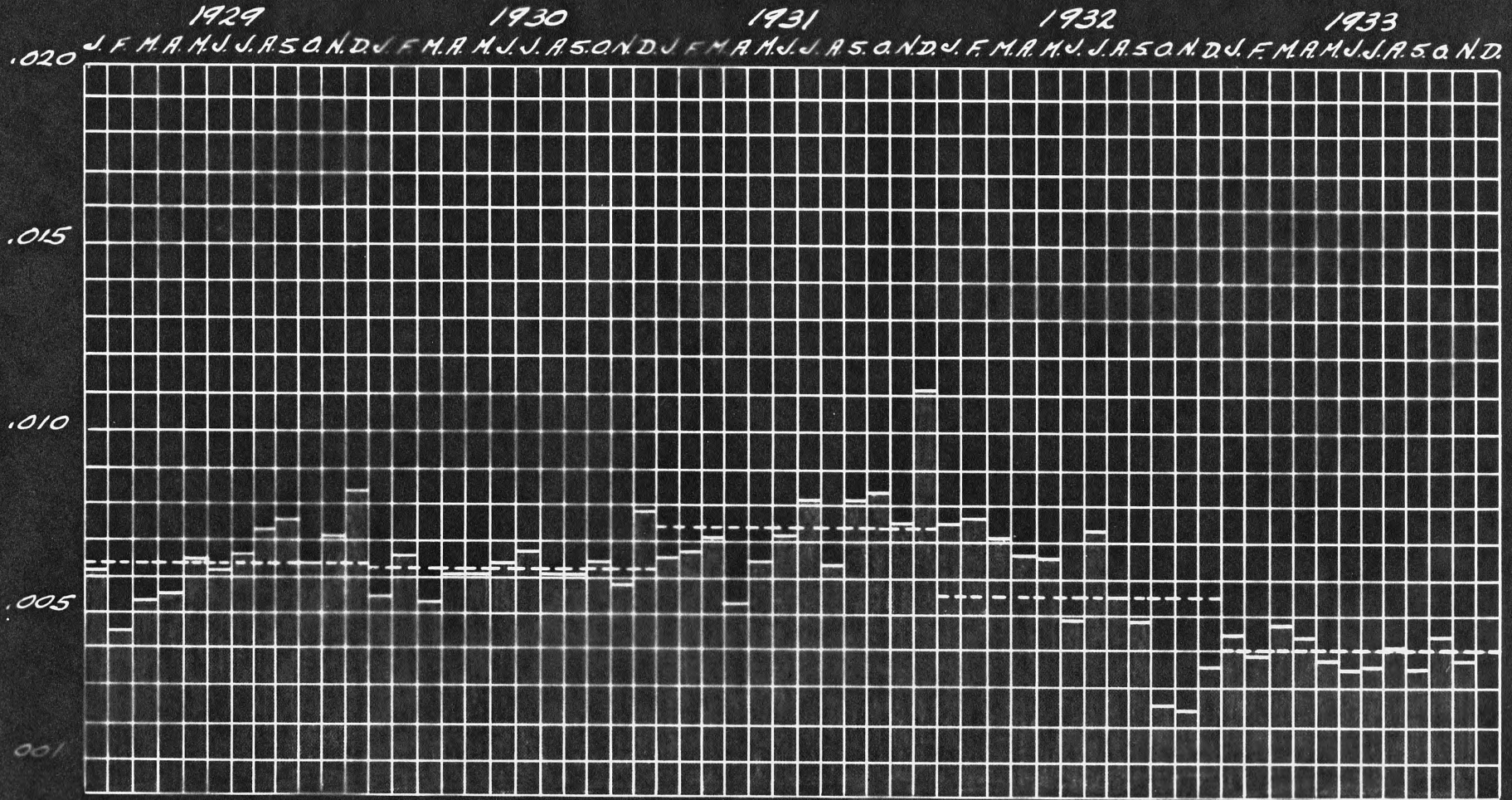


MECHANICAL DEPARTMENT
ANNUAL REPORT
YEAR 1933

COST DIAGRAM



Safety Department

Annual Report

Year 1933

11. ACCIDENTS
AND
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INJURY

a. Fatal Accidents

The Mining Department suffered the loss of two employees in a single accident. A record of 27 continuous months, exempt from a fatality, had been established when this regrettable accident occurred.

Description of Double Fatality

John Niemi and Leo Field were buried under a stockpile cave at the Maas Mine at 12:10 P.M., October 27th. There were four to five railway cars of ore in the slide, the weight of which was sufficient to cause instant death.

On the day of this accident, a shovel crew was loading ore at the last high cut in the southeast stockpile. This ore was stocked four or five years ago, and when loading was in progress, the top portion frequently hung up which involved danger to the pit men who worked ahead of the shovel. Several caves had occurred prior to this accident, and blasting the high bank was the method pursued to eliminate the hazard and also to expedite the loading of the ore.

Shortly before the accident, Niemi, an experienced miner, reported to the shovel runner to ascertain if it would be necessary to drill and blast the pile. He found that he was expected to do so and therefore proceeded to get his equipment ready to drill and blast during the noon hour. At 12:00 o'clock the shovel was moved back 25 feet from the loading face of the stockpile. The shovel runner instructed a member of the pit crew, Leo Field, to assist Niemi. The other members of the shovel crew went to dinner but the runner and fireman retired together in the boiler section of the shovel for this purpose. They heard the machine when drilling was started, but shortly afterwards the fireman called attention to the runner that there was no sound of drilling. On investigation they saw that the top of the pile had caved, burying both men under a heavy blanket of ore. As it was noon hour, there were many miners in the dryhouse, who were summoned immediately to the rescue work, which was supervised by the mining captain. An hour of very intensive labor passed before the bodies were extracted from beneath the heavy slide of ore.

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11. ACCIDENTS AND PERSONAL INJURY

a. Fatal Accidents (Continued)

The weather was extremely cold and a strong wind blowing from the northwest was laden with snow. Steam and smoke from the shovel, together with the snow, enveloped the situation, and a frozen layer of ore which incrustated the outer side of the pile may have given the two men a feeling of security which they would not have felt under normal working conditions. It was the duty of Field to watch the pile and warn Niemi if signs of an impending cave arose.

Although our Company had never sustained a fatality by a stockpile cave prior to this accident, it was decided a safer method of operation must be pursued in the future. With this object in view, pipes will be suspended beneath trestle floors through which it will be possible to blast overhanging piles. The accident was classified as preventable.

b. Non-Fatal Accidents

A total of 15 lost-time accidents, other than fatalities, occurred at the mines during the year. Surface operations were responsible for ten, five of which were in connection with shovel loading. The others occurred underground. Five accidents were slight, causing injuries that entailed a loss of 3½ to 12 days each; ten being more serious, resulting in a loss of 36 days or more per accident. There was no partial or permanent injury.

