Electrical Department: (	Cont'd)	INSTALLED			CONNECTED
		TO JAN. 1.	INSTALLED	TAKEN OUT	JAN. 1,1935
		1934	IN 1934	IN 1934	TOTALS
	brt. fwd.	15,5684 HP.	4344	120	15,882 HP
NEGAUNEE MINE:	brt. fwd.	3.2362	5		
New Flywheel Set for Ho		800			
Oil Pump on #2 Flywheel		1			
11 11 11 11	#	1			
" " Nordberg Co	mpressor	1			
Hot Well Pump	mps 05001				
MAAS CRUSHING PLANT:					4,0462
Jaw Crusher		100			
Belt Conveyor		50			
		50			
Pan Conveyor Motor-Gene	rator Set				200
BARNES-HECKER MINE:					
Skip Hoist	(Stored)	400		400	0
LLOYD MINE:					
Skip Hoist	(from Republic)	400	500	400	
Cage "	(110m 150pm210)	400		-	
Top Tram		40			
Ore Crusher		25			
Water Supply Pump insta	lled underground	50			
Concrete Mixer	TIGG GIMGI PIOGIN	5			
Top Tram		50			
THE RESIDENCE OF THE PROPERTY		100			
Compressor		225			
		The state of the s		4.	
Underground Haulage Con Timber Yard Saw	verter	120 7 <del>2</del>			
Underground Haulage Con	verter (from Wade)		150		
Compressor Cooling Water			3		
MORRIS MINE:					1,675
Ingersoll-Rand Compress	or #2	500			
					500
SECTION 6 SHAFT:		200	-		
Hoist		200	2		
Water Pump in Change Ho	use				202
GWINN CHUSHING PLANT:					
Crusher		85			
Pan Conveyor		50			
Belt "	(from Mackinaw)	50			
Compressor		15			
" Gooling Wate	r Pump	3			203
FRANCIS MINE STOCKPILE:					200
Triplex Pump		75			
					72
GARDNER MINE: Hoist		400			
PARCE BONCOS TOTAL SECURIO		2013			
Top Tram		50			
Printer and the Control of Contro					453

Electrical Department: (Co	mt'd)	
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Electrical Department: (Cont'd)		
	INSTALLED	CONNECTED
	TO JAN. 1 INSTALLED TAKEN OU	T JAN. 1,1935
	1934 IN 1934 IN 1934	TOTALS
brt. fwd.	22,9953 HP. 1,0944 920	
MACKINAW MINE:		
Hoist	400	
Shop	72	
Ore Tram	50	
Underground Haulage Set	150	
Air Compressor	325	
Compressor Cooling Water Pump	71	
4th level Quintuplex Pump	350	
" " Triplex "	75	
5th " Pump - Automatic	30	
Winze Hoist	200	
4th level Centrifugal Pump	400	
4th 14461 centimest rumb		
	20_	2,015
PRINCETON MINE #2		2,010
	900	
Hoist	200	
Top Tram	50	
Stockpile Loader	25	985
		275
PRINCETON MINE #3:		
Hoist	75	
		75
PRINCETON CENTRAL POWER PLANT:		
(Circulating Pump	50	
Turbine Auxiliaries (Injection "	40	
(Exciter	33	
Boiler Room Fan	50	
Coal Handling Machinery	10	
	5	
		188
PRINCETON CENTRAL SHOPS:		
Shop Motor	25	
		25
PRINCETON CENTRAL PUMP STATION:		
Centrifugal Pump	100	
Automatic Pump	30	
		130
CARP PLANT:		
Auxiliaries 2 - 15 HP. pump motors	30	
Water Supply Pump	1	
Air Compressor	5	
		36
HOIST PLANT:		
Exciter Motor-Generator Set	20	
Oil Pump	3	
Air Compressor	5	
Small Supply Hoist Motor	3	
contra deppty notes move		31
fwd.	25,7703 HP. 1,094 920	25,945
1144		

Electrical Department: (Cont'd)	<b> </b>	INSTALLED TO JAN. 1, I 1934 25,7703 HP.	IN 1934		CONNECTED JAN. 1,1935 TOTALS 25,945 HP.
	brt. fwd.	20,7704 HP.	1,0944	920	40,940 HP.
McCLURE PLANT:					
Water Supply Pump		2			
Exciter Motor-Generator Set		172			
Air Compressor		5			
					242
ESCANABA PLANT;					
Air Compressor		5			
Oil Pump		5			
Valve Operating Motor		_1_			
					11
TOTAL MINING DE	PARTMENT				
and					
CLIFFS POWER &	LIGHT CO.	25,8064 HP.	1,0944	920	25,980 HP.

Electrical Department (Cont'd)	INSTALLED TO JAN. 1, 1		TAKEN OUT	CONNECTED JAN. 1,1935. TOTALS
TOTAL MINING DEPARTMENT				
CLIFFS POWER & LIGHT CO.	25.806 HP.	1.0941	920	25.980 HP.
PIONEER FURNACE:	20,0004 11.	1,0044	240	no good in .
Furnace & Sawmill	1.195			
				1,195
L. S. & I. RR. CO.	900			
Shops, Sawmill, Ore Dock & Pumps	800			800
LAND DEPARTMENT:				
Grand Island 3 motors	152			1
TITIO DE TATA DED A DESIGNATION A TAXABLE				152
LUMBERING DEPARTMENT: (Dixon) Location Water Supply Pump	5			
Tie Mill Saw	75			
" Conveyors	37			
" " Shep	10			
MINITALN ALG & DE MANDIA AA				127
MICHIGAN GAS & ELECTRIC CO. Ishpeming	2,170			
Munising	250			
Munising City Pumping	125			
				2,545
REPUBLIC TOWNSHIP:				
Water Supply Pump	25			25
OLIVER IRON MINING CO.				20
Pumps at Angeline & Sec. 16 Mines	525			
Holmes Mine	2.552			
				3,0772
CITY OF ISHPEMING:	15			
Booster Pump at Brownstone Air Compressor for Tank	10			
asi vempi dobot 101 1ema				25
EITY OF NEGAUNEE:	435			
				435
THE CLIFFS ELECTRIC CO.) Now C.P.&L.Co. retail	100 Est.			100
PALMER MINING COMPANY:				100
Volunteer Mine, Palmer	800			
			6	800
MUNISING WOODENWARE CO.	695			
NADWI DANGE STRING GO				695
NORTH RANGE MINING CO. Blueberry Mine	1.165			-
process write				1,165
INLAND STEEL CO.				•
Greenwood Mine	450			
Morris Mine	3,360			2 010
INLAND LIME & STONE CO.				3,810
Quarry & Dock	4.000			
				4,000
MICHIGAN GOLD MINE:	150	+		
MOMAT CUMCITAR TOLD	18,965 HP.			150 18,965 HP.
TOTAL OUTSIDE LOAD	10,700 HP.	0	U	10,900 HP.
GRAND TOTAL CONNECTED LOAD	44,7714 HP.	1,0944	920	44,9452 HP.

The following motors are not connected to our Power System:

The following	motors are not connect		er System:	CONNI PACCIONA
		TO JAN. 1	INSTALLED TAKEN OUT	JAN. 1,1935.
MESABA RANGE:		1934	IN 1934 IN 1934	TOTALS
CANISTEO MINE:				
Priming Pump		3		
Shop		10		
Washing Plant Compre	ssor	50		
Belt Conveyors	4 - 5 HP. motor	s 20		
Jaw Grusher		100		
Centrifugal Pumps	2 125 " "	250		
Symons Crushers	2 100 " "	200		
Belt Conveyor		75		
Dorr Washers	2 75 " "	150		
	2 30 " "	60		
Armstrong Drills	2 15 " "	30		
Centrifugal Pumps	(1 to P.M.Co.)	50	25	
Portable Drill		1/2		
Hacksaw		1/2		
Wood Planer		3		
Band Saw		5 5		
Circular Saw		3		
Shaper				
Portable Drill		1/8		
Clear Water Pumps	2 - 3 HP. motor			
Motor-Generator Set	n Shovel No. 35	250		
Exciter Set	10 11 11	20		
Dipper Trip	4 4 4 4	2 3		
	E - 1/9 UD		1/	
Heater Motors	5 - 1/2 HP. motor		1/	•
	8 - 1/8 " "	1/4		
Bolt & Pipe Machine	0 - 1/0 "	5		
Machine Shop Planer		10		
Boring Machine		15		
Pressure Pump in Boil	lar Honga	30		
Shop Air Compressor	tor house	50		
Portable Grinder		1	*	
Bench Grinders	2 - 1 HP. motors	2		
Blacksmith Shop Forge		1/4		
Electric Welder		15		
Punch & Shear Machine		5		
Small Pump		3		
Portable Saw		5 3 72		
Priming Pump	(Stored at Holman)	2	2	
Blacksmith Shop		10		
Roll Motor in Laborat	ory	5		
Pulverizer " "		1		
Fan " "		1/8		
Heater " "		1/8		
Fan " "		1/8		
Centrifugal Pump		125		
Motor-Generator Set -	· Washing Plant	225		
Tyler Screen		5	5	
Allis-Chalmers Screen		5		
Electric Welder		15		
Priming Pump		3		
Armstrong Drill		15		
Ro-Tap in Laboratory	10-1	1/2	3.05	
Centrifugal Pump	(from Holman)		125	
Washing Plant feed pu			20	
Battery Charger (old		1,856 HP.	148 321	1,9713 HP.
	fwd.	1,000 nr.	140 064	1,0124 HI.

MIECTRICAL Department:	100	nt(a)			INSTALLED			CONNECTED
					TO JAN. 1,		TAKEN OUT IN 1934	JAN. 1,1935. TOTALS
			brt.	fwd.	1.856 HP.	148	324	1,9713 HP.
HOLMAN-CLIFFS MINE:								
Layne & Bowler Pump					350			
Bench Grinder					1/4			
Portable Drill	(to (	anist	(00		1/4		1/4	
Belt Conveyor					75			
Symons Crushers		2 - 10	00 HP.	motors	200			
Jaw Crusher					100			
Dorr Classifiers		2- 1	10 "		20			
Air Compressor					50			
Screen					25			
Centrifugal Pumps		(1 to	Canis	teo)	125		125	
Picking Belts				motors	10			
Centrifugal Pump (	loane				Co. ) 85		85	
Machine Shop					30		- 77	
Exhaust Fan					1/2			
Centrifugal Pump					275			
Blacksmith Forge Fa	n	(from	Draw 1	Mine)		1/2	2	
Motor-Generator Set		,			225	-/ -		
Locomotive Water Ta		mmo 4	store	a)	20		20	
Clear Water Pump, W					3			
Armstrong Drill		8			15			
Hummer Screen					5			
Bench Grinder					1/4			
Portable Grinder					1			
Shop Heaters		9 - 1	/A HP	. motors)	î		1/2	
" "		10 - 1		· motors;	11/4		-/ ~	
Roll Motor in Labor			40		3			
Pulverizer in "	acory				1			
Compressor " "					12			
Motor-Generator Set		horral	1+0	Canisteo)	250		250	
Exciter Set	11	II A GT	"	11	20		20	9-
Dipper Trip	**	#	**		2		2	
Fan	tt	#	11		3		3	
Hydrotator		- 4	50		15			
nyurotator					20			
Combani Associa Domini ad	D4 4				125			
Centrifugal Pump at	FIE				120			1,552
				fwd.	3,9134 HP	1482	538	3,5233 HP.

Electri	Fan	Department:	(Cont'd)
-700017	LOCAL	- a har amarra.	1 AOTT O W

Electrical Department: (Co	int'a)		N			
			INSTALLED			CONN ECTED
			TO JAN. 1	INSTALLED	TAKEN OUT	JAN. 1,1935.
			1934	IN 1934	IN 1934	TOTALS
	brt	. fwd.	3.9134 HP	1482	538	3,5233 HP.
HILL-TRUMBULL MINE:						
Log Washer			50			
11 11			40			
Belt Conveyors	4 - 5 HP	. motors	20			
Crusher			100			
Sample Grusher			10			
Prescott Plunger Pump			125			
Centrifugal Pump			150			
Shops			30			
Punch & Shear Machine in	Shan		5			
Band Saw in Carpenter Sh			5			
	юр		50			
Compressor in Shop Screen			20			
			100			
Conveyor						
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 71			
Car Puller			72			
Portable Grinder			1			
North Pit Pump			30			
Air Compressor at Washin	g 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 Classifie	rs 2 -	10 HP. moto	rs 20			
Hummer Screen			2			
Pulverizer in Laboratory			1			
Fan " "			1/8			
Symons Crusher	2 1	00 " "	200			
Bench Grinder			1/2			
Motor-Generator Set on S	hovel #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			
Sauch alimet at maning	- Tall					1.518
		-				
		fwd.	5,4163 HP.	1632	538	5.0421 HP.
			o, trof Hr.	1002	000	0,0 mg ma 0

Electrical Department:	(Cont'd)				
		INSTALLED	Financia Control		ONN ECTED
		TO JAN. 1, IN	ISTALLED T.	AKEN OUT J	AN. 1,1935.
		1934	IN 1934	IN 1934	TOTALS
	brt. fwd.	5,4163 HP.	163	538	5.0424 HP.
DREW MINE:					
Skip Hoist	(stored at Hill-Trumbull)	200		200	
Tailings Pump		20		20	
Centrifugal Pump		20		20	
Washing Plant Feed Pu	mp at Canisteo Shaft	20		20	
Dorr Washers	(stored at Hill-Trumbull)	30		30	
Rakes	•	10		10	
Conveyor		15		15	
Feeder		5		5	
Air Compressor		60		60	
Armstrong Drill	(returned to H-T.)	15		15	
Blacksmith Forge Fan	" to Holman)	1/2		1/2	
Hoist on Shovel	(sold)	100		100	
Crowd " "		40		40	
Swing " "		40		40	
Trip " "	•	.7		.7	
Air Compressor on Sho	vel "	2		2	
Cyclone Drill		10		10	
					0
TOTAL	MESABA RANGE MINES	6.0043 HP.	163	1,126	5.0421 HP.

