troops while they were at camp in August.

The following summary covers the work with both troops:

Meetings for class and social parties in building	89
Attendance	1886
<ul style="list-style-type: none"> 23 lunches or suppers were held; this includes lunches after meetings indoors, or held after hikes outdoors- such as marshmallow roasts, watermelon feeds and pot luck suppers. 1 all-day picnic at lake. 5 meetings outdoors. 6 hikes. 2 skating parties. 2 Christmas parties for small children. 1 Hallowe'en Party. 1 Valentine party. 1 Entertainment for mothers. 1 annual ceremonial service - awarding of merit badges. 30 members spent one week at Bass Lake. 	

Funds for Scout activities are raised locally by Scout members.

As in other years the Scouts celebrated National Scout Week. During this week every members wears the uniform, special programs are given, and on Sunday they attend church service in a body.

Those in charge of the Scout program in this district are to be complimented on the fine service they are rendering in behalf of the Scout members and the way it affects the entire district.

BUILDING.

During the year the work of re-decorating the interior of the building, which was started in 1934, was completed. Every room, including halls and stair-ways have been gone over in the past two years and the condition of the building at present is very satisfactory. All floors in the main part of the building were again re-varnished and waxed.

Outside work on both set of steps was completed and other outside work will receive attention the coming summer.

The Association purchased necessary supplies to keep all departments operating at full strength.

The residents of this district appreciate the financial assistance received from The Cleveland-Cliffs Iron Company, the Cliffs Power and Light Company, and the local Board of Education. They realize that without this assistance the Club would be unable to operate.

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23.

h. Ishpeming Y. M. C.A.

The "Y" camp at Ross Lake was continued during the summer with a number of very successful periods of ten days each. The work has been under the direction of Mr. Lewis Smith, who has acted as Secretary since Mr. Rathman left. The officers of the Association are as follows:

C. J. Stakel	President
Sam Cohodas	Vice-President
R. J. Chenneour	Secretary
Judge Wm. St. John	Treasurer.

During the year a considerable amount of work became necessary to keep the building in good repair, especially the roof and the interior. The matter was very carefully considered and it did not seem possible to raise funds at this time in the community to properly support the institution. In consequence of this it became necessary to close the building on October 31st, 1935. Since that time some conferences have been held looking towards the use of the Ross Lake camp equipment by the Scouts of Marquette County. The young people of our community are greatly missing the advantages of the building; and there is great demand for this work at Ross Lake to be continued. If some arrangement is made with the Scout movement the boys and girls of Ishpeming will still have the opportunity of making use of the camp at Ross Lake during the summer.

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23.

i. Safety Work.

Meetings of the Central Safety Committee were held when necessary throughout the year.

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. W. R. Meyers
- Mrs. Carl Brewer
- Mr. William Conibear
- Mr. W. H. Moulton, Secretary.

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

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23.

j. Hospitals and Medical Service.

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

Ishpeming Hospital

The hospital has maintained its standards of fine service and has continued on the accredited list of the American College of Physicians and Surgeons.

Miss Hildur Swanson has continued in charge as Superintendent, having begun her work as superintendent on July 1, 1930.

The work of the hospital force has been very satisfactory in every way. The operating costs have resulted in a very good showing for the year.

The staff of the Ishpeming Hospital and the Negaunee Dispensary are as follows:

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

Dr. Corcoran moved back to Ishpeming the last of May and began his work at the Hospital on June 1st.

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

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23. j. Hospitals, (Continued)

ISHPEMING HOSPITAL
STATISTICAL REPORT FOR THE YEAR 1935.

Number of patients remaining in hospital at beginning of year		30
Number of adult patients admitted	834	
Number of child patients admitted	107	
Number of births	<u>124</u>	
Total new patients for the year		1065
Total of all patients for the year		<u>1095</u>
Number of deaths	44	
Number discharged during year	<u>1023</u>	
Total number leaving hospital		<u>1067</u>
Number of patients remaining in hospital Dec. 31, 1935		28
Classification of new cases:		
Surgical	645	
Medical	178	
Obstetrical	120	
New Born	<u>122</u>	
Total		1065
Number of operations		522
Number of emergency room operations		87
Number of patient days		13165
Number of meals for patients	39395	
Number of meals for nurses, Superintendent & Dietitian	18621	
Number of meals for physicians and guests	168	
Number of meals for help	<u>5366</u>	
Total number of meals		63550
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	

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23.

j. Hospitals (Continued.)