Herewith is a brief review of these accidents:

<u>Mine</u>	<u>No. of Accidents</u>	<u>Description</u>
Athens	1	1. Slipped and fell, striking his side against a truck.
Canisteeo Cliffs	3	1. Hand dragged in between belt and conveyor while applying dressing. 2. Fell five feet, over rocky track bench; failed to use stairway. 3. Sprained back as he lifted a heavy casting.

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11. ACCIDENTS
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INJURYb. Non-Fatal Accidents (Continued)

<u>Mine</u>	<u>No. of Accidents</u>	<u>Description</u>
Cliffs Shaft	2	<ol style="list-style-type: none"> 1. Cleaning pipe compartment in shaft; mud splashed in his eye. 2. Loading car at chute and chunk of ore fell on his foot.
Drew	2	<ol style="list-style-type: none"> 1. Driving spike and steel splinter struck his hand. 2. Shovel dipper lifting big rock loosened another rock which rolled on his foot.
Maas	2	<ol style="list-style-type: none"> 1. Working in raise; small chunk of ore fell from back of cribbing striking his foot. 2. Drilling breast and chunk of ore fell, striking his thumb.
Negaunee	2	<ol style="list-style-type: none"> 1. Removing tie from circular saw; it fell on his foot. 2. Cleaning raise which had been idle; collar collapsed and he fell 20 feet.
Spies Virgil	2	<ol style="list-style-type: none"> 1. Pulling long stringer away from stockpile; his foot was caught between stringer and chunk of ore. 2. Sampling ore; fell off railroad car.
Laboratory	1	<ol style="list-style-type: none"> 1. Cleaning rolling machine; his finger caught in rolls.

The Tilden, Gardner-Mackinaw and Lloyd Mines and The Cliffs Power & Light Company have perfect records for the year.

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11. ACCIDENTS
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INJURYc. Accident StatisticsTABLE INumber of Days of Labor Performed and Number of Men
Killed and Injured at all U.S. Mines and Company's Mines

Year	Days of Labor		Number Killed		Number Injured	
	U. S.	Company	U.S.	Company	U.S.	Company
1927	34,160,978	590,753	352	4	25,133	211
1928	32,803,610	535,121	273	4	22,483	123
1929	34,618,120	600,003	350	4	23,092	85
1930	27,869,982	767,945	271	5	15,594	82
1931	18,721,486	495,412	158	3	8,709	27
1932		189,101		0		9
1933		189,200#		2		17

Approximate figure

TABLE IIFatality and Injury Rates per Thousand 300-day Workers,
U. S. Mines and Company's Mines

Year	Fatality Rate		Injury Rate	
	U. S.	Company	U.S.	Company
1927	3.10	2.02	221.54	107.15
1928	2.50	2.24	205.61	58.91
1929	3.03	2.00	200.11	42.50
1930	2.92	1.95	167.86	32.05
1931	2.53	1.82	139.56	14.59
1932		0.00		14.27
1933		3.17		27.00
Average	2.80	1.95	192.28	49.53

Note: 1932 and 1933 statistics for U.S. Mines not available.

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TABLE III

Classification of Fatal Accidents 1911 to 1933 inclusive
By the Central Safety Committee

I	Trade Risks.....		107
II	Negligence of the Company.....		
	Violation of Rules.....	4	
	Failure to Provide Safety Devices.....	4	
	Improper Method of Doing Work.....	9	
	Failure to Provide Tools or Safe Place to Work	3	
	Failure to Instruct Men.....	<u>3</u>	23
III	<u>Negligence of Workmen:</u>		
A	Injured Men.....		
	Improper Method of Work.....	10	
	Violation of Rules.....	7	
	Carelessness.....	6	
	Failure to Use Tools or Appliances Provided...	4	
	Failure to Use Safety Device.....	<u>1</u>	28
B	<u>Other Workmen:</u>		
	Improper Method of Work.....	9	
	Violation of Rules.....	4	
	Carelessness.....	3	
	Failure to Use Tools or Appliances Provided...	<u>1</u>	17
	Total.....		175

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11. ACCIDENTS
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TABLE IV

Classification of Causes of Fatal AccidentsFrom December 1st, 1898 to December 31st, 1933

A	Fall of Ground or Timber.....	92	
	Run of Mud or Sand.....	60	
	Fall of Chunk or Ore from Chute.....	2	
	Stray Chunk or Stick down Raise or Stope.....	<u>3</u>	157
B	<u>Shaft Accidents:</u>		
	Falling down shaft.....	14	
	Rock or Timber falling down shaft.....	2	
	Struck or caught by Cage, Skip, Bucket or Tool.....	8	
	Falling from Cage, Skip or Bucket.....	11	
	Falling from Ladder in Shaft.....	5	
	Carried or pushed into Shaft by car.....	3	
	Jumping on or off Cage, Skip or Bucket.....	3	
	Struck by Crosshead.....	<u>5</u>	51
C	<u>Use of Explosives:</u>		
	Explosion of Powder.....	16	
	Premature Blast.....	3	
	Fall of Ground or Timber Due to a Blast.....	4	
	Overcome by Gas.....	3	
	Miscellaneous Causes.....	<u>1</u>	27
D	<u>Mine and Railroad Cars:</u>		
	Caught by Haulage Cars.....	12	
	Riding or attempting to ride Cars.....	6	
	Falling with Car from Trestle.....	4	
	Run over by Railroad Car.....	6	
	Miscellaneous Causes.....	<u>1</u>	29
E	<u>Miscellaneous Causes:</u>		
	Falling in Raise or Pocket.....	7	
	Contact with Electric Wire.....	7	
	Falling from Ladder, Stage or Trestle.....	6	
	By Moving Machinery.....	4	
	Mine Fires.....	3	
	Stockpile Slide.....	2	
	Miscellaneous Causes.....	<u>3</u>	32
	Total.....		296

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TABLE V

Classification of all Accidents 1933
By the Central Safety Committee

I	Trade Risk. (Incidental & Non-Preventable).....	4	
II	<u>Negligence of Company:</u>		
	1. Failure to use Safety Devices Provided.....	0	
	2. Failure to use Proper Tools or Appliances Provided.....	0	
	3. Violation of Rules.....	0	
	4. Improper Act or Selection of Improper Method of Doing Work (By Foreman).....	3	
	5. Failure to Instruct Men as to Method of Doing Work and Hazards Incident thereto.....	1	
	6. Failure to Provide Safety Devices.....	0	
	7. Failure to Provide Proper Tools, Appliances or Place of Work.....	1	5
III			
A	<u>Negligence of Workmen:</u>		
	1. Failed to use Safety Device Provided.....	1	
	2. Failed to use Proper Appliances or Tools Provided.....	1	
	3. Violation of Rules.....	0	
	4. Improper Act or Selection of Improper Method of Doing Work (By Foreman).....	5	7
III			
B	<u>Other Workmen:</u>		
	1. Failed to use Safety Devices Provided.....	0	
	2. Failed to use Proper Appliances or Tools Provided.....	0	
	3. Violation of Rules.....	0	
	4. Improper Act or Selection of Improper Method of Doing Work (By Foreman).....	1	1
	TOTAL.....		17

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c. Safety Inspection

The local mines were inspected regularly throughout the year with the exception of July and August months. Shafts, pits and caves of all abandoned properties were made in safe condition during April and May. No inspections were made by special committees, although Messrs. McClure, Graff and Conibear investigated the sinking equipment being used in the Lloyd Mine shaft.