50		
00		
50		
403	*	
3		
400		
2		
25		
5		
3		
P. 300		
150		
2		
	TOPAL	1,398
	403 3 400 2 25 5 3 P. 300	403 3 400 2 25 5 3 P. 300 150 2 5

#### Electrical Department: (Cont'd)

The following A.C. motors are on hand, (Dec. 31, 1934) but are not installed;

IFFS SHAFT MINE:									
Top Tram (stat	or on	1y)						50 I	IP.
Spare Top Tram		100						50	
Small Conveyor N	lotor							2	
Scraper Motors				5	- 25	HP.		125	
Crusher								25	
Scraper Motor								15	
Top Tram Motor f	rom R	amivlia		-				50	
top Fram motor i	TOM A	-aba ATTO							317 H
NERAL STOREHOUSE &	RARN.								01
Spare from Repub			mive					5	
" General El			miro.					50	
" from Hard				***				35	
					h T.o	lea		200	
for centri	Iugar	pump u	sed at	L NOTE.	II Ma	W.A		40	
movoz	D	14 - Ma-						-01-51	
Pump motor from					- 01	****		10	
2 500 HP. hois						Mine		1,000	
Hoist stater onl	y	"			11			500	
Feeder Belt		"			**	"		5	
Conveyor belt		. "			rt .	" 2	motors	40	
Concrete mixer f	rom A	u Train						72	
Picking belt								5	
Leach concrete m								10	
Air compressor f	rom R	epublic	Mine					200	
Pump from 11th 1	evel	#	**					72	
Carpenter Shop f		11	11					20	
Undg. Hoist	**		11					50	
11 11	" M	aas	**					50	
Cyclone drill		ilden	11					10	
Pump		u Train	Dam					100	
ii ii		epublic						50	
	11	ii.	H					7章	
Screen #9 Shaft	**			scra	D			25	
Crusher	**	11	**					100	
Coal Tram	11				3			72	
Pump from 3rd le			11					50	
Screen from crus		"						10	
Underground hois		"	11					100	
			**					35	
0.000,000,000,000,000	rom	Abban							
Top tram motor		Athens	R					50	
Pump from Mackin								20	
Spare for small								5	
Pump motor from					50			2	
Prescott pump mo								325	
Tilden fan motor			for re	pairs				1/	4
Pump motor from	Morri	s Mine						50	
	**	**						40	
Gwinn Crushing P				r (in	sho	p for	repairs)		
Sinking hoist fr	om Wa	de Mine						35	
Top tram	11							50	
Sump pump	11	19 It						72	
Blacksmith Shop	fan							3	
Air compressor		11 11						150	
Hoist	1							125	
Clear water pump								15	
Triplex pump		2 "						50	
Pump motor		11 11						100	
- comb motor		A 10					fwd.	3,7973	

Electrical Department: (Cont'd)		
brt.	fwd.	317 HP.
GENERAL STOREHOUSE & BARN: (Cont'd) brt.		
Centrifugal Pump from Morris Mine Allis-Chalmers 3K2164.1 Armour "	50 5	
Hoist " " "	150	
1 1 1	250	
Centrifugal Pump " " "	150	
1 1 1 1 1	200	
	35	
Blacksmith Shop Blower (C.S.Lab)		1/2
Centri fugal Pump	5 400	
Skip Hoist Motor from Lloyd Mine " " Barnes-Hecker Mine	400	
Hoist " Gardner-Mackinaw Mine	50	
MOIDU MOIDU MANAZION	-	5,4934
ISHPEMING HOSPITAL:		
Spare for dumb water	3	
" hot water return	5	
		8
ATHENS MINE:		
Pump motor	35 50	
		85
MAAS MINE:		
Winze pump	15	
Pump (from Morris Mine)	50	
Hoist motor from Stephenson Mine	75	
Rheostat pump	2	
Cooling water pump	5	
Return " "	5	
Sump pump (new)	5	254
NEGAUNEE MINE & BARN:		154
Flywheel hoist set motor	350	
Top tram	50	
Hoist from South Jackson	75	
Grusher " " "	150	
Pump " Maas Mine	50	
		675
PRINCETON MINE:	250	
Underground pump	150	150
PRINCETON CENTRAL SHOPS & CENT. POWER PLANT:		100
Grinder	3	
Austin Mine hoist motor	200	
Rock tram from Stephenson Mine	25	
Ore " " "	50	
Hoist motor	400	
		678
GWINN STORAGE SHED & STEPHENSON TRANSFER:	050	
Stephenson 5th level plunger pump	250 250	477
# 8th # # #	50	
" 6th " centrifugal pump	125	
Top tram from Gardner Mine	25	
" " Stephenson Mine	50	
Spare for Pumping Station	30	
		780
		0 7401
	fwd.	8,340 <sup>1</sup> / <sub>4</sub> HP.

Electrical Department: (Cont'd	)		*					
					brt. fwd.		8,3404 1	HP.
TILDEN MINE:								
Conveyor belt						50		
Trip motor for s	hovels					14		
Scraper motor						50		- 2
							1014	
					TO	TAL	8,4412 1	HP.
Spare Motors at Spies-Virg								
Underground haul	age se	t				150		
Grinder motor								
B					TO	TAL	153 1	HP.
Spare motors on Mesaba Ran								
HILL-THUMBULL MINE &	PHOLD!					05		
Log washer						25		
ricking belt						2		
Spare						3		
Log washer	from	Crosby		ne		40		
Screen	**	"	12			20		
Picking belt			**			3		
Chip screen	11	**	11			3		
Tables	**		**	(Loaned to	Charleston			
				Mining Co	.)	20		
Centrifugal pump		11	11			85		
#2 Turbo			12			20		
Feeder	11	et	**	(Loaned to	Buggalo Mine	20		
North Pit pump	-			1-04104 00		30		
Planer	11		11			3		
							274 HI	P.
CANISTEO MINE:								
Centrifugal pump						600		
11 11						600		
Chicago pump						3		
Dipper trip						2		
Air compressor f	wom Pos	nt 1 00 1	Mis no			100		
All complessor i	10m 201	TO TOO	12				1.305	
HOLMAN-CLIFFS MINE:							2,000	
Shaft pump						150		
Motor-generator	set		-			150		
Sump pump						5		
panty panty							305	
					m	OTAL	1.884 HI	D.
					-	JIAN .	1,004 H	•
Total C.C.I.Co. & C.P.&L.Co. los	ad			Dames Court	am - 19/27/24		25.980 I	d D
" Outside	n com	190190	11	- Ower Syst	- TE OT 24		18,965	HE.
Outside	11			TAMOR	CONTRIBOTED TO	AD		11
				TOTAL	CONNECTED LO.	TT.	44,9452	1
Total connected boad at Mesaba	Range 1	Vines	-	Dec. 31st.	1934	-	5,0424	**
" " Spies-V			-	# #	11	-	1,398	-
Potal spare motors on hand Dec.	31 at	1024		Ishpeming	District		8.441	**
if it is in it is it is	H .	1702	_	Spies-Virg			153	
	**	"		Mesaba Ran		_	1,884	#

### Electrical Department: (Cont'd)

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

operating as needed:				
		INSTALLED	*	
		TO JAN. 1,	INSTALLED TAKEN OUT	
AU TRAIN WATER POWER PLANT:		1934	IN 1934 IN 1934	TOTALS
	(2)	34 KW.		
WYCLEGLE	141			34 KW.
CARP RIVER WATER POWER PLANT:				0. 1
	(2)	150		
		-		150
HOIST PLANT:				
Exciter		172		
<b>"</b>		37		Eal
Wast Itou Dr Alm.				542
McCLURE PLANT: Exciters	(2)	110		
M. G. Exciter	121	12		
0. 1101				122
ESCANABA PLANT:				
Exciter		28		
				28
REPUBLIC PLANT:				
Exciter		18		
		15		33
MAAS PLANT:				00
Motor driven exciter		227		
Turbo " "		222 222		
Compressor motor exciters	(2)	20		**
PRINCETON CENTRAL POWER PLNAT:				65
Motor driven exciter		222		
Turbo " "		222		
		-		45
CLIFFS SHAFT MINE:				
Compressor motor exciters	(2)			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	xciter	10		
Flywheel set exciter		15		
Skip hoist generator		700		
Battery charging motor-gene Ingersoll-Rand compressor m			1/2	
MAAC CESTSTENC DE ANTA.				735
MAAS CHUSHING PLANT: Pan conveyor generator		35		
	ter	13/4		
				363
	fwd.	1,3513 KW.	42 1/2	1,3934 KW.

		LLED TAKEN OUT	JAN. 1,1935. TOTALS
brt. fwd.	1,3513 KW.	12 1/2	1,3934 KW.
NEGAUNEE MINE:			
Skip hoist generator	400		
Cage " "	150		
Flywheel set exciter	25		
Exciters for underground pump motors	28		
Ingersell-Rand compressor motor exciter	10		
Noreberg " "	10		
Bell signal set	1/2		
Skip hoist generator #2	400		
Cage " " "	200		
Exciter on new hoist set.	35		
			1,258
MORRIS MINE:			
Ingersoll-Rand compressor motor exciter	10	10	0
LLOYD MINE:	1		
Compressor motor exciter	6		
MACKINAW MINE:			6
Compressor motor exciter	10		
			10
TILDEN MINE:			100
Thrust generator on electric shovel #29	15		
Hoist " " " "	75		
Swing " " " "	15		
Exciter " " "	52		
" " #31	52		
Thrust v " " " "	15		
Hoist " " " "	75		
Swing " " " "	16		
Exciter for synchronous motor	15		
			237
TOTAL	2,873 <sup>1</sup> KW. 4	2 102	2,9043 KW.

olke i s	Jun		*1984	Gene rat	VI 9.				TAKEN OUT	JAN. 1,1938
LIFFS SHAFT	MIN	R.						IN 1904	IN 1302	TOTALL
Motor-G			Sat 4	9			100 KW.			
MOCOL-G	aner.	TOOP	7	ing set			5			
	**		set #				100			
	1		SOC H				_100			205 KW.
THENS MINE:										200 1111
			-				100			
Rotary	COUA	erte	1				100			
			#2							200
ALG MINT										200
AAS MINE:							100			
Motor-g	ener		89C #				100			
The state of				*						200
TAC ATTY TATA 3/730	· ·									400
EGAUHEE MIN				1 (			200			
Motor-g	ener	ator					44.			
A STANDARD	"		" #	4			150			350
TAND TOTAL			-							200
LOYD MINE:							00			
Convert							90	100		
	#	2	from	Wade M	ine			100		100
										190
ACKINAW MIN	-									
Rotary	Conv	erte	r				100			200
										100
THE SHAPE					TOTA	L	1,145 KW.	100	0	1,245 KW.
Direct	Curr	ent l	Motors	12						
U TRAIN WAT	HD D	Out/RETP	PT. A NO							
Governo					(2)		1/4			
GOVALHO	r 60	it ro.	r moco	re	(4)					1/4
ARP RIVER W	O'STMA!	POUT	PD PT. A	NIM .						-/ -
Rheosta					(2)		1/4			
Governo		10 10.	•		(2)		1/4			
GOVELHO	F				101					1/2
CLURE PLAN	m.									-/ -
Valve o		-1			(2)		2			
Rheosta		DI			(2)		1/2			
Meesta	T "				141					22
LIFFS SHAFT	MIN									-2
Portabl							10			
		186					65			
Car pul										
12 Scra	pers						180			1962
										2202
TT TO The SET STORE	U	-	-2	4	-1 400		100	4		
	otor	on e	Precti	TG BUOA	er #29		20			
Hoist m										
Hoist m		11	11				20			
Hoist m Swing Thrust	**	-	- 17	11	#31		20			
Hoist m Swing Thrust Swing	"	**	- 10				00			
Hoist m Swing Thrust Swing Thrust	"	11	**	**	"		20	*		
Swing Thrust Swing	11	100	- 10		"		20 100	*		280

Electrical Department:	(Cont'd)
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Electrical Department:	(Cont'd)			h			
				INSTALLED	*****		
				TO JAN. 1,			
				1934	IN 1934		TOTALS
1.50		brt. f	wd.	4794 HP.	. 0	0	4794 HP.
ATHENS MINE:				200			
Skip Hoist		F ##0		900			
Ventilating fans			motors	35			
Sullivan scrapers		62 "		13			
	15 -	15 "	-	210	15		
Ventilating fan				15			
Sullivan scrapers	2 -		"	40			
I.R. "	2 -	10 "	N-				1,248
MAAS MINE:							1,000
	bereste Ath	lawal		10			
Timber hoist - xki	Chybre 4tu	TAAAT		15			
	75	15 UD	motors	210	15		
Sullivan scrapers		6± "	motors	32 <del>2</del>	10		
	0 -	05		15			
Scraper slide Ventilating fans	7 -	5 "		35			
	2 -		**	50			
Scrapers	9 -		19 19	120	15		
IR. scrapers	3 -		**	30	10		
	1 -			40		20	
Scrapers Blower for Shop	1 7	20	-	3		20	
blower for Shop							570 <del>2</del>
MAAS CRUSHING PLANT:							0.02
Pan conveyor				40			
							40
NEGAUNEE MINE:							
Skip hoist				500			
Cage "				200			
Timber hoist -	11th leve	1		10			
	12th "			10			
Scrapers	12 -	75 HP.	motors	90			
Sullivan scrapers	10 -		#	65			
	2 -		**	50			
Ventilating fans		5 "	**	20			
Denver scrapers	3 -	10 "	**	30			
Sullivan "	7 -	15 "		105			
Ingersoll-Rand scr			**	75			
" "	" 6-		10 11	50	10		
							1,215
LLOYD MINE:							
Scrapers	8 -		11	15	105		
		10 "			30		
	3 -	25 "			75		
Skip pit					62		
							2315
	TOTAL	D.C.	MOTORS	3,5334 HP.	2712	20	3,7843 HP.
				.2			

Spare Generators and Exciters on hand Dec. 31st, 1934:

NEGAUNEE MINE:

Skip hoist (armature only)

500 HP.

Spare	Underground	Haulage	Generators	on	hand	Dec.	31st.	1934:
phara	o month of the course	mantaba	A 97107 5 007 5	011	TTOWNER		07000	2002

