Electrical Department: (Cont'd)				
	INSTALLED			CONNECTED
	TO JAN. 1			JAN. 1,1937
	1936	IN 1936	IN 1936	TOTALS
brt. fwd.	5,748-1/4	407	370	5,785-1/4 HP.
HARD ORE SHOPS:				
Machine Shop	25			
Carpenter Shop	45			
Blacksmith Shop unch	25 3 2			
Armature Banding Machine	1/2			
	1/8			
Lathe Grinder	1 70			
Portable Drill - small (Stanley)				
" - large	1/4 1/4			
Commutator Slotter	1/8			
Water Supply Pump	1/8 7-1/2			
Blacksmith Shop Blower	1/4			
Hacksaw	1/2 1/4			
Small Grinder	1/4			
Portable Drill (Stanley)				
Carpenter Shop Saw	25			
Water Pump (S.R. Elliott)	2			
Motor-Generator Set	15			
Air Compressor	60			
Hard Ore Office Stoker	1/4			
Portable Welder - Blacksmith Shop	30		30	
(1) 이번 10 전에 있는데 이번 경기를 받았다면 하네 나는데 이번 스타이 아름다면 되었다.	20		20	
Bandsaw Crane (correction)	5 5		3	
Shop Stoker	an Mark	1		
Welder		35		
Punch Press		10		
- which 11000	Services 1997			222
ISHPEMING HOSPITAL:				
Passenger Elevator	7-1/2			
Dumb Waiter	3			
Large Washer	2			
Small Washer	1 2			
Extractor	2			
Vacuum Cleaner	3			
Water Supply Pump	IX-lia;	7		
X-Ray Machine	1/4			
Hot Water Circulating Pump	1/2			
" " Return - high pressure	5			
" " - low "	1-1/2			
Vacuum Pump	5		19	
Refrigerator		<u>1-1</u>	14	31-1/4
MIT DIN MIND.				01-1/4
TILDEN MINE:	150			
Compressor	275			
Centrifugal Pump Scraper on Coal Dock	15			
#29 Shovel - Motor-Generator Set	110			
" - Air Compressor	4-1/2			
" " - Oil Pump	1/4			
" " - Trip Motor	2			
" - Exciter Motor	10			
Cyclone Drill	10			
" Drills - 4 - 15 HP.	60			
		""		
fwd.	6,007	454-1/	2 423	6,038-1/2 HP.

		INSTALLED TO JAN. 1	INSTALLED	TAKEN OUT	CONNECTED JAN. 1,1937
		1936	IN 1936	IN 1936	TOTALS
brt.	fwd.	6,007	454-1/2		6,038-1/2 HP.
TILDEN MINE:	11	636-3/			2,000 2,000
Car Dumper		30			
Large Crusher		250			
Car Puller		10			
Sample Crusher		3			
Belt Conveyor		50			
Secondary Crushers 2 - 100 HP.		200			
Small Hoist over Crusher		3			
#31 Shovel - Motor Generator Set		110			
" Exciter Motor		7-1/2	3		
" Trip "		1-1/			
" " Air Compressor		5-3/4			
Drill Sharpener		15			
Pump for Drills		10			
Synchronous Condenser from P.C.P.	Plant	625			
Shop Motor		5			
" " #8		3			
Armstrong Drill		15			
Blower Fan		1/2	3		
Fan in Crusher Bldg.		1/3			
Centrifugal Pump in Compressor Pi	lt	2			
Booster Pump		125			
Pump for Summit Pit		50			
Emery Wheel		1/4			
Marion Shovel- M. G. Set			85		
Drill Sharpener 9"			15		
Armstrong Drill 9"			20		
Blower			1-1/2		
D.Drill Pump			20		
					2,300
ATHENS MINE:					
Cage Hoist		400			
Nordberg Compressor		325			
Compressor Cooling Water Pump		3			
Auxiliary Compressor for Hoist Br	rakes	5			
Underground Ventilating Fan #1		15			
Skip Hoist Set		850			
" " " Oil Pump		1	31		
Shop		10			
Underground Haulage Converter		150			
Skip Pit Pump		2			
	400 HP.	800			
Ore Tram 2 -	50 HP.	100			
Carpenter Shop		20			
Ore Crusher		25			
Underground Ventilating Fan #2		50			
Ingersoll-Rand Compressor		450	The second second		
Rock Tram		50	1		
Underground Haulage Converter #2		150			
Saw Gumming Machine		1/4	1		
Nordberg Compressor Oil Pump		1/1			
Breitung Shaft Pump		25			
negrature arms - omb					3.431-3/4
	fwd.	11,597-1/	4 596	423	11,770-1/4 HP.

MECHANICAL DEPARTMENT ANNUAL REPORT

	YEAR	1936		
lectrical Department:	(Cont'd)			
		INSTALLED		CONNECTED
		TO JAN. 1,	INSTALLED TAKEN OUT	JAN. 1,1937
		1936	IN 1936 IN 1936	TOTALS
	fwd.	11,597-1/4	596 423	11,770-1/4 HP
AAS MINE:				
	(Circulating Pump	40		
Turbine Auxiliaries		25		
	(Exciter	35		
Underground Haulage	. 프레이스 1914년 11일 전 10일 전 1	215		
Shop		10		
3rd Level Centrifuga	1 Pump	350		
" " Plunger Pu		500		
Ore Tram	2 - 50 HP. motors	100		
Coal Crushing Plant		15		
3rd level Plunger Pu	mp #2	250		
	essors - 2 - 400 HP.	800		
Skip Hoist		700		
Cage "		400		
Skip Hoist Rheostat	Primo	3		
Carpenter Shop Saw		15		
Auxiliary Compressor	for Hoist Brakes	7-1/2		
Cooling Water Pump	TOT HOLDS PLEATED	5		
Saw Gumming Outfit i	n Companter Shen	2		
	Set #2 (from Neg.Mine)	215		
	mp (2 Boeing Mine	400		
3rd " Centrifuga		50		
	Pa zamo a			
5th " Prescott P	lunger Pump (from Lake M			
				4,435-1/2
EGAUNEE MINE: Underground Haulage	Set #1	300		
"Ilgner" Hoist Set		450		
Ore Tram	2- 50 HP.	100		
4. WHAT CONTROL OF THE CONTROL OF T	b. Bldg. (from Athens)	5		
Auxiliary Compressor		3		
10th level Plunger P		600		
" " Centrifug	할 생님이 가득하면 없는데 아버지의 아이라면서 보이지는 사람들이 없는데 하게 되었다. 아이들이 없는데 하나는 이번	350		
" Suction P		30		
Compressor Cooling W		3		
Nordberg Air Compres		325		
	801	15		
Shop Ore Crusher		25		
Ingersoll-Rand Compr	0000	400		
THE REPORT OF THE PROPERTY OF		15		
13th level Plunger P		150		
		40		
Exciters for 10th le	Generates Set	1/2		
Signal System Motor		25		
Timber Hoist - #2 Sh	ait			
Ventilating Fan "		150		
Gravel Hoist		15		
Saw in Carpenter Sho	P	15		
Skip Pit Pump		5		
Underground Haulage	Set #2	220		
Pump - Temporary		35		
New Flywheel Set for	r Hoists	800		
Oil Pump on #2 Flywh	neel Set	1		
	ll -	1		
	g Compressor	1 2		4.081-1/2 20,287-1/4 HP

	INSTALLED		CONNECTED
		INSTALLED TAKEN OUT	JAN. 1,1937
	1936	IN 1936 IN 1936	TOTALS
MAAS CRUSHING PLANT:	20,114-1/4	596 423	20,287-1/4 HP
Jaw Crusher	100		
Belt Conveyor	50		
Pan Conveyor Motor-Generator Set	50		
			200
LOYD MINE:			
Skip Hoist (from Republic)	500		
Cage_ "	400		
Top Tram	50		
Ore Crusher	25		
Water Supply Pump installed Underground	50		
Concrete Mixer	5		
Top Tram	50		
Compressor	100		
Had an arranged House on Commenters	225		
Underground Haulage Converter Timber Yard Saw	120 7-1/2		
Underground Haulage Converter (from Wade)	150		
Compressor Cooling Water Pump	3		
Compressor Cooring waver zump			1,685-1/2
ORRIS MINE:			
Ingersoll-Rand Compressor #2	500		
			500
ECTION 6 SHAFT:	•••		
Hoist Water Pump in Change House	200		
water rump in change house	e		202
WINN CRUSHING PLANT:			
Crusher	85		
Pan Conveyor	50		
Belt "	50		
Compressor	15		
Compressor Cooling Water Pump	3		907
PRANCIS MINE STOCKPILE:			203
Triplex Pump	7-1/2		
- Lipida Lump			7-1/2
FARDNER MINE:			
Hoist	400		
Top Tram	50		
Laboratory Crusher	3		453
ACKINAW MINE:			
Hoist	400		
Shop	7-1/2		
Ore Tram	50		
Underground Haulage Set	150		
Air Compressor	325		
Compressor Cooling Water Pump	7-1/2		
4th level Quintuplex Pump	350		
" " Triplex "	75	75	
5th " Pump - Automatic #1	30		
Winze Hoist	200		
4th level Centrifugal Pump	400		
6th " " - Automatic #2	20		
Grinder in Shop	3	95	
Loader used by Railo & Rytkonen		25	1,968

Electrical Department: (Cont'd)				
	INSTALLED			CONNECTED
	TO JAN. 1,	IN 1936	IN 1936	TOTALS
PRINCETON MINE #2:	25,383-1/4	621	498	25,506-1/4 HP.
Hoist	200			
Stockpile Loader	25		25	
				200
PRINCETON MINE #3:				
Hoist	75			
DETAINMENT CHANGE AT DAVISE DE AND.				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		30	
				100
NEW PUMP STATION at KIDDER SHAFT:				
Layne & Bowler Pump		75		
Automatic Pump		30		
Booster Pump at Austin		_10		
				115
CARP FLANT:				
Auxiliaries 2 - 15 HP. pump motors	30			
Water Supply Pump	1			
Air Compressor	5_			36
HOIST PLANT:				30
Exciter Motor-Generator Set	20			
Oil Pump	3			
Air Compressor	5			
Small Supply Hoist Motor (incline hoist)	3			
M. William of the				31
McCLURE PLANT: Water Supply Pump	2			
Exciter Motor-Generator Set	2 17-1/2			
Air Compressor	5			
				24-1/2
ESCANABA PLANT:				
Air Compressor	5 5			
Oil Pump	1		7	
Valve Operating Motor				11
TOTAL MINING DEPARTMENT				
and				
CLIFFS POWER & LIGHT CO.	26,128-3/4	736	553	26.311-3/4 HP.

Electrical Department (Cont'd)		
	INSTALLED	CONNECTED
	TO JAN. 1, INSTALLED TAKEN OUT	
	1936 In 1936 IN 1936	TOTALS
TOTAL MINING DEPARTMENT		
AND DAWN AND AND TOUR OF	20.200.74	04/4
CLIFFS POWER &?LIGHT CO.	26 m128-3/4 736 553	26,311-3/4 HP.
CLIFFS DOW CHEMICAL: Chemical Plant & Sawmill	1 105	
Chemical lant & Dawmii	1.195	1 105
L. S. & I. RR. CO.		1,195
Shops, Sawmill, Ore Dock & Pumps	800	
maps, beamatt, ore room a ramps		800
LAND DEPARTMENT:		
Grand Island 3 motors	<u>15</u> -1/2	
		15-1/2
LUMBERING DEPARTMENT:		
Location Water Supply Pump	5	
Tie Mill Saw	75	
" " Conveyors	37	
" " Shop	10	
		127
MICHIGAN GAS & ELECTRIC CO.		
Ishpeming	2,170	
Munising	250	
Munising City Pumping	125	
		2,545
REPUBLIC TOWNSHIP:		
Water Supply Fump	25	25
OLIVER IRON MINING CO.		40
Pumps at Angeline & Sec. 16 Mines	525	
Holmes Mine	2.552-1/2	
TOTHER WING	- 1 N	3.077-1/2
CITY OF ISHPEMING:		
Booster Pump at Brownstone	15	
Air Compressor for Tank	10	
		25
CITY OF NEGAUNEE:	435	435
C.P.&L.CO. RETAIL	100 Est.	
		100
PALMER MINING COMPANY:		
Volunteer Mine, Palmer	800	
		800
PIQUA MUNISING WOOD PRODUCTS CO., MUNISING	<u>695</u>	
NOTES DIVINE NATIONAL AND		695
NORTH RANGE MINING CO.	2.205	
Blueberry Mine	1.165	1 145
INLAND STEEL CO.		1,165
[18] (18] [18] (18] (18] (18] (18] (18] (18] (18] (450	
Greenwood Mine Morris Mine	3.360	
MOITIS MING	-0.000	3810
INLAND LIME & STONE CO.		
Quarry & Dock	4,000	
		4,000
MICHIGAN GOLD MINE	<u>150</u>	
		150
ROPES GOLD MINE	350	
		350
TOTAL OUTSIDE LOAD	19,315 0 0	19,315 HP.
		AE 600 7/4 mm
GRAND TOTAL CONNECTED LOAD	45,443-3/4 736 553	45,626-3/4 HP.

	INSTALLED			CONNECTED
				JAN. 1,1937
BA RANGE:	1936	IN 1936	IN 1936	TOTALS
NISTEO MINE:				
Printing Pump	3			
Shop Line Shaft	10			
Washing Plant Compressor	50			
Belt Conveyors 2 - 5 HP. motor				
	100 125	125		
Centrifugal Pumps 2 -125 " " Symons Crushers 2 100 " "	200	120		
Belt Conveyor	75			
Armstrong Drills 2 15 " "	30			
Centrifugal Pump	25			
Portable Drill	1/2			
Hacksaw	1/2			
Wood Planer				
Band Saw	5			
Circular Saw	3 5 5 5			
Shaper	3			
Portable Drill	1/8			
Clear Water Pumps 1 3 HP. moto			3	
Motor-Generator Sets on Shovel No's 32 & 2		250		
Exciter Sets " " " "				
Dipper Trips " " "				
Fan	6			
Heater Motors 5 - 1/2 HP. mot				
" Motor	1/4			
" Motors 8 - 1/8 " "	1			
Bolt & Pipe Machine	5			
Machine Shop Planer	10			
Boring Machine	15			
Pressure Pump in Boiler House	30			
Shop Air Compressor	50			
Portable Grinder	1			
Bench Grinders	1			
Blacksmith Shop Forge	1/4			
Electric Welder	15			
Punch & Shear Machine	5			
Small Pump	3			
Portable Saw	15 5 5 3 7-1/2			
Blacksmith Shop Bit Sharpener	10			
Roll Motor in Laboratory	5			
Pulverizer " "	Contract of the Contract of th			
Fan " "	1/8			
Heater " "	1/8			
Fan " "	1/8			
Ventrifugal Pump	125			
Motor-Generator Set - Washing Plant	225			
Battery Charger	5			
AlliesChalmers Screen	15	5		
Electric Welder	15 3			
Priming Pump	15			
Armstrong Drill	1/2			
Ro-Tap In Laboratory Centrifusal Pump (from Holman)	125			
Centrifugal Pump (from Holman)	140			

	INSTALLED	CONNECTED
	TO JAN. 1, INSTAL	LED TAKEN OUT JAN. 1,1937
ANTEGERRA MENTE (A)	1936 IN 193	
ANISTEO MINE: (Cont'd) brt. fwd.	1,878-1/2 130	3
Portable Drill	1/2	
Layne & Bowler Pump (from Holman)	350	350
Dorr Classifiers - from Holman - 2-10 HP.	20	
Picking Belts - " - 2 5 HP.	10	
Armstrong Drill - " "	15	
Hummer Screen - " "	5	5
Portable Grinder - " "	5 1 5	
Shop Door Hoist - " "	[1] [1] [2] [2] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	
Shop Heater - " "	1/4	
Air Comp. in Lab. " "	1-1/2	
Exhaust Fan		1/2 1/2
Blacksmith Forge Fan		1/2
Pit Pump		0
	1:	25
4'x6' Screen		5
Lake Feed Pump		.0
4'x6' Screen		2 2
Clear Water Pump		7-1/2
4'x6' Screen		2 2
5'x14' "		.0
Drive under Cutting Tool		_ 1/4
		2,237
OLMAN-CLIFFS MINE:		
Bench Grinder	1/4	
Belt Conveyor	75	
Symons Crushers 2 - 100 HP. motors	200	
Jaw Crusher	100	7.50
Air Compressor	50	
Screen	25	
Machine Shop	30	
Exhaust Fan	1/2	1/2
Centrifugal Pump	275	
Blacksmith Forge Fan - from Drew Mine	1/2	1/2
Motor-Generator Set	225	
Clear Water Pump - Washing Plant	3	
Bench Grinder	1/4	
Shop Heater	1-1/4	
" Heaters 10 - 1/8 HP. motors	1-1/4	
Roll Motor in Laboratory	3	
AND	AND THE RESIDENCE OF THE PARTY	

fwd.