Central Safety Committee

This Committee held a session on December 29th, its only meeting for the year.

Safety Inspection Reports

The various reports and the number of them which were made at the mines and checked by the Safety Department are listed as follows:

TABLE VI

Hoisting Cables.....	284
Ladderways.....	156
Skip and Cage Roads.....	168
Cage Catches.....	38
Hoists.....	89
Fire Doors.....	24
Fire Equipment.....	66
Electrical Equipment.....	4
Mine Rescue Equipment.....	9
	858

Safety Standards

No new standards were adopted nor were changes made in those being enforced.

Safety Conferences

The foremen of the several districts met in conferences in January and December for the review of safety standards and a discussion of the elimination of waste.

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11. ACCIDENTS
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INJURYd. First Aid Training

No first aid training was given during the year. We are well qualified in having many employees at all of our mines to render efficient first aid work in case of accidents.

e. Mine Rescue Training and Equipment

Mine rescue teams were trained monthly during the first quarter of the year and the apparatus was kept in good condition throughout the year.

The Company's Central Station for this equipment has been a room in the Laboratory building at the Cliffs Shaft Mine. This room was added to the Laboratory and a vacant building at the Hard Ore shops has been repaired and is now maintained for this purpose.

f. Ventilation

Equipment for taking air samples and determining the number of dust particles contained therein was received the latter part of December. A laboratory for counting the particles was placed in the Engineering Office. A few samples of underground air were taken at the Cliffs Shaft and Negaunee Mines and dust counts were made of the same. The data obtained are too limited to draw any conclusions as to the future of this investigation.

g. Employees' RepresentationMichigan

The first election of Employees' Representatives under the Company's Representation Plan was held at its mines in Marquette County on July 14, 1933. Nominations were voted on July 11, with 328 employees voting. Mine Representatives were elected, with a total vote of 296. The election results were as follows:

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11. ACCIDENTS
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INJURYg. Employees' Representation (Continued)

<u>Mine</u>	<u>Representative</u>	<u>Occupation</u>	<u>Residence</u>
Cliffs Shaft	John Gray	Watchman	Ishpeming
Lloyd	Peter Delongchamp		South Greenwood
Tilden	Edward Maloney	Shovel runner	Ishpeming
Athens	Albert Willett	Pumpman	Negaunee
Negaunee	Enoch Vincent	Pumpman	Negaunee
Maas	Henry Houseman	Miner	Negaunee
Maas	Adolph Stark		Negaunee
Gardner-Mack- inaw	W. H. Mathews		Gwinn
C.P.& L.Co.	E.W.Skytta	Operator	Marquette

Ernest Keast, Assistant to Mr. McClure; John Nicholas, Captain of the Tilden Mine, and William Conibear were appointed the Management's Representative Committee. The latter was also appointed the Management's Representative.

These Representatives held their first meeting on July 20, at the Athens Mine, and elected a General Committee, consisting of John Gray, Chairman, Henry Houseman, Vice Chairman and Peter Delongchamp, Secretary.

The Joint Committee, which comprises these two Committees, held its first meeting on September 25 and organized by selecting Ernest Keast for Chairman and John Gray for Secretary.

Meetings of the Employees General Committee and the Joint Committee were held in accordance with Rules 2 and 3, Section VII of the Representation Plan and minutes of the same were sent to the Company's Manager.

The average cost per meeting of the Employees' Representatives was \$7.63, of which \$7.08 represents wages and \$.55 traveling expenses. The members of the Management's Committee are men who are paid salaries.

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g. Employees' Representation (Continued)

Minnesota

The Drew Mine election was held on August 30th and resulted in the designation of Ed. Arko and George Dunstan for Representatives who are also the members of the Employees General Committee. Capt. Thomas Wivell was appointed to act as the Employer's Committee and Mr. Barber is officiating as the Employer's Representative.

This General Committee held a meeting in October, and as operations were suspended later no more meetings were held.

An election was held at the Canisteo Mine on August 2nd, after which the Employees' General Committee was organized with A. W. Jenkins, Chairman; J. C. Martin, Vice Chairman, and Elmer Robinson, Secretary. The members of the Management's Committee are W. A. Sterling, Supt., M. E. Gaffney, Mechanic Foreman, and James Wivell, Washing Plant Foreman. The Joint Committee's members are James Wivell, Chairman, Elmer Robinson, Vice Chairman, and A. W. Jenkins, Secretary. H. C. Balthouse, Supt., was appointed Employer's Representative.

The General Committee of the Canisteo Mine held a meeting in September and one in October. The Joint Committee met in October. Work was discontinued in December and no more meetings were held.

h. Department Expense

Salaries	\$ 1,118.19
Auto Expense	113.04
Insurance	2.70
Supplies	9.19
Telephone & Telegraph	32.69
General-Unclassified	29.23
Total	<u>\$ 1,295.04</u>

Respectfully submitted,

William Coultas
Assistant Superintendent

**21. ANNUAL REPORT OF THE MINING ENGINEERING DEPARTMENT FOR THE YEAR ENDING
DECEMBER 31, 1933**

Accompanying this report are the usual books of photographic maps, showing the work done at the various mines during 1933. These books are loose-leaf, with paper covers, and contain maps, sections, etc., of the various mines. They are prepared for the different companies interested in the various mines, and are listed below:

Company	Mines
Cleveland-Cliffs Iron Co.,	Athens, Canisteco-Cliffs, Cliffs Shaft, Drew, Lloyd, Maas, Mackinaw-Gardner, Negaunee, Spies Virgil and Tilden.
Bethlehem Steel Corp.,	Negaunee,
Hanna Ore Mining Company	Canisteco-Cliffs,
Inland Steel Company	Canisteco-Cliffs,
Jones & Laughlin Ore Company	Canisteco-Cliffs,
Otis Steel Company	Canisteco-Cliffs,
Pickands, Mather & Co.,	Athens
Pittsburgh Steel Company	Canisteco-Cliffs,
Republic Steel Corp.,	Canisteco-Cliffs,
Wheeling Steel Corp.,	Canisteco-Cliffs,

Two copies of the Cleveland-Cliffs Iron Company book have been prepared, one for the Cleveland office and one for the Ishpeming office. One copy of each of the other books has been made.