NEGAUNEE HOSPITAL.

The plan of using the former hospital building for the doctor's offices and a dispensary has continued to work out well, all hospital cases being taken to the Ishpeming Hospital.

The work in Ne aunee has been taken care of during the year by two physicians, Dr. D. R. MacIntyre and Dr. W. A. Mudge, who have been kept very busy.

REPUBLIC HOSPITAL.

Dr. Van Riper of Champion goes to Republic regularly for one hour each day and at such other times as he is called. Dr. Van Riper is exceedingly conscientious in his work and has done a great deal of work for which there can be no payment, but he receives some payment from the County as Poor Physician which helps to re-imburse him for the work, and some payment for men living in Republic, Champion, and Humboldt and who work in the mines of our Company and for the Inland Steel Company.

GWINN

Dr. R. A. Burke of Negaunee and Palmer is in charge of the medical service for the district and has an assistant, Dr. P. N. Wharton, living and having his offices in Gwinn.

IRON RIVER.

The new hospital has now had four years of service and it has been very satisfactory in all respects.

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.

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23.

j. Medical Services (Continued)PHYSICAL EXAMINATION OF EMPLOYEES.

The Arrangement with the Trudeau Foundation of Saranac, N.Y. continued throughout the year with very satisfactory results.

The first examination was made on November 28th, 1933, and the examinations have continued with a representative of the Trudeau Foundation at the Ishpeming Hospital for the X-ray examinations. Our examinations were about completed in March, and Mr. Libby, the representative of the Trudeau Foundation, was in this region until June, at which time he took his vacation and returned to Saranac. He resumed his work here on October 23rd, 1935.

A new agreement was made in regard to the re-examinations of the men.. All of the men of the different Companies are to be re-examined and new men will be examined, and in addition to the original list the employees of the Blueberry mine will be examined some time in 1936.

The following examinations have been made up to December 31st, 1935:

Cleveland-Cliffs Iron Co.,	1459
Cliffs Power & Light Co.,	8
Athens Mine	290
Negaunee Mine	317
Inland Steel Co.,	400
Pickands, Mather Co.,	42
Richmond Iron Co.,	33
Republic Steel Co.,	125
Calumet & Hecla Co.,	17
North Range Mining Co.,	<u>9</u>
Total	2700

Mr. D. E. Cummings has been in charge of the work and has made frequent visits here to go over the examination reports and to consult with Mr. Conibear in regard to the work at the mines.

The films of each case are sent to Saranac where they are studied by Dr. Sampson, who then reports his findings to us. These reports are gone over by us with Mr. Cummings, and the superintendents at the different mines are advised of the condition of any man requiring further consideration or examination.

The work has been very satisfactory and the examinations so thorough that the Company and the men themselves are bound to be greatly benefitted by the knowledge thus obtained.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

k. Health.

All of our cities have been free from any serious epidemic but have had considerable scarlet fever and measles, fortunately not of a serious character.

The Health Officers of our three cities have been very active and the work done by them throughout the year has been very satisfactory.

Early in the year Dr. G. G. Barnett, who had been Health Officer in Ishpeming for a great many years, resigned, and Dr. J. P. Bertucci was appointed in his place. Dr. Barnett died on December 5th, 1935. The Health Officers are

Ishpeming -	Dr. J. P. Bertucci
Negaunee -	Dr. W. A. Mudge
Marquette -	Dr. F. McD. Harkin.

l. Red Cross.