3,277-3/4 512-3/4 363-1/2 3,227-1/2 HP.

Electrical Department:	(Cont'd)			100	
		INSTALLED			CONNECTED
		TO JAN. 1,	INSTALLED	TAKEN OUT	JAN. 1,1937
		1936		IN 1936	TOTALS
	brt. fwd.	3,277-3/4	312-3/4	363	3,227-1/2 HP.
HILL-THUMBULL MINE:					
Log Washer		50			
		40			
Belt Conveyors	4 - 5 HP. motors	20			
Crusher		100			
Sample Crusher		10			
Prescott Pluner Pump		125			
Centrifugal Pump Shops		150			
Punch & Shear Machine	du Chan	30			
Band Saw in Carpenter		5 5			
Compressor in Shop	, purp	50			
Screen		20			
Conveyor		100			32,000,000,000
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 Laborat	ory Rools	3 -/ -			
Picking Belt		5			
Car Puller		7-1/2			
Portable Grinder		1			
North Pit Pump		30			
Air Compressor at Was	hing Plant	25			
Churn Drill		10			
Boiler Feed Pump		5 2			
Chip Screens		2		2	
Layne & Bowler Pump		125			
Tool Post Grinder		1/4			
Armstrong Drill (fr	om Drew Mine)	15			
Rack Drives on Classi	fiers 2 - 10 HP. motors	20			
Hummer Screen		2			
fulverizer in Laborat	ory				
Fan " "		1/8			
Symons Crushers	2 - 100 HP. motors	200			
Bench Grinder		1/2			
Motor-Generator Set o		250			
Exciter	" " "	20			
Dipper Trip	" " "	2			
Fan		9			
Fan for Blacksmith Sh	op	5			
Clear Water Pump		20 2 3 5 5 5			
Flue Machine	Pa	1/2			
Bench Grinder at Wash		85			
Centrifugal Pump at W	SHITTE TAME		30_		
Pit Pump			C. PHILIPPIN		1.631-1/2
	TOTAL MESABA RANGE	4,881-1/4	342-3/4	365	4,859 HP.

Electrical Department: (Cont'd)	Installed			CONNECTED
	TO JAN. 1.	INSTALLED	TAKEN OUT	JAN. 1,1937
	1936	IN 1936	IN 1936	TOTALS
SPIES-VIRGIL MINE:				
Underground Triplex Pump	50			
Crusher	50			
Air Compressor	403			
Compressor Cooling Water Pump	3			
Hoist	400			
Boiler Feed Pump	2			
Circular Saw in Carpenter Shop	25			
Shop	5			
Compressor Cooling Water Pump	3			
	- 150 HP. 300			
Underground Haulage Converter	150			
Sump Pump	2			
Auxiliary Compressor for Hoist Brake	s 5			
		1	OTAL	1.398

Electrical Department: (Cont'd)

The following A.C. motors are on hand, (Dec. 31, 1936) but are not installed:

LIFFS SHAFT MINE:	
Top Tram (stator only)	50 HP.
Spare Top Tram	50
Small Conveyor Motor	2
Scraper Motors 5 - 25 HP.	125
Scraper Motor	15
Top Tram Motor from Republic	50
Magnetic Separator	3
Screen	10
	305 HF
ENERAL STOREHOUSE & BARN:	
Spare from Republic concrete mixer (needs repairs)	5
" General Electric pump	50
" from Hard Ore #3 plunger pump	35
" for centrifugal pump used at North Lake	200
movoz (modes roperrs)	40
Pump motor from Republic Mine (needs repairs)	10
2 - 500 HP. hoist motors from Cliffs Shaft Mine	1,000
Hoist stator only " " "	500
Feeder Belt " " "	5
Conveyor Belt " " "	20
Concrete mixer from Au Train	7-1/2
Leach concrete mixer	10
Carpenter Shop from Republic Mine	20
Undg. Hoist " " "	50
" " Mas "	50
Cyclone Drill " Tilden "	10
0,010110 21111	100
	50
" Republic Mine (needs repairs)	
그리고 있는 경영하는 사용을 하면 내 수 없는 것이 없는 것이다.	7-1/2
bolodi #5 shale	25
orugiter.	100
OUAL TIGHT	7-1/2
Pump from 3rd level " "	50
Screen from crusher " "	10
- comp	35
Pump from Mackinaw Mine	20
Spare for small compressors (in for repairs)	5
Pump motor from Cliffs Shaft change house	2
Prescott pump motor from Maas Mine	325
Pump motor from Morris Mine	50
	40
Gwinn Crushing Plant conveyor motor	40
Sinking hoise from Wade Mine	35
Top Tram " " "	50
Sump pump " " "	7-1/2
Blacksmith Shop fan"" "	3
Air compressor " "	150
Clear water pump " "	15
Triplex pump from " "	50
TIPLEX Pump IIOm	100
rump motor	150
Undg. Haulage Set from Morris Mine	
Cooling water pump " Wade "	2
Sump pump from Negaunee Mine (needs repairs)	5
Allis-Chalmers 3-K-2164.1 from Armour Mine	5
Hoist " " "	150
fwd	
fwd	

	brt. f	1700	305 H
GENERAL STOREHOUSE & BARN: (Cont'd)	brt. f	wd. 3,602	
Hoist from Armour Mine		250	
Centrifugal pump " " "		150	
		200	
		35	
Blacksmith Shop blower (CSS.Lab.)			1/2
Centrifugal pump		5	-/
Skip hoist motor from Llbyd Mine		400	
" " Barnes-Hecker Mine		400	
Nordberg compressor at Lake Mine Engine House		325	
Compressor motor		50	
" " from Shop		10	
Top tram from Lloyd Mine		40	
Top tram		50	
Cliffs Shaft tram		100	
Lloyd tram		40	
10 PM 10 WINDOWN BOOK AND BUILDING WINDOWN WIND BUILDING AND A COLOR OF STREET AND A COLOR OF A COLOR OF A COLOR		2	
Sump pump		2	
그들이 하는 경우 가고 있는 경우에는 얼마나 보고 있다면 생각하는 것이 없는데 보고 있다면 하는데 하는데 하는데 그리고 있다.	`	50	
Top tram for Lloyd Mine			5,711-1
TON PURETNIC TIACOTEMAT .			2,111-1
ISHPEMING HOSPITAL:			
Spare for dumb waiter		3 5	
" hot water return			8
AMILIANO METATRA			•
ATHENS MINE:		E 0	
Pump motor		50	50
MAAS MINE:			50
		15	
Winze pump		50	
Pump from Morris Mine		75	
Hoist motor from Stephenson Mine			
Rheostat pump		£	
Cooling water pump		9	
Macuin		2 5 2 5	
Sump pump (new)			184
			154
NEGAUNEE MINE & BARN:			
Flywheel hoist set motor		350	
Top tram		50	
Hoist from South Jackson		75	
Pump " Maas Mine		50	
			525
PRINCETON MINE:			
Underground pump		150	
			150
PRINCETON CENTRAL SHOPS & CENTRAL POWER PLANT:			
Hoist motor from Spies Mine		200	
Hoist motor		400	
			600
Top tram from Gardner Mine		25	
			25
GWINN STORAGE SHED & STEPHENSON TRANSFER:			
Stephenson 5th level plunger pump		250	
		250	
" 8th " " "		50	
Spare for Pumping Station			
			580
			7,803-

OTT TOTAL SE	I VIII					brt. fwd.		7,803-1	/2 H
TILDEN M									
	veyor Belt						50		
	p motor for show	rels					1-1/	4	
Scr	aper motor						50		
								101-1	/4
						TO	TAL	7,904-3	/4 H
	tors at Spies-Vi		:						
	erground haulage	set					150		
	nder motor						3		
Fan							15		
						TOT	AL	168	I
Spare motors	on Mesaba Range:								
HILL-PRU	MBULL MINE & SHO	PS:							
Log	washer						25		
		from (rosby	Mi	10		40		
Scr	een	***	11	- 11			20		
Pic	king Belt	11	11	#			3		
	p screen	11	**	11			3		
Tab		11	**	***	(Loaned	to Charleston			
					Mining		20		
#9	Turbo	tt .	**	#			20		
Fee			**	11	force.Tl	to Buffalo Min			
	th Pit pump				Incanor	to bullato min	30		
Pla							3		
							2		
	p Screen	D W					10		
Rak		Drew Mine							
	AGNOT DOTA						15		
Fee	TOL						10		
	COMPTOROL						60		
Hel	mer hoist					-	200		
								481	
CANISTEO									
Cen	trifugal pump						600		
15 A 1 30 A	" "						600		
Dip	per trip						2		
H-T	table motor						20		
H-T	picking belt						5		
	t conveyors - 2	2 motors					10		
	re centrifugal p						20		
	re heaters on #3						1/	8	
		- 75 HP.					150		
	" 2	- 30 HP.					60		
								1,467	
HOLMAN-C	LIFFS MINE:								
	ft pump						150		
	or-generator set						150		
	p pump						5		
	p loaned to Char	leston Mi	nine	Co.			85		
	ming pump	TOSOOH WI	TT IIE	30.			2		
	compressor from	Ponti o=	Mine				100		
Alr	compressor iron	TOHOT STE	TITIO .					492	
							OTAL	2,440 H	E5 12-100

Total	C.C.1.	Co. &	C.P.&	L.Co. 1	oad co	mecte	l to	Power	Syste	9m -	12/31/3	6 -	26,311-3/4	4 HP.
	outsid	le					"	"	"	-	"	٠.	19,315	н
								TOTAL	CONNEC	TED	LOAD		45,626-3/4	4 HP.
Total	connec	eted 1	oad at	Mesaba	Range	Mines	1	Dec.	31st,	1936		-	4,859	HP.
"	"		" "	Spies-	Vi rgil	Mine	-	*	•	"		-	1,398	•
Total	spare	moto 1	es on h	and Dec	. 31st	, 1936	- 1	shpemi	ng Dis	st ri c	t	-	7,904-3/4	4 HP.
		"			,		- s	pies-V	irgil	Mine		-	168	•
		"					- M	esaba	Range	Mine	s	-	2,440	n

ELECTRICAL DEPARTMENT: (Cont'd)

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

	fwd.	1,3914	16	40	1,3674
Pan conveyor generator		35 13 14		. T	763
MAAS CRUSHING PLANT:					100
Ingersoll-Rand compressor moto	or exciter	10			735
Flywheel set exciter Skip hoist generator		700			
Nordberg Compressor motor exc	iter	10 15			
ATHENS MINE:					
		20		20	44
Welding generators (2)		20	16	20	
M. G. set in shop		10	State Take		
Condenser exciter		15			
Voltage regulator control		1/2			
Line testing set		1/2			
BROWNSTONE SUBSTATION & SHOPS: Battery charging set		2			
Compressor motor exciters (2)					20
CLIFFS SHAFT MINE:		20			
					45
Motor Driven exciter Turbo " "		225			
PRINCETON CENTRAL POWER PLANT:		0.01			
Compressor motor exciters (2)					65
Turbo " " (2)		225			
Motor driven exciter		222			
MAAS PLANT:					
		15			33
Exciter		18			
REPUBLIC PLANT:					
Exciter		28			28
ESCANABA PLANT:					
					122
Exciters (2 M. G. Exciter		110			
McCLURE PLANT:		110			
					54 2
AKCITEF		37			
HOIST PLANT: Exciter		171			
					150
CARP RIVER WATER POWER PLANT: Exciters (2		150			
OA DO DIVER WAMED DOWNED DI AND.					34 KW.
Exciters (2)				
AU TRAIN WATER POWER PLANT:			111 1000	111 1000	IOIADS
		1936	in 1936	in 1936	Jan. 1, 1937 TOTALS
		installed	Turkelled	Malana 004	1 10gm
operating as needed:					

NEGAUNEE MINE: SKIP Hoist generator Cage " " Flywheel exciter Exciters for underground pump motors Ingersoll-Rand compressor motor exciter Nordberg " " " Bell signal set Skip Hoist generator #2 Cage " " " Exciter on new hoist set MORRIS MINE: Ingersoll-Rand compressor motor exciter LLOYD MINE: Compressor motor exciter	1,3914 400 150 25 28	16	40	1,3674
Skip Hoist generator Cage " " Flywheel exciter Exciters for underground pump motors Ingersoll-Rand compressor motor exciter Nordberg " " " Bell signal set Skip Hoist generator #2 Cage " " " Exciter on new hoist set MORRIS MINE: Ingersoll-Rand compressor motor exciter LLOYD MINE:	150 25 28			
Cage " " Flywheel exciter Exciters for underground pump motors Ingersoll-Rand compressor motor exciter Nordberg " " " Bell signal set Skip Hoist generator #2 Cage " " " Exciter on new hoist set MORRIS MINE: Ingersoll-Rand compressor motor exciter LLOYD MINE:	150 25 28			
Flywheel exciter Exciters for underground pump motors Ingersoll-Rand compressor motor exciter Nordberg " " " Bell signal set Skip Hoist generator #2 Cage " " " Exciter on new hoist set MORRIS MINE: Ingersoll-Rand compressor motor exciter LLOYD MINE:	25 28			
Exciters for underground pump motors Ingersoll-Rand compressor motor exciter Nordberg " " " Bell signal set Skip Hoist generator #2 Cage " " " Exciter on new hoist set MORRIS MINE: Ingersoll-Rand compressor motor exciter LLOYD MINE:	28			
Ingersoll-Rand compressor motor exciter Nordberg " " " Bell signal set Skip Hoist generator #2 Cage " " " Exciter on new hoist set MORRIS MINE: Ingersoll-Rand compressor motor exciter LLOYD MINE:				
Nordberg " " " Bell signal set Skip Hoist generator #2 Cage " " " Exciter on new hoist set MORRIS MINE: Ingersoll-Rand compressor motor exciter LLOYD MINE:				
Bell signal set Skip Hoist generator #2 Cage " " " Exciter on new hoist set MORRIS MINE: Ingersoll-Rand compressor motor exciter LLOYD MINE:	10			
Skip Hoist generator #2 Cage " " " Exciter on new hoist set MORRIS MINE: Ingersoll-Rand compressor motor exciter LLOYD MINE:	10			
Cage " " " " Exciter on new hoist set MORRIS MINE: Ingersoll-Rand compressor motor exciter LLOYD MINE:	1/2			
Exciter on new hoist set MORRIS MINE: Ingersoll-Rand compressor motor exciter LLOYD MINE:	400			
MORRIS MINE: Ingersoll-Rand compressor motor exciter LLOYD MINE:	200			
Ingersoll-Rand compressor motor exciter LLOYD MINE:	35			
Ingersoll-Rand compressor motor exciter LLOYD MINE:				1,258
Ingersoll-Rand compressor motor exciter LLOYD MINE:				
	10_			
				10
Acuthiasson motor avertar				
				6
MACKINAW MINE:				
Compressor motor exciter	10_			
TILDEN MINE:				10
Thrust generator on electric shovel #29	15			
Hoist " " " " "	75			
Swing " " " "	15			
Exciter " " " "	5 1			
" " " " #31	51			
Thrust " " " " "	15 5½ 5½ 15			
Hoist " " " "	75			
Swing " " " " "	16			
Exciter for synchronous motor	15	*		
Thrust generator for Marion shovel		15	Charles In the Control	
Hoist " " "		50	EX Print 10	
Swing " " " "		15		
Exciter " " " "		51		3223
TOTAL		- 00		9685