Besides the above books, the following have also been prepared for fee owners and Superintendents:

Person	Mines
E.C. Congdon, fee owner	Canisteco-Cliffs,
M. H. Barber, Superintendent	Canisteco-Cliffs,
C. J. Stakel, Superintendent	Cliffs Shaft,
H. C. Bolthouse, Superintendent	Canisteco-Cliffs,
W. R. Meyers, Superintendent	Maas,
W. W. Graff, Superintendent	Athens, Negaunee,

Only a few maps and sections were photographed this year, most of the maps used were photographed in 1931 and the extensions posted to the end of 1933. Next year it will be necessary to make new plates of all the maps used during the coming year.

B. MAP REPORTS

The following Map reports were made during the year:

ATHENS MINE

Maps of the Athens Mine sub-levels, showing work done during January, February, March and December, were sent to the Cleveland office for the Pickands Mather & Company. The Mine was idle between April 8th and November 15th.

MAAS MINE

Maps of the underground workings in the Roman Catholic cemetery were sent to Mr. R. S. Archibald, Negaunee, Engineer in charge, for January, February, and March. Since April 8th no mining has been done in this part of the Mine.

NEGAUNEE MINE

Fourteen sets of the Annual report prints of the twelfth and thirteenth levels of the Negaunee Mine were sent to the Cleveland office at the end of the year for the fee owners. The Mine was idle between April 8th and November 15th.

SPIES VIRGIL MINE

Five sets of the underground workings of the Virgil property were sent for the first quarter of the year. The mine has been idle since April 8th. Maps of the operations on the Sherwood property were sent to Mr. J. E. Nelson, Negaunee, and the Duluth office of Republic Steel Corporation, for the months of July and August.

MACKINAW MINE

One set of maps were sent to the lessors for the first quarter of the year.

MICHIGAN STATE TAX COMMISSION

The usual set of maps and estimates of ore reserves of the operating Michigan Mines, were prepared and sent to the Michigan State Tax Commission. The estimates of ore reserves were approved by the various Superintendents and for the most part consisted of deducting 1932 production from 1931 estimates. In a few cases there was a partial re-estimate, due to development work during 1932, i.e., Spies Virgil Mine between the 6th and 8th Levels, and below the 7th Level at the Mackinaw

MESABA CLIFFS MINING COMPANY

During April, seven books of annual report maps were prepared at the request of the Cleveland office. These books were for the partners in the organization of the Mesaba-Cliffs Mining Company and covered those mines in which the various companies had not been previously interested. The following table shows the books prepared:

Company	Mines
Hanna Ore Mining Company	Canisteco-Cliffs, Hill Trumbull,
Inland Steel Company	Canisteco-Cliffs, Hill Trumbull,
Jones & Laughlin Ore Company	Canisteco-Cliffs, Hill Trumbull, Holman-Cliffs
Otis Steel Company	Canisteco-Cliffs, Holman-Cliffs
Pittsburgh Steel Company	Canisteco-Cliffs,
Republic Steel Corporation	Canisteco-Cliffs, Holman-Cliffs,
Wheeling Steel Company	Canisteco-Cliffs.

C. REMARKS ON ABSTRACTS AND MISCELLANEOUS DOCUMENTS.

The various documents affecting the company's lands and holdings pass through the Engineering Department for a matter of record and approval. The following table shows the number that were entered on the records during the year. Copies of some of the documents have been placed on file in the Department.

	NUMBER RECEIVED	LAST FILE NUMBER
Mining Leases	2	68
Miscellaneous Documents	15	1214
Easements	3	378
Rights-of-Way	0	219
Water rights	1	58
Surface Leases	223	3718
Applications for Sale	5	129
Sales	72	618
Tax Histories	135	702
Legal Opinions	0	193

The following comments relate to the various papers placed on the records of the Department:

MINING LEASES

The two mining leases are as follows:

- #67 - Morris Mine, from The Cleveland-Cliffs Iron Company to the Inland Steel Co.
- #68 - Ravenna Mine, Hanna Ore Mining Co. to The Cleveland-Cliffs Iron Company.

The following mining leases were surrendered or transferred during the year:

- #33 - Erickson Lease, transferred to the Hanna Ore Mining Company.
- #48 - Wade Mine, surrendered to fee owners.
- #64 - Dean Mine, surrendered to fee owners.

The Prickett Lease was acquired with the Ravenna Lease and was surrendered as of January 1, 1933.

MISCELLANEOUS DOCUMENTS

Five of the documents are in connection with the surrender of the Crosby, Wade and Prickett Leases, six more are Right-of-Way for highways, transmission lines, etc., and the balance miscellaneous rights granted. All of these refer only to Mining Department lands.

EASEMENTS

These are transmission line Rights-of-Way acquired by the Cliffs Power & Light Company. Two of them cover new lines to the gold mine territory north of Ishpeming, and the other is on the Munising-Inland Quarry line, across lands where title has changed.

WATER RIGHTS

This right covers new drainage ditch at the Morris Mine. There were also several documents regarding the Spies Mine water discharged across adjacent lands. These were not listed separately but were filed with the original permit.

SURFACE LEASES

These leases originate in the Land Department and cover all sorts of permits for use of Company lands, farm, garden, residence, camping, etc., and are submitted for approval of the Mining Department.

APPLICATIONS FOR SALE

These applications were submitted by the Land Department for approval of the Mining Department and covered lands off the mineralized areas.

SALES

These also were submitted by the Land Department for approval. Twenty three sales covered dwellings, etc.; nine for timber cutting; eleven highway rights of way; three electric line rights of way; and the balance were farm lands off the mineral formation.

TAX HISTORIES

All the tax histories received and placed on file during the year came from the files of the Legal Department, where they had been used in connection with transmission line rights of way for the Cliffs Power & Light Company. As these rights had all been settled as far as these particular lands are concerned, the histories were deposited for filing in the Engineering Department. Five histories were in Marquette County lands, seven in Alger County and the balance in Schoolcraft County.

ABSTRACTS

Very little work was done during the year on the various abstracts of title on Company lands. What work was done merely consisted in making memorandums of various documents passing through the office.

There is a great deal of work necessary to bring our abstracts up to date, and this work should be undertaken very soon as there are many questions that are referred to this office that cannot be answered, owing to incomplete information.

TAXES

The usual tax lists of Mining Department and Cliffs Power & Light Company lands for the payment of 1933 taxes, were prepared during October and November.