There was no change in officers in 1935, the officers remaining the same as were elected in October 1934:

Chairman:	T. M. Redmond.
Vice-Chairmen:	
Marquette:	E. L. Pearce Miss Elba L. Morse
Negaunee:	G. Sherman Collins Micheal F. DeFant.
Ishpeming:	R. J. Chenneour G. R. Jackson
Secretary	John Walsh
Treasurer	Edward S. Bice

Directors for Three Years.

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

Directors for Two Years

Webster Pearce	Marquette
W. W. Graff	Negaunee
George Quinnell	Marquette
Miss Stella Fuller	Morgan Heights
C. J. Stakel	North Lake

Directors for One Year.

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

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

1. Red Cross (Continued)

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

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

1. Red Cross. (Continued)

Report of Nurse
Marquette County Chapter
American Red Cross.

School Examinations

Number of schools in County	37
Number of schools examined	37
Number of children	2447

Number of Children Found with Defects;

Eyes	108
Teeth	2144
Tonsils	240
Skin	12
Ears	11
Orthopedic	2
	2517

Number of Corrections made by Parents;

Eyes	1
Teeth	7
Tonsils	2
	10

Contagious Diseases Found:

Pink Eye	6
Scarlet Fever	14
Impetigo	10
Chicken Pox	6
	36

Number of Days Spent at Clinics.

Mental	2
Chest	1
	3

Children Cared for at Summer Dental Clinic.

Number of Children	1011
Number having 2nd appointments	121
Number of Extractions	1637
Number of fillings	971

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

Number of adults to hospitals	8
Children to School for Deaf - Flint	9
Children to School for Blind- Lansing	2
Michigan Children's Aid - Marquette	57
Children to Big Bay Health Camp	10
	86

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

1. Red Cross (Continued)Report of Nurse (Continued)Investigations Made.

Home Calls	964
For County Poor	<u>199</u>
	1163

Meetings Attended.

Nurses' Conference - Escanaba	1
District Nurses' Meetings	8
Teacher's Institute	1
Advisory Nurses' Meetings	8
Red Cross Meeting	1
Achievement Day at Marquette	1

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

m. RELIEF WORK.

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

Following is a list of the assistance rendered.

	<u>Ishpeming</u>	<u>Negaunee</u>	<u>Republic</u>	<u>Gwinn</u>	<u>Total</u>
January	339.54	259.07	25.74	11.89	636.24
February	439.08	271.22	18.94	21.51	750.75
March	302.73	184.97	33.24	50.15	571.09
April	561.04	202.54	9.20	95.13	867.91
May	587.68	189.47	52.99	54.48	884.62
June	387.62	199.06	9.18	60.49	656.35
July	406.56	145.59	30.22	143.94	726.31
August	357.89	114.77	42.49	88.62	603.77
September	421.11	143.02	18.83	64.20	648.16
October	376.29	56.35	21.45	54.09	508.18
November	299.86	98.55	25.18	70.32	493.91
December	<u>275.55</u>	<u>94.13</u>	<u>47.34</u>	<u>67.75</u>	<u>484.77</u>
	4754.95	1958.74	335.80	782.57	7832.06

No. of families assisted	41	24	2	4	71
--------------------------	----	----	---	---	----

Average amount of relief per family \$ 110.31

n. Employment.

The records of employment are kept in this Department, although from lack of clerical assistance the records are not now up to date. These will be gone over and corrected as opportunity permits.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

c. INCAPACITATED EMPLOYEES.

During the year payments have continued to certain men whose years of service do not bring them within the provisions of the pension system. These men are those who have become incapacitated after a considerable period of service, and some with very large families, and who have been injured while in our employment.

Some widows of men who lost their lives in previous years are included in this list.

The following is a statement of the families to whom these donations have been made:

DONATIONS TO INCAPACITATED EMPLOYEES.

	Monthly Rate for Year 1935.	Total Amount Paid During 1935.
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
Edmund Durante	20.00	240.00
August Walline	20.00	240.00
Axel Erickson	20.00	240.00
Edward Van Langenhoven	20.00	240.00
Nick Detoma	18.00	216.00
Edwin J. Goodman	20.00	240.00
Henry Maki	20.00	240.00
Donato Valenzio	20.00	240.00
Wm. Anderson	20.00	240.00
Fred Carlson	16.00	192.00
Joseph Thomas	75.00	750.00

\$ 4294.80

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

\$ 1163.88

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

c. INCAPACITATED EMPLOYEES. (Continued)

DONATIONS TO WIDOWS.