Underground Haulage Ge	merators:			
		INSTALLED		
			INSTALLED TAKEN OUT	JAN. 1, 1937
		1936	IN 1936 IN 1936	TOTALS
CLIFFS SHAFT MINE:				
Motor-Generator Set #2		100 KW		
" " set #1	ng set	5		
Bet #1		100		205 KW
ATHENS MINE:				205 KW
Rotary Converter #1		100		
# #2		100		
				200
MAAS MINE:				
Motor-generator set #1		100		
" " #2		100		
				200
NEGAUNEE MINE:				
Motor-generator set #1	(new)	200		
" #2		150		
				350
LLOYD MINE:				
Converter #1		90		
# #2 (from W	ade Mine)	100		100
				190
MACKINAW MINE:		100		
Rotary Converter				100
	TOTAL	1,245 KW	0 0	1,245 KW
	TOTAL	T'MED TH		I, WEU DI
Direct Current Motors:				
AU TRAIN WATER POWER PLANT:				
Governor control motor	s (2)	1/4		- 10
				1/4
CARP RIVER WATER POWER PLAN		- 4		
Rheostat Control	(2)	1/4		
Governor "	(2)	1/4		2/0
MACHINE OF ARM				1/2
McCLURE PLANT: Valve Control	191	2		
Rheostat "	(2)	1/2		
***************************************	141			21/2
CLIFFS SHAFT MINE:				21/2
Portable Hoist		10		
Car Puller		61/2		
Scrapers		165	75	-
				1062
TILDEN MINE:				
Hoist motor on electri	c shovel #29	100		
Swing " "		20		
Thrust " " "	" "	20		
Swing " " "	" #31	20		
Thrust " "		20		
Hoist " "		100		
Hoist " " Marion			60	
Swing " " "			23	
Thrust " " "			23	707
Dipper Trip Motor "		4048	5 75	391
	fwd	4643	111 75	5003

Electrical Department:	(Cont'a)			THEMATTER			
				INSTALLED	THISMA T.T ES	MA IZENI OTIM	JAN. 1, 193
				1936	IN 1936	IN 1936	TOTALS
	br	t. fv	vd.	4643	111	75	5003
ATHENS MINE:				T. I.			
Skip Hoist	Market Sant			900			
Ventilating fans	6 - 5 H		ors	30			
Sullivan Scrapers	$2 - 6\frac{1}{2}$	"		13			
	16 - 15 "	.,	ALL STORY	225	15		
Ventilating fan	(Loaned to N			15		15	
Sullivan Scrapers	2 - 20 HP		ors	40			
I. R. SCrapers	2 - 10 "			20			
Ventilating fan	(From Maas	Mine)			15		
DAG MINT							1,258
MAS MINE:				10			
Rimber Hoist - 4th				10			
Ventilating fan (15	***	15	
Sullivan Scrapers			rs	285	60		
Vantileting Court	5 - 62 "	"		32½			
Ventilating fans	10 - 5 "			50			
Scrapers	2 - 25 "	11		50			
I-R. Scrapers	9 - 15 "			135 30			
	1 - 20 "	- 11		20			
Scrapers	1 - 3 "	11		3			
Fan	1 - 0 "						6752
AAS CRUSHING PRANT:		•					0102
Pan Conveyor				40			
100 00010301							40
EGAUNEE MINE:							•
Skip Hoist				500			
Cage "				200			
	11th level			10			
	12th "			10			
Scrapers		HP mo	tors	222		222	
Grindstones	$2 - 6\frac{1}{2}$	**	**	13			
Sallivan Scrapers	2 -25	**	**	50			
Ventilating fans	4 - 5	"	#	20			
Denver Scrapers	3 - 10	11	11	30			
Sullivan "	7 - 15	11	**	105			
I_R. "	6 - 15	#	11	75	15		
	6 - 10		17	60			
Sullivan "	1 - 20	**		20			
Gardner-Denver Scr		#	"	30			
I-R. Scraper	1 - 20	#	ii .		20		
			1				1,158
LOYD MINE:							
Scrapers	12 - 15	"	11	105	75		
"	1 - 10	11	11	10			
,	1 - 25	#		75		50	
Skip Pit	$1 - 6\frac{1}{2}$	**	**	62			
" "	$1 - 7\frac{7}{2}$	11		75 61 71 71			
I-R. Scraper	1 - 20	11	"	THOUGH 5	20		
							249
ARDNER-MACKINAW MINE:							
Scraper	3 - 10	"	**	30			
	1 - 20	11	"	20			
	1 - 15	**		15	198		
							65
	TOTAL	D.C.	MOTORS	3,7923	331	1772	3,9464

ÉLECTRICAL DEPARTMENT: (Cont'd)

ALLOND DELECTIONS: (OUT W)		
Spare Generators and Exciters on hand Dec. 31st., 1936:		
NEGAUNEE MINE:		
Skip Hoist (Armature Only)		500 H.P.
Spare Underground Haulage Generators on hand Dec. 31st., 1936:		
GENERAL STOREHOUSE:		
Motor-Generator Set (From Morris Mine)	100	
Exciter - Nordberg Compressor	10	
	22	
Motor-Generator Set	_20	10
Snow Divert Current Noters on hand Dec. 31st 1936.		152 K.W.
Spare Direct Current Motors on hand Dec. 31st., 1936;		
Cliffs Shaft Mine:		
Spare scraper motor 6 - 15 H.P. motors	90 H	P.
		90 H. P.
ATHENS MINE:		
Timber Hoist Motor	10	
Fan	15	
397 L. U.S. 1		25
MAAS MINE:		~~
Conway Loader	50	
TOMMAY BOARD!		50
LLOYD MINE:		30
Crane motor	_10	
		10
GENERAL STOREHOUSE:		
Pump Motor	20	
Spare hoist motor for shovel	105	
" swing " " "	20	
owing.		145
GARDNER-MACKINAW MINE:		
Hoist	_15	
110130		15
TOTAL		335 H.P.
MESABA RANGE:		000 11.14
CANISTEO MINE:		
Exciters and Generators installed up to Dec. 31st., 1936;		
Hoist generator on shovel - 2 shovels	300 K	1
Swing " " -2 "	80	
Thrust " " -2 "	78	
Washing plant generator	150	
Arc Welder	10	
	24	
Exciter on shovel -2 "	10	
Arc Welder (From Hill-Trumbull)		652 KW
HILL-TRUMBULL MINE:		OOL A.
Hoist generator on shovel	150	
Swing " " "	40	
Thrust " " "	39	
inrus	12	
Exciter " " "		241
		~
HOLMAN-CLIFFS MINE:		
Generator for feeder	150	
Adutator for roomar		150
TOTAL		1.043 KW
		A STATE OF THE STA

Electrical Department: (Cont'd)

MESABA RANGE:

Underground Haulage Generators installed up to Dec. 31st., 1936:

HILL-TRUMBULL MINE:							
Motor-generator set						55	KW
" " for roo	k hauls	age				25	
			TOT	AL			80. KW
Direct Current motors installed up to	Dec.	31st.	, 19	36:			
CANISTEO MINE:							
Rack Drives on classifiers	2 -	5 H	mot	ors		10	HP
Hoist motor on shovel	2 she	vels				375	
Swing " " "	2					80	
Thrust " " "	2	#				80	
Pan Conveyor						40	
Log Washers - from Holman	2 - 4	10 HI	not	ors		80	665 HP
HILL-TRUMBULL MINE:							
Feeder motor						60	
Hoist motor on shovel						187를	
Swing " " "						40	
Thrust " " "						39	
Dorr bowl classifiers	2 -	5 HF	mot	ors		10	336 1
HOLMAN-CLIFFS MINE:							0008
Pan Converyor						40	
					7500	1286	40
		T	OTAL				1,0412
Spare Direct Current Motors on Mesaba	Range	Dec.	31s	t., 193	5:		
CANISTEO MINE:							
Generator (From Pontia	c Mine					7	KW
							7 KW
HOLMAN-CLIFFS MINE:							
1 D.C. motor						5 1	HP
						3	
1 " " Motor-generator set - spare	from I	Roain	o Mi	ne		115	WW.
motor-generator set - spare	110		6				
MESABA RANGE:							
Total Exciters and Generators in	stalled	l to	Dec.	31st.,	1936		1,043 KW
" Haulage Generators					"		80 KW
" Direct Current Motors	ii			à	â		1,0412 HP

Electrical Department: (Cont'd)

SPIES-VIRGIL MINE:

Exciters installed to December 31st., 1936:

Compressor motor exciter	10 KW
Underground Haulage Generators installed to December 31st., 1936:	250 KW
Top Tram larry cars - 20 HP D.C. moters 40 Fan 15	
	55 HP
Spare D. C. Generator	100 KW

ISHPEMING DISTRICT:

Total	D.C. Generators and Exciters installed	to	December	31st,	1936-	2,9744	KM	
	Underground Haulage Generators "	**		7	" -	1,245	KM	
	Direct Current Motors	"			" -	3,9464	HP	
	Spare D. C. Generators and Exciters on	hai	nd "	î	" -	52	KW	
	" Underground Haulage Generators "	**		n	"-	152	KW	
	" Direct Current Motors "	"				335	HP	

Electrical Department: (Cont'd)

Substation Transformers installed up to December 31st, 1936:

66,000/2300 Volts		PHASE	NO.	K.V.A.	TOTAL K.V	.A.	
Munising Substation		1	3	667	2,001		
Seney		1	1	25	25		
Inland #1 **		1	3	500	1 500		
n #2 n		1	3	500	1 500		
Au Train "		ī	3		3 1 000		
						6,026 K	.V.A.
33,000/66,000 Volts							
Gwinn Substation		1	3	1,250	3.750		
33,000/13,200 Volts						3,750	"
Clarksburg Substatio		1	3	37-1/	2 112		
CIAIRSDUIG BUDSCACIO	**		•	31-1/	4 1162	112章	"
33,000/110-220 Volts						1155	
Toebe Substation		1	1	10	10		
10000 Dabstation				10	10	10	**
33,000/2300 Volts							
Brownstone Substatio	m	1	3	400	1,200		
Cliffs Shaft-Holmes		ī	6	500	3 000		
Morris-Lloyd	11	ī	3	590	1 770		
Princeton		ī	3	250	750		
Republic		î	3	400	1 200		
Mass			6	590	3 540		
Escanaba Plant			3	590	1 770		
Gwinn		1 1 1	3	625	1 875		
Munising			3	200	600		
McClure Plant		3		5,000	10 000		
		ĭ	3	1 900	5 700		
valp		i	3	625	1 875		
Palmer	, and the second		2	667	2 000		
Hoist Plant			3	150	450		
Greenwood Michigan Gold Mine	n n	1	2 3 3 3 3 2	75	150		
Tolligan dold Tine						35,880	11
12,000/440/220 Volts							
Piqua - Marquette	Substation	1	3	100	300	mon	
						300	
12,000/220/110 Volts			1	2-1/	2 2		
D.B.S.&A.Ry. at Clar	risburg	1	1	4-1/	E	21/2	
12.000/2300 Volts							
McClure Plant (Furn	acaa Tiinaal	3	2	1,250	2,500		
Au Train Substat		3 1	3	50	150		
Chatham Substan	1011		3	25	75		
Eben "		1	1	25	25		
Rumely		1	2	15	30		
mmery						2,780	11
6.600/2300 Volts							41.15
Gwinn Substation		1	3	350	1,050		
Mackinaw "		1	3	350	1 050		
Inland #1 "		1 1 1	3 2	25	75		
Blaney Park "		1	2	25	50		
H H H		1	1	15	15		
						2,240	"
6.600/115/230 Volts					15		
Germfask		1	1	15	15		
Control of the second second		1	2 2	1.5	0		
		1	2	3	3 6 5		
Furnace Substation	Lighting	1	1	5		29	**
				GRAND TO	TAL -	51,130	
				CHAMID TO			

Electrical Department: (Cont'd)

Distribution Transformers installed up to December 31st, 1936;

2300/220/		Phase	No.		K.V.A.	TOTAL K.V.A.
CLIF	FS SHAFT MINE:					
	Office Lights	1	1		10	
		1	1 2		15	
	"A" Shaft Hoists	1		(15)	30	
	Pump Station Lights	1	1		3	
	Crusher House Lights	1	2	(1)	2	
	Machine Shop	1	3	(10)		
	Underground Scrapers	1	5	(50)	250	
		1	3	(25)	75	
		1	3	(75)	225	
	Motor-generator set for battery cha	rging				
	and 1st level "A" scrapers	1	2	(50)	100	
	Rectifiers	1	7	(5)	35	
	Lights	1	34	(1章)	51	
	Scraper Lights	1	1	,	2	
	Signal in Engine House	ī	1			
	Scraper Lights	ī	1		5 3	
	Top Tram Control		1 1 2		1	
	Laboratory Crusher	1 1	•	(15)	30	
	paddratory ordsher		î	(19)		
					50	
		1	1	1201	15	
		1	2	(10)	_20_	000
				1		952
HARD	ORE. BROWNSTONE. ETC.:					
	Light & Power	1	1		15	
		1	1		71	
	Blacksmith Shop	1	1		30	
	Manager's Residence	1	2	(10)	20	
		1	1 1 1 1		5 7½ 5 7½ 1½	
	F. C. Stanford & Testing	1	1		72	
		1	1		5	
	Manager's Residence	1	1		72	
		1	1			
	Hospital	1	3	(25)	75	
	Shop Power	1	3	(15)	45	
	" Lights	1	1		5	
	Blacksmith Shop Lights	1	1		15	
						239
TILDI	IN MINE:					
	Pump	1	1	(72)	72	
		1	1		10	
	Lights & Power	1	2	(5)	10	
	Drills	1	3	(15)	45	
	Shovel	ī	3	(5)	15	
	Orusher	ī	3	(10)	30	
	Synchronous Condenser	i	1 1 2 3 3 2 3 1	(7)	15	
		i	2	(15)	45	
	Scrapers		- 1	(12)		
	#31 Shovel	3	1		15	
	Lights - Pump House	1	1 3		1/2	
	Summit Pit Substation	1	3	(10)	30_	
					Bridge St	223
					fwd.	1,414

Electrical Department: (Cont'd)