ADMINIST CHARIETOTA.		
GENERAL STOREHOUSE:  Motor-Generator Set (from Morris)	100	
TOTAL		100 K.W
Spare Direct Current Motors on hand Dec. 31st, 1934:		
OF F WINES OUT A VARIE BE TANKE.		
CLIFFS SHAFT MINE:	15 H	D.
Spare scraper motor	10 11	15 HP.
ATHENS MINE:		
Timber heist motor	10	
Fan	15	
		25
LLOYD MINE:		
Orane motor	10	
Ore loader	2	
Scraper	62	182
GENERAL STOREHOUSE:		108
Pump motor	20	
Spare hoist motor for Shovel	105	
it swing " " "	20	
	100000000000000000000000000000000000000	145
GARDNER-MACKINAW MINE:		
Sullivan scrapers 3 - 10 HP. motors	30	
* scraper	20	
Hoist	15	
TOTAL	-	2682 HP
TOTAL		Adda ur
MESABA RANGE:		
Exciters and Generators installed up to Dec. 31st, 1934:		
CANISTEO MINE:		
Hoist generator on shovel - 2 shovels	300 K	N.
Swing " " - 2 "	80	
Thrust " "" - 2 "	78	
Washing plant generator	150	
Arc welder	10	
Exciter on shovel - 2 "	24	
Arc welder (from Hill-Trumbull)	10	
HILL-TRUMBULL MINE:		652 KW.
Hoist generator on shovel	150	
Swing " " "	40	
Thrust " " "	39	
Exciter " "	12	
		241
HOLMAN-CLIFFS MINE:		
Generator for feeder	150	
	_	150 ,043 KW.
TOTAL		

Electrical Department: (Cont'd)

#### MESABA RANGE:

Underground Haulage Generators installed up to Dec. 31st, 1934:

	HOLMAN-	LIFFS 1	INE:										
		tor-gene		r set						13	5 KW		
												115 F	W.
	HILL-TH	MBULL M	AINE:										
	Mot	torgen	rato	r set							55		
	1	•	18	11	for rock	hau]	age			_ 1	25		
												80	
									TOTAL	_		195 K	W.
Direc	t Curren	nt Motor	rs ins	stalle	ed up to	Dec.	31st	, 193	4:				
	CANISTEC	MINE:											
			s on	clas	sifiers	4	-	5 HP.	motor	3 2	0 HP		
		st moto						vels		37			
		ng "	**	**		2		11			30		
		rust "	**	**		2		n			80		
	Par	n convey	or.	4						4	10		
												595 H	P.
	HILL-TH	Carlotte Annual Control											
		eder mot									0		
		ist moto	r on		1						72		
		ng "	**	**							.0		
		rust "	"							7	9		
	Doz	r bowl	class	ifie	rs	2	-	5 HP.	motor	3	.0		
	TOT MAN O	T TINGE N	TMT.									3362	
	HOLMAN-C	Section Control of the Control of th									•		
		convey washer			-			O UD			0		
	-08	wa sne i					- 4	o nr.	motor		U	160	
									TOTA	T.	-	,091	UP.
									1012			,0012	пт
Spare	Direct	Current	Moto	rs or	Mesaba	Range	Dec	. 31st	, 1934	:			
	CANISTEC	MINE:											
	Ger	erator	(1	rom I	ontiac M	ine)				-	7 KW		
												7 K	W.
	HOLMAN-O	LIFFS M	INE:										
		.C. mot									5 HP.		
	1										3		
	1										3		
		1										11 H	P.
MESABA RANG	GE:												
Total	Exciter	s and G	en era	tors	installe	d to	Dec.	31st,	1934	-	1	,043 K	W.
	Haulage	Gene ra	tors			"	"	"	,,	•		195 K	w.
•	Direct	Current	Moto	rs		**	**	H		-	1	,091±	HP.

Electrical Department: (Cont'd)

#### SPIES-VIRGIL MINE:

Exciters installed to December 31st. 1934:

10 KW. Compressor motor exciter

150 KW. Ungeround Haulage Generators installed to December 31st, 1934:

Top tram larry cars - 20 HP. D.C. motors 40

15 Fan

55 HP.

#### ISHPEMING DISTRICT:

Total D.C. Generators and Exciters installed to December 31st, 1934 - 2,9043 KW.

" Underground Haulage Generators " - 1.245 KW.

- 3.7843 HP. Direct Current Motors

Spare D.C. Generators and Exciters on hand

100 KW. " Underground Haulage Generators " "

" Direct Current Motors - 2682 HP.

Electrical Department: (Cont'd)

Substation Transformers installed up to December 31st, 1934:

			_			
66,000/2300 Volts		1		K.V.A.	TOTAL K. V.A.	
Munising Substat	ion	1	3	667	2,001	
Seney "		1	1	25	25	
Inland #1 "		1	3	500	1 500	
* #2 "		1	3	500	1 500	
					5,0	26 K. V. A.
33,000/66,000 Volts					1	
Gwinn Substation	1	1	3	1,250	3.750	
					3,7	50 **
33,000/13,200 Volts						
Clarksburg Subst	etion	1	3	372	112	
GIGITAGORIE DESIGNATION OF THE PROPERTY OF THE	, a 0 1 0 11			0.2		122 "
33,000/6,600 Volts						2
Eben Substation		1	1	25	25	
moen Substation		1	1	20		25 "
						20 "
33,000/2300 Volts						
Brownstone Subst		1	3	400	1,200	
Cliffs Shaft-Hol	mes Substation	1	6	500	3 000	
Morris-Lloyd		1	3	590	1 770	
Princeton		1	3	250	750	
Republic	ų	1	3	400	1 200	
Maas		11	6	590	3 540	
Escanaba Plant		1	3	590	1 770	
Gwinn	ů .	1	3	625	1 875	
Munising		i	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	2	15	30	
					37.0	10 "
6.600/2.300 Volts						
	tation	1	3	350	1.050	
Mackinaw	"	1	3	350	1 050	
Inland #1		ī	3	25	75	
Blaney Park		ī	2	25	50	
n n		î	1	15	15	
		•	+	10		40 "
6.600/115-230 Volts					2,2	***
				15	15	
Germfask		1	1	15	15	
		1	2	1.5	3	
•		1	2	3	6	
						24 "
				GRAND TO	TAL 48,10	872 K.V.A.
12,000/2300 Volts						
McClure Plant (	belong to Marquette City)	3	2	1,250	2,500	K.V.A.
Control of the Control				-		Date:
Transformer	s used for Underground Haul	lage ins	talle	d to Dec-	31, 1934:	
				_ 00 4000	,	
Athens Mine conv	ortors	1	6	35	210	
Mackinaw Mine co		i	3	35	105	
-ackinaw Mine Co	T AGL CGL		0	00		15 K.V.A.
					0.	LO A.V.A.

### Electrical Department: (Cont'd)

Distribution Transformers installed up to December 31st, 1934:

2300/220/110 Volts	Phase	No.	_	K.V.A.	TOTAL K.V.A.
ANGELINE MINE: Hoist control	1	1		7	
worst control		•			7
CLIFFS SHAFT MINE:					•
Office lights	1	1		10	
	1	1		15	
"A" Shaft hoists	1	2	(15)		
Pump station lights	1	1		3	
Crusher house lights	1	2			
Grushers & surface lights	1	3			
Gravel scraper	1	2			
Underground scrapers	1	4	(50)		
	1	3	(25)	75	
Motor-Generator set for battery cha	rging				
and 1st level "A" scrapers	1	3	(15)		
Rectifiers	1	7	(5)		
Lights	1	34	(1岁)		
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)	30	
					612
HARD ORE, BROWNSTONE, ETC.					
Light & power	1	1		15	
	1	1		72	
Blacksmith Shop	1	1		30	
Manager's residence	1	2	(10)		
	1	1		5	
F. C. Stanford & testing	1	1		5 7 <del>2</del> 5 7 <del>2</del> 1 <del>2</del>	
	1	1		5	
Manager's residence	1	1		7	
	1	1			
Hospital	1	3	(25)		
Shop power	1	3	(15)	45	
" lights	1	1		5	
Blacksmith shop lights	1	1		15	
					239
TILDEN MINE:					
Pump	1	2	(10)	20	
Lights & power	1	2	(5)		
N N N	1	2		2	
Drills	1	3			
Shovel	1	3		15	
Crusher	1	3	(10)	30	
Synchronous condenser	1	2	(72)	15	
Scrapers	1	3	(15)		
#31 shovel	3	1		15	2002
					182
				fwd.	1,0402

Distribution Transformers (Cont'd)	Phase	No		K.V.A.	TOTAL K.V.A.
brt. fwd.	THUT		-		1.0402
ATHENS MINE:					
Machine Shop	1	2	(10)	20	
Surface lights & Lab. hot plates	1 .	3	(10)		
Pump station lights	1	1		5	
1 11 11	1	1		2	
100 G.P.M. pump	3	1		40	
Signal system	1	1		1	
Engine house lights	1	1		5	
11 11 11	1	1		4	
Top tram	1	1		2	
" " control	1	1.		i	
Pump at Breitung Shaft	ī	1		1	
Tump at 101tung simit			•	-	111
MAAS MINE:					
Lights & injection pump	1	3	(10)		
Coal crusher & shop	1	2	(10)		
Signal system	1	1		1/2	
3rd Level pump station	1	2	(5)	10	
Cage hoist control	1	1		10	
Skip " "	1	1		2	
11 11 11	1	1		3	
Rock tram	1	1		1	
Heaters in engine house	1	1		72	
Top tram	1	1		2	
Shop	1	1		15	
MA AG GOTTONI THIS DT AND					101
MAAS CHUSHING PLANT:				70	
Lights	1	1		18	7
negaunee mine:					
Shop light and power	1	1		10	
H H H H	ī	i		72	
Engine house lights and power	i	ī		10	
ii ii ii ii ii	i	1		5	
Signal system	î	î		1/2	
Pump station lights, etc.	î	3	(7분)	222	
13th Level pump	i	3	(5)	15	
Barn	i	1	,	5	
	i	î		7	
Gravel pit Hoist and lights - #2 Shaft	1	3	(10)	30	
AND THE PROPERTY OF THE PROPER	1		1101	3	
Underground haulage		1			116
LLOYD MINE:					
Cage hoist control	1	1		72	
Skip " "	1	1		72	
Water supply pump house lights	1	1			
Engine house lights and bell system	1	1		5 5	
Shaft house lights	ī	1		5	
Auxiliary compressor	i	ī		2	
Lights and power	î	i		22	
Underground haulage	3	i		100	
" " from Wade Mine	1	3	(35)		
TLOW HOWA WINA	•	-	1001		236

Distribution Transformers (Cont'd)	Phase	No. K.V.A.	Total K.V.A.
brt. fwd.			1,612
NORTH LAKE LOCATION:			
Location lights	1	1 7世	
Club House "	1	110	172
SECTION 6 SHAFT:			1,8
Hoist control	1	1 72	
Lights	1	2 (2)4	
			112
REPUBLIC MINE:			
Engine house lights	1	1 7章 1 1章	
Water Power Plant lights	1		
	1	13	12
PALMER SUBSTATION			14
Circuit breaker control	1	1 15	
			12
AUSTIN MINE:		THE PROPERTY.	
Shop	1	1 _10	
			10
GARDNER MINE:			
Cage hoist control	1	1 10	
Power and lights	1	2 (10) 20	30
MACKINAW MINE:			•
Machine shop	1	2 ( 5) 10	
Hoist control	ī	1 10	
Top tram	1	1 1	
7th level Engine House lights	. 1	1 1	
Engine house heaters	1	1	-
PRINCETON #2:			25
Stockpile	1	2 (10) 20	
William Control		~ \ <u></u>	20
PRINCETON #3:			
Lighting and beal system	1	11	
			12
PRINCETON CENTRAL POWER PLANT:		- (ml) mol	
Coal crusher	1	3 (72) 222	
Po Power plant lights	1	110	32
PRINCETON CENTRAL SHOPS:			
Power and lights	1	2 (10) 20	
			20
GWINN DISTRICT OFFICE:			
Lights	1	110	
Caralle 100			10
PRINCETON PUMP STATION		# 12E1 AF	
Power	1	3 (15) 45	
Lights	1	15	50
GWINN DISTRICT CRUSHENG PLANT:			
Power and lights	1	2 (10) 20	
			20
GWINN SUBSTATION:			
Lights	1	11/2	- 1-
			1/2
		fwd.	1,8742

				767
Distribution Transformers (Cont'd)		6		
		No.	K.V.A.	
AU TRAIN WATER POWER: brt. fwd.				1,874
Operators dwelling lights	1	1	2	
Control	1	3 (1)		
Power and Lights, Dixon Location	1	1	5	
" " " Grand Island	1	2 (5)		
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	
Gravel pit	1	2 (5)		
Camp lights	1	1	5	
Grand Island	ī	ī	7	
tt tt	î	2 (5)		
	i		3	
Dixon Location, power	-	1		872
CARP RIVER WATER POWER PLANT:				0/2
Power and lights	1	1	10	
10 Wer aim lights	1		20	
BANGACT 28 C.	i	2 (1)		
Pump		4 1 11	2	32
WATER DE LIM.				32
HOIST PLANT:		- 1201	70	
Power and lights	1	3 (10)	30	-
				30
McCLURE PLANT:				
Power and lights	1	2 (10)	20	
				20
ESCANABA RIVER PLANT:				
Power and lights	1	3 (5)	15	
				15
		GRA	ND TOTAL	2,059
RETAIL SERVICE:				
Austin Location lighting	1	1	10	
Gwinn street lights	1	2 (1)	2	
	1	1	2	
Gwinn lighting - near Depot	1	1	1/2	
" - Poplar Alley	1	1	30	
* power - Club House	1	1	5	
" lighting - " "	1	1	10	
" " - Mineral Street	1	1	10	
" - Pine "	i	3 (15)		
	î	3 (5)		
bower - pougot				
719111119 -	1	1	10	
Cyr Location lighting	1	1	2	
Princeton Upper Location lighting	1	1.	10	
" Lower " "	1	1	5	
New Swanzy "	1	1	10	
Little Lake " "	1	1	5	
	1	1	72	
State Farm - Chatham	1	2 (72)	15	
Chatham lighting	1	1	10	
tt II	ī	1	5	
11	î	ī	1	
Eben lighting - School	i	i	10	
	i	1	10	
Seney "	i	1	3	
		-		
		fwd.	218	