	<u>Monthly Rate for Year 1935</u>	<u>Total amount Paid during 1935.</u>	
Mrs. John Makela	20.00	240.00	
Mrs. Rose Bertucci	12.00	84.00	Died 7/11/1935
Mrs. Wilhelmina Marjamea	12.00	144.00	
Mrs. Henry Karkkainen	12.00	132.00	Died 11/22/1935
Mrs. Mathilda Carlson	12.00	<u>144.00</u>	
		\$ 744.00	

Amount of Donations paid to Incapacitated Employees during 1935	4294.80
Amount of Donations paid to Incapacitated Holmes Mine Employees	1163.88
Amount of Donations paid to Widows during 1935	<u>744.00</u>
Total Donations	\$ 6202.68

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

p. COST OF LIVING.

We have continued to send out our report blanks on the 15th of each month to various stores in our different communities upon which are reported the prices of the different commodities considered by the United States Government in computing the cost of living.

This serves to advise the storekeepers that we are keeping track of the prices which they are charging, which we believe has served in some measure to keep the prices in our various stores at a somewhat reasonable figure.

We have made one complete calculation of Cost of Living, this being on December 15, 1935.

The following tabulation shows comparison with previous years based on a family of five.

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

The Government's reports show that the index number for the cost of living in November 1935 as compared with 1914 is 135.98. This compares with 130.49 for November 1934.

From our own calculations from the prices furnished to us by the storekeepers here the cost of living in Ishpeming is lower than it is in some other places.

Our index figure for the cost of living in Ishpeming in November 1935 as compared with 1914 is 123.32.

The value of \$1.00 as compared with 1914 by the U.S. Tables in November 1935 was 73.5. Our living costs in Ishpeming for November 1935 give us the value of \$1.00 as compared with 1914 as 81.1.

q. IMPROVEMENT WORK.

The work at the different locations was looked after by the superintendents and kept up closely to the usual standards.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

r. PRIZE PREMISES.

No prizes were offered for the season of 1935 but the home owners and occupants continued to interest themselves in good home conditions and the grounds of the Ishpeming homes showed their usual excellence.

In Munising the interest in the improvement of home grounds continued and prizes were offered for the season of 1935.

There were entries from all parts of the town and the improvement made during the last few years was very marked.

We assisted the Committee and the judges during the season.

s. COMMUNITY SERVICE WORK.

The Y.M.C.A. and Legion buildings served the city as a meeting place for civic activities, and these were supplemented by the High School auditorium and gymnasium and with frequent meetings at the Mather Inn.

t. CLUBS.

One general meeting of The Cleveland-Cliffs Club was held, with 105 people present, and this included officials from the Furnace and Land Departments.

u. OUT DOOR SPORTS.

The Department helped with the Ski Tournament held in Ishpeming on February 22nd.

Improvements had been made on the hill and grounds arranged for the parking of cars. This made one of the best tournaments ever held.

The Association of the Business Men of the city have interested themselves in arranging for a winter carnival to be held in the week of the ski tournament in February 1936 and it seems possible to arouse a considerable enthusiasm for an event of this kind every year which would bring many people to the city.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

w. VARIOUS DEPARTMENTS.

Throughout the year we have cooperated with the different Departments, principally with accident cases and Workmen's Compensation, and with safety matters.

We visited one of the camps of the Land Department and have arranged for medical examination of a number of injured men at the Ishpeming Hospital, and have assisted Mr. Clancey in the preparation of cases coming up for hearing.

The Welfare and Compensation statements for the different Departments are on the following sheets.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

w. Various Departments.

LAND DEPARTMENT

COMPARATIVE STATEMENT OF GENERAL WELFARE EXPENSE

FOR THE YEARS 1932 to 1935, INCLUSIVE.