Distribution Transformers (Cont'd)

brt. fwl.	Phase	No.		K.V.A.	TOTAL K.V.A. 1,414
ATHENS MINE:					+,===
Machine Shop	1	2	(10)	20	
Surface Lights & Lab. Hot Plates	1	3	(10)	30	
Pump Station Lights	1	1			
	1	1		5 2	
100 G.P.M. Pump	3	1		40	
Signal System	1	1		1	
Engine House Lights	1	1		5	
n n n	1	1		5 4 2 1	
Top Tram	1 1 1	1		2	
" " Control	1	1		1	
Pump at Breitung Shaft	1	3	(元)	221	
U. G. Haulage Converters	1	6	(35)	210	
					3422
MAAS MINE:					
Lights & Injection Pump	1	3	(10)	30	
Coal Crusher & Shop	ī	2	(10)	20	
Signal System	ī	1		1/2	
3rd Level Pump Station	ī		(5)	10	
Cage Hoist Control	ī	2	12 19	10	
Skip " "	ī	1		2	
n n	ī	ī		3	
Heaters in Engine House	ī	ī		10 2 3 71 2	
Top Tram	ī	ī		2	
Shop	ī	ī		15	
-109					100
MAAS CRUSHING PLANT:					
Lights	1	1		7 }	71
NEGAUNEE MINE:					
Shop Light & Power	1	1		10	
M H H H	1	ī		71	
Engine House Tights & Dower	1	ī	THE RESERVE	10	
Engine House Lights & Power	i	ī		5	
Signal System	ī	ī		1/2	
	i		(7분)	5 1/2 22½ 15	
Pump Station Lights, etc.	ī	3 3	(5)	15	
13th Level Pump		ĭ	1 01	i	
Barn		î		71/2	
Gravel Pit	1	3	(10)	30	
Hoist & Lights - #2 Shaft	i		1701	3	
Underground Haulage					112
LIOYD MINE:					
Cage Hoist Control	1	1		5	
Skip " "	ī	ī		5 71/2	
Water Supply Pump House Lights	ī	i		2	
Engine House Lights & Bell System	ī	ī		10	
muliue House Pigurs & pair pharem	î	î		5	
보이에 하는데 가장 맛이 하는데 살아가 나를 하는데 하는데 하는데 되었다.	î	i		5	
Saw Had a warmen of Havilage	3	•		100	
Underground Haulage	1	1 3	(35)	105	
" from Wade Mine	i	1	(00)	10	
Office Lights	i	3	(10)	30_	
Shop Power			(10)		279
				fwd.	2,255
				THUL	-9.005

			1	and the Land	
Distribution Transformers	(Cont'd)	Phase	No.	K.V.A.	TOTAL K.V.A.
	brt. fwd.				2,2552
NORTH LAKE LOCATION:					
Location Lights		1	1	72	
Club House "		1	1	10_	
Section 6 Shaft:					17½
Hoist Control		1	1	禮	
Lights		ī	1 2	(2) 4	
225-00				\ ~1	1112
REPUBLIC MINE:					
Engine House Lights		1	1	7=	
Water Power Plant Lights		1	1	7 1 2 1 2 2	
" " " " " " " " " " " " " " " " " " " "		1	1	<u> </u>	
					12
PALMER SUBSTATION:					
Circuit Breaker Control		1	1	15	
					11/2
AUSTIN MINE:					
Shop		1	1	_10_	
AA DOMAN WATER					10
GARDNER MINE:					
Cage Hoist Control		1	1	10_	10
MACKINAW MINE:					10
Machine Shop		1	2	(5) 10	
Hoist Control		i	ĩ	10	
5th Level Lights		i	i	i	
7th Level Engine House Light	+-	i	i	i	
Top Tram	168	i		3	
			1		
Haulage Converters R. & R. Lumber Co.		1	3 2	(35)105	
no & No Humber ooo			-	(10) 20	150
PRINCETON #3:					
Lighting & Bell System		1	1	11/2	
					11/2
PRINCETON CENTRAL POWER PLANT:				ps1.	
Coal Crusher		1	1	7½ 10	
Power Plant Lights			1	_10_	17 1
PRINCETON CENTRAL SHOPS:					715
Power & Lights		1	2	(10) 20	
			4.35		20
GWINN DISTRICT OFFICE:					
Lights		1	1	_10_	
					10
GWINN PUMP STATION:					
Power		1	2	(37 2) 75	
AWITH DIGAPTOR AWITHUR DIVING					75
GWINN DISTRICT CRUSHING PLANT:		1	2	(701 90	
Power & Lights			-	(10) 20	20
GWINN SUBSTATION:					20
Lights		1	1	1/2	
PRINCETON PUMP STATION:					1/2
Booster Pump		1	2	(7 ¹ / ₂) 15	
					-15
	STATE OF STATE			fwd.	2,627

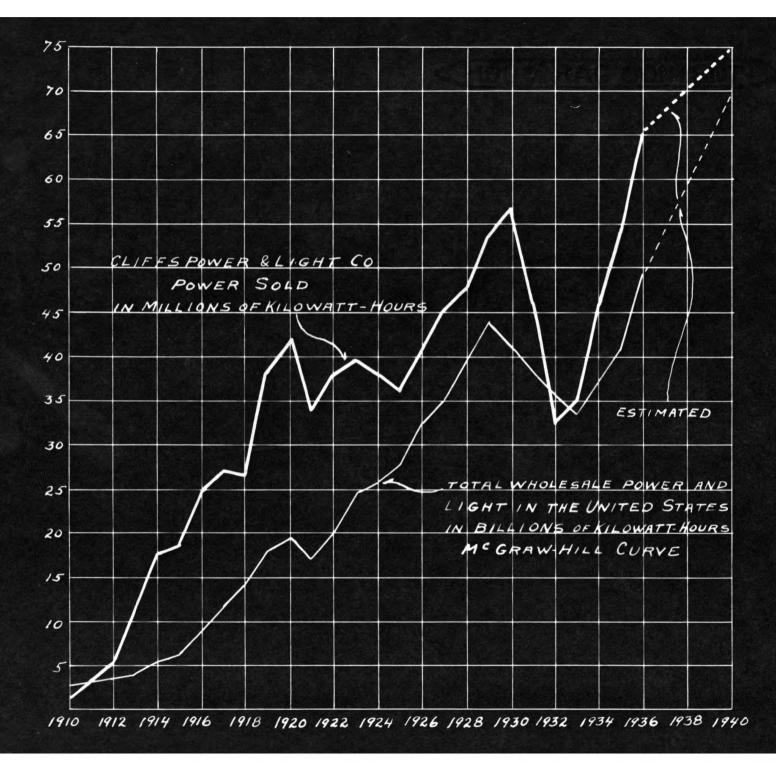
Distribution Transformers (Cont'd)	Phase	No		w.V.A	TOTAL K.V.A.
brt. fwd.	OF THE REPORT OF THE PERSON OF	NUA			2,627
AU TRAIN WATER POWER:					
Heater at Valve House	1	1		2	
Control	1	3	(1)	3	
Power & Lights, Dixon Location	1	2 2	(5)	10	
" " Grand Island	1	2	(5)	10	
Lights, Forest Lake Location	1	1		10	
Chief Operator's Dwelling Lights		1		5	
Surge Tank Heaters	1			5	
Dixon Tie Mill	ī	2	(3)	6	
Chief Operator's House		2 2	(5)	10	
Grand Island	1 1 1 1	1	, -,	72	
II II	ī	2	(5)	10	
이를 지하는 것이 없는 것이 없는 것이 없는 것이 되었다. 그 없는 것이 없는 것이 없는 것이 없는 것이 없다.	i	~~~	(0)	3	
Dixon Location, Power					812
ARP RIVER WATER POWER PLANT:					
Power & Lights	1	1		10	
" " "	1	1		20	
Pump	ì	2	(1)	2	
			45.74		32
oist Plant:					
Power & Lights	1	3	(10)		
					30
CCLURE PLANT:		•	/201	20	
Power & Lights in Plant	1	2	(10)		
Torses	1	1		5	
	1	1		_15_	40
SCANABA RIVER PLANT:					
Power & Lights	1	3	(5)	_ 15_	
					15
		GRAND TOTAL		OTAL	2,826
ETAIL SERVICE: Princeton Location Lighting	1	1		5	
		i		10	
Austin "	1	2	1 11	2	
Gwinn Street Lights	1	1	(1)	2	
[2] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1	THE RESERVE OF THE PERSON NAMED IN	140025.5		2/9	
" Lighting near Depot	1	1		1/2	
" " Poplar Alley	1	1		30	
" Power - Club House	1	1		10	
" Lighting - Mineral St.	1	1		10	
" - Pine St.	1	2	(15)	30	
" Power - School	1	3	(5)	15	
" Lighting "	1	1		10	
New Swanzy Lighting	1	1		10	
Oyr Location "	1	1		2	
Little Lake "	1	1		5	
	1 1 1 1 1 1	1		2 5 1 5 1 2	
Sundell "	1	1		5	
	1	1		51	
	1	.1		25	
" Rural	1	14	(1항)	21	
Rumely "	1	1		5	
	1	1	100	21/2	
" Rural	1	17	(11)		
			fwd.	2132	

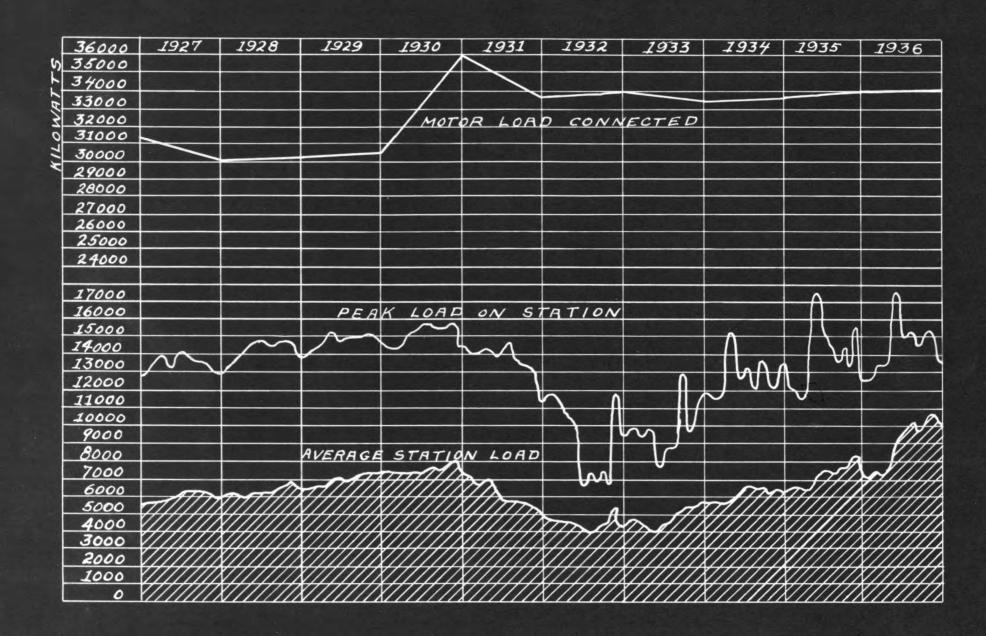
Distribution T		(Cont'd) brt. fwd.	Phase	No.	K.V.A.	TOTAL K.V.A.
RETAIL SERVICE:		Drt. Iwa.				STOS
Little Lake Li	chtine		1	1	10	
Hirwas Camp	- But A TINE		î	î	5	
Winters'			î	i	3	
Connors' "			i	ī	, , , , , , , , , , , , , , , , , , ,	
Railo-Rytkonen	Com		i	i	3 3 5 10 7 ¹ / ₂ 5 5	
Eben School	Comp		1	i	10	
" Corner			i	i	721	
	(Hallstrom)		i	ī	1,5	
H H	(Ahola & Mich	lan fa	î	î	5	
	frunts & Wie	all Ow)	i		/ 31 19	
				4	(3) 12 $(1\frac{1}{2})$ 12	
Chatham "			1	8	(12) 12	
onatham "	(17-73	o		1	10	
, , , ,	(Heldmann's		1	1	5	
	(County Gara		1	1	5	
	larger count	Infirmary)	1	1	10	
		Chicken Coop)	1	1	(21) 35	
	(State Farm)		1	2	(7克) 15	
	(Maki)		1	1	5 5 3	
	(Camp Chathan	A)	1	1	5	
10 P. C. 10 P. Hold's	(Rural)		1	1		
	•		1	18	(12) 27	
			1		(3) 3	
				TOT	AL	384
GENERAL STOREHOUSE General Electr	ic for 440 V.	. Shaft Pump blic	1 1 1 1 1 1 1 1 1 1 1 1	111111111111111111111111111111111111111	100 7½ 75 5 25 10 25 7½ 5 7½ 5 2 5 (15) 45 10 (5) 25 3	362 }
ATHENS MINE:						
Spare			1	1	3	
			1	1		
						6
REPUBLIC MINE:						
General Electr	ie		1	1	_4	
						4
Gwinn SUBSTATION:						
Spare			1	1	_10_	
						10
PRINCETON MINE ENGI	NE HOUSE.					
Surface Lighti			1	1	5	
Table Light						5
				ф	OTAL	3872
				-		

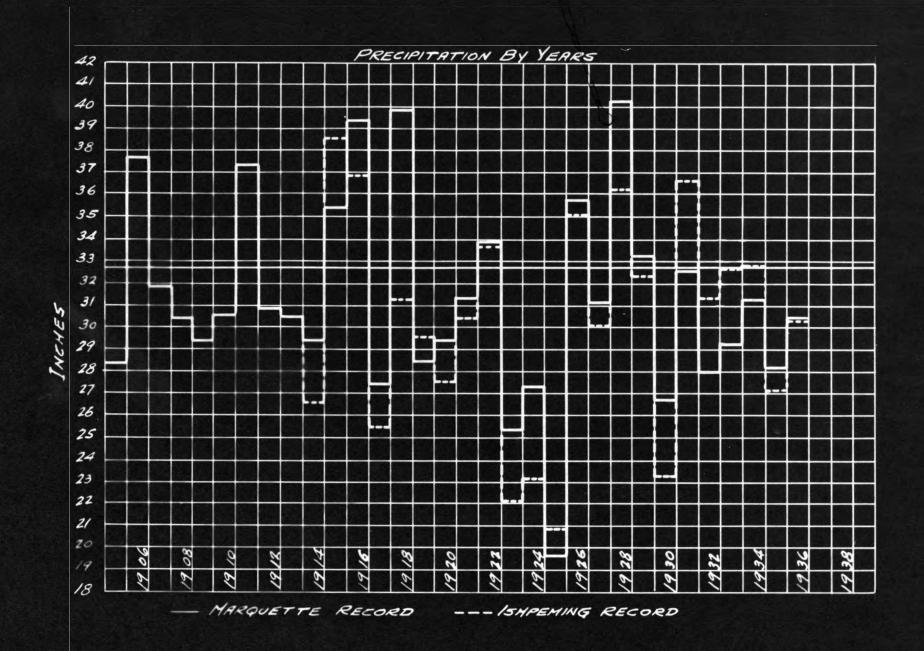
	AND STATE OF THE PARTY AND ADDRESS.	154 A 10 10 10 10 10 10 10 10 10 10 10 10 10
COBROA	DAMITTEL	TABLES.
F - 1 1 111 1 1 44	DATILVE	TH DITE