### Electrical Department: (Cont'd)

Distrib		ransformers (Cont'd)	Donne		VVA	TOTAL K.V.A.
RETAIL SERVI	(1 TA)	had 4-4	rnase	No.	K.V.A.	TOTAL K. V.A.
		brt. fwd.	-	0 / =1	218	
Rumely			1	2 (5)	10	
Dorsey	rarm 11	gnting	1	1	2	
TO SERVICE THE RESERVE	"		1	1	3	
Eben	"		1	1	3 22	
	8		1	1	42	
		g extensions	1	1	5	
Dorsey	lighting	3	1	1		
	"		1	11 (12)		
	2		1	2 (3)		
		lighting	1	1	1	
Eben Co	The state of the s	- B	1	1	72	
		eken coop	1	1	5	
Alger C		nfirmary	1	1	72	
	" SI	ned	1	1	5	
				TOTA	L	2952
Spare T	ransform	ners on hand December	31st, 193	4:		
ANGELINE MIN	100					
General	Electri	ic	1	1 .	1	1
GENERAL STOR	EHOUSE &	BARN:				
General	Electri	ic for 440 V. Shaft Pur	mp 1	1	100	
			1	1	10	
	1111	from Republic	1	1	15	
TO THE REAL PROPERTY.	11.	11 11	1	1	72	
			ī	1	75	
			î	î	10	
			i	i	10	
	**		î	i	10	
	****		î	i	5	
			1	1	5	
	"		1			
			1		25	
ü		•		1		
A Committee of the Comm	- 44		1	1	1/2	
Pittsbu	rgn		1	1	10	
General	Electri	.0	1	1	3	
			1	1	3 3 1 5	
			1	1	1	
	- 4		1	1	5	
			1	1	3	
	**		1	3 (75)	225	
			1	1 .	10	
ATHENS MINE:	*					563
			1	1		
Spare			1	1	3	
						6
REPUBLIC MIN					-	
General		.0	1	1 .	4	
GWINN SUBSTAN	PION:					4
Spare			1	1	10	
			1	1 .	10	
PRINCETON MI					1	20
Surface	lightin	ıg	1	1 .	5	
					POTAL	<u>5</u>
			- 4		U. A.	077

#### COMPARATIVE TABLES:

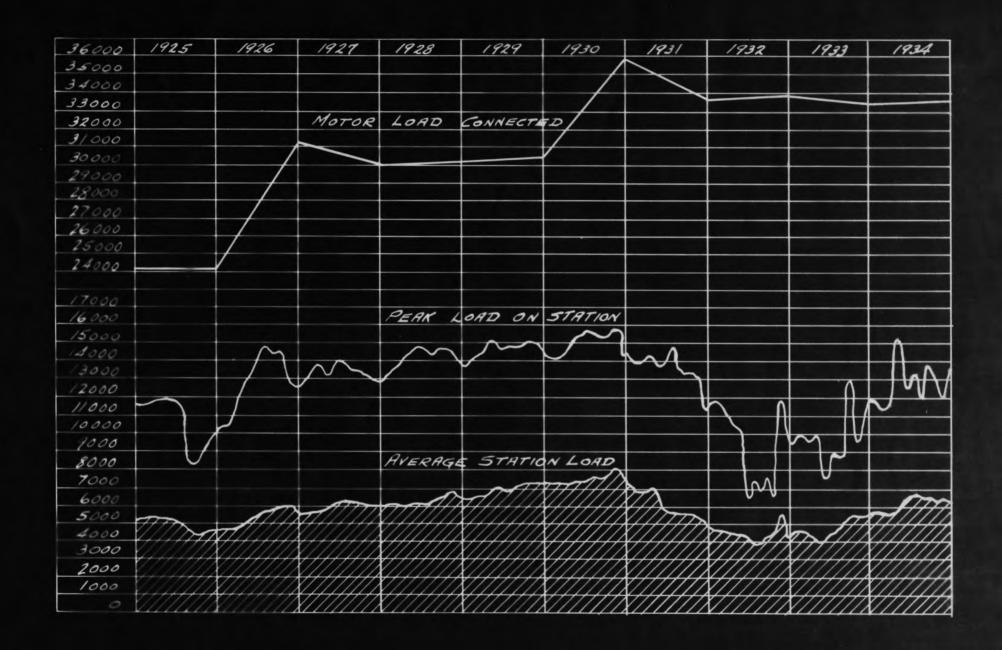
	TONS	TONS ORE		CUBIC FT. AIR	GALLONS	
	COAL	& ROCK	CU. FT.	PER TON	OF WATER	
YEAR	BURNED	HOISTED	AIR USED	HOISTED	PUMPED	G.P.M.
CLIFFS SHAFT	MINE:					
1925	2,900	322,928	824.005.547	2,551	327 .655 .585	
1926	1 470	350 604	801 351 000	2 285	379 727 700	
1927	957	426 830	766 647 000	1 796	440 517 425	
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	664
ATHENS MINE	1					
1005	200					
1925	789	214,510	468,900,000	2,186	131,715,395	
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 1934	546 672	49 506 166 412	152 235 000 334 485 000	3 075	194 073 179 179 244 454	341
MAAS MINE:						
1925	670	144,408	372,735,000	2,581	480,918,511	
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	1,048
NEGAUNEE MINE:						
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	830

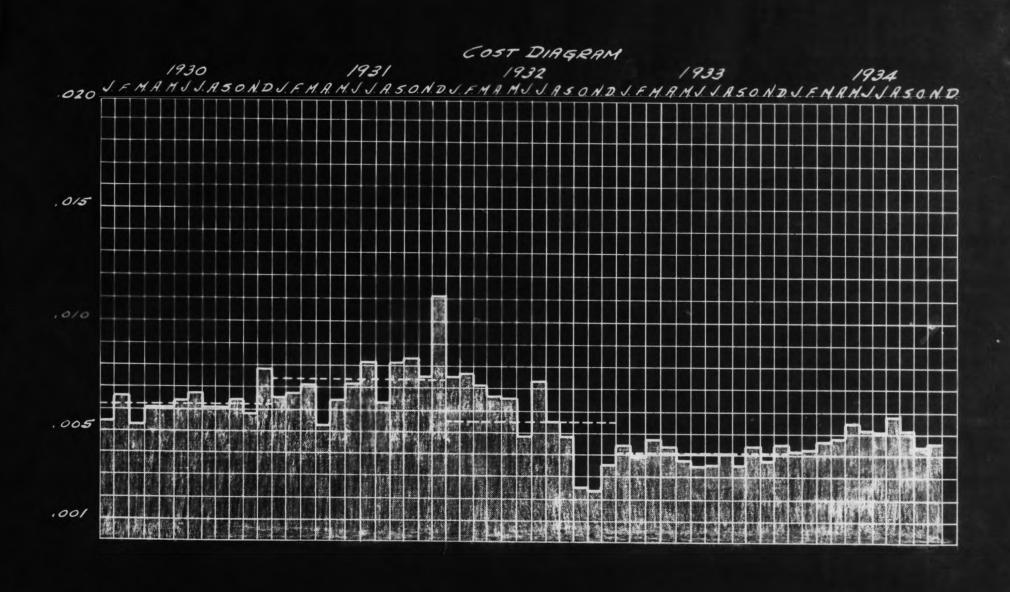
#### COMPARATIVE TABLES:

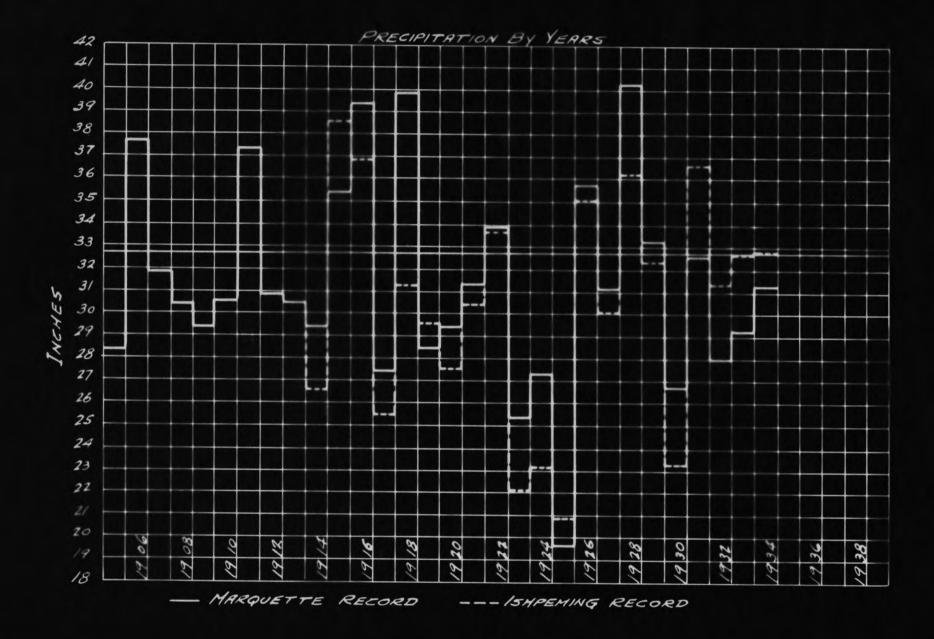
	TONS	TONS ORE	CT. FT.	CUBIC FT. AIR PER TON	GALLONS OF WATER	
YEAR	BURNED	HOISTED	AIR USED	HOISTED	PUMPED	G.P.M.
TILDEN MINE	l:					
1929	625	441,769				
1930	498	287 043				
1931	244	137 010				
1932	38	19 957				
1933	164	94 194				
1934	325	167 688				
LLOYD MINE:						
1933	96	4,554				
1934	127	136 951	145,926,000	1,065		
GARDNER-MAC	KINAW MINE:					
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	156

DISTRIBUTION OF ELECTRIC POWER 1930 - 1931 - 1932 - 1933 - 1934

	DISTRI	BUTION	OF E	LECTR	IC POWER	2 1930	0 - 1931	- 1932	- 1933	- 1934	2	
3	SHOVELS, E.	EUSHEN	RS AND	SURFAC	E TRANS						/930     /931	
		TROUNE	SCRAF	PERS, 7	KAMS ANI	D LIGHT					□ 1932 □ 1933 □ 1933 □ 1934	
		MIS	CELLAN	Eous	POWER H	AND LIGI	MT	П				
				Hoists						4		
				<u></u>	PUMPS			П				
					POWER F			5				
								ONPRE.	550R5			
										a	SOLD OUTSI PART	DE
100	300	600	800	000/	/200	1400	/600/	1900	2000	7300	1400	1500









CURRENT MADE
BY WATER POWER

WATER LOST BY OVERFLOW

POWER PURCHASED

#### PENSION DEPT. ANNUAL REPORT YEAR 1934.

11.

#### . 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 regular plan of seeing an injured man just as soon as possible has been followed and this has served to maintain the most friendly relations with the men making it possible to readily secure their signatures to the compensation agreements and keep them satisfied with the provisions of the Compensation Laws.

The payments have been made promptly, the checks being delivered to them at the office when they are able to come for them, for the Ishpeming mines, or delivered to them at the hospitals or at their homes when they are unable to be out.

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

In many cases this year while the mines were operating on a 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 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

The greatly 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.

Early in the year the Department of Labor and Industry issued a rule that for employers working under a Government code the method of computing compensation would be on the basis of five times the daily wage, instead of six times. In a few months we were notified that the rule had been rescinded and that the provisions of the Law would be in effect.

From May 17, 1933 to May 16, 1934 the Fidelity & Casualty company of New York carried the compensation risk for all departments of the Company in Michigan. Previous to the end of the insurance year the Fidelity & Casualty Company decided not to continue as insurer.

A very careful calculation of compensation costs was made. On May 17, 1934 the Company assumed its own risk and so continued throughout the year.

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

#### DOMINIC FRANCISCO - MAAS MINE - Acc. Rept. #386.

Francisco was injured January 24, 1926. He suffered a fractured left hip. A nail in an old plant which he was throwing from the stocking trestle caught in his clothing and pulled him off the trestle and he landed on the ore pile about 35 feet below. Following this accident he was disabled for a year and then returned to work as an underground sampler. He continued at this work for five years and then the hip again troubled him and in January 1932 he was forced to discontinue work and he was again placed on the compensation roll with the understanding that the injury in 1926 was the proximate

#### PENSION DEPT. ANNUAL REPORT YEAR 1934.

11.

#### WORKMEN'S COMPENSATION (Continued)

#### DOMINIC FRANCISCO - MAAS MINE - ACC. REPT. No. 386. (Continued)

cause of his present disability. Our doctors agreed that he was disabled but apparently there was nothing they could do for him so in January 1934 he was sent to Ann Arbor and it was the opinion of specialists there that he was totally disabled for heavy work. His compensation will expire in 1935.

#### OTTO PULKKINEN - ATHENS MINE - Acc. REPT. No. 327.

Pulkkinen suffered a severe contusion of the left thigh on December 8, 1930, and as a result was disabled until April 6, 1931. He then returned to light work until March 17, 1932, when he was forced to quit because of the condition of his leg. Continued treatment for two years was ineffectual and the case had all the ear-marks of total disability. On October 15, 1934, we settled with Pulkkinen on a partial disability basis and a lump sum was paid him with which he purchased a farm on the outskirts of Negaunee.

#### DAVID LAMPINEN - ATHENS MINE.

Lampinen claimed a leg injury on May 29th, 1930, caused by being struck by falling ore while he was bending over to pick a hitch for a timber leg. The injury did not disable him at the time and he continued to work as a miner until the mine closed in the spring of 1933. He did not return to work in the fall of 1933 when the mine re-opened, claiming he was unable to do so because of the condition of his leg. Our doctors said that any disability Lampinen had was due to a bad varicess condition and that this condition was not the result of any injury. Lampinen petitioned for compensation in 1934 and his case was heard before a Deputy Commissioner on October 19th, and an award was made in his favor. We have appealed for a hearing before the Full Board but up to the end of the year the case had not been set for hearing.