<u>General Welfare Acct. No. 11.</u>	<u>1932</u>	<u>1933</u>	<u>1934</u>	<u>1935</u>
A-2 Prop. Charged by Treas.	318.08	323.01	540.50	677.60
11-F Miscellaneous Expense	<u>523.47</u>	<u>246.51</u>	<u>240.00</u>	<u>240.00</u>
	841.55	569.52	780.50	917.60
 <u>Donations</u>				
Negaunee Fire Department	10.00			
Munising Fire Department	10.00	10.00	10.00	10.00
U.P. Development Bureau	500.00	500.00	500.00	500.00
Christmas Presents to School				
Children- Logging Operations	<u>25.00</u>	<u>28.18</u>	<u>22.33</u>	<u>19.82</u>
	545.00	538.18	532.23	529.82
 <u>Compensation</u>				
a. Funeral Expense				
d. Legan Expense				
g. Medical Expense				
h. Compensation				
i. Monthly Payments to Doctors	82.50	86.00	95.50	101.50
 <u>Safety Work- Logging Operations</u>				
Supplies		23.27	14.56	33.62
 <u>Compensation - Logging Operations.</u>				
Medical & Hospital	3106.16	4103.12	5147.41	4626.05
Compensation Payments	5394.33	5620.88	4660.84	7831.50
Compensation Insurance Premium		7116.76	4916.77	- -
Percentage of Pay-Roll	.06475	.0891	.04987	.0398

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

w. VARIOUS DEPARTMENTS (Continued)

LAKE SUPERIOR & ISHPEMING RAILROAD CO.,

COMPARATIVE STATEMENT OF GENERAL WELFARE EXPENSE

FOR THE YEARS 1932 to 1935 INCLUSIVE.

<u>Donations</u>	<u>1932</u>	<u>1933</u>	<u>1934</u>	<u>1935</u>
Fire Department	30.00	25.00	25.00	25.00
Visiting Nurse-Marquette	120.00	120.00	120.00	120.00
St. Luke's Hospital	400.00	400.00	400.00	200.00
To employees and families	200.00	203.40	20.00	140.00
	<u>750.00</u>	<u>748.40</u>	<u>565.00</u>	<u>485.00</u>
<u>Pensions</u>	<u>2207.88</u>	<u>2207.88</u>	<u>3479.28</u>	<u>3443.28</u>
Total	\$ 2957.88	2956.28	4044.28	3928.28
<u>Compensation;</u>				
Compensation Paid	3249.20	2548.30	2938.18	990.00
Medical Expense	305.81	763.05	251.94	317.16
Percentage of Pay-rolls				
Acct. Comp. Payments	.0096	.0049	.0052	.0015

PENSION DEPT. ANNUAL REPORT YEAR 1935.

11.

a. Workmen's Compensation.

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

The injured man is seen just as soon as possible following an accident and this has served to make the man realize the advantages of the Workmen's Compensation Law, and in this way it has been possible to readily secure the signature of the man to the compensation agreement.

All payments have been made promptly, the checks being delivered to the men here at the office, when they are able to come for them, or they are delivered to them at the hospitals or at their homes.

In the outside districts the mine clerks do this work for us.

In many cases this year while the mines were operating on a reduced basis the compensation paid is more than the men would receive on their return to work, but there has been very little difficulty in getting them to return to work when the physicians have reported them able to do so and there was work for them.

The compensation based on the Michigan Law is 66 $\frac{2}{3}$ per cent of the weekly wage which is six times the daily wage, regardless of the number of days regularly employed. In Minnesota the minimum weekly wage to be considered is five and one-half times the daily wage.

The men have shown a good spirit in returning to work just as soon as possible.

The reduced number of accidents will result in reduced compensation costs which will be reflected in total costs as the old cases are ended, which run for 300 weeks in the case of a fatality and for 500 weeks for total disability.

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

Linnea Erkkila.