D. THE FORCE

The curtailment in mining operations continued into 1933 and at the end of April, the remaining two of the force were temporarily laid off. One returned in July, the other came back in November with two additional men who were in the Department until June 1932.

The following table shows the personnel of the Department during the year:

NAME	POSITION	EMPLOYED	DATE LAID OFF	REEMPLOYED	1933 TERM OF EMPLOYMENT
R.J.Chenneour	Engineer		April 30	Nov. 20	5½ months
H.O.Moulton	"		April 30	June 21	10½ "
C.W.Allen	"			Nov. 20	1½ "
E.A.Allen	Helper			Nov. 20	1½ "
G.Afuhs	Draftsman	Jan. 23	April 22		3 "
E.Decaire, Jr.	Helper	Jan. 13	Jan. 19		½ "

The following table shows the length of service in the Department of those employed at the end of the year:

NAME	DATE ENTERED	YEARS	REMARKS (Unemployed between dates)
R.J.Chenneour	Jan. 1903	31	May 1 to Nov. 20, 1933
H. O. Moulton	April, 1910	22½	June 15, 1931 to June 1, 1932 (1) May 1, 1932 to June 21, 1933
C. W. Allen	June 1925	7	June 1, 1932 to Nov. 20, 1933
E. A. Allen	Sept. 1931	7/8	June 1, 1932 to Nov. 20, 1933

- (1) Efficiency engineer in Negaunee & Ishpeming Districts between these dates.
 (2) Transferred from Geological Department in 1931. During 1933 worked as helper intermittently prior to Nov. 20th.

The following table shows the total working days, days worked, days of sickness and vacation for all men in the Department during the year. Sundays and Holidays are not included:

NAME	WORKING DAYS	DAYS WORKED	DAYS OVERTIME	DAYS SICK	DAYS ABSENT
C. Brewer	275½	257	4	7½	13
R. J. Chenneour	120	121	1½	0	½
H. O. Moulton	236	239	5	0	2
C. W. Allen	30½	31½	1	0	0
E. A. Allen	105	105	0	0	0
G. Afuhs	69	69	0	0	0
E. Decaire, Jr.	5½	5½	0	0	0

The next table shows the distribution of time spent underground, in the field or office during the year:

NAME	UNDERGROUND	FIELD	OFFICE	TOTAL
C. Brewer	23	60	174	257
R. J. Chenneour	31	13	77	121
H. O. Moulton	52½	68½	120	241
C. W. Allen	12	19½	19	31½
E. A. Allen	16	57½	31½	105
G. Afuhs	0	0	69	69
E. Decaire, Jr.	0	0	5½	5½
TOTAL	134½	199½	496	830
%	16.2%	24.0%	59.8%	100%

The force has been so reduced during the year that except for specific duties of looking after the underground surveys at the various mines, each man has done his share of the general work of the Department. The following brief summary of the work done by each member of the force covers only his specific duty or special work done during the year.

Carl Brewer, Chief Mining Engineer, had charge of the office and exercised general supervision over all the work in the Department. All documents referred to the Department were passed upon, placed on the records, etc., by him. He compiled the annual map reports and estimates and maps for the Michigan State Tax Commission. Until the mines closed in April, he looked after the underground surveys at the Spies-Virgil and Lloyd Mines. During May and June, when he was alone in the Department, he gave lines, etc., for the development work on the 5th Level Maas Mine. He prepared books of annual report maps and sections of the Mesaba Range properties for the partners in the new set up of the Mesaba Cliffs Mining Company.

The following table shows the distribution of his time for the year:

PROPERTY	UNDERGROUND	FIELD	OFFICE	TOTAL	PERCENT
Athens Mine	2	5	7	14	5.4
Cliffs Shaft Mine	4	14	19	37	14.4
Lloyd Mine	3	8	15	26	10.1
Maas Mine	6	10	10	26	10.1
Mackinaw-Gardner Mine	2	3	5	10	3.9
Morris Mine	-	3	6	9	3.5
Negaunee Mine	1	7	5	13	5.0
Spies Virgil Mine	5	2	15	22	8.5
Cliffs Power & Light Co.	-	5	5	10	3.9
Miscellaneous	-	3	87	93	35.2
TOTAL	23	60	174	257	100
%	8.9%	23.4%	67.7%	100%	

Reginald J. Cheneour, was not in the Department between May 1st and November 20th. He looked after the regular engineering work at the Cliffs Shaft Mine during the time it was in operation and at the Athens Mine until it was closed on April 8, and at the Lloyd Mine during November and December. During the latter part of April he was at the Algoma Steel plant making the stockpile survey. He worked with the Mechanical Department in straightening the counterweight pipe in "A" Shaft, Cliffs Shaft Mine, plumbing with two lines to determine the distance and direction to move the pipe. Part of his time in December was spent designing a chute for the 5th Level plat, Lloyd Mine.

The following table shows the distribution of his time for the portion of the year he was employed:

PROPERTY	UNDERGROUND	FIELD	OFFICE	TOTAL	PERCENT
Athens Mine	8	1	14½	23½	19.4
Cliffs Shaft Mine	19½	4	42	65½	54.1
Lloyd Mine	2½	1	12	15½	12.8
Maas Mine	1	1	1	3	2.4
Mackinaw Gardner Mine			1	1	.9
Negaunee Mine			2	2	1.6
Miscellaneous		6	4½	10½	8.8
TOTAL	31	13	77	121	100
%	25.6%	10.7%	63.7%	100%	

Henry O. Moulton was in the Department most of the year, being laid off between May 1st and June 21st. He took care of the engineering work at the Maas and Negaunee Mines during their operating periods. During the summer and fall he was chiefly engaged on the stockpile surveys, both in the field and office. He was on the Algoma Steel Corporation stockpile survey in April, and also did some survey work at the Company's coal dock at Green Bay. He supervised the blasting at the Tilden Mine, locating holes, calculating powder charges and loading the holes.

The following table shows the division of his time for the year:

PROPERTY	UNDERGROUND	FIELD	OFFICE	TOTAL	%
Athens Mine	-	8½	8	16½	6.8
Cliffs Shaft Mine	7	6½	6	19½	8.1
Lloyd Mine	2	4	11	17	7.1
Maas Mine	29	15	51	95	39.4
Mackinaw Gardner Mine	-	3	3	6	2.5
Morris Mine	-	3½	4½	8	3.3
Negaunee Mine	11½	7	27½	46	19.2
Spies Virgil Mine	3	1	-	4	1.6
Tilden Mine	-	8½	2	10½	4.4
Cliffs Power & Light Co.	-	3	-	3	1.2
Miscellaneous	-	8½	7	15½	6.4
TOTAL	52½	68½	120	241	100
%	21.8%	28.4%	49.8%	100%	

C. W. Allen returned to the Department on November 21st, after an absence since June 1st, 1932. During the remainder of November he assisted in the office work of plotting and calculating the stockpile estimates and factors. During December he had charge of the engineering work at the Athens and Mackinaw Gardner Mines.