	TONS	TONS ORE	OTT TO	CUBIC FT. AIR	GALLONS	
YEAR	BURNED	& ROCK HOISTED	CU. FT.	PER TON HOISTED	OF WATER PUMPED	G.P.M.
CLIFFS SHĀFT	MINE:					
1927	957	426,830	766,647,000	1,796	440.517.425	
1928	1,008	416 344	804 600 000	1 932	463 182 750	
1929	934	451 334	853 572 500	1 891	461 403 025	
1930	716	444 511	896 693 000	2 017	446 650 100	
1931	560	315 492	592 506 000	1 878	350 061 000	
1932	611	92 125	188 127 000	2 042	369 057 075	
1933	495	61 623	160 033 500	2 596	362 896 379	
1934	373	235 639	394 168 500	1 672	348 670 324	
1935	869	288 053	516 140 000	1 791	366 504 523	692
1936	920	484 310	907 194 600	1 873	389 395 743	739
ATHENS MINE:						
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	1 160 650 000	2 756	121 785 145	
1931	621	254 660	686 750 000	2 696	136 215 501	
1932	578	77 639	209 925 000	2 703	205 070 447	
1933	546	49 506	152 235 000	3 075	194 073 179	
1934	672	166 412	334 485 000	2 009	179 244 454	200
1935 1936	653 718	205 863 318 604	527 355 000 698 985 700	2 561 2 19 3	154 911 562 134 999 491	292 255
MAAS MINE:						
1007	nen	974 506	E91 770 000	1 000	500 949 006	
1927	767	274,586 272 740	521,730,000	1,900 2 489	508,242,996 553 419 346	
1928 1929	657 577	347 232	679 005 000 1.067,265,000	3 074	554 452 221	
1930	606	443 504	1 374 390 000	3 098	577 702 994	
1931	618	332 206	756 405 000	2 076	585 922 823	
1932	585	97 295	210 825 000	2 166	576 727 573	
1933	662	143 845	367 560 000	2 555	554 157 402	
1934	747	294 372	601 920 000	2 044	550 020 020	
1935	804	370 399	686 520 000	1 853	597 349 626	1,129
1936	950	549 615	897 919 800	1 634	674 397 310	1,279
NEGAUNER MIN	E:					
1927	11139	501 516	895,680,000	1 785	603,746,976	
1928	1 278	472 459	1,047,240,000	2 216	629 675 383	
1929	1 410	569 489	1 123 840 000	1 973	648 591 436	
1930	1 254	597 364	1 044 270 000	1 748	556 227 893	
1931	885	346 533	620 641 000	1 791	482 294 599	
1932	1 092	86 650	209 970 000	2 423	477 360 416	
1933	708	65 661	166 050 000	2 528	448 928 213	
1934	819	240 808	437 985 000	1 818	435 724 897	
1935	891	311 446	481 680 000	1 546	485 600 207	918
		530 844	737 716 000	1 389		916

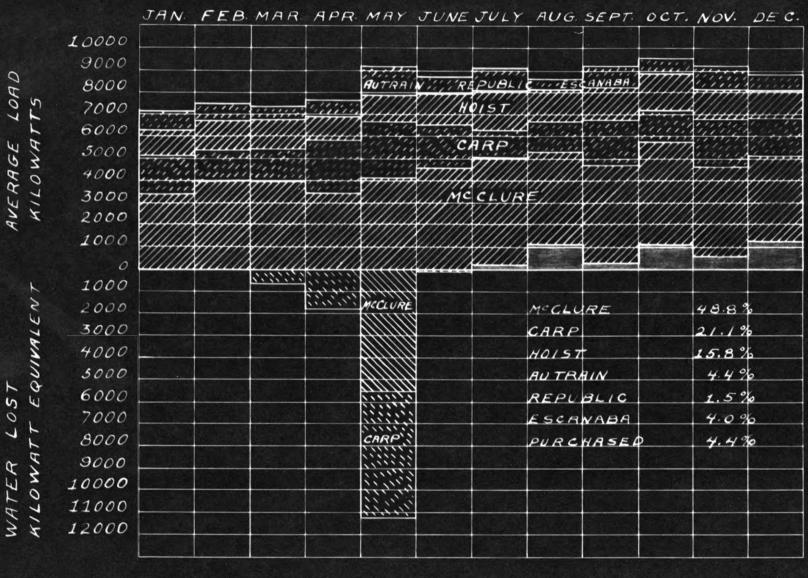
				CUBIC		
	TONS	TONS ORE		FT. AIR	GALLONS	
	COAL	& ROCK	CU. FT.	PER TON	OF WATER	,
YEAR	BURNED	HOISTED	AIR USED	HOISTED	PUMPED	G.P.M
TILDEN MENE:						
1929	625	441,769				
1930	498	287 043				
1931	244	137 010				
1932	38	19 957				
1933	164	94 194				
1934	325	167 688				
1935	394	190 511				
1936	901	291 341				
LLOYD MINE:						
1933	96	4,554				
1934	127	136 951	145,926,000	1,065		
1935	224	248 410	289 426 500	1 165		
1936		377 572	383 994 000	1 017		
GARDNER-MACK	INAW 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	74 883 761	
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	D 4
1934	269	79 187	291 510 000	3 681	82 416 531	
1935	306	138 507	446 625 000	3 224	72 964 993	136
1936	331	185 954	692 415 000	3 723	67 049 662	126





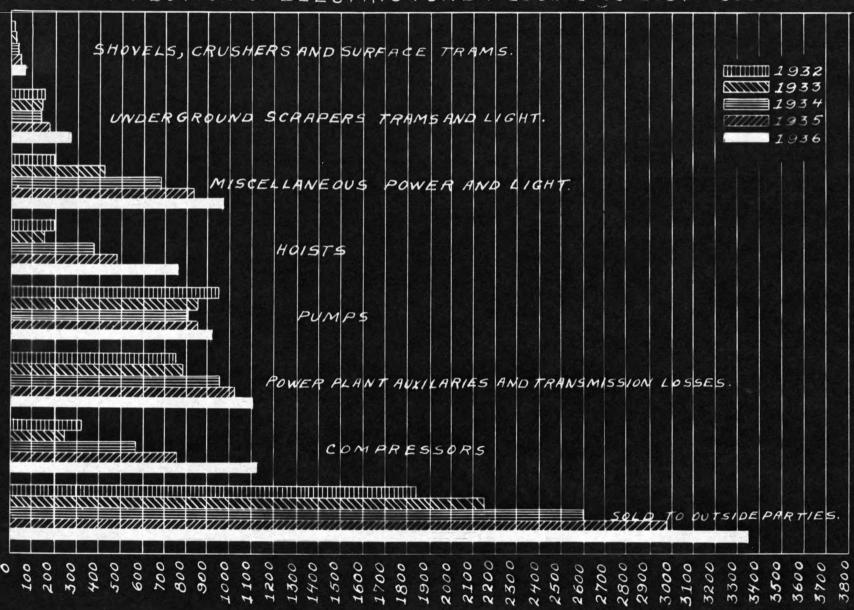


1936



CURRENT MADE WATER LOST POWER PURCHASED

DISTRIBUTION OF ELECTRIC POWER 1932-1933-1934-1936-1936.



KILOWATTS.

PENSION DEPT. ANNUAL REPORT YEAR 1936

11.

a. Workmen's Compensation.

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

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

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

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

The men have shown a good spirit in returning to work as soon as possible following an accident.

The reduced number of accidents will be reflected in our annual compensation costs and the reduction will be gradually accomplished as the fatalities and total disability cases end.

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

Emil Linna, Cliffs Shaft mine, Acc. Report No. 1057 B.

At a hearing held on November 22nd, 1935, Linna was awarded compensation at the rate of \$13.20 a week from November 30, 1932 to March 1, 1933, because of a hernia he claims to have suffered accidentally on November 29, 1932. The period allowed was the actual time he lost following the operation to reduce the hernia. Linna had also claimed partial disability from and after March 1, 1933, but this portion of his claim was denied. He was not satisfied with the award of the deputy commissioner and appealed to the Full Board. They reviewed his case on March 5, 1936, and sustained the award of the deputy commissioner. No appeal was taken by Linna, and the case is now closed.

Sidney Wales, Spies-Virgil Mine, Acc. Report. No. 144.

Wales was injured at the Spies-Virgil mine on June 2, 1933, when he fell from a loaded railroad car while picking samples. He was paid compensation by the Fidelity & Casualty Company of New York from the date of the accident to August 15th, 1935, when they petitioned for a stop-order. A hearing was held on December 19, 1935, the testimony being all medical, and the deputy commissioner allowed him until January 21, 1936, to decide whether or not he would take the additional deposition of the physician who had examined him at Ann Arbor shortly before the date of the hearing. Wales did not take this deposition, so early in 1936 the deputy commissioner issued an award reducing his compensation from \$11.60 to \$5.80 a week, a reduction of 50 per cent. Wales appealed this award to the Full Board and the hearing on review was held on May 20, 1936. They granted him full compensation at \$11.60 per week from August 15, 1935, the date the petition to stop compensation was filed, to and including December 19,1935, the date of the hearing before the deputy commissioner, with compensation at \$5.80 from and after December 19, 1935. He took no appeal on this award, and at the present time is being paid at the rate of \$5.80 per week.

PENSION DEPT. ANNUAL REPORT YEAR 1936.

11.

a. Workmen's Compensation (Continued)

Adolph Wheeler, Negaune e Mine, Acc. Report No. 584.

While working on the top tram at the Negaunee Mine on March 29, 1930, some ore slipped out of a chute and struck Wheeler in the left leg, tearing the ligaments of the knee. He was disabled until May 19, 1930, when he returned to his regular work and continued in our employ until October 1930. He had suffered from myocarditis for some time and in the latter part of 1930 hes physician recommended that he quit work. Wheeler was put on the pension roll on January 1, 1931, and he died on February 12th. Mrs. Wheeler filed a claim for compensation in ctober 1935, claiming that her husband's death was attributable to the injury which he sustained on March 29, 1930. Her case was to be heard before a deputy commissioner on November 22, 1935, but Mrs. Wheeler did not appear and the case was continued. On January 29th, 1936, her case was again set for hearing and she failed to appear. The deputy commissioner dismissed her petition. The case was set for the third time on May 20th, 1936, at nine o'clock A.M. She did not appear. A Marquette attorney came in and discussed the case off the record saying that he was there for information only and had not decided to appear for her, although he had been approached by Mrs. We learned that she had contacted four or five different attorneys but apparently failed to interest them in her case. We put on three witnesses so as to make a record and the deputy commissioner gave us an award in which he stated that there was no cause for action. Mrs. Wheeler did not appeal.

William Hendrickson, Spies-Virgil Mine, Acc. Rept. No. 142A.

Following the death of William Henrrickson, which occurred on December 25, 1934, we received a notice of injury from his minor children through their attorneys, Derham & Derham, dated March 21, 1935. This notice stated that Hendrickson's death was due to an accident sustained in July 1933 when he inhaled an excessive amount of gas and powder smoke because of the plugging of the air line. Later this notice was amended to set the date of the accident as March 16, 1931. Nothing further was heard from this case until we received an Application for Adjustment of Claim in September 1936, when Mr. F. A. Bell, our attorney, immediately countered with a motion that the plaintiff should make his claim more specific as to the manner in which the accident occurred. The case was set for hearing on October 5th at Crystal Falls, and when we asked if the hearing would be held on our petition for additional information or whether it was to be a hearing on the merits of the case, we were informed by the Department of Labor and Industry that the hearing had been postponed.

Various conferences were held with the doctors who had taken care of Hendrickson both in Iron River and at the Pine Crest Sanatorium. Conferences were also held with Dr. Warfield of Milwaukee, an expert in this type of case, and with Mr. J. Barab, a powder expert of the Hercules Powder Company from Wilmington, Delaware, and the Messrs. Humphrey, attorneys of Ironwood, who have had experience in this type of case. The statements of about thirty men employed in the Spies-Virgil at the time of the alleged accident, were also taken. These were all men who might have come in contact with Hendrickson in the event that he had suffered an accidental injury on the date mentioned.

PENSION DEPT.

TENSION DEPT. ANNUAL REPORT YEAR 1936.

a. Workmen's Compensation (Continued)

William Hendrickson (Continued)

The hearing was set for December 7th, 1936 at Crystal Falls. On December 6th we met in Iron River with the Messrs. Humphrey and again questioned the mine employees whom we intended to use as witnesses at the hearing. When we appeared before the deputy commissioner on December 7th, Ray Derham, attorney for the plaintiff, asked that the hearing be post-poned because he had been unable to have his witnesses there.

11.

a. Workmen's Compensation (Continued))

FATALITIES:

The following fatalities occurred during 1936.

Domenic Valela
Age 43

Cliffs-Shaft Mine, Acc. Rept. #1076
Occurred January 31, 1936
Fall of ground
Widow and three minor children
Compensation at \$18.00 per week
for 300 weeks.
Funeral Expense

5400.00 200.00 \$ 5600.00

Harry Edner Age 22 Canisteo Mine, Acc. Rept. #26
Occurred August 6, 1936
Run over by loaded railroad
car he was dropping from pocket.
Partially dependent father and
mother.
Compensation at \$9.00 per week
for 300 weeks.
Funeral Expense

2700.00 150.00 2850.00

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

			Date of	Date of
Mine	Name	Acc. Rept.	Accident	Final Payment
Lloyd	Joseph Bussone	766	1/27/31	10/26/36
Gen. Strhse.	George Culbert	50	3/22/31	12/20/36

YEAR 1936 PENSION DEPT. ANNUAL REPORT

11.

a. Workmen's Compensation (Continued)

Following is a list of the more serious cases occurring during 1936 other than fatalities:

Mine and Report No.	Name	Nature of Injury	Compensation Paid
Lloyd #781	Dominic Tasson, Sr.	Fractured 2 ribs. Collapse upper lobe of right lung. Fracture transverse process of two vertebrae.	180.00 *
Lloyd			
#783	Vincenzo Elverti	Abdominal squeeze. Shock pneumonia.	96.96 *
Maas			
#486	William H. Kempthorne	Loss of right eye due to blast.	900.00 *
Maas			
#491	Sam Finnila	Lacerations of both eyes. Useful vision of right eye destroyed.	450.00 *
Athens			
#342	John Paris	Contusion of back Partial numbness in both legs.	240.00 *
Maas Houses			
#4	Ole Kari	Severe sprain and dislocation of right ankle.	252,00 *

^{*} Payments are still being made.

a. WORKMEN'S COMPENSATION (Continued)

Compensation Payments including Medical Expense.

		Negaunee	Athens Ir.	Cliffs Pr.	Mesaba Cl.	Holman Cl.	Canisteo	Alexandria	
Year	C.C.I. Co.	Mine Co.	Mng. Co.	&Light Co.	Mng. Co.	Mng. Co.	Cl.Mng.Co.	Mine	TOTAL
1912	1073.81	105.08							1178.89
1913	13149.70	1152.87	27.15						14329.72
1914	27416.82	2840.13	446.63						30702.58
1915	15657.71	1699.28	656.07						18013.06
1916	32404.74	3496.75	672.29						36573.78
1917	45129.92	5301.30	911.46						51342.68
1918	43734.77	6198.93	1197.57						51131.27
1919	59417.51	11724.68	2234.77		263.00				73639.96
1920	59535.76	8888.01	2928.15		3057.46				74409.38
1921	59065.26	4709.80	5298.92		2953.08				71937.06
1922	56794.35	5283.24	2048.23		1866.67				65992.49
1923	57856.37	4142.00	5007.88		4874.48				71880.73
1924	56335.89	5487.07	6394.01		9408.59				77625.56
1925	49376.47	4464.79	8305.60		7316.55				69463.41
1926	51123.41	5433.85	7087.93	514.40	9537.84				73697.43
1927	86156.10	5311.69	5489.81	939.86	7147.98				105045.44
1928	87186.58	6532.66	6235.08	1331.30	4576.56	9.00			106371.18
1929	76959.01	8899.76	6303.92	1895.50	3557.86	292.83	4.50		97913.38
1930	76753.51	10603.63	5803.45	1930.48	2531.15	1236.18	1357.05	1993.76	102209.24
1931	75167.79	10723.30	5233.65	1867.50	1489.36	559.63	1346.64	1700.87	98088.74
1932	52920.75	12137.00	5012.72	1398.25	1336.00	33.75	65.50	1074.00	73972.97
1933	23425.69	9605.70	5298.56	993.45	2180.61			614.00	42128.01
1934	26672.34	7573.97	8429.38	468.46	2468.61				45612.76
1935	34874.17	6854.34	5154.12	218.75	3778.56				50879.94
1936	31597.79	7139.26	4588.74	438.50	3514.63				47278.92
						Business and the			2.210.00
Totals	\$ 1199796.22	156309.12	100676.09	12496.45	71858.99	2131.39	2768.69	5382.63	1551419.58

11.

a. WORKMEN'S COMPENSATION (Continued)

ANNUAL STATEMENT OF COMPENSATION PAYMENTS FROM JANUARY 1st, 1936 TO DECEMBER 31st, 1936

Compensation still pending 597	762.63 763.47 806.30 \$ 79832.40
10081	₩ 1300£.40
Less pending for years 1927 to 1935 inclusive Less medical paid on accidents occurring prior 469	988.31
[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[263.83
	47252.14
Cost of 1936 accidents	32580.26
Percentage of payrolls	.01161
Number of accidents on which compensation payments were made	37
Number of non-compensable accidents	5
Number of slight accidents which caused not over 1 day's lost ti	me 402

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

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

PENSION DEPT.