Miss Erkkila was employed as a nurse at the Ishpeming Hospital until November 1934 when she claims that she was disabled as a result of an anti-typhoid inoculation administered some months before. She filed a claim for compensation through her attorneys, Derham & Derham. We requested her to submit to an examination by our doctors, which she refused to do. The Derhams withdrew from the case shortly before the first hearing, which was scheduled for January 28th, 1935. Miss Erkkila did not appear and the case was postponed; and it was again postponed on March 7th because of her non-appearance. The hearing was then set for March 20th and when she failed to appear for the third time the Deputy Commissioner permitted us to enter our defense and he later made an award in our favor.

David Lampinen - Athens Mine.

Lampinen won a decision before a Deputy Commissioner on October 19, 1934, for a leg injury which he claims occurred on May 29th, 1930. We appealed from this decision and the case was heard before the Full Board on March 20, 1935. They reversed the decision of the Deputy Commissioner on the ground that Lampinen's claim had not been made within the statutory period.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

11. a. Workmen's Compensation (Continued)

William Merrila - Negaunee Mine, Acc. Rept. #605.

Claim was filed against the Fidelity & Casualty Company by Eli, 22, and Emil, 21, younger brothers of William Merrila, who was accidentally killed on March 20, 1934. Both claimed they were dependent upon him at the time of his death and, therefore, entitled to compensation. Their claim was denied by a Deputy Commissioner and they appealed, and following the hearing before the Full Board on March 20, 1935, compensation was again denied. Their attorney then tried to bring the case before the Supreme Court but writ of certiorari was denied, which closes the case.

Emil Linna - Cliffs Shaft Mine.

On October 17th, 1935, Linna filed an application for adjustment of claim in which he asked that he be allowed compensation, either total or partial, because of a hernia which he suffered on November 30, 1932, while employed at the Cliffs Shaft mine. Linna did have a hernia repaired at the Ishpeming Hospital on December 2, 1932, but we denied that it was due to an accidental injury. In a hearing before the Deputy Commissioner held on November 22, 1935, he received an award covering the period from December 2, 1932, to March 1, 1933, this being the period he was disabled following his operation. Linna has appealed from this award. Following his return to work on March 1, 1933 he was employed at the Cliffs Shaft mine until April 30th, 1933, when the mine shut down. Following this he was employed on various relief projects until August 14, 1935, and he feels that he should have partial compensation during this period and total compensation after August 14th. No date has been set for the hearing before the Full Board.

Adolph Wheeler- Negaunee Mine, Acc. Rept. 584.

Wheeler was employed on the top tram at the Negaunee Mine. On March 29, 1930, some ore slid out of the chute and struck his left leg, tearing the ligaments of the knee. He was disabled until May 19, 1930, when he returned to work at his regular job and continued in our employ until October. He had suffered from myocarditis for some time and had been under a doctor's care. Because of his heart condition his physician recommended that he quit work and he decided to take his pension. He was put on the pension roll on January 1, 1931, and he died on February 12th. In October 1935 Mrs. Wheeler filed a claim for compensation in which she states that her husband's death was attributable to the injury which he sustained on March 29, 1930. Her claim came on for hearing before a Deputy Commissioner on November 22, 1935 but Mrs. Wheeler did not appear and the case was continued. It will undoubtedly be scheduled for hearing early in 1936.

Sidney Wales - Spies Virgil Mine, Acc. Rept. #144.

Wales was injured at the Spies Virgil mine on June 22, 1933. He was picking samples on a loaded railroad car when in some manner he fell from the car, landing in a sitting position on the ground some ten or twelve feet below. X-rays reveal no bony injury but since the accident Wales complained of pains in the back and hips and disability in one leg. He was paid compensation by

PENSION DEPT. ANNUAL REPORT YEAR 1935.