The following table shows the distribution of his time for the last six weeks of the year:

PROPERTY	UNDERGROUND	FIELD	OFFICE	TOTAL	%
Athens Mine	7	½	9	16½	52.4
Lloyd Mine	-	-	½	½	1.6
Maas Mine	-	-	½	½	1.6
Mackinaw Gardner Mine	3½	-	7½	11	34.9
Negaunee Mine	1½	-	1½	3	9.5
TOTAL	12	½	19	31½	100
%	38.1%	1.6%	60.3%	100%	

Ernest A. Allen was employed as helper during the summer and fall on field and underground surveys on a day rate and on November 21st went on full time. In the office he has looked after the automobiles of the Department, done all the blue printing, etc. He spent three days in August and September at the Spies Virgil Mine testing dip and course of the drill holes, as they were finished, on the Sherwood property for the Republic Steel Corporation. This work was done under the direction of the Geological Department.

The following table shows the distribution of his time for the last seven months of the year:

PROPERTY	UNDERGROUND	FIELD	OFFICE	TOTAL	%
Athens Mine	1½	6	5	12½	12.0
Cliffs Shaft Mine	-	9½	7	16½	15.7
Lloyd Mine	-	8½	2½	11	10.5
Maas Mine	8½	12	7	27½	26.2
Mackinaw Gardner Mine	2	3	1½	6½	6.2
Morris Mine	-	2	1	3	2.9
Negaunee Mine	-	7½	6	13½	12.7
Spies Virgil Mine	4	1	½	5½	5.2
Tilden Mine	-	3	-	3	2.9
Cliffs Power & Light Co.	-	5	-	5	4.7
Miscellaneous	-	-	1	1	1.0
TOTAL	16	57½	31½	105	100
%	15.2%	54.8%	30.0%	100%	

Gustav Afuhs was employed as draftsman during the early part of the year to make tracings of the various maps and sections of the Morris Mine for the Inland Steel Company at their expense.

Ernest Decaire, Jr., was employed a few days in January to assist in printing Annual Report maps.

E. DISTRIBUTION OF TIME

The following table shows the distribution of time spent underground, in the field and office for the various properties, of the entire force

PROPERTY	UNDERGROUND	FIELD	OFFICE	TOTAL	PERCENT
Athens Mine	18½	21	43½	83	10.0
Cliffs Shaft Mine	30½	34	74	138½	16.7
Lloyd Mine	7½	21½	41	70	8.4
Maas Mine	44½	38	69½	152	18.3
Mackinaw Mine	7½	9	18	34½	4.2
Morris Mine	-	8½	80½	89	10.7
Negaunee Mine	14	21½	42	77½	9.3
Spies Virgil Mine	12	4	15½	31½	3.8
Tilden Mine	-	11½	2	13½	1.6
Cliffs Power & Light	-	13	5	18	2.2
Miscellaneous	-	17½	105	122	14.8
TOTAL	134½	199½	496	830	100
%	16.2%	24.0%	59.8%	100%	

F. COSTS

The following table shows the comparison of costs of the Engineering Department for the last three years:

	1931	1932	1933
Salaries	\$ 22,115.20	\$ 7,841.96	\$ 3,279.59
Auto Expense	571.71	439.77	348.16
Furniture & Fixtures	47.05		
Heat, Light & Power	30.67	14.98	28.25
Insurance	223.66	228.40	206.09
Janitor & Cleaning	1.83		
Postage	11.00	12.18	13.63
Repairs	5.66	5.07	
Stationery & Printing	281.43	59.87	8.55
Supplies	1,070.14	82.00	157.35
Taxes	52.37	43.97	40.75
Travel & Entertainment	191.11		
Telephone & Telegraph	175.42	102.73	45.60
Papers & Publications	8.35	1.67	
General-Unclassified	204.14	195.39	18.11
TOTAL	\$ 24,989.74	\$ 9,027.99	\$ 4,146.08

H. AUTOMOBILES

The Ford Sedan and Ford Station Wagon owned by the Department continued to give good service during the year. The following mileage was covered by these two cars, total miles to December 31st and date received:

CAR	MILES		DATE RECEIVED
	1933	TOTAL	
Sedan	5,774	26,430	July 9, 1930
Station Wagon	2,123	17,197	Nov.10, 1930

I. MINES

The following is a somewhat detailed description of the special work that was done at the various properties during the year:

GENERAL

Every working place in the soft ore mines was visited every week while the mines were operating, by the engineer in charge, and many places were visited oftener. In the Cliffs Shaft and Spies Virgil Mines places were visited once a month. Monthly map reports showing work done were prepared for the General Superintendent and Mine Superintendents. All operating shaft compartments were gauged during November and December.

ATHENS MINE

Underground: - Surveys were run into the development sub-levels just under the 4th Level along the south footwall above the 6th Level. Lines were given for the ventilation drift on the 550' sub-level and raise between the 6th and 4th Levels.

Surface: - Levels were run on the iron pins across the Athens property to determine evidence of settlement and found no change over last year.

CLIFFS SHAFT MINE

Underground: - The counterweight compartment of "A" shaft was plumbed for straightening the counterweight pipe.

Surface: - The rock trestle for waste from the picking belt was designed and staked out in the field.

LLOYD MINE

Underground: - The shaft raise from the 6th to the 4th Levels was plumbed before holing and afterward lines and elevations were given for stripping down the full size shaft and for cutting out the 5th Level plat and pocket.

Surface: - The vicinity of the shaft was contoured and mapped for possible location of proposed office, shop and dry building.

MAAS MINE

Underground: - Lines were given for the development work on the 4th and 5th Levels as were required during the year.

Surface: - Contours and estimates were made for the extension of stocking ground south of the steel trestle, and grade stakes set.

MACKINAW MINE

Underground: - Lines were given for extending the incline shaft below the 8th Level.

NEGAUNEE MINE

Surface: - Proposed rock trestle northeast of #3 shaft was staked out in the field.

SPIES VIRGIL MINE

Underground: - The -25, 000, - 25 and -50' sub-Levels were surveyed in March. The Sherwood drifts and drill holes were surveyed in August.

TILDEN MINE

Surface: - The churn drill holes were located and the crests of the cuts after the blasts in both pits were surveyed.

CLIFFS POWER & LIGHT CO.

The location of the transmission line from the Barnes-Hecker shaft to the Michigan Gold Mine was staked out in the field. This line was 1-1/3 miles long.