ANNUAL REPORT - YEAR 1936

STATEMENT OF COMPENSATION PAYMENTS FROM JANUARY 1, 1936 TO DECEMBER 31, 1936

	Average No. of Employes	No. of Fatal Accs.	Non-	of fatal	Actual Comp. Paid in 1 9 3 6	1926	1927	1928	1929	1930	1931	1952	1933	1934	1935	1936	Estimated Compen- sation still Pending	Medical & Special Expense	Fatal Cases Pending	Injury Cases Pendin
Cliffs Shaft Cliffs Shaft Laboratory Chief of Police	348 4 1	1	2	59	8520,66		1872.00				936.00	171.60		2272,96	2036.29	1231.61	18979,60	2146.50 21.50 6.00	5	4
District Welfare Employes Wood—Gwian District Gardner-Mackinaw General Storehouse General Welfare Geological Department	166 91 2 2			18 9	624.00 229.50 936.00						936.00	624.00			229.50		3324.00 35.36	24.00 19.00 1001.25 545.75 11.00 9.25		1 2
Gwinn Office Holmes	1			1123	904.80					904.80	The A						2644.80	6.00		1
Ishpeming Office	55		18	1														91.50		
Lloyd Maas Mechanical Engineering Mining Engineering Purchasting Department Safety Department Shipping Department Spies Virgil	193 363 2 7 4 1 6		8 8	1 74	5774.57 4428.38	401.35 269.35				1961.40	792,00 936,00			75.60	1971.33 1141.45	648.51 1986.00	5989.20 7022,00	1271.50 2241.38 15.00 41.00 23.00 5.50 35.50 272.08		5 5
Stephenson Tilden Workmen's Compensation Saranac Investigation Miscellaneous Uncompleted Const. E & A 689	53 2 2		1	2	879.67 936.00	182,00	697,67							936.00		252,00	3132,00	315.50 9.00 2.75 10.75	1	
				1 7						1			100			114.00		324.50		2.8
The Cliffs Power & Light Co.	49	5 10	1	1 7	114.00				1000	EST/6										1
The Negaunee Mine Company The Athens Iron Mining Co.	262 218		4 7	67	5568.51 3107.90			83.20	1872.00 936.00	1214,40	157.44			915.20 416.64	873.60 198.00	535.87 1359.60	9543.56 3466.88	1579.25 1480.84		7
Total - Michigan Mines	1850	1	31	2 356	32275.99	872.66	2569.67	83,20	2808,00	4080.60	3871.90	795.60		4616.40	6450.17	6127.79	54137.40	11509.30	6	32
Hibbing Office Holman Brown Canisteo Hill Trumbull	13 7 242 15	1	4	3 44 2	1037.64 679.99					679.99					402.80	634.84	2547.00 3079.07	78.50 40.00 1601.00 77.50	1 1	
Total - Minnesota Mines	275	1	4	3 46	1717.63	A E PULS	LA SE		Burli	679.99			41.013	M. Bart	402.80	634.84	5626.07	1797.00	2	
Total - All Mines	2125	2	35	5 402	33993.62	872,66	2569,67	83.20	2808.00	4760.59	3871.90	795,60	Se willy	4616.40	6852.97	6762.63	59763.47	13306.30	8	32

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

11.

a. Workmen's Compensation. (Continued)

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

a. Workmen's Compensation (Continued)

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.

) - y - y - y - y - y - y - y - y - y -	c.c.I.co.	C.P.&L.CO.	Negaunee Mine Co.	Athens Iron Mining Co.	Total
Premium earned Medical Expense	9197 .4 7 4014 .4 3	664.87 164.30	1564.67 814.99	1338.09 727.16	12765.10 5720.88
Cost to Company	13211.90	829.17	2379.66	2065.25	18485.98
Compensation paid by The Fidelity & Casualty Co. 1933	973.60	011 50	89.88		1063.48
1934 1935 1936	3479.60 2034.00 1750.05	811.52 757.12 757.12	386.68	24.01	4701.81 2791.12 2507.17
Total compensation payments	8237.25	2325.76	476.56	24.01	11063.58
Estimated deferred liability	3903.03	2242.24			6145.27
Cost of Accidents	12140.28	4568.00	476.56	24.01	17208.85
Premium earned as above					12765.10
Estimated loss to insurance Co	0.				4443.75

An award of 50% disability - \$5.80 per week was obtained in the Sidney Wales case, Spies Virgil Mine.

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 Payroll	Percentage of Compensable Accidents	Percentage of Men Paid Compensation
1912 (4 months)	.00648		
1913	.01104	42.88	8.06
1914	.0160	42.49	6.51
1915	.01095	36.26	6.63
1916	.01903	43.76	8.29
1917	.01268	41.71	7.84
1918	.01214	37.61	5.73
1919	.00901	48.71	8.15
1920	.0079	60.56	10.52
1921	.01444	64.53	9.79
1922	.01570	68.49	10.22
1923	.01590	61.67	10,23
1924	.01885	66.59	10.15
1925	.01613	69.61	10.19
1926	.07641	66.75	10.73
1927	.01356	68.24	6.55
1928	.01357	69.92	4.27
1929	.01616	74.12	3.02
1930	,01254	78.20	2.33
1931	.01697	89.28	1.11
1932	.01503	100.00	•71
1933 to 5/17/33	.01479	90.00	•60
1934 after 5/17/34	.02214	93.75	•90
1935	.01675	95.12	2.11
1936	.01161	88.01	1.74

11.

a. WORKMEN'S COMPENSATION (Continued)

There were no changes made in the Compensation Law of Michigan in 1936.

There was a complete change in the Department of Labor and Industry in the year 1935. The Board is now as follows:

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

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

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

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

	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
Mimimum weekly compensation	4.00	7.00	7.00	7.00
Waiting period	2 weeks	1 week	1 week	1 week
Waiting period picked up at end		τ		
of	8 weeks	6 weeks	6 weeks	6 weeks
Maximum payment	3000.00	4200.00	4200.00	5400.00
Maximum compensation for				
total disability	\$ 4000.00	6000.00	7000.00	9000.00

11.

a. WORKMEN'S COMPENSATION (Continued)

MINNESOTA COMPENSATION LAW.

There were no changes made in the Minnesota Compensation Law in 1936.

The present members of the commission are as follows:

F. T. Starkey,

Chairman.

J. D. Williams

N. H. Debel

E. C. Nelson, Secretary. Emily L. Olson, Assistant Secretary.

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

MINNESOTA LAW	When Law went into effect Oct.1,1913	As Amended April 26, 1919	As Amended June 6, 1921	In effect since Oct. 1, 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	2 weeks	1 week	1 week	1 week
Waiting period picked up				
at end of		1	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.

11.

GROUP INSURANCE.

The metter of group insurance having been favorably acted upon in Cleveland, representatives of the Metropolitan and Aetna Companies came here the first of October and arrangements made to present the group insurance plan to the men at all of the properties, which includes the mines in Michigan and Minnesota; the plan also includes the employees of the Land Department, the L. S. & I. Ry. Company, the Piqua-Munising Wood Products Company, and the coal docks at Green Bay and Escanaba. The representatives of the insurance companies visited the different properties and the men were wery enthusiastic about the acceptance of the plan. Arrangements covered the handling of premiums at each mine by the Mine Clerk, with reports to be made by them in the matter of claims, which will be handled by this department. Mr. Walter E. Johnson is in direct chafge of the claims and forms were adopted, in addition to those furnished by the insurance company, to provide for prompt reports from each property of the sickness of any employee which lasts over one week.

The men have been greatly benefitted by the weekly benefits in case of sickness and non-occupational accidents which have occurred since October first, the date on which the plan became effective. During this time the Mining Department has had one death, it being that of Mr. William R. Meyers, superintendent of the Maas Mine, who died in Louisville, Kentucky on December 25th, 1936, after having been under the care of Dr. Isaacs at Ann Arbor for some time. The matter of payments in this case has been taken up with the insurance company and arrangements are being made for monthly payments instead of it being paid in a lump sum. As soon as the details are arranged this will become effective.

The following statement shows the number of cases and the amount of money paid to our employees under the group insurance plan during the months of October, November and December.

	Octo	ober	No	ovember	Dece	nber	T	otal
	No. of Cases	Amount Paid	No. of	Amount Paid	No. of	Amount Paid	No. Case	
Cleveland-Cliffs Iron Co.,	4	97.71	10	630.00	10	668.85	24	1396.56
Negaunee Mine Co.,	1	4.00	4	44.00	2	50.00	7	98.00
Athens Iron Mining Co.,	1	4.00	8	183.15	2	120.00	11	307.15
Total	6	105.71	22	857.15	14	838.85	42	1801.71

23.

PENSION SYSTEM.

The year 1936 completed the twenty-eighth year of the operation of the pension system.

On January 1, 1933 the pension payments were reduced fifty per cent, those under \$20.00 remaining the same; those over \$20.00 having a minimum rate of \$20.00. The pensions continued during 1936 at the same rate.

No pensions were granted during the year:

The following Mining Department pensioners died during the year:

No.	Name	Date Pensioned	Date Died
166	Alphonse Pepin	1- 1-1924	9- 3-1936
171	John Asplund	5-1-11924	5- 2-1936
177	Thomas Creer	10- 1-1924	3-24-1936
181	John A. Peterson	1- 1-1925	3-27-1936
199	Chris Hanson	7- 1-1926	5- 3-1936
231	Victor Silas	8- 1-1928	4- 7-1936
232	Joseph Gaborie	10- 1-1928	9-23-1936
250	Isaac Hendrickson	12- 1-1930	8-23-1936
		1935	1936
Number (of pensions granted during	the year 0	0
Number	of deaths	10	8
Number (of Old Age pensions in for	ce Dec. 31, 84	76
	annual pension	\$ 284.33	\$ 286.08

There were no additions to the Furnace Department roll during 1936. There was one death, this being

			Date Pensioned	Date Died
No.	7	Louis DeVet	12- 1-1923	12-13-1936

On December 31, 1936 there were seven pensioners on the Furnace Department pension roll with an average annual pension of \$271.80.

23.

a. PENSION SYSTEM (Continued)

Pension payments for the years 1908 to 1936 inclusive are as follows:

Mining Department

	Year	Old Age	Widows and Orphans	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	3865.95	3113.00	6978.95
	1913	5133.62	3025.00	8158.62
	1914	6179.57	3403.00	9582.57
	1915	7910.35	2372.00	10282.35
	1916	8787.02	1694.00	10481.02
	1917	9327.22	1266.00	10593.22
	1918	8889.14	944.00	9833.14
	1919	9605.02	888,00	10493.02
	1920	12613.29	814.00	13427.29
	1921	21856.64	14.00	21870.64
	1922	29063.85	168.00	29231.85
	1923	29564.57	168.00	29732.57
	1924	31987.64	168.00	32155.64
	1925	34926.34	163.00	35089.34
	1926	38924.88	143.00	39067.88
	1927	45841.03	0.00	45841.03
	1928	51869.03	0.00	51869.03
	1929	52701.19	0.00	52701.19
	1930	53779.24	0.00	53779.24
	1931	56379.39	0.00	56379.39
	1932	40615,13	0.00	40615.13
	1933	30981.29	0.00	30981.29
	1934	28205.25	0.00	28205.25
	1935	24987.66	0.00	24987.66
	1936	22736.32	0.00	22736.32
		669738.46	22547.00	692285:46
	ment made by eveland Office			
in	1930	2500.00	and the same of th	2500.00
	\$	672238.46	22547.00	694785.46

23.

a, PENSION SYSTEM (Continued)

FURNACE DEPARTMENT.

The pension payments for the years 1910 to 1935 inclusive are as follows:

Year	01d Age	Widows and 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	0.00	130.55
1920	223.80	0.00	223.80
1921	781 +63	0.00	781.63
1922	1118.04	0.00	1118.04
1923	1178.38	0.00	1178.38
1924	2085.82	0.00	2085.82
1925	2833.39	0.00	2833.39
1926	5351.35	0.00	5351.35
1927	4819.73	0.00	4819.73
1928	5481.50	0.00	5481.50
1929	6137.02	0.00	6137.02
1930	6191.42	0.00	6191.42
1931	5531.30	0.00	5531.30
1932	3327.09	0.00	3327.09
1933	2528.04	0.00	2528.04
1934	2309.43	0.00	2309.43
1935	1930.54	0.00	1930.54
1936	1902.72	0.00	1902.72
	\$ 56120.10	\$ 900.00	\$ 57020.10

There was one death in the Furnace Department roll during the year;

				- 20		
7	_	44	-	-	-	n

No Name Date Pensioned Date Died

7 Louis DeVet 12-1-1923 12-13-1936

23.

a. PENSION SYSTEM (Continued)

REPUBLIC MINE

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

There are twelve pensioners on the roll, the average annual pension being \$297.55.

The payments made from October 1, 1920 to December 31, 1936, follow:

1920	278.61
1921	3427.97
1922	5672.84
	6641.51
1923	1370 M. (147 - 2014 M. 187 May 124 M. (158 M. 188 M. 1
1924	8172.96
1925	8279.07
1926	9539.90
1927	12185.24
1928	12768.21
1929	14199.74
1930	13148.40
1931	11809.51
1932	7673.30
1933	4908.04
1934	4400.52
1935	4160.52
1936	4031.36

\$ 131397.71

There were two deaths of Republic Mine pensioners during the year:

Pension				
No.	Name	Date	Pensioned	Date Died
8	Alphonse Veunn	6-	1-1921	7- 4-1936
20	Frank Pascoe	12-	1-1923	11-27-1936

LAND DEPARTMENT.

Erick Johnson continued on the pension roll during the year.
Total pension payments from January 1, 1927 to December 31, 1936, are as follows:

1927	333.36
1928	333.36
1929	333.36
1930	333.36
1931	333.36
1932	250.08
1933	240.00
1934	. 240.00
1935	240.00
1936	240.00

\$ 2876.88

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.

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

The funds turned over to the Red Cross were to be used for emergency relief and in accordance with this understanding some use has already been made of the funds. A new boiler was put in the hospital and for a time the school furnished the fuel and Dr. Van Riper made examinations of the school children at the hospital. Later the School Board was short of funds and during 1936 coal was furnished from the funds in the hands of the Red Cross.

YEAR 1936 PENSION DEPT. ANNUAL REPORT

b. REPUBLIC MINE FUNDS (Continued)

Republic Mine Relief and Sick Benefit Fund.

Miners' National Bank:	
Amount on Deposit Dec. 31, 1933	\$ 58.83
Distribution 1934 60% 35.30	
Distribution 1934 20% 11.77	
Distribution 1935 12% 7.35	54.42
Balance on old bank Dec. 31, 1935	4.41
Distribution 1936 7%	4.41
Balance in old bank Dec. 31, 1936	0.00
Miners' First National Bank:	
January 15th, 1934 60%	35.30
Interest for 1934	.79
Distribution 1934 20%	11.77
Interest for 1935	1.12
Distribution 1935 1236	7.35
Balance Dec. 31, 1935	56.33
Distribution 1936 71%	4.41
Interest for 1936	1.17
Balance December 31, 1936	\$ 61.91
Republic Mine Fatal Accident Fund. Miners' National Bank:	
Amount on Deposit December 31, 1933	169.32
Distribution 1934 60% 101.59	
Distribution 1934 20% 33.86	
Distribution 1935 121/2 21.17	156.62
Balance in old bank Dec. 31, 1935	12.70
2000	
Distribution 1936 7%	12.70
Balance in old bank Dec. 31, 1936	0.00
Miners' First National Bank:	
January 15th, 1934 60%	101.59
Interest for 1934	2.28
Distribution 1934 20%	33.86
Interest for 1935	3.24
Distribution 1935 125%	21.17
Tage check We 200 meth in 1075	162.14
Less check No. 370 paid in 1935 Balance on hand December 31, 1935	159.92
Distribution 1936 75%	12.70
Interest for 1936	3.36
Balance on hand December 31, 1936	\$ 175.98
Batance on mand because For, 1890	A T10.90

23.

c. Suspense Funds.