11.

a. Workmen's Compensation (Continued)

Sidney Wales, (Continued)

The Fidelity and Casualty Company from the date of the accident to August 15, 1935, when they petitioned the Department of Labor and Industry for a stop order. The case was set for hearing on September 23rd, but was postponed due to the inability of two of the doctors to appear on that date. The case was heard at Crystal Falls, Michigan, on December 19th, 1935, the testimony on both sides being wholly medical. Wales had just returned from Ann Arbor on the day before the hearing, he having gone there on his own initiative, and as the defense was uncertain as to whether they would wish to take the deposition of the physician who examined him in Ann Arbor, the Deputy allowed him until January 2, 1936, to decide. If Wales decides to take the deposition of the Ann Arbor physician we will obtain the deposition of Dr. Spencer Braden of Ann Arbor, who made an examination of Wales at the Ishpeming Hospital in August 1935.

Julius Hedstrom.

Hedstrom suffered a contusion of the chest at the Athens Mine on April 20, 1934, when the sling holding poles which were being hoisted broke and the rope caught him around the chest. He lost no time until January 10th, 1935, when he claims he was forced to give up work because of the pain in his chest. Hedstrom felt that the above injury aggravated an old injury which he received at the Gardner-Mackinaw mine on December 15, 1930, when he fractured several ribs; an opinion concurred in by Dr. MacIntyre, who is caring for him. Hedstrom returned to work as a dryman at the Gardner-Mackinaw mine in November 1935. While he was idle we rendered some assistance. He has made no formal demand for compensation and he probably will not do so.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

11.

a. Workmen's Compensation (Continued)FATALITIES:

The following fatalities occurred during 1935.

<u>John E. Oja</u> Age 42	Cliffs Shaft Mine, Acc. Rept. #1071. Occurred April 15, 1935. Moving chunk with a bar. Tip of bar broke off and he lost his balance and fell into a raise. Compensation at \$18.00 a week for 300 weeks	5400.00
	Funeral Expense	200.00
		\$ 5600.00

<u>Gabriel Saari</u> Age 52	Cliffs Shaft Mine, Acc. Rept. #1073. Occurred July 10, 1935. Fall of ground. Compensation at \$18.00 per week for 300 weeks	5400.00
	Funeral Expense	200.00
		\$ 5600.00

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

<u>Mine</u>	<u>Name</u>	<u>Acct. Rept.</u>	<u>Date of Accident</u>	<u>Date of Final Payment</u>
Holmes	Solomon Ristimaa	410	9/28/29	6/29/35
Lloyd	Allesandro Boz	755	12/10/29	9/10/35
Maas	Joseph Paris	447	12/14/29	9/13/35
Athens	Peter Koskela	324	3/25/30	12/24/35
Maas	August Kaheliin	458	1/ 5/31	Lump sum

settlement made in July 1935.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

11. a. Workmen's Compensation (Continued)

Following is a list of the more serious cases occurring during 1935 other than fatalities:

<u>Mine and Report No.</u>	<u>Name</u>	<u>Nature of Injury</u>	<u>Compensation Paid.</u>
Athens #336	Issac Maki	Fracture of 3 transverse processes of spine	360.00 *
Maas #476	Alfred Laak	Loss 1/2 index finger.	315.00
Maas #480	James Langdon	Fractured right patella.	50.40 *
Lloyd #775	Clarence LaFreneire	Fractured right femur.	288.00 *
Negaunee #609	Emanuel Thomas	Fractured both femurs.	235.20 *
Gardner-Mackinaw #68	Floyd Erickson	Compound comminuted fracture right fibula	483.00 *
Gardner-Mackinaw #69	Charles Poggi	Fracture of left tibia and fibula	444.00 *
Canisteo #17	Mike Hecemovich	Loss of 1/2 right index finger, 40% of middle finger, and 35% of ring finger.	306.28 *

* Payments are still being made.

PENSION DEPT. ANNUAL REPORT YEAR 1935.

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. Ir.Mng.Co.</u>	<u>Holman Cl. Mng. Co.,</u>	<u>Canisteeo 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	1831.30	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
Totals \$	1168198.43	149169.86	96087.35	12057.95	68344.36	2131.39	2768.69	5382.63	1504140.66

PENSION DEPT. ANNUAL REPORT YEAR 1935.