J. MISCELLANEOUSSTOCKPILE SURVEYS

Early in the summer it was decided to secure new factors of cubic feet per ton from stockpile shipments. As there would not be any additional ore stocked during the shipping season, it was a good opportunity to obtain new factors. Various grades of ore and piles were selected and surveyed by

cross-sectioning early in the season and again later towards the close of the shipping season. The following factors were obtained from the tonnages given:

GRADE	NEW FACTOR	OLD FACTOR	TONS SHIPPED
Athens - South Trestle	13.36	14.00	60,468
North "	12.41	14.00	78,779
Average	12.82	14.00	139,247
Cliffs Shaft & Bancroft Lump	14.46	14.23	103,418
Cliffs Shaft Crushed	12.77	13.34	33,277
Lloydale and Lloyd	13.85	14.00	166,225
Maas Bessemer	14.53	13.25	33,712
Mackinaw	14.636	14.50	69,443
Negaunee	12.97	13.75	272,589

The results obtained were not very satisfactory, and there is no explanation for the discrepancies.

These surveys, both the field work and the office plotting and calculations, occupied practically the entire time of the Department, during the summer and late into the fall. Additional surveys were made of other piles for the usual report of the Department on ore in stock near the end of the shipping season. The new factors were used for these estimates.

At the Athens, Cliffs Shaft, Maas, Mackinaw and Negaunee Mines, permanent base lines with iron pins were placed to facilitate future stockpile cross-sections for estimates. Maps were made of each stocking ground and where they could be surveyed, the floor contours were mapped.

JONES & LAUGHLIN ORE COMPANY STOCKPILE LEASES

During June surveys were run on the Maas and Morris grade stockpiles to determine areas containing 116,000 and 60,000 tons respectively. Maps and descriptions were prepared of these areas, and sent to the Cleveland office.

BUCK WAREHOUSE COMPANY STOCKPILE LEASES

During November certain areas of the Cliffs Shaft Mine stockpile, containing Cliffs Shaft grade ore, both lump and crushed, and also areas of the Lloyd Mine stockpile grounds, containing Lloydale grade ore, were staked out in the field and descriptions and maps prepared for the Buck Warehouse Company. Later in the month all these areas were enlarged and new descriptions and maps prepared.

ALGOMA STEEL CORPORATION STOCKPILE SURVEYS

During April the annual surveys of the Company's ore in stock at the Algoma Steel plant, Sault Ste. Marie, Ontario, were made and the tonnage reported to the Cleveland office.

OFFICE HOURS

The office hours were changed on September 13th to conform to the National Recovery Act, as follows

	Monday to Friday, Inc.		Saturday
	A. M.	P. M.	A.M.
Old office hours	8:00 to 12:00	1:00 to 5:00	8:00 to 12:00
New " "	8:30 to 12:00	1:00 to 4:45	8:30 to 12:15

Carl Brewer

CHIEF MINING ENGINEER

PENSION DEPT. ANNUAL REPORT YEAR 1933.

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

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

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

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

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

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

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

Early in the year an investigation was made into the matter of compensation insurance and several meetings were held with Mr. M. L. Sherwood of Detroit, and officials of the Fidelity and Casualty Company of New York, and members of the Milwaukee office. Mr. S. B. Corr, Examiner for the Milwaukee office, has spent considerable time in going over our accident statistics.

It was decided to insure the risk for the compensation payments but for the Company to take care of medical. This arrangement went into effect on May 17th, 1933.

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

PETER VENN - REPUBLIC MINE - Acc. Rep. #572.

On April 8, 1921, Venn suffered a slight eye injury which occasioned the loss of but 2 and $\frac{1}{2}$ working days. He remained at work at the Republic mine for about two years and then obtained work with the Ford Motor Company at Iron Mountain and was still employed by them at the time of the hearing. His case came on for hearing before a Deputy Commissioner on March 16, 1933 and it was his claim that in October 1932 he discovered that he had lost the sight of one eye and he attributed the loss to the injury which occurred on April 8, 1921. Following an adverse decision, Venn took his case to the Full Board who also ruled against him following a hearing held on June 8th.

PENSION DEPT. ANNUAL REPORT YEAR 1933.11.
a. Workmen's Compensation (Continued)JOHN SCANLON - ATHENS MINE - ACC. REPT. #248.

Scanlon's right thigh was fractured in an accident which occurred on September 10th, 1925. Following an eight month disability he returned to work on May 3rd, 1926. He was given light work for a short time and then returned to his regular occupation as a timber trammer and continued at this work for six years until the mine closed in the spring of 1932, when he was laid off with others in the general lay-off. He was not employed when the mine re-opened in the fall of 1932 and early in 1933 he filed a petition for compensation, said petition coming on for hearing before a Deputy Commissioner on March 17th, 1933. When the plaintiff's testimony was all in, the Deputy Commissioner advised us it would not be necessary for us to introduce any testimony as the plaintiff had failed to establish a case.

PHILIP JOSEPH - MORRIS-LLOYD MINE - Acc. Rept. #764

His injury was a fractured metatarsal bone, which occurred on December 15th, 1930, and he was paid compensation up to February 1, 1931. His first petition for additional compensation was heard on November 15, 1932, and was disallowed and he did not appeal. He again petitioned for further compensation and this second petition was heard on September 21, 1933. His petition was again disallowed by the Deputy Commissioner and then he appealed. The Full Board heard his case on October 31st. Reversing the decision of both deputies, the Full Board allowed him \$9.00 per week for partial disability from November 15, 1932.

We felt that an appeal to the Supreme Court would be useless as there were no legal points involved and the Supreme Court has repeatedly ruled that the Full Board is the trier of facts, and decisions of theirs based on facts will not be disturbed if there is some testimony to support their decision.

MIKE AIRAUDI - NEGAUNEE Mine - ACC. REPT. #564.

Airaudi was injured on April 5, 1928, suffering crushed ribs and a broken arm when he was caught between a car and the side of the drift. He is being paid \$5.80 per week for partial disability. He was laid off when the mine closed in April 1933 and following his lay-off refused to accept his compensation checks, claiming he was entitled to full compensation as long as he was not working. He petitioned for a hearing which was held on December 29th. He had just gotten out of jail after serving a 60-day sentence for assaulting his wife and he claimed he had been unable to prepare for his hearing, so he was allowed a 30-day extension, he, in the mean-time to accept the checks we had been holding, such acceptance not to affect his rights. It is probable that if either he or his son is given work nothing further will be heard from this case.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

11. a. Workmen's Compensation (Continued)

FATALITIES.

The following fatalities occurred during the year 1933. These fatalities occurred after we came under the insurance plan and payments are being made by The Fidelity & Casualty Company of New York.