#### WILLIAM MERRILA - NEGAUNEE MINE - ACC. REPT. No. 605.

Merrila was fatally injured by a fall of ground on March 20, 1934. At the time of his death William was maintaining a home for himself and his two younger brothers, Eli 22 and Emil 21, neither of whom were working at the time of William's death. Eli and Emil filed a claim against the Fidelity & Casualty Company which came on for hearing on October 19th, 1934, at which time they claimed their father had died a good many years ago following which William was considered the head of the family; that their mother died two years ago, and since that time they have done the housework and the cooking; that neither of them have been employed during this period except at odd jobs, and that they were both entirely dependent upon William for the necessities of life. Their claim for compensation was denied by the Deputy Commissioner and they have appealed.

#### PENSION DEPT. ANNUAL REPORT YEAR 1934.

11.

#### a. WORKMEN'S COMPENSATION (CONTINUED)

FATALITIES.

The following fatalities occurred during 1934. The Luoma and Merrila fatalities occurred during the time we were insured by the Fidelity & Casualty Company of New York.

Gust Luoma		
Age 30	C.P. & L. CO., Acc. Rept. No. 18.	
	Occurred March 16, 1934.	
	Fell from transmission line tower.	
	Dependent wife and one child.	
	Compensation at \$14.56 per week	
	for 300 weeks	4368.00
	Fineral expense	200.00
		\$ 4568.00
William Merrila	Negaunee Mine, Acc. Rept. No. 605.	
Age 35	Occurred March 20, 1934.	
	Caught by fall of ground.	
	Question of dependency of two brothers	
	has not been determined.	
	Fume ra 1 expense	200.00
Matt Toppila	Cliffs Shaft Mine, Acc. Rept. No. 1063.	
Age 62	Occurred June 11, 1934.	
	Slipped from ladder and fell on ore pile.	
	Dependent wife.	
	Compensation at \$16.80 per week	
	for 300 weeks	5040.00
	Funeral expense	200.00
		\$ 5240.00
John Nicholas	Tilden Mine, Acc. Rept. No. 8.	
Age 56.	Occurred July 24, 1934.	
	Arm caught between conveyor belt and pulley.	
	Dependent sister. Three dependent children.	
	Compensation at \$18.00 per week	
	for 300 weeks	5400.00
	Fumeral expense	200.00
		\$ 5600.00

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

Acc. Rept.	Accident	Final Payment.
1 572	6/14/28	3/14/34 9/17/34 12/29/34
	erson 6	erson 6 6/14/28 i 572 12/17/28

#### PERSION DEPT. ANNUAL REPORT YEAR 1934.

11.

#### a. WORKMEN'S COMPENSATION (Continued)

Following is a list of the more serious cases occurring during 1934, other than fatalities:

Mine & Rept. No.	Name	Nature of Injury	Compensation Paid.
Athens #334	John H. Johns	Fracture of 4th metatarsal right foot	432.00 *
Cliffs Shaft No. 1064	Simon Luoma	Infected hand	216.93 *
Cliffs Shaft No. 1066	Oscar Kurin	loss of right eye. will be paid 100 weeks- \$1800.00.	576.00*
Maas No. 472	Matt Hill	Fractured left leg	252.00*
Negaunee No. 607	chas. Johnson, Sr.	Severe contusion and sprain of right foot and ankle.	422.40*

<sup>\*</sup> Payments are still being made.

11.

#### a. WORKMEN'S COMPENSATION (Continued)

#### Compensation Payments including Medical Expense.

		Negaunee	Athens Ir.	Cliffs Pr.	Mesaba Cl.	Holman Cl.		Alexandria	
Year	C.C.I.Co.	Mine Co.	Mng. Co.	& Light Co.	Ir.Mng.Co.	Mng. Co	Cl.Mng. Co.,	Mine	TOTAL.
1912	1073.81	105.08		á		,			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
Totals	1133324.26	142315.52	90933.23	11839.20	64565.80	2131.39	2768.69	5372.63	1453260.72

PENSION DEPT.

11.

# a. Workmen's Compensation (Cont.)

# ANNUAL STATEMENT OF COMPENSATION PAYMENTS FROM JANUARY 1st, 1934 TO DECEMBER 31st, 1934.

Compensation paid on 1934 accidents	\$ 3735.35	
Compensation still pending	61488.29	
Cost of medical and hospital service	7314.25	
Total		\$ 72537.89
Less pending for years 1925 to 1933 inclusive	49262.54	
Less medical paid on accidents occurring prior to		
January 1, 1934	260.48	
Less medical paid on insurance company cases	105.00	
		49628.02
Cost of 1934 accidents		22909.87
Percentage of payrolls		.02214
Number of accidents on which compensation payments were	made	13
Number of non-compensable accidents		1
Number of slight accidents which caused not over 1 day	s lost time	173

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

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

#### ANNUAL REPORT - YEAR 1934

#### STATEMENT OF COMPENSATION PAYMENTS FROM JANUARY 1, 1934 TO DECEMBER 31, 1934

	Average No. of	No. of		. of	Actual Comp.											E 2.12	Estimated Compen- sation still	Actual Payments to Phy-	Contin	
	Employes	Accs.		idents	1934	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	Pending	sicians		
Cliffs Shaft Laboratory Chief of Police	302 3 1	1	5	35	4574.93		I		1872.00		TARSER ZON	Wheel to	972.00	1	ne it is	1730.93	12828,20	1278.75 11.25 3.75 15.00	2	5
District Welfare Employes Wood, Gwinn District	190				648.00					dela	dang naimi	inest tas an President	0.10%	648.00	1	8	624.00	520.50		1
Gardner-Mackinaw General Storehouse General Welfare Geological Department	139 57 2 1		1	2	979.20						en. Appropri	oderoji i risting le mating le	936.00			43, 20	1958.40	211.37 5.63 3.75 3.75	1	1
Gwinn Office Holmes Ishpeming Hospital	1				1876.80						972.00	904.80	ention ention ention		gran.		2277.60	1.75	1	1
Ishpeming Office Lloyd Maas	14 127 304		2	11 19	4499.76 5873.60	210.00		552.00 2226.00			524.16 1026.00	2297.60	956.00 2208.00	7 1		413.60	6692.28 10785.55	475.75 1337.73	3 1	3 6
Mechanical Engineering Mining Engineering Princeton	5				308.00	308.00				,	nalveau lug		2000 10 25 0 10 25 0 10 25 0					9.37		
Furchasing Department Republic Safety Department	3				831.84			35.00		866.84	Lement of the	ed teles	encori Famili Naek		1		2967.26	14.00 1.87 11.25		1
Shipping Department Spies Virgil Stephenson	12			1	2240.00 596.00		784.00	728.00	728.00				estas estas estas			596.00	2594.00 5004.00	44.12 146.00	1	8
Tilden Workmen's Compensation Saranac Investigation Dismantling Lake Angeline Drainage	36	1			996.00					econtreli	noliava noliva naliva	eget (a tea famous files multiples (an	endioT religh result		91984			5.62 1.50 8.50		
The Cliffs Power & Light Co.	21		1	5	239.46				IN T	216.00	1865 E 13696		0.460			23.46		229.00		
Negaunee Athens	224 198		2	23 23	6701.68 7622.38		476.00	155.52 845.14	ASC - 195	1008.80 83.20	2880.00 936.00	1265.76 4863.71		216.00 198.00		440.40 432.00	7090.76 4300.62	872.29 8 <b>07.</b> 00	1	8
Total - Michigan Mines	1461	2	12	1 123	36991.65	518.00	1260.00	4451.66	2600.00	2174.84	6338.16	9551.87	5575.53	1062.00		3679.59	56922.67	6090.00	10	35
Hibbing Office Holman-Brown Ganisteo Hill Trumbull	11 7 180 4		1	44 6	625.04 681.82				003		es. 1	681.82	Hisan Roins Canta		569.28	55.76	159.40 4426.22	62.50 42.50 1092.75 26.50	× 1	1
Total - Minnesota Mines	202		1	50	1306.86		The state		SGE	went211 a	ionaprii -	681.82			569.28	55.76	4565.62	1224.25	1	1
Total - All Mines	1663	2	13	1 173	38298.51	518.00	1260.00	4451.66	2600.00	2174.84	6338.16	10015.69	5575.53	1062.00	569.28	3735.35	61488.29	7314.25	11	36

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

11

# a. Workmen's Compensation (Cont.)

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

	C.C.I.CO.	C.P.& L.Co.	Negaunee Mine Co.	Athens Iron Mining Co.	Total
Premium earned Medical Expense	9197.47 3949.43	664.87 164.30	1564.67 814.99	1338.09 727.16	12765.10 5655.88
Cost to Company	13146.90	829.17	2379.66	2065.25	18420.98
Compensation paid by The Fidelity & Casualty Co. 1933	973.60 3479.60	811.52	89.88 386.68	24.01	1063.48 4701.81
Total Compensation payments	4453.20	811.52	476.56	24.01	5765.29
Estimated deferred liability	7700.63	3756.48			11457.11
Cost of Accidents	12153.83	4568.00	456.56	24.01	17222.40
Premium earned as above					12765.10
Estimated loss to Insurance Co.					4457.30

Two cases are being contested. One has been scheduled for hearing before a Deputy Commissioner early in 1935. In the other the Deputy Commissioner ruled for the Fidelity Company but the plaintiff has appealed and the case will probably be scheduled for hearing before the Full Board shortly.

11.

# a. WORKMEN'S COMPENSATION (Continued)

In 1933 an agreement was entered into with the Fidelity & Casualty Company of New York to carry the compensation risk on our Michigan properties.

The insurance company paid the compensation and our Company paid its medical expense. This medical payment was at the rate of 50¢ per man per month.

This insurance was in effect from May 17, 1933 to May 16th, 1934, at which time the insurance agreement ceased on due notice from the insurance company.

The table following is placed in the annual report for reference purposes, omitting 1933 and 1934, during which years the insurance plan was in effect.

# COMPENSATION AND MEDICAL PAYMENTS.

Year	Total Cost	Medical	Compensation Payments
1922	42090.73	11765.36	30325.37
1923	63360.07	15266.32	48093.75
1924	69889.27	15893.22	53996.05
1925	56544.37	15814.74	40729.63
*1926	81204.83	15391.11	65813.72
1927	44730.22	13839.54	30890.68
1928	40824.87	12665.85	28159.02
1929	53642.17	13985.84	39656.33
1930	50558.28	17182.50	33375.78
1931	43317.26	13759.38	29557.88
Average 10	years:		
	54616.21	14566.38	40059.82
1932	11875.02	7991.46	3883.56

<sup>\*</sup> Barnes-Hecker disaster not included in these calculations.

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.

	Percentage of Pay-roll	Percentage of Compensable Accidents	Percentage of men Paid Compensation.
1912 (4 months)	.00648	42.13	
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

11.

# a. Workmen's Compensation.

# MICHIGAN COMPENSATION LAW.

Only one addition to the Law was made in 1934. This was to cover the proceedings in the case of an award to be taken to the Circuit Court to compel payment.

A new ruling and a very important one made in 1935 is still in effect. The Department of Lebor and Industry are now required to approve final settlements and notify the employer of their approval, which tends to more definitely close the case. This was because of a Supreme Court decision that a case was not closed unless the Department had approved the final settlement. This is of very great importance and will tend to prevent the opening up of old cases.

During the year the Commission was the same as in 1933, with a change of Secretary from James A. Muir to Samuel B. Ostrow. The Board is as follows:

Claude S. Carney, Chairman Wm. A. Seegmiller, Eugene P. Berry, Daniel O'Connor, Samuel B. Ostrow. Secretary.

L. J. McManman continued as Deputy Commissioner for the Upper Peninsula District throughout the year.

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

	When Law went into effect	as amended in effect	In effect	In effect
MICHIGAN LAW.	Sept. 1, 1912.	Aug. 14.1919	Aug. 18.1931	Sept. 4.1927
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	l week	l week	1 week
Waiting period picked up				
at the end of	8 weeks	6 weeks	6 weeks	6 weeks
Maximum death payment	\$ 3000.00	4200.00	4200.00	5400.00
Maximum compensation for total disability	4000.00	6000.00	7000.00	9000.00
total disapility	2000400	000000		

11.

# a. Workmen's Compensation (Continued)

#### MINNESOTA COMPENSATION LAW.

Changes were made in the Minnesota Law which went into effect on December 28th, 1935.

a. "In every case of the death of an employe resulting from an accident arising out of and in the course of his employment where there are no persons entitled to compensation, the employer shall pay to the State Treasurer the sum of \$300.00."

The former amount to be paid to the State Treasurer was \$200.00.

B. "In every case of the total loss, or the total loss of the use thereof, of a hand, arm, foot, leg, or eye, resulting from an accident arising out of and in the course of an employe's employment, the employer shall pay to the State Treasurer the sum of \$75.00 in the case of a hand, arm, foot, or leg, and \$100.00 in the case of an eye."

The payments to be made under "B" are new provisions of the Law and

not previously covered.

The present members of the Commission is the same as for 1933:

W. H. Debel, Chairman.
Frank T. Starkey,
J. D. Williams,
J. F. Emme, Secretary.

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

Mirmesota Law	When Law went into effect Oct.1, 1913	Amended April 26,	Amended June 6, 1921	In effect since Oct. 1st 1923.
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 waiting period picked up	2 weeks	1 week	1 week	1 week
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

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.

23.

## a. PENSION SYSTEM.

The year 1934 completed the twenty-sixth year of the operation of the Pension System.

On January 1, 1933, the pension payments were reduced fifty per cent, those whder \$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.