11.
a. WORKMEN'S COMPENSATION (Continued)

ANNUAL STATEMENT OF COMPENSATION PAYMENTS
FROM JANUARY 1st, 1935 to DECEMBER 31st, 1935.

Compensation paid on 1935 accidents	6668.58	
Compensation still pending	73080.32	
Cost of medical and hospital service	<u>11292.25</u>	
Total		\$ 91041.15
Less pending for years 1926 to 1934 inclusive	58740.42	
Less medical paid on accidents occurring prior to January 1, 1935	324.00	
Less medical paid on Insurance Company cases	<u>65.00</u>	
		<u>59129.42</u>
Cost of 1935 accidents		31911.73
Percentage of payrolls		.01675
Number of accidents on which compensation payments were made		39
Number of non-compensable accidents		2
Number of slight accidents which caused not over 1 day's lost time		282

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

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

ANNUAL REPORT - YEAR 1935

STATEMENT OF COMPENSATION PAYMENTS FROM
JANUARY 1, 1935 TO DECEMBER 31, 1935.

	Average No. of Employees	No. of Fatal Accs.	No. of Non-Fatal Accidents		Actual Comp. Paid in 1935	1922	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	Estimated Compen- sation still Pending	Actual Payments to Phy- sicians	Continuing Cases	
																				Fatal	Injury
Cliffs Shaft	315	2	5	51	8012.48				1872.00						3207.90	1996.58	21446.64	1974.50	4	6	
Cliffs Shaft Laboratory	3																	18.00			
Chief of Police	1																	6.00			
District Welfare	4																	24.00			
Employes Wood, Gwinn District					624.00								624.00					3948.00		1	
Gardner-Mackinaw	137		2	7	981.00													117.52	837.75	2	
General Storehouse	69		2	14	1089.21							936.00			43.20		981.00	417.00	1		
General Welfare	2																	9.00			
Geological Department	1																	3.50			
Gwinn Office	1																	6.00			
Holmes					1372.80						468.00	904.80						3514.80		1	
Ishpeming Office	15																		85.00		
Lloyd	158		6	39	5306.33			728.00			413.28	2189.60	936.00				1039.45	8739.40	982.25	2	
Maas	307		12	49	8008.56	919.34		1932.00			666.00		2543.64				786.75	1155.83	6230.77	1931.75	7
Mechanical Engineering	3																		15.00		
Mining Engineering	5																		32.50		
Purchasing Department	4																		21.50		
Republic					245.29				245.29												
Safety Department	1																		3.00		
Shipping Department	4																		22.50		
Spies Virgil	12																		137.75		
Stephenson					1512.00		56.00	728.00	728.00									879.67			
Tilden	37		1	5	936.00											936.00		4068.00	224.50	1	
Workmen's Compensation	1																		9.00		
Saranac Investigation																			2.50		
Miscellaneous	50		1																4.50		
The Cliffs Power & Light Co.	35		1	1	6.00											6.00			212.75		
Negaunee	235		1	36	5411.34			129.60	308.86		1872.00	1200.88	249.60		915.20	235.20	14718.88	1443.00		7	
Athens	201		3	39	3903.62			799.86	83.20		936.00	936.00	235.76		435.80	477.00	4440.00	1250.50		6	
Total - Michigan Mines	1601	2	33	1241	37358.63	919.34	56.00	4317.46	2600.00	1137.35	4355.28	5231.28	5842.00	624.00	6238.45	6037.47	69039.68	9673.75	8	38	
Hibbing Office	11																		69.00		
Holman Brown	6																		34.50		
Canisteo	224		4	141	1561.90									206.08	724.71	631.11	281.58	1482.00		1	
Hill Trumbull	6				667.16						667.16						3759.06	33.00		1	
Total - Minnesota Mines	247		4	141	2229.06						667.16			206.08	724.71	631.11	4040.64	1618.50	1	1	
Total - All Mines	1848	2	37	2282	39587.69	919.34	56.00	4317.46	2600.00	1137.35	4355.28	5898.44	5842.00	624.00	6963.16	6668.58	73080.32	11292.25	9	39	

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