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

d. Visiting Nurses.

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

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

The following nurses were employed during the year:

Ishpeming - Miss Myrtle Welander. Negaunee - Miss Ina E. Atkin. Iron River - Miss Laura N. Fisk,

(Who is employed jointly with other companies).

23.

The following is	the	report of the	Ishpe	eming V	Visiting .	Nurse for t	he year 1936
Total number of pa	atie	nts cared for	durin	o vesi			712
Number of new case							290
Total number of v							4756
Number of familie				time			53
Number of social	00 page 10 7 70			. OTIMO			13
Number died							7
arou arou							
Classification	on o	f new cases f	or the	year:			
Number of adults		163	Male		18	Female	145
Number of children		127	Male		57	Female	70
Nationalities	s of	new cases fo	r the	year:			
American		215	Ital	ian			16
English		12	Norv	regian			1
Finnish	236	24	Swed	lish			13
French		9					
Diseases and	num	ber of new ca	ses:				
Asthma	3	Gall Bladde	r	2	Phlebit	is	1
Baby Welfare	8	Gall Stones		1	Pneumor	ia	4
Bowel Trouble	9	Gastritis		2	Post Or	erative	26
Bronchitis	10	Heart Troub	le	8	Prenata	1	26
Burns	4	Infants, Ne	wborn	21	Rheumat	ism	7
Carcinoma	1	Infections		28	Scarlet	Fever	1
Cervical Adenitis	2	Influenza		1	Sore Ey	res	1
Cold	26	Injury	175	20	Stomach	Trouble	9
Colitis	1	Jaundice		2	Thrombo	sis	1
Cystitis	1	Mastoditis	1 37 6	2	Tonsili	tis	3
Diabetic	2	Mumps		2	Typhoid	Fever	1
Dysentery	3	Neuritis		1	Unclass	ified	7
Fracture	4	Obstetrical		7	Undiagr	nosed	20
Frost Bites	1	Otitis Medi	8	5	Var. Ul	cer	6

Helped Dr. Erickson with 612 Typhoid inoculations at North Lake.

Visiting Nurse: Miss Myrtle Welander.

23.

		cared for during ye	ar		953
Number of new cas					548
Total number of v					4560
		ed for the first time	The second secon		16
Number of familie			ber of in	nvestigation calls	19
Number of familie		l 5 Pro	visions	5	
Number of social	calls				747
Number died					6
Classificati	on of ne	w cases for the year	ar:		
Number of adults	307	Male	83	Female	224
Number of childre	n 241	Male]	117	Female	124
		cases for the year			
American	25		talian		51
English			rwegian		1
Finnish	19		redish		22
French		8			
Diseases and	number	of new cases:			
Aenemia	5	Goitre	1	Pin Worms	1
Apoplexy	1	Grippe	23	Pleurisy	2
Appendicitis	31	Heart Trouble	6	Pneumonia	11
Asthma	4	Heat Stroke	1	Poisoning	4
Bowel Trouble	16	Herpes	1	Post Operative	86
Bronchitis	17	Infants, Newborn	16	Pregnancy	23
Burns	3	Infections	23	Pul. Tuberculosis	3
Carcinoma	1	Injury	52	Quincy	3
Cervical Adenitis		Insanity	2	Rheumatism	11
Chicken Pox	5	Intestinal Flu	8	Rupture	3
Cholecystitis	12	Kidney Trouble	6	Senility	3 2 2
Colic	2	Lumbago	2	Sore Eyes	
Croup	2	Mal-Nutrition	15	Sprains	8
Cystitis	1	Mastoditis	2	Stomach Trouble	9
Diabetes	4	Nephritis	1	Tonsilitis	28
Eczema	3	Obstetrical	22	Unclassified	5
Gastritis	1	Osteomylitis	1	Undiagnosed	1
Gen. Debility	7	Otitis Media	3	Var. Ulcer	4

Visiting Nurse: Miss Ina E. Atkin.

d. Visiting Nurses (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 Negaunce	712 953 1665	290 548 838	18 83 101	145 224 369	57 117 174	70 124 194
j e	Total No. of Visits	Number <u>Died</u>	Social Calls	L Fa	milies Visit First T	
Ishpeming Negaunee	4756 4560 9316	7 6 13	13 747 760		53 16 69	

NATIONALITIES OF CASES:

	American	English	Finnish	French
Ishpeming Negaunee	215 253 468	12 <u>17</u> 29	24 196 220	9 8 17
	Italian	Norwegian	Swedish	
Ishpeming Negaunee	16 51 67	$\frac{1}{\frac{1}{2}}$	13 <u>22</u> 35	

23.

f. North Lake Club.

The work of the Club has continued during the year under the supervision of Mr. Stakel. John A. Peterson has acted as Treasurer and Dewey Urquhart as Superintendent.

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

23.

g. GWINN ASSOCIATION.

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

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

Those employed at the mines have paid 50 cents per month and the School Board pays a substantial sum for the use of the building for its physical training and t e 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¢ per month, the Com pany paying an additional 25 cents.

23. Gwinn Association (Continued.)

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

MEMBERSHIP

Number on roll January, 1st, 1936	248
Number on roll January 1st, 1937	237
High membership for year - June	277
Low membership for year - November	233
Average monthly membership	249

No memberships were given this year for services in securing cord wood for fuel, as most of those accepting membership in this manner during the past two years are now employed.

ATTENDANCE.

The estimated attendance at the building showed a slight decrease over the previous year; no doubt due to the fact that the Gwinn district is now served with a Movie Picture Theatre and those desiring this form of entertainment attend. However, the attendance during the winter months continues about the same.

Total estimated attendance at building	67015
Average monthly attendance	5585
High monthly attendance - January	9300
Low monthly attendance - August	2850

The attendance for outdoor activities showed a slight decrease due to the fact that during the month of December the weather was too mild to construct the Ice Skating Rink and also to a falling off in the attendance at Bass Lake Camp, due mainly to the fact that many of the regular visitors could only attend on week-ends, as they are now employed.

14,780

SUMMARY - RECEIPTS AND EXPENDITURES

Taken from December Financial Statement

-	Total receipts including 1935 balance (\$1,239.25)	\$ 5,632.84
	Total expenditures 1936	4,244.81
	Balance January, 1937	1,388.03

BUFFET - BILLIARDS - BOWLING ACCOUNTS

ILLIANDS - BUNLING ACCOUNTS	
Receipts for year	642.09
Expenditures for year	259.48
Profit	\$ 382.67

23.

g. Gwinn Association (Continued)

GENERAL ACTIVITIES AND ORGANIZATIONS USING BUILDING.

- 15 general committee meetings
- 17 meetings 7 social 2 dances Town Club.
- 15 meetings Womens' Study Club.
- 2 High School parties 1 Hallowe'en 1 X-mas party- no dancing.
- 14 dancing parties during year by High School students.
- 4 dancing and cribbage parties by Married Folks.
- 28 dancing classes- 20 regular- 8 may pole- High School.
- 2 meetings Sportsmen's Association.
- 1 marriage shower by women.
- l meeting by Ex-Service Men.
- 17 night's play in men's cribbage league.
- 3 social dances by young people.
- 3 dances after basket-ball games.
- 2 dances by Girl Scout Troops to raise funds.
- 14 nights play in Women's Bridge League.
- 11 rehearsals by home talent plays and chorus.
- 8 meetings by women State Health lectures.
- 11 meetings c.C.I.Co., employees- 10 First Aid- 1 insurance.
- 91 lunches of dinners served by different organizations.
- 30 total number of dances heldb by different organizations during year.
- 178 sessions kindergarten school.

EVENTS OF SPECIAL INTEREST.

Annual Easter Monday Ball Annual Meeting of Managers Annual Junior Prom Party Annual Scout Ceremonial Annual Banquet for basketball team Annual Party for Scout Mothers Annual Dance to raise funds for children's Christmas treat Annual Hallowe'en Party for entire Junior High School Annual Card Party ro raise funds for Christmas treat Annual Christmas party- for grade students Annual Christmas party for children Annual Firemen's Ball

by Town Club.

Inter-County Amateur Baseball League. Junior Class High School. Local Scout Council and Troops. Town Club

Scout Troops.

Town Club.

Supervision of High School.

Gwinn Ladies Guild.

Supervision grade teachers.

Entire community. Local Firemen.

CHURCH ORGANIZATIONS USING BUILDING.

- 7 meetings by Gwinn Ladies Guild.
- 12 meetings by Methodist Ladies Aid.
- 2 rummage sales by Methodist Church.
- 11 meetings by Gwinn Missionary Society.

23.

Gwinn Association (Continued)

CHURCH ORGANIZATIONS USING BUILDING (Continued)

- 8 meetings and card parties by St. Anthony's Guild.
- 1 pot-luck supper by Catholic Church.
- 2 parties by Epworth League.
- 1 meeting by Swedish Church Gyild.

ASSOCIATION BAND.

The Association Band is still intact, although not holding rehearsals as often as in previous years. However, they will begin holding regular rehearsals for the 1937 summer season about April first. They had

- 18 rehearsals
- 1 out-of-town engagement
- 3 local concerts.

LIBRARY AND READING ROOM.

The Club library is again in fine condition, as all books were re-checked and those needing repairs were given attention during the month of December.

During the year eighty new books were added and twenty-two taken out as beyond repair.

The reading room is not used quite as much as when the men were unemployed but the Club continues to receive the better magazines, which are placed on the files and tables.

Weekly magazines	5	Daily newspapers 2
Monthly magazines	20	Weekly newspapers 2

SUPERVISED CARD PLAYING LEAGUE.

The cribbage league continues to interest many members. A six-team league consisting of 48 players completed their league schedule April 2nd and the championship team was given a banquet. The league is again organized for the coming season, the play starting in December and will continue until the first week in April.

The ladies are also organized for their bridge tournament, which will be held one afternoon each week until the first week in May.

During the year married couples inaugurated a combination cribbage and dancing parties. The first part of the evening was given over to the playing of cribbage and then dancing is enjoyed in the gymnasium. These affairs usually end with a lunch and those attending enjoy them very much.

23.

g. Gwinn Association (Continued)

BOWLING.

The Senior Men's League consisted of eight three-member teams and they all completed their schedule of 63 games. After the regular league schedule a tournament was held for team, doubles and singles events. The league is underway again this year and two new teams have been added.

The Women's League consisted of four three-member teams and they completed a schedule of 45 games.

As in other years, High School students are given instruction in bowling as part of their physical training program.

High School girls receive instruction in playing billiards.

PHYSICAL AND ATHLETIC DEPARTMENTS.

This includes all work done in the gymnasium and all outdoor recreations, such as-supervising work at school and other playgrounds; baseball league for adults, Junior Boys softball leagues, management of Association baseball team, ice skating rink, tennis and horse-shoe pitching courts, and supervision of Bass Lake cottage and grounds.

Employees of the Association continue to supervise the High School physical training program and to act as coach of their athletic teams. The Association furnishes most of the equipment to carry on the above work and also provides equipment for other activities where supervising work is done by other agencies.

Senior members makes use of the gymnasium facilities for volleyball, handball, and basketball. This year equipment has been ourchased for badminton, a fine indoor sport for the winter season.

Summary of Supervised Work: Gymnasium.

	Periods	Attendance
High School Girls' Classes	148	3206
High School Boys' Classes	170	3750
High School basketball practice	79	891
Junior Boys (Saturday mornings)	13	855
Senior men using gym	34	256
Women's classes	15	128
Total	459	9086

The following basketball games were played under Association supervision: High School team played 5 games at home - 9 away.

(High School team again won district championship)

Junior League games (including local tournament)
73 games
Senior League consisting of 4 teams
24 games
Senior League practice sessions
12 games.

Attendance at all home games and practice sessions 6000.

23.

g. Gwinn Association (Continued)

TENNIS COURT AND PLAYGROUND.

The tennis court was in condition for play 71 days - attendance at court 600. Attendance at playground . . . 1000. Horse-shoe pitching court 850.

ICE SKATING RINK

On account of the weather being too mild to construct the rink in December this year, two weeks skating was lost. Attendance for January and February 4125.

The Association supplied most of the equipment used at the three play-grounds, where some of the supervision was under WPA workers, but all organization details of forming leagues and the planning of activities was under Association direction.

The Association again sponsored and managed the Inter-County Amateur Baseball Keague through its ninth successful season. Eight teams from the larger cities and towns in Marquette and Alger counties make up the league. The increase in attendance at all games indicate the popularity of the circuit.

The Association Team entered in the league played 8 games at home and ten away-winning the championship for the third time since the league was organized.

SUMMARY OF PLAYGROUND ACTIVITIES.

BASS LAKE CAMP

The attendance att the camp grounds decreased somewhat during the season, due mostly to the fact that many of those that were regular visitors in other years are now employed and could only attend during Saturdays or Sundays.

There was an increase in the number of out-of-town people who visited the camp on Sundaysm bringing their own boats on trailers. Many of these visotirs were from Marquette and Escanaba. The men would fish while the women and children would enjoy the bathing.

The Cleveland-Cliffs Iron Company again arranged for a care-taker to look after the grounds, under Association direction.

During the year there were 60 basket picnics

3 all-day church picnics

1 party of six had use of cottage six days.

1 family had use of cottage seven days.

2 families had use of cottage 3 days.

Local Girl Scouts had use of camp 5 days.

Sunday School Class had use of camp 1 day.

Local Sportsmen's Association had use of cottage for annual rabbit supper.

23.

g. Gwinn Association (Continued)

SCOUT ACTIVITIES

During the year a troop of boy scouts was organized and this will fill a long-felt need. This troop will br brought up to full strength shortly after the first of the year. It is under capable leadership and no doubt they will have an active year.

The two troops of Girl Scouts continue as very successful organizations and a community the size of Gwinn should feel very proud of the fact that enough young girls are interested in scout work to have two active troops.

Troop No. 1 has been organized since 1920 and is usually kept at full strength while Troop No. 2 is made up of the younger girls and is used as a feeder troop for the older organization.

The following summary covers the work of all scout activities - both boys and girls.

- 21 lunches or suppers were held; this includes lunches after meetings indoors, or after hikes out-doors.
 - 2 all-day picnics at lake or park.
- 13 hikes.
- 11 meetings outdoors.
- 2 skating parties.
- 1 Christmas party for pre-school children.
- 6 social parties.
- 3 dances.
- 1 Valentine Party.
- 1 Hallowe'en party.
- 1 annual mothers' party.
- 1 annual ceremonial service awarding of merit badges.
- 26 scouts spent five days at Bass Lake Camp.

Scouts raise funds locally for their needs under the direction of the local council. The local council continue to assist in an advisory capacity and are to be complimented on the work of the scout activities in this district.

BUILDING.

During the year the Association received financial assistance or service from the Cliffs Power & Light Company, The Cleveland-Cliffs Iron Company, and the Local Board of Education. Those in charge realize that without this assistance the Club would be unable to operate and the members of the Association express appreciation for this assistance.

The building was again put in good condition during the summer months, all floors being re-varnished and waxed, and some re-decorating done. The club kitchen was re-modelled and new dishes, silverware, and stove purchased. Equipment was secured to keep all activities functioning and during the summer much time was spent on conditioning the grounds. During the coming year it will be necessary to overhaul some of the plumbing as indications are that some is in bad shape.