No.	Nane	Date Pensioned	Date Died
46	Gust A. Lyman	5/1/1914	1/ 9/1934
55	Eric J. Hammer	10/ 1/1914	3/3/1934
120	John Lemin	6/ 1/1921	5/12/1934
123	John H. Paynter	6/ 1/1921	9/4/1934
155	Victor Carl son	4/ 1/1922	2/10/1934
159	Charles Sundine	7/ 1/1922	1/19/1934
198	John Ellis	6/ 1/1926	6/ 9/1934
222	Louis Rasmussen	1/1 /1928	1/2/1934
237	Fred Voegtline	2/ 1/1929	4/6/1934
239	Peter Carlson	5/ 1/1929	9/23/1934
246	Sinai Nault	3/ 1/1930	5/18/1934

	1933	1934
Number of pensions granted during year	0	0
Number of deaths	11	11
Number of Old Age Pensions in force Dec. 31,	105	94
Amerage annual pension	285.15	268.78

There were no additions to the Furnace Department pension roll during the year 1934. There was one death, this being

#21 Neils Hensen, Date Pensioned. Date Died 3/30/1934.

On December 31, 1934 there were eight pensioners on the Furnace Department pension roll with an average annual pension of \$279.56.

23.

# a. PENSION SYSTEM (Continued)

Pension payments for the years 1908 to 1934 inclusive are as follows:

MINING DEPARTMENT:		Widows and	
Year	Old Age	0rphans	Total
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	38 65. 95	3113.00	6978.95
1913	5133.62	30 25.00	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	28 205 . 25	0.00	28205.25
	622014.48	22547.00	644561:48
Payment made by			
Cleveland Office		*	
in 1930	2500.00	-	2500.00
	624514.48	22547.00	647061.48

23.

# a. PENSION SYSTEM (Continued)

# FURNACE DEPARTMENT.

The pension payments for the years 1910 to 1934 inclusive are as follows:

· Vacm	Old Age	Widows & Orphans	Total
Year	Old Age	Orphans	Total
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	9.00	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	28 33 - 39	0.00	2833.39
1926	5351.35	0.00	5351.35
1927	48 19 . 73	0.00	4819.75
1928	5481.50	0.00	5481.50
1929	6137.02612.22	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	2538.04
1934	2309.43	0.00	2309.43
	\$ 52286.84	\$900.00	\$53186.84

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, 1934 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	76 73.30
1933	4908.04
1934	4400.52

\$ 123205.83

The following Old Age Pensions ceased during the year:

No.	Neme	Date Pensioned.	Date Died.
No.	Benjamin Douquette	June 1, 1921	Feb. 8, 1934
13	Frank Weinberg	Nov. 1, 1921	Oct. 3, 1934.

#### LAND DEPARTMENT.

Erick Johnson continued on the pension roll during the year.
Total pension payments from January 1, 1927 to December 31, 1934
are as follows:

1927	333.36
1928	333.36
1929	333.36
1930	333.36
1981	333.36
1932	250.08
1933	240.00
1934	240.00

\$ 2396.88

. 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.

We have had during the year a number of calls from people in connection with the old Republic Mine Funds, but in these cases it was found that the people applying were not entitled to the payments as their relationship was so remote as not to come within the provisions of the rules andresocutions adopted by the Club when the business was closed and the present balance of the fund turned over to the American Red Cross.

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 some use has already been made of them. The heating boiler at the hospital gave out and the schools assumed the care of the building and the heating of it, and money was used to put in a new boiler. The schools make quite a little use of the building in connection with its physical training and other work, and because of this were willing to supply the fuel.

The Republic Bank was closed in 1932 and the Relief Organization had on deposit \$165.00, and this was not available up to the end of the year. To meet the requirements and also because of the impossibility of raising any particular sums of money at this time in Republic, some \$400.00 was appropriated from the funds in the care of the Marquette County Red Cross Chapter for direct relief at this particular time.

During 1934 coal was furnished to heat the hospital building as the school was without funds for this purpose.

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

# b. Republic Mine Funds (Continued)

STATEMENT OF FUNDS REMAINING IN REPUBLIC MINE RELIEF & SICK BENEFIT FUND "SAVINGS ACCOUNT" AS OF DECEMBER 31ST, 1934.

# Miners' National Bank:

Miners' National Bank:			*
Amount on deposit De	e. 31. 193	33	58.83
Distribution 1934	60%	35.30	
Distribution 1934		11.76	47.06
Balance in old	bank		\$ 11.77
Miners' First National Ban	k.		
	60%		35.30
Interest for 1954			.79
Distribution 1934	20%		11.79
Balance on h	and		\$ 47.86
		IG IN REPUBLIC MINE FA	
Amount on Deposit De	c. 31. 193	3	169.32
Distribution 1934		101.59	
	20%	33.86	135.45
Balance in ol	d bank		\$ 33.87
Miners' First National Ban	k;		
January 15, 1934	60%		101.59
Interest for 1934			2.28
Distribution 1934	20%		33.86
Balance on	hand		\$137.73

23.

c. Suspense Funds.

In the 1918 Annual Report there is a complete statement of the payments made from the Suspense Fund 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).

.23.

# d. <u>Visiting nurses.</u> The following is the report of the Ishpeming Visiting Nurse for the year 1934:

				-	
Total number of p	atients	cared for d	uring year		554
Number of new cas	es cared	for during	he ar		238
Total number of v	is its to	patients			3956
Number of familie	s visite	d for the f	irst time		42
Number of familie	s invest	igated 5	Number of	investi	gation calls 8
Number of social	calls	-			30
Number died					,
Class if i cat i	on of ne	w cases for	the year:		
Number of adults	1	43	Male	21	Female 122
Number of childre	n	95	Male	45	Female 52
Nationalitie	s of new	cases for	the year:		
American		162	Itali	an	14
English		17	Norwe	gian	2
Finnish		23	Swe di	sh	12
French		8			
Diseases and	number	of new cases	91		
Abscess	1	Heart Tr	oub le	5	Pneumonia 10
Adhesiona	2	Hyperten	sion	4	Post Operative 21
Appendic itis	2	Infants,	Newborn	18.	Prenatal 18
Asthma	7	Infant W	elfære	5	Pul.Tubercul. 1
Bowel Trouble	2	Infection	ne ·	25	Rheumatism 1
Bronchitis	11	Injury		18	Rupture 1
Carcinoma	5	Kidney t	roub le	1	Stomach trouble 1
Cold	16	Miscarri	age	2	Tonsilitis 4
Colitis	1	Nephritis		1	Unclassified 12
Diabe tic	2	Obstetric	al	12	Undiagnosed 7
Fracture	2	Otitis M	aibe	1	Var. Ulcer 6
Grippe	1	Paralysi	8	2	

Visiting Nurse: Miss Myrtle Welander.

-	
23.	

The following is			inee Vi	siting	Nurse for the year	1934:
Total number of pa	tient	s cared for durin	g year			1033
Number of new case	s car	ed for during yes	T			711
Total number of vi	sits	to patients				5119
Number of families	vis 1	ted for the first	time		*	19
Number of families					nvestigation calls	117
Number of families		ed 14	Pro	visions	14	
Number of social	alls					576
Number died						10
Classificatio	n of	new cases for the	years			
Number of adults		320	Male	59	Female.	261
Number of children		391	Male	210	Female	181
Nationalities	of n	ew cases for the	W 80° 1			
Amer ican	. 02 28	333		rench		13
Aus trian		1	-	erman		2
Danish		2	0.72	rish		1
English		39		tal ian		52
Firmish		250		wedish		18
Diseases and	Numbe	r of new cases:				
	1	0-m - Dah4144-		5	Pleurisy	2
Aenemia		Gen. Debility		44	Pneumonia	3
Apoplexy	2	Grippe Heart trouble		5	Post Operative	62
Appendic it is	25			1	Pregnancy	30
Bowel Trouble	45	Herpes		54	Pul. Tuberculosis	200
Bronchitie	9	Infants, Newbor	n	23	Quincy	3
Burns	1	Infections		31	Reynaud's Disease	
Carcinoms	9	Injury		3	Rheumatism	13
Carvical Adenitis	5	Kidney trouble		8	Rupture	8
The state of the s	7	Lumbago Mal-Nutrition		3	Scarlet Fever	24
Cholystitis	39			60	Sore Eyes	4
cold	-	Me as les		18	Sprains	3
Croup	3	Mumps		1	Stomach trouble	13
Cystitis	2	Neuralgia		i	Tonsilitis	41
Dermatitis	2	Neuritis		61	Unclassified	10
Diabetes		Obstetrical		2	Undiagnosed	2
Eczeme	1	Otitis Media		1	Whooping Cough	3
Erysipelas	2	Pertussis			Amobine consu	

Visiting Nurse: Miss Ina E. Atkin.

d. <u>Visiting Nurses</u> (Continued)

# NUMBER OF PATIENTS ATTENDED AND CALLS MADE BY VISITING NURSES.

	No. of Patients	No. of New Cases	Male Adult	Female Adult	Male Children	Female Children
Ishpeming Negaune	554 1033 1587	238 711 949	21 59 80	122 261 383	43 210 253	52 181 233
	Total No.	Number Died.	Social Calls.		ilies Visite st Time.	d for the
Ishpeming Negaune e	3956 5119 9075	9 10 19	576 606		42 19 61	

# NATIONALITY OF CASES.

	American	Aus trian	Danish	English	Finnish	French
Ishpeming Negaune e	162 333 495	0 1 1	0 2 2	17 39 56	23 250 278	8 13 21
	German	Irish	Italian	Norwegian	Swedi	<u>sh</u>
Ishpeming Negaunee	0 2 2	0 1	14 52 66	0 2	12 16 30	

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 John Lawry as superintendent.

The cooperation of the Inland Steel Company has been secured in its operation and it is doing a very useful service in that community.

On account of the talking movies in Ishpeming the moving pictures have been discontinued at the Club House.

Following is the financial statement for the year.

. 23.

#### g. GWINN ASSOCIATION.

Mr. E. L. Miller has continued in charge of the work at the Club House as Superintendent, under the personal supervision of Mr. Graff.

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 payment made by the men to 25 cents per month, the Company paying an additional 25 cents.

On the following sheets will be found a complete financial statement for the year and a statistical report prepared by Mr. Miller.

Attention is called to the following features from which a substantial revenue is received:

	Receipts	Expenditures	Profit
Bowling alley	170.00	79.06	90.94
Pool and Billiards	417.00	42.60	374.40
Buffet	283.50	170.27	113.23
Camp	10.00	7.16	2.84
	\$ 880.50	299.09	581.41

23.

# g. GWINN ASSOCIATION.

Cash on hand Jenuary 1st, 1934   1025.75			
Total Expenditures 4111.15  Balance on hand December 51, 1934 \$1084.90  RECEIPTS  Membership Fees - mem \$25.75 Bowling Alley 170.00 Pool and Billiards 417.00 Buffet 285.50 Towels and soap 27.50 Camp 10.00 Telephone 26.55 School and Rental 2410.00  EXPENDITURES.  Building, maintenance 170.24 Lighting 282.91 Water 840 Bowling alleys 79.06 Fool and Billiards 42.60 Buffet 170.27 Enter tainments 34.78 Towels and soap 9.25 Office Expense 11.02 Camp 7.16 Salaries 3055.00 Library 13.50 Reading room 17.55 Athletics 122.16 Telephone 72.50 Tex- Government and Sales 2.04	Cash on hand January 1st, 193	1025.75	
### Total Expenditures #### ### ### #######################	Total Receipts	4170.30	
# 1084.90    RECEIPTS   RECEIPTS	Total	5196.05	
Membership Fees - mem   825.75     Bowling Alley   170.00     Pool and Billiards   417.00     Buffet   283.50     Towels and soap   27.50     Camp   10.00     Telephone   26.55     School and Rental   2410.00     EXPENDITURES.	Total Expenditures	4111.15	
Membership Fees - mem   825.75	Balance on hand December	31, 1934	\$ 1084.90
Membership Fees - mem   825.75			
Bowling Alley		RECEIPTS	
Bowling Alley	Membership Fees - men	825.75	
Pool and Billiards   283.50   27.50   283.50   27.50   283.50   27.50   283.50   27.50   283.50   27.50   283.50   27.50   283.50   27.50   283.5			
Buffet   283.50   27.50   10.00   Telephone   26.55   2410.00   2410.00   2410.00   2410.00   2410.00   2410.00   2410.00   2410.00   2410.00   2410.00   2410.00   2410.00   2410.00   2410.00   2410.00   2410.00   26.71			
Towels and soap   27.50   10.00   Telephone   26.55   School and Rental   2410.00   \$ 4170.30   \$ 41			
Camp   10.00   26.55			
EXPENDITURES.   26.55   2410.00   \$ 4170.30   \$ 4170			
School and Rental   2410.00   \$ 4170.30			
EXPENDITURES.  Building, maintenance 170.24 Lighting 16.71 Heating 282.91 Water 8.40 Bowling alleys 79.06 Pool and Billiards 42.60 Buffet 170.27 Entertainments 34.78 Towels and soap 9.25 Office Expense 11.02 Camp 7.16 Salaries 3050.00 Library 13.50 Reading room 17.55 Athletics 123.16 Telephone 72.50 Tax- Government and Sales 2.04			
Building, maintenance       170.24         Lighting       16.71         Heating       282.91         Water       8.40         Bowling alleys       79.06         Pool and Billiards       42.60         Buffet       170.27         Entertainments       34.78         Towels and soap       9.25         Office Expense       11.02         Camp       7.16         Salaries       3050.00         Library       13.50         Reading room       17.55         Athletics       123.16         Tele phone       72.50         Tax- Government and Sales       2.04			\$ 4170.30
Lighting       16.71         Heating       282.91         Water       8.40         Bowling alleys       79.06         Fool and Billiards       42.60         Buffet       170.27         Entertainments       34.78         Towels and soap       9.25         Office Expense       11.02         Camp       7.16         Salaries       3050.00         Library       13.50         Reading room       17.55         Athletics       123.16         Tele phone       72.50         Tax- Government and Sales       2.04		EXPENDITURES.	
Lighting       16.71         Heating       282.91         Water       8.40         Bowling alleys       79.06         Fool and Billiards       42.60         Buffet       170.27         Entertainments       34.78         Towels and soap       9.25         Office Expense       11.02         Camp       7.16         Salaries       3050.00         Library       13.50         Reading room       17.55         Athletics       123.16         Tele phone       72.50         Tax- Government and Sales       2.04			
Heating 282.91 Water 8.40 Bowling alleys 79.06 Pool and Billiards 42.60 Buffet 170.27 Entertainments 34.78 Towels and scap 9.25 Office Expense 11.02 Camp 7.16 Salaries 3050.00 Library 13.50 Reading room 17.55 Athletics 123.16 Telephone 72.50 Tax- Government and Sales 2.04			
Water Bowling alleys Fool and Billiards Fool and Foo	CONTRACTOR AND		
Bowling alleys  Pool and Billiards  Buffet  Buffet  Entertainments  Towels and soap  Office Expense  Camp  Salaries  Library  Reading room  Athletics  Telephone  Tax- Government and Sales  79.06  42.60  170.27  170			
Pool and Billiards  Buffet  170.27 Entertainments  Towels and soap  Office Expense  Camp  7.16 Salaries  Library  Reading room  Athletics  Telephone  Tax- Government and Sales  170.27  170.2			
Buffet       170.27         Enter tainments       34.78         Towels and scap       9.25         Office Expense       11.02         Camp       7.16         Salaries       3050.00         Library       13.50         Reading room       17.55         Athletics       123.16         Telephone       72.50         Tax- Government and Sales       2.04			
Enter tainments 34.78  Towels and soap 9.25  Office Expense 11.02  Camp 7.16  Salaries 3050.00  Library 13.50  Reading room 17.55  Athletics 123.16  Telephone 72.50  Tax- Government and Sales 2.04		77 57	
Towels and soap  Office Expense  Camp  7.16  Salaries  Salaries  13.50  Reading room  Athletics  Telephone  Tax- Government and Sales  9.25  11.02  7.16  12.16  12.50  12.50  12.50			
Office Expense       11.02         Camp       7.16         Salaries       3050.00         Library       13.50         Reading room       17.55         Athletics       123.16         Telephone       72.50         Tax- Government and Sales       2.04			
Camp       7.16         Salaries       3050.00         Library       13.50         Reading room       17.55         Athletics       123.16         Telephone       72.50         Tax- Government and Sales       2.04			
Salaries 3050.00 Library 13.50 Reading room 17.55 Athletics 123.16 Telephone 72.50 Tax- Government and Sales 2.04	The state of the s		
Library 13.50 Reading room 17.55 Athletics 123.16 Telephone 72.50 Tax- Government and Sales 2.04			
Reading room 17.55 Athletics 123.16 Telephone 72.50 Tax- Government and Sales 2.04			
Athletics 123.16 Telephone 72.50 Tax- Government and Sales 2.04			
Telephone 72.50 Tax - Government and Sales 2.04			
Tax- Government and Sales 2.04	Company Compan		
	197 - Go se trimput star 9 9768	<b>20.02</b>	\$ 4111.15