23.

g. Gwinn Association. (Continued)

On hand January 1, 1936	\$ 1,239.25
Total Receipts	4,393.59
Total	5,632.84
Total Expenditures	4,244.81
Balance	1,388.03
Rece ip	
Membership fees-Men	1,191.50
Rent	2,505.00
Bowling Alley	245.00
Pool and Billiards	205.00
Buffet	192.09
Towels and soap	17.00
Camp	25.00
Telephone	13.00
	\$4.393.59
Building, maintenance	141.39
Equipment	42.77
Lighting	18.33
Heating	358.56
Water	14.40
Bowling alleys	122.02
Pool and Billiards	11.87
Buffet	125.53
Stationery and Printing	10.00
Entertal nments	14.44
Towels and soap	8.50
Office Expense	18.93
Camp	9.31
Salaries	3,070.00
	31.10
Library	
	23.50
Reading Room	
Library Reading Room Athletics Music	23.50 143.02 21.29
Reading Room Athletics	23.50 143.02

23.

. ISHPEMING Y.M.C.A.

The building was closed on October 31, 1935, and has remained closed ever since, except that some relief workers occupied the building making garments for a short time, and at another time a prospecting party from Canada, looking for gold north of Ishpeming, occupied the building.

During the latter part of the year there was some consideration given to the matter of handling the building as a community enterprise and the city officials have the matter in mind at the end of the year.

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

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

Mi W. W. Grait

Mr. H. O. Moulton

Mr. C. W. Allen

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 Ishpeming and Iron River, and the dispensary service at Negaunee and Republic.

ISHPEMING HOSPITAL.

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

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

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

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

Dr. V. H. Vandeventer, Chief.

Dr. J. D. Crane,

Dr. P. P. Hartt

Dr. A. W. Erickson

Dr. W. A. Corcoran

Dr. D. R. MacIntyre

Dr. W. A. Mudge

Miss Hildur Swanson, Superintendent.

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 1936.

Number of patients remaining in hospital at beginn	ning of year	28
Number of adult patients admitted	936	
Number of child patients admitted	134	
Number of births	184	
Total new patients for the year		1254
Total of all patients for the year		1282
Number of deaths	74	
Number discharged during year	1174	
Total number leaving hospital		1248
Number of patients remaining in hospital Dec. 31,	1936	34
Classification of new cases:		
Surgical	601	
Medical	276	
Obstetrical	193	
New Born	184	
Total		1254
Number of operations		459
Number of emergency room operations		59
Number of patient days		13915
Number of meals for patients	41745	
Number of meals for nurses, Superintendent & Dieti		
Number of meals for physicians and guests	189	
Number of meals for help	5546	
Total number of meals		67129
Average number of patients per day:		
1919 12.2		
1920 17.6		

1919	12.2
1920	17.6
1921	15.9
1922	16.5
1923	20.1
1924	20.5
1925	19.9
1926	21.3
1927	21.8
1928	25.4
1929	30.1
1930	31.4
1931	29.9
1932	21.8
1933	19.6
1934	28.9
1935	36.0
1936	38.0

23.

j. HOSPITAIS, (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 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 he 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.

Early in the spring of 1936 it was found that the Gardner-Mackinaw mine would be quite busy throughout the year and it was decided to have our own physician in charge of our work. Arrangements were made with Dr. C.A. Serbst, who had for some time been in charge of a group of C.C. Camps in Wisconsin. Dr. Serbst began his work for us at Gwinn on May first. All hospital cases are brought to the Ishpeming Hospital, and his services and the work at Gwinn has been very satisfactory.

IRON RIVER.

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

PAYMENTS TO PHYSICIANS.

For reference purposes the following statement is made:

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

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

23.

j. Medical Services (Continued)

PHYSICAL EXAMINATION OF EMPLOYEES.

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

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

A new arrangement was entered into in regard to the re-examinations of the men, which began on November 1st, 1935 and continued through the year 1936. On account of the new men who were being taken on it was found necessary to continue the examinations with the help of the Saranac man and Mr. Libby, therefore, stayed on from November 1st until the end of the year, as a part of the new agreement.

The following examinations have been made up to December 31st, 1936 -

Cheveland-Cliffs Iron Co.,	2537
Cliffs Power & Light Co.,	42
Athens Mine	459
Negaunee Mine	588
Inland Steel Co.,	676
Pickands, Mather Co.,	72
Richmond Iron Co.,	37
Republic Steel Co	313
Calumet & Hecla Co	19
North Range Mining Co.,	213
Total	4956

Mr. D. E. Cummings who was constantly at work and was going from one district to another, became used up and it was necessary for him to take a rest and to save him being connected directly with the Saranac Institution where he would have this work in mind all the time he was sent to a sanatorium at Englewood, just outside of Denver, Colorado. This was early in February of 1936 and he has remained there through out the year and has improved to a considerable degree, and it is expected that by June he will be able to leave the sanatorium and take up some of his work.

During the year we have had a visit from Dr. L. U. Gardner and Dr. H. L. Sampson and later on in the year we had another visit from Dr. Gardner.

The films of each case are sent to Saranac where they are studied by Dr. Sampson, who then reports his findings to us. These reports are gone over by us with Mr. Libby, and the superintendents at the different mines are advised

23.

j. Medical Services (Continued)

PHYSICAL EXAMINATION OF EMPLOYEES (Continued)
of the condition of any man requiring further consideration or examination.

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

k. Health.

All of our cities have been free from any serious epidemic or general illness until late in the year at which time there was a great deal of "flu" accompanied with many cases of pneumonia. This has continued through December without any let-up, but at the time of writing this report there were indications that this was lessening.

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

Following the organization of the new City Council in April Dr. N.J. McCann was appointed city Health Officer in place of Dr. J. P. Bertucci. His work during the year has been very satisfactory.

The Health Officers are

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

23.

1. RED CROSS.

There was no change in officers in 1936, the officers remaining the same as were elected in October 1934.

Chairman:

T. M. Redmond

Vice-Chairmen:

Marquette-

E. L. Pearce

Miss Elba L. Morse

Negaunee:

G. Sherman Collins

Michael F. DeFant

Ishpeming:

R. J. Chenneour

G. R. Jackson

Secretary: Treasurer: John Walsh

Edward S. Bice

Directors for Three Years

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

Directors for Two Years

Webster Pearce Marquette
W. W. Graff Negaunee
George Quinnell Marquette

Miss Stella Fuller Morgan Heights

C. J. Stakel

Nor th Lake

Directors for One Year.

Peter Trudell Negaunee

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

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

Number of schools in County	33
Number of schools examined	33
Number of children	1933
Number of Children Found with Defects:	
Eyes	105
Teeth	1763
Tonsils	195
Ears	4
Orthopedic Defects	2070
Number of Corrections made by Parents:	
Eyes	2
Teeth	4
Tonsils	2 8
Number of Days Spent at Clinics.	
Preschool & Infant	2
Psychiatric	4
Chest	1
Eyes	$\frac{6}{13}$
	13
Children Cared for at Summer Dental Clinic	
Number of Children	735
Number of Extractions	823
Number of Fillings	858
No. Children having glasses from Children's Fund	39
Number of Children and Adults taken to	
Hospitals. Schools. and Health Camp. Orthopedic cases adult & children to hospitals	s 49
Children to Deaf School - Flint	7
Children to Blind School - Lansing	2
Michigan Children's Clinic - Marquette	56
Children to Nutrition Camp - Big Bay	4
Children to Morgan Heights	3
Children to Ann Arbor	ı
Adult to County Infirmary	1
AUUI O OOUI V III III AI V	

YEAR 1936. PENSION DEPT. ANNUAL REPORT

23. 1. Red Cross (Continued)

Report of Nurse (Continued)

Investigations Made.	
For County	130
Home Calls	958
Red Cross	2
	1090
Meetings Attended	
District Nurses Meetings	11
Social Workers Conference	2
Teacher's Conference	1
Red Cross	2
Achievement Day	1
State Supervisor of Nurses	1
County Educational	2
Dental & Medical	2
	2 2 22

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	Negaunee	Republic	Gwinn	Total
January	218.93	261.20	19.23	59.69	659.05
February	276.97	159.74	38.99	88.59	565.29
March	286.28	168.70	18.57	42.46	516.01
April	437.99	130.01	32.22	81.69	681.91
May	254.05	74.25	21.05	51.34	400.69
June	360.53	75.35	19.60	40.46	495.94
July	381.03	59.72	177.41	63.09	681.25
August	252.96	92.49	34.91	51.94	432.30
September	269.38	60.70	27.54	52.04	409.66
October	264.95	75.51	28.81	63.41	432.68
November	295.41	103.45	50.65	89.46	538.97
December	285.95	82.60	41.09	156.53	566.17
	3648 • 43	1343.72	510.07	840.70	6378.92
No. of famil	lies				
assisted		15	3	5	54

Average amount of relief per family \$ 118.13

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.

o. 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:

DONATIONS TO INCAPACITATED EMPLOYEES.

j	Monthly Rate	Total Amount	[1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
	for 1936	during	1936
Fred Fredette	20,00	240.00	
Sam Metherell	14.40	172.80	
August Samuelson	20.00	240.00	
John Aho	14.40	172.80	
Bennett Andrew	16.00	192.00	
indrew Niemi	16.60	199.20	
Edmond Durante	20.00	240,00	
August Walline	20.00	240.00	
xel Erickson	20.00	240.00	
dward Van Langenhoven	20.00	240.00	
Nick Detoma	18.00	216.00	
dwin J. Goodman	20.00	240.00	
Henry Maki	20.00	240.00	
Oonato Valenzio	20.00	240.00	
William Anderson	20.00	240.00	
red Carlson	16.00	192.00	
Toseph Thomas	75.00	900.00	
J. H. Tregoning	100.00	700.00	Began June 1, 193
. J. Yungbluth	100.00	200.00	Began Nov. 1, 193
Total		\$ 5344.80	

HOLMES MINE DONATIONS.

Peter Lesage	20.00	240.00
Carl Jarvinen	16.99	203.88
Bernt Wiggen	20.00	240.00
Martin Trondson	20.00	240.00
Evan Kinnish	20.00	240.00

\$ 1163.88

23.

• INCAPACITATED EMPLOYEES (Continued)

DONATIONS TO WIDOWS.

		Monthly Rate for Year 1936	Total amount Paid during 1936
Mrs.	John Makela	20.00	240.00
Mrs.	Wilhelmina Marjamaa	12.00	144.00
Mrs.	Mathilda Carlson	12.00	144.00
			\$ 528.00

Amount of Donations paid to Incapacitated Employees during 1936	\$ 5344.88
Amount of Donations paid to Incapacitated Holmes Mine Employees	1163.88
Amount of Donations paid to Widows during 1936	528.00
Total Donations	\$ 7036.76

23.

p. COST OF LIVING.

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

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

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

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

June	1913	\$ 692.56
June	1914	706.17
June	1917	1006.79
June	1920	1408.65
June	1921	1054,28
June	1924	1015.83
Dec.	1925	1049.16
Oct.	1931	910.82
Dec.	1932	752.52
Dec.	1933	757.89
Dec.	1934	801.94
Dec.	1935	870.82
Dec.	1936	874.90

The Government reports show that the index number for the cost of living in November 1936 as compared with 1914 is 138.29. This compares with 130.49 for November 1934.

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

Our index figure for the cost of living in Ishpeming in November 1936 as compared with 1914 is 123.89.

The value of \$1.00 as compared with 1914 by the U.S. Tables in November 1936 was 72.25. Our living costs in Ishpeming for November 1936 give us the value of \$1.00 as compared with 1914 as 80.72.

q. IMPROVEMENT WORK.

Mr. Payen returned to Ishpeming in July and looked after our work at the different properties throughout the remainder of the season. No new work was undertaken but the different locations were brought in good shape with his assistance. The superintendents had looked after the work themselves during the time Mr. Payen was away from Ishpeming, and all properties were kept in good order under their supervision.

23.

r. PRIZE PREMISES

No prizes were offered for the season of 1936 but the home owners and occupants continued to interest themselves in good home conditions and the grounds of the Ishgeming homes showed their usual excellence.

In Munising the interest in the improvement of home grounds continued and prizes were offered for the season of 1936.

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

We assisted the Committee and the judges during the season.

s. COMMUNITY SERVICE WORK.

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

t. CLUBS.

There have been no general meetings of the regular clubs during the year but meetings have been held of the different groups from the mines for the consideration of mine matters.

u. OUT-DOOR SPORTS.

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

The hill has been improved and the grounds arranged for the better parking of cars, the Ski Club being assisted by WPA work. The Association of the business men became interested, largely through the efforts of the Mather Inn, for a winter carnival to be held during the week of the ski tournament in February 1936, and this worked out very satisfactorily, both in regard to the ski tournament, and the general ski riding, bob-sledding, skating, etc., There were a great many out-of-town visitors during this week.

The Association, in connection with the Upper Peninsula Development Bureau, and the Chicago and Northwestern Railroad, has been at work arranging for week-end excursions from Chicago and Milwaukee and before the end of December a good many people had already come to Ishpeming. It is expected with the increase in snow there will be a great many visitors throughout the remainder of the winter.

23.

W. VARIOUS DEPARTMENTS.

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

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

In view of the change in the operation of the Furnace Department, to the Cliffs Dow Chamical Company, no report of that department is now attached.

23.

w. VARIOUS DEPARTMENTS (Continued)

LAKE SUPERIOR & ISHPEMING RAILROAD CO., COMPARATIVE STATEMENT OF GENERAL WELFARE EXPENSE. YEARS 1933 to 1936, INCLUSIVE.

Donations: Fire Department	1933 25.00	1934 25,00	1935 25.00	1936 25.00
Visiting Nurse- Marquette	120.00	120.00	120.00	120.00
To employees and femilies	203.40	20.00	140.00	769.25
Boy and Girl Scouts- Munising			140.00	25.00
St. Luke's Hospital	400.00	400.00	200.00	
\$	748 - 40	565.00	485.00	939.25
Pensions				
	2207.88	3479.28	3443.28	3998.40
Total \$	2956.28	4044.28	3928.28	4937.65
Compensation				
Compensation Paid \$	2548.30	2938.18	990.00	1034.00
Medical Expense	763.05	251.94	317.16	541.11
Percentage of Payrolls				
Acct. Comp. Payments	.0049	.0052	.0015	.0014

23.

w. Various Departments.

LAND DEPARTMENT

COMPARATIVE STATEMENT OF GENERAL WELFARE EXPENSE

FOR THE YEARS 1933 to 1936, INCLUSIVE.

General Welfare Acct. No. 11. A-2 Prop. Charged by Treas. 11-F Miscellaneous Expense	$\begin{array}{r} 1933 \\ 323.01 \\ 246.51 \\ \hline 569.52 \end{array}$	1934 540.50 240.00 780.00	1935 677.60 240.00 917.60	1936 500.00 240.00 740.00
Donations				7.50
Negaunee Fire Department Munising Fire Department	10.00	10.00	10.00	10.00
U.P. Development Bureau	500.00	500.00	500.00	500.00
Christmas Presents to School	300.00	300.00	300.00	500.00
Children - Logging Operations	28.18 538.18	22.23 532.23	19.82	517.50
Compensation a. Funeral Expense d. Legal Expense				
g. Medical Expense			4	
h. Compensation i. Monthly Payments to Doctors	86.00	95,50	101.50	100.50
Safety Work - Logging Operations Supplies	23.27	14.56	33.62	11.72
Compensation - Logging Operations.				
Medical & Hospital	4103.12	5147.41	4626.05	6206.50
Compensation Payments	5620.88	4660.84	7831.50	8914.40
Compensation Insurance Premium	7116.76	4916.77	* *	**
Percentage of Pay-Roll	.0891	.04987	.0398	.0446