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.

#### MEMBERSHIP

There was a slight increase in the membership of the Club due to the fact that the Gardner-Mackinsw mine employed more men.

Members carried	on roll Jan. 1, 1934	154
Members carried	on roll Jan. 1, 1935	229
High membership	for year - June	242
Low membership	for year - January	156

As in the previous years an opportunity was given to members to secure their membership for an entire year by working on a wood cutting job. 49 men secured their membership in this manner.

#### ATTENDANCE.

The attendance as estimated at the building for the year is below that of last year and is accounted for by the fact that during the period from June until October most of the activities conducted by the Association were held out-of-doors.

Total estimated attendance at building for year 69960 Average monthly attendance 5830

Total estimated attendance for all outdoor activities for which material and supervision was furnished by the Association: -including, ice-skating rink, playground and tennis court, classes at school playground, haseball leagues for adults, junior boys and high school girls, Association baseball team and Bass Lake Comp.

#### RECEIPTS AND EXPENDITURES.

Total	receipts includi	ng 1933 1	balance	(\$1,025.75)	\$5196.05
Carlo and the La	Expenditures (19				4111.15
-	Balance	Jan uary	1st. 19	35	\$1084.90

# BUFFET ACCOUNT.

Receipts for year	283.50
Expenditures for year	170.27
Profit	113.23
Inventory Jan. 1st. 1935	10.65

#### POOL. BILLIARDS & BOWLING ACCOUNTS.

Receipts for	year	587.00
Expenditures		121.66
	Pro fit	\$ 465.34

#### GENERAL ACTIVITIES AND ORGANIZATIONS USING BUILDING:

32 committee meetings.

68 sessions nursery school.

62 sessions kingergarten school.

15 meetings by Health & Hygiere Class.

#### YEAR 1934. PENSION DEPT. ANNUAL REPORT

23.

#### Gwimm Association (Continued) g.

# General Activities and Organizations using Building: Continued)

18 meetings by Women's Study Club.

8 meetings - 1 dance - 2 social parties by Town Club.

3 parties under supervision of High School - no dancing.

4 dancing parties by High School classes.

1 demonstration by archery expert.

4 social showers by women.

I meeting mothers nursery children.

28 total number dances held by different organizations.

88 lunches served by different organizations.

## CHURCH ORGANIZATIONS USING BUILDING.

4 events by church organizations to raise funds.

8 meetings by Episcopal Ladies Guild.

5 meetings by Gwinn Missionery Society.

10 meetings by Methodist Ledies Aid.

2 church suppers.

I bazear and fair by Methodist Church.

7 meetings by Epworth League.

3 Sunday School parties.

#### Events of Special Interest.

innual physical training exhibition by High School students.

Easter Monday Ball

Annual Junior Party or Prom

Amual Scout Ceremonial

Two Church Suppers

Card Party -for Christmas treat

Dance -for Christmas funds

Hallowe'en Party

Amnual Firemen's Ball

by Local Firemen.

by Junior Class High School.

by Scout Troops.

by Methodist & St. Anthony's Churches.

Dance and social party in honor of High School Baske tBall Team

by Community.

by Gwinn Ladies Guild.

by Town Club.

by Scout Troops.

Annual Christmas Treat for Children by Community.

by Local Firemen.

#### MUSICAL ORGANIZATIONS.

The Senior Band continued to be active and held regular rehearsals during the year.

- Summary: 35 rehearsals by Band.
  - 4 local engagements 1 concert.
  - 1 out-of-town engagement.
  - 11 rehearsals by orchestra.
  - 10 rehearsals by groups for plays.
  - l music recital.

### LIBRARY AND READING ROOM.

During the period from January first to May first the CWA unit placed a librarian in the building and all books were re-checked and put in good con-Many books were in such bad condition that it was impossible to repair

23.

# g. GWINN ASSOCIATION (Continued)

# Library and Reading Room (Continued)

them and they were discarded.

The reading room was very popular during the year both for the reading of the daily papers and magazines. As the magazines were subscribed for during 1933 for a two-year period there was no change in the number new received.

Number of books loane	from libra	ry during year	1470
Weekly magazines	4	Daily Newspapers	2
Monthly magazines	18	Weekly Newspapers	2

#### Cribbage League.

During January 1934 a Cribbage League was organized and match games were held once per week over a ten week period. Six teams with six members to a team entered the league and at the conclusion of play at the end of the schedule a banquet was given the winning team. This league is composed of all adults.

The league for 1934-1935 was organized in December and play will be over a 15 week period with four teams and ten men to a team.

# Bowling Leagues.

The Senior Men's League was composed of six teams of three men to a team and each team completed a schedule of 60 games.

The Women's League consisted of three teams of three members to a team and they completed a schedule of 45 games.

During the day when the alleys were not being used by the adults, High School students in the Junior and Senior classes were given instruction in bowling as part of their work in physical education.

The bowling alleys were given much attention in the way of repair during November and are now in better shape than they whave been for several years. The room was also re-decorated throughout.

#### Physical and Athletic Department.

This includes all work done in the gymnasium and all outdoor recreations, such as: supervising work at school playgrounds, baseball leagues for adults, Junior boys and girls; also the management of the City baseball and basketball teams; ice-skating rink, tennis court, horse-shoe courts, and supervision of Bass Lake Camp.

Employees of the Association continue to supervise all athletic work for the local High School-teams and class work, and furnish most of the equipment

23.

# g. GWINN ASSOCIATION (Continued)

# Physical and Athletic Department . (Continued

for carrying on this work as well as providing equipment for all summer recreations.

The Senior men continue to make use of the gym for volleyball, handball and miscellaneous games. The women's class meets twice weekly under Association supervision.

(Supervised Work)		
Gymnas ium	Per iods	Attendance
High School Girls' Classes	125	2922
High School Boys' Classes	129	3060
High School Basketball practice	71	748
Junior Boys Recreation (Saturday A.M.)	14	600
Senior men using gym	68	562
Women's Classes	28	272
Swimming pool (Not operated) Total gym class work not including		
basketball games	435	8164
(Supervised Work)		
at school playgrounds.		1000
High School Girls' Classes	39 43	1067
High School Boys' Classes	43	1298

The following basketball games were played under Association supervision:
High School team: 7 games at home; 11 away.
(High team were Class "C" Champions of the Upper Peninsula)
Club Team: 4 games at home; 7 away.
Junior League teams (including tournament) 59 games
Senior League (practice sessions) 6 teams
High School Girls' tournament open to public 2 games.

Attendance at all home games including practice periods . . . 6475.

#### Tennis Court and Playground.

The term is court was in condition for play 84 days during the season. Attendance at court 835; playground 1725. . . . . . Total 1660.

## Ice Skating Rink.

#### Base-Ball.

The Inter-County Baseball league composed of teams in Marquette and

23.

# g. GWINN ASSOCIATION (Continued)

#### Base-Ball.

Alger Counties was again organized under the Association. The league was made up of ten teams and the race was close. The Gwimn Team finished in second place and played good ball the entire season.

Base-ball was very popular the past summer. A Four-Team league was organized and games played three evenings a week. This league was composed of adults. A junior league was also operated - games being played three afternoons a week. There was very little "Kitten" or "Playground" ball played except by the girls, and a league under the Association supervision was in progress most of the summer.

The senior High School boys entered baseball competition this year with Negaunee and Ishpeming High Schools and the local boys won the district championship.

Summary: High School team 2 games at home 3 away
Club Team 8 games at home 10 away
Senior Twilight League 22 games.
Junior League 22 games.
Girls' League 14 games.
Attendance at all home games and practice sessions . . . 8420.

#### Bass Lake Camp.

As in the previous year, there were very few requests for the use of the cottage at the Lake, but the attendance at the camp on Sundays was about the same as other years. No doubt the falling off in the use of the cottage is due to the fact that many who used the camp in other years, now have camps of their own.

Summary: 7 all-day picnics by organizations.

- 1 party used camp for day during winter.
- 80 basket picnics by families.
  - 9 evening parties in camp.
- 2 parties had camp one week.
- 3 parties had camp 4 days each.
- 3 parties had camp 2 days each.
- 22 Scouts had use of camp one week.
- Estimated attendance at grounds during season . . . . . 1600.

Many outside people - residents of Marquette, Ishpeming, Negaunee and Escanabam use the lake for fishing. They bring their own boats on trailers and the fishing the past few years has been above average. Bass as large as six and one-half pounds being caught the past season.

#### Scout Activities.

During the year it was necessary to change supervision of the Scout troops. The retiring Scout captain had been in charge of the Scouts since

23.

# g. GWINN ASSOCIATION (Continued)

## Scout Activities (Continued)

the organization in 1920. However, a trained leader has been secured and the Scout work continues to be one of the features on the Association program. Both troops continue to meet weekly. Troop No. 1 has 32 members registered with the National Council and the other troop of smaller girls has 20.

The following summary covers the work of both troops:

Meetings for class and social parties
Attendance

88 1681

- 18 lunches or suppers were held; this includes lunches after meetings indoors or after hikes outdoors, such as pot lunk suppers, watermelon feeds, etc., .
- 10 social parties indoors.
- 2 all-day pienics
- 8 hiles.
- 1 masquerade party.
- 1 valentine party.
- 1 entertainment for mothers.
- 2 Christmas parties.
- 1 invitation dance party.
- 1 annual ceremonial.

Funds for Scout activities are raised locally by the Scout members in various ways.

Scout members received 50 merit, 14 tenderfoot and 7 attendance badges during the year from the National Council. During Scout Week the Scouts presented a program at school and on Sunday attended church in a body, and also during the year they assisted at the Memorial Day celebration and sang carols at the Community Christmas treat for the children.

#### Building.

During the year an effort was made to re-decorate the interior of the building and the entire building, except the locker and shower rooms and the living quarters of the superintendent, received attention. The building now presents a fine appearance and those in charge are hoping to complete the work within the next few months. The work was done by the regular employees, no extra help being employed.

Part of the building is now being used as a kindergarten for the local schools. This arrangement will be an advantage to all parties concerned.

The Cleveland-Cliffs Iron Company continue to assist in a financial way and the Cliffs Power & Light Company continue to give free service. Those in charge appreciate the assistance from the above organizations.

#### ANNUAL REPORT YEAR 1934 PENSION DEPT.

23.

h. ISHPEMING Y.M.C.A.

The year at the "Y" has been a good one in spite of the general poor conditions. It was impossible to make a financial canvass for funds but the people employed at the building have made the very best use of the funds available.

Mr. Louis Smith has acted as Secretary and has done good work.

The "Y" camp at hose Like was conducted during the summer with a number of very successful periods of ten days each.

The officers are as follows:

C. J. Stakel Sam Cohodas R. J. Chemeour Judge Wm. St. John Treasurer.

President Vice-President Secretary

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

Mr. Carl Brewer

Mr. William Conibear,

Mr. W. H. Moulton, Secretary.

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

23.

#### j. HOSPITALS AND MEDICAL SERVICE.

Throughout the year this Department has kept in touch with the hospitals in Ishpemin 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. D. R. MacIntyre

Dr. W. A. Mudge

Miss Hildur Swamson, Superintendent.

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

23.

# j. Hospitals (Continued)

# ISHPEMING HOSPITAL STATISTICAL REPORT FOR THE YEAR 1934.

and the property of the proper		20
Number of patients remaining in Hospital at beginning	or year	20
Number of adult patients admitted	696	
Number of child patients admitted	88	
Number of bitths	84	
Total new patients for the year		868
Total of all patients for the year		888
Total of all parients for the year.		505
Number of deaths	50	
Number discharged during year	808	
Total number leaving Hospital	- 0.4	858
		100
Number of patients remaining at end of year, Dec. 31,	1934	30
Classification of New Cases:		
Surgical	520	
Medical	181	
Obstetrical	83	
New Born	84	
Total		868
Number of operations		410
Number of emergency room operations		57
Number of patient days		10556
		***************************************
Number of meals for patients	31671	
Number of meals for nurses, superintendent, & Distition	an 15731	
Number of meals for physicians and guests	193	
Number of meals for help	4891	
Total number of meals		52486

# 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

23.

## j. HOSPITALS (Continued)

#### NEGAUNEE HOSPITAL.

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

The work in Negaunee 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 Negaunes and Palmer is in charge of the medical service for the district and has an assistant, Dr. P. N. Wharton, living and having his office in Gwinn.

#### IRON RIVER.

The new hospital has now had three years of service and it has been very satisfactory in all respects. This is covered by the report of Mr. Meyers.

#### PAYMENTS TO PHYSICIANS.

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.

23.

## j. MEDICAL SERVICES (Continued)

#### PHYSICAL EXAMINATION OF EMPLOYEES.

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

The first examination was made on November 28, 1933. At the beginning the examinations were for the men of our Company and those of the Inland Steel Company. Later in the year the employees of the Volunteer Mine of the Pickands Mather & Company, and the Richmond Mine of the M.A. Hanna Company, were examined. Just before the close of the year the Republic Steel Company decided to have their men examined and work for them was begun on December 21st and will be completed early in January.

The following examinations had been made on December 31, 1934:

Cleveland-Cliffs Iron Co.,	1048
Cliffs Power & Light Co.,	3
Negaunee Mine	246
Athens Mine	201
Inland Steel Co.,	292
Pickands Mather & Co.,	42
M. A. Harma Co.,	29
Republic Steel Co.,	56
	1917

During this period a number of men have been sent back for re-examinations because of some special defect or for the remedy of some existing conditions.

53 such re-examinations are included in the total of examinations made.

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.

Mr. Richard F. Libby from Saranac has looked after the X-ray work and the interpretation of the X-ray films. Desiring a month's vacation, his place was filled by Joseph Goldstein, from Saranac. Their work has been of a very high standard.

The films of each case are sent to Saranac where they are studied by Dr. Samsom, 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 of examination.

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

23.

# j. MEDICAL SERVICE (Continued)

PHYSICAL EXAMINATION OF EMPLOYEES (Continued)
At the end of January 1935 the original examinations will have been completed and for the year 1935 the only examinations to be made will be those of any new men and any who should be again looked over.

23.

# k. HEALTH.

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

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

Is homing - Dr. G. G. Barnett
Negaunee - Dr. W. A. Mudge
Marquette - Dr. T. R. Laughbaum.

Just before the close of the year Dr. Laughbaum, of Marquette, resigned to go elsewhere and Dr. F. McD. Harkin was appointed in his place.

#### 1. Red Cross.

The following officers were elected on October 30th, 1934:

Chairman: T. M. Redmond.

Vice-Chairmen:

Marquette E. L. Pearce

Miss Elba L. Morse.

Ne ga une e

G. Sherman Collins Michael F. De Fant

Is hoeming

R. J. Chenneour G. R. Jackson

Secretary Treasurer John Walsh Edward S. Bice.

Directors for three years.

Walter F. Gries Marque tte
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 Negaunce
George Quinnell Marquette
Miss Stella Fuller Morgan Heights
C. J. Stakel North Lake

Directors for one year.

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

23.

1. RED CROSS (Continued)

During the year the Red Cross has been of great service to the families of Marquette County, and this has included many in Ishpeming, Negaunee, Gwinn and Republic.

Mr. Walter Gries has continued as Chairman of the Nursing Activities Committee of the Chapter. 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.

23.

# 1. RED CROSS (Continued)

Report of Nurse Marquette County Chapter American Red Cross.

School Examinations.	
Number of schools in county	39
Number of schools examined	39
Number of children	2892
Number of children found with defects:	
Eyes	61
Teeth	1975
Tonsils	87
Skin	18
Orthopedic	12
	21 54
Number of Corrections made by Parents;	
Eyes	11
Tee th	69
Tonsi ls	_5
	85
Children immunized against Dightheria	277
Number of days spent at Clinics:	
Mental	1
Chest	1 4
Speech Defect	_1
	4
Number of Children taken to	
Hospitals and Schools:	
Orthopedic cases to Ann Argor	17
Orthopedic cases to Detroit	6
School for the Deaf - Flint	7 3
School for the Blind - Lensing	3
Michigan Children's Clinic - Marquette	<u>32</u> 65
Investigations Made:	
National Red Cross	1
Board of Health - Chicago	11
Board of Health - Grand Rapids	1
Cleveland Associated Charities	4
County Poor Commission	92
Home Calls	477
To tal	576

23

# 1. RED CROSS (Continued)

# Report of Nurse (Continued)

Mee	tings attended:	
	District Nurses' Meeting	6
	Marquette Clinic with Miss Morse	
	and C. W. A. nurses	4
	Red Cross meeting	1
	Nurses Convention	1
	Home Hygiene & Care of the Sick-	
	regular summer program	2
	Advisory Meeting with Mr. Gries	
	regarding summer dental program	3
	Achievement Day at Marquette,	
	assisting Dr. Bottum	1

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.

	Ishpeming	Nega une e	Republic	Gwinn	Total
January	231.79	210.66	32.51		474.96
Bebruar y	219.37	150.67	8.78	22.14	400.96
March	304.09	201.13	37.12	11.36	553.70
April	309.68	163.48	28.59	11.27	513.02
May	222.95	159.17	17. 80	11.26	411.18
June	322.86	141.59	10.70	11.21	486.36
July	289.37	224.12	17.94	11.19	542.62
August	300.03	198.72	128.14	11.33	638.22
September	275.70	293.96	26.05	11.57	607.28
October	345.01	269.82	17.95	11.33	644.09
November	374.05	265.69	8.44	26.64	674.82
December	433.58	289.94	48.73	20.44	792.69
Total	\$3628.48	2568.95	382.73	159.74	6739.90
No. of fami	llies				
255	is ted 40	24	3	2	69
Average and	unt of relie:	f per famil;	y		\$ 97.68

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.

23.

#### c. INCAPACITATED EMPLOYEES.

During the year payments have continued to certain men whose years of service to 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:

<u>10</u>	NATIONS TO	INCAPACITATED EMPLOYEES.	
	Monthly	Total Amount	
1	Rate for	paid during	
	Yr. 1934	1934.	
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 Andrews	16.00	192.00	
Andrew Niemi	16.60	199.20	
Edmond 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 Detoms	18.00	216.00	
Edwin J. Goodman	20.00	240.00	
Henry Maki	20.00	240.00	
Donato Valenzio	20.00	240.00	
William Anderson	20.00	240.00	
Fred Carlson	16.00	192.00	
Napoleon Mayrend	17.66	123.62	Died July 20, 1934.
		& 3668.49	

\$ 3668.42

#### 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

23.

#### c. INCAPACITATED EMPLOYEES (Continued)

#### DONATIONS TO WIDOWS .

	Monthly Rate for Year 1934	Amount paid during 1934.
Mrs. John Makela Mrs. Rose Bertuci Mrs. Wilhelmina Marjamaa Mrs. Henry Karkkainen Mrs. Matilda Carlson Gust Myllimaki Estate	20.00 12.00 12.00 12.00 12.00	240.00 144.00 144.00 144.00 12.00 Discontinued Jan. 31, 1934.
Mrs. Kate Tuomela	16.00	112.00 Died July 5, 1934. \$ 940.00

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 commidities 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, 1933.

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

June	1913	8 -	\$ 692.56
June	1914		706.17
June	1917		1006.79
June	1920		14 08 . 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

The Governments reports show that the index number for the cost of living in October 1934, as compared with 1914, is 130.49. This compares with 125.81 for October 1933.

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

Our index figure for the cost of living as compared with 1914 is 113.57, and 107.65 for 1933, as compared with 1914.

The value of \$1.00 as compared with 1914 by the U. S. tables in October 1934 was 76.6 cents. Our value in living costs in Ishpeming for December 1934 was 88.0 cents.

#### q. IMPROVEMENT WORK.

We were without the services of Mr. Warren H. Manning and Mr. Julien Payen throughout the year.

The work at the different locations and mines was looked after by the superintendents and kept up to regular standards so far as possible.

23.

r. PRIZE PREMISES.

No prizes were offered for the season of 1934, but the people continued to have an interest in keeping their properties in good condition and the homes of our people showed the usual excellence.

s. COMMUNITY SERVICE WORK.

The Legion building and the Y.M.C.A. at Ishpeming are serving the community as a meeting place for civic activities, outside of those using the High School auditorium and gymnasium.

The Legion building in Negaunee, opened in 1927, has been of continuous service to the city.

t. CLUBS.

On account of the men working on short time, no club meetings were held during the year.

u. OUT DOOR SPORTS.

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

This was conducted in an economic manner and without any considerable cost to any one. It was a very successful tournament and the records are continually being bettered as the hill is improved. Paul Bietila, 14 years old, has become National Boy Champion.

During the summer a large number of teams played kitten ball on different grounds around the city. The people attended in large numbers and it was one of the best things that culd have taken place in the city during this time when the men were employed only part time.

23.

#### w. Various Departments.

Throughout the year we have cooperated with the different Departments principally in connection with accident cases and Workmen's Compensation.

We have visited the camps of the Land Department, and assisted Mr. Clancey in preparing cases for hearings before the Deputy Commissioner.

The Welfare and Compensation statements of the different Departments will be found on the following sheets.

23.

w. VARIOUS DEPARTMENTS (Continued)

## LAKE SUPERIOR & ISHPEMING RAILROAD CO.

# COMPARATIVE STATEMENT OF GENERAL WELFARE EXPENSE.

## FOR THE YEARS 1930 to 1934 INCLUSIVE.

	1931	1932	1933	1934.	
Donations:			102		
Fire Department	35.00	30.00	25.00	25.00	
Ishpeming Y.M.C.A.	200.00				
Visiting Nurse-Marquette	120.00	120.00	120.00	120.00	
St/ Luke's Hospital	400.00	400.00	400.00	400.00	
To Employees' & Families	4500000	200.00	203.40	20.00	
Pensions	1165.34	2207.88	2207.88	3479.28	-
	\$1920.34	2957.88	2956.28	4044.28	
Compen sa tion:					
Compensation Paid	2308.00	3249.20	2548.30	2938.18	
Medical Expense	693.21	305.81	763.05	251.94	
Percentage of Pay-rolls					
Acct. Comp. Payments	.0027	.0096	.0049	.0052	

# PIONEER IRON COMPANY FURNACE DEPT. COMPARATIVE STATEMENT OF GENERAL WELFARE EXPENSE YEARS 1931, 1932, 1933 and 1934.

		1931	1932	1933	1934	
	ral Welfare Acct. No. 11.		.'			
A-2	Prop. Charged by Treas.	771.85	438.88	444.61	550.00	
В	Prizes to tenants					
	Flowers - Deceased Employees Marquette Kittenball League	22.00	5.00		94.10	
Dona	tions:					
	Americal Legion	12.00		5.00	5.00	
	Fire Department	10.00	5.00	5.00	5.00	
	Persons	673.00	681.00	637.34	822.78 *	
	B. of R. T. (Railroad Trainmen)	200	5.00	5.00	5.00	
	Community Chest	375.00	281.25	131.25	118.75	
	Nurse Expense - Deceased Employee				45.75	
Inst	itutions.					
	St. Luke's Hospital	400.00	100.00			
	Tubercular Stamps	10.00	10.00	5.00		
Pens	ions Paid	5531.30	3327.09	2528.04	2309.43	
	Total	7805.15	4848.22	3761.24	3955.81	
Safe	ty Work.					
	Charges for work and equipment	41.18	53.04	92.77	143.69	
Compe	msation.					
	Medical and Hospital Expense	1664.37	1938.61	2592.92	2359.18	
	Compensation Paid	1795.54	1209.16	28 92.70	4469.08	
Compe	nsation Payments -					
Perce	mtage of Payrolls					
	ette Plant	.008992	,0093413	.0148822	.0155543	

\* Detail of donations - persons.

				1934
Mrs.	George	Cameron		240.00
**	11	11	(wood)	42.78
Juli	us 01so	a		300.00
Pats	y DePet	ro		240.00
				\$ 822.78

23.

# w. VARIOUS DEPARTMENTS (Continued)

# LAND DEPARTMENT

# COMPARATIVE STATEMENT OF GENERAL WELFARE EXPENSE

# FOR THE YEARS 1931 to 1934, INCLUSIVE.

General Welfare Acct. No. 11.	1931	1932	1933	1934
A-2 Prop. Charged by Treas.	821.38	318.08	323.01	540.50
11-F Miscellaneous Expense	810.96	523.47	246.51	240.00
11-1 WISCOLLEGE BYLOUGE	1632.34	841.55	569.52	780.50
Donations:	1404101	011100	00000	100.00
Negaunee Fire Department	10.00	10.00		
Munising Fire Department	10.00	10.00	10.00	10.00
U.P. Development Bureau	750.00	500.00	500.00	500.00
Sacred Heart Church - Munising	12.31			
B. of R.T No. 612, Marquette	10.00			
Christmas Presents to school				
children- Logging Operations		25.00	28.18	22.23
Compensation:				
a. Funeral Expense				
d. Legal Expense				
g. Medical expense				
h. Compensation	99.00			
i. Monthly Payments to doctors Percentage of Payrolls	99.50	82.50	86.00	95.50
Actual Compensation Payments	.00146	-	•	•
Safety Work - Logging Operations.				
Supplies	129.09		23.27	14.56
Compensation - Logging Operations.				
Medical & Hospital	6798.12	3106.16	4103.12	5147.41
Compensation Payments	6882.28	53 94 . 33	5620.88	4660.84
Compensation Insurance Premium			7116.76	4916.77
Percentage of Pay-roll	.07166	.06475	.0891	.04987
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