<u>John Niemi</u> Age 50 years	<u>Maas Mine, Accident Report No. 468</u> Date of accident - October 27, 1933 Caught by caving stock pile. Dependent wife and one child. Compensation at \$16.00 per week for 300 weeks 4800.00 Funeral expense 200.00 <u>\$ 5000.00</u>
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<u>Leo Field</u> Age 31 years	<u>Maas Mine, Accident Report No. 469</u> Date of Accident - October 27, 1933 Caught by caving stock pile. Dependent wife and two children Compensation at \$12.80 per week for 300 weeks 3840.00 Funeral expense 200.00 <u>\$ 4040.00</u>
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Payment on account of the following fatal cases were completed during the year:

<u>Mine</u>	<u>Name</u>	<u>Acc. Rept. No.</u>	<u>Date of Accident</u>	<u>Date of Final Payment.</u>
Morris-Lloyd	John Niemi	728	4/13/27	1/10/33
Stephenson	Lorenzo Delbello	790	6/20/27	3/20/33
Negaumee	Eugene Laneville	589	6/20/30	8/10/33

The completion of payments in the Niemi and Delbello cases wiped out the old Personal Injury Accounts Payable account.

The following is a list of the more serious cases occurring during 1933:

<u>Mine & Rept.No.</u>	<u>Name</u>	<u>Nature of Injury</u>	<u>Compensation Paid.</u>
Canisteo #10	Lawrence Lafond	Fracture of both bones of right leg at ankle	\$ 260.16
Canisteo #11.	Arthur Fogelberg	Fracture right collar bone. Bruised back, right arm and face	279.68 *

PENSION DEPT. ANNUAL REPORT YEAR 1933.

11. a. Workmen's Compensation (Continued)

<u>Mine & Rept. No.</u>	<u>Name</u>	<u>Nature of Injury</u>	<u>Compensation Paid</u>
Spies Virgil #144	Sidney Wales	Contusion of muscles of back and loins.	\$ 301.60 *

Payments in the Sidney Wales case are being made by The Fidelity and Casualty Company of New York.

* Denotes incomplete payments.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

11.

a. Workmen's Compensation (Continued)

Compensation Payments including Medical Expense.

<u>Year</u>	<u>C. C. I. Co.</u>	<u>Negaunee Mine Co.</u>	<u>Athens Ir. Mng. Co.</u>	<u>Cliffs Pr. & Light Co.</u>	<u>Mesaba Cl. Ir. Mng. Co.</u>	<u>Holman Cl. M. Co.</u>	<u>Canisteo Cl. Mng. Co.</u>	<u>Alexandria Mine</u>	<u>TOTAL</u>
1912	1073.81	105.08							1178.89
1913	13149.70	1152.87	27.15						14329.72
1914	27416.82	2840.13	446.63						30702.58
1915	15657.71	1699.28	656.07						18013.06
1916	32404.74	3496.75	672.29						36573.78
1917	45129.92	5301.30	911.46						51342.68
1918	43734.77	6198.93	1197.57						51131.27
1919	59417.51	11724.68	2234.77		263.00				73639.96
1920	59535.76	8888.01	2928.15		3057.46				74409.38
1921	59065.26	4709.80	5208.92		2953.08				71937.06
1922	56794.35	5283.24	2048.23		1866.67				65992.49
1923	57856.38	4142.00	5007.88		4874.48				71880.73
1924	56335.89	5487.07	6394.01		9408.59				77625.56
1925	49376.47	4464.79	8305.60		7316.55				69463.41
1926	51123.41	5433.85	7087.93	514.40	9537.84				73697.43
1927	86156.10	5311.69	5489.81	939.86	7147.98				105045.44
1928	87186.58	6532.66	6235.08	1831.30	4576.56	9.00	4.50		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	60.50	1074.00	73972.97
1933	23425.69	9605.70	5298.56	993.45	2180.61			614.00	42128.01
TOTALS	1106651.92	134741.55	82503.85	11370.74	62097.19	2131.39	2768.69	5372.63	1407647.96

PENSION DEPT. ANNUAL REPORT YEAR 1933

11. a Workmen's Compensation (cont.)

STATEMENT OF COMPENSATION PAYMENTS FROM
JANUARY 1st, 1933 TO DECEMBER 31st, 1933

Compensation paid on 1933 accidents	\$ 1143.50	
Compensation still pending	66049.28	
Cost of medical and hospital service	<u>3813.26</u>	
Total		\$ 71006.04
Less pending for years 1923 to 1932 inclusive	65544.82	
Less medical paid on accidents occurring prior to January 1, 1933	278.55	
Less special medical paid on insurance company cases	<u>5.60</u>	<u>65828.97</u>
Cost of 1933 accidents		5177.07
Percentage of payrolls		.01479

- A - Number of accidents on which compensation payments were made 9
- B - Number of non-compensable accidents 1
- C - Number of slight accidents which caused not over 1 day's lost time 58

The above figures, and those on the large compensation statement, cover only those accidents on which we carry our own risk. In the case of the Michigan properties only those accidents which occurred prior to May 17th, 1933, when the insurance plan was adopted, are included on these statements. Our experience under the insurance plan are shown on another statement.

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STATEMENT OF COMPENSATION PAYMENTS FROM
JANUARY 1st, 1933 to DECEMBER 31st, 1933.

	No. of Employees	No. of Fatal Accos.	No. of Non-Fatal Accidents	Actual Comp. Paid in 1933	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	Estimated Compen- sation still Pending	Actual Payments to Phy- sicians	Continuing Cases	
																			Fatal
Personal Injury Accounts Payable				209.64					209.64										
Austin				308.00	308.00														
Cliffs Shaft	304		2	3147.80					1872.00				936.00	54.43	285.37	9594.00	671.03	1	2
Cliffs Shaft Laboratory	3																6.77		
Chief of Police	1																2.26		
District Welfare	5																11.65		
Employee Wood, Gwinn District				636.00										636.00		624.00	227.05		1
Gardner-Mackinaw	70		1										936.00		2808.00	35.44	1		
General Storehouse	9			936.00													1.13		
General Welfare	1																4.01		
Geological Department	2																1.76		
Gwinn Office	1																		
Holmes				2064.80							1160.00	904.80				3312.00		1	1
Ishpeming Hospital	21																.26		
Ishpeming Office	11																31.72		
Lake																	12.50		
Lloyd	96			4664.53	102.37	728.00					524.16	2243.60	966.40			8316.04	153.42	3	3
Maas	231	1	3	5455.64		213.84		2184.00			986.00		1872.00	159.80	90.00	10068.00	516.82	2	4
Mechanical Engineering	3																6.77		
Mining Engineering	2																4.13		
Princeton	1			878.48		728.00	150.48									308.00			1
Purchasing Department	5																11.03		
Republic				929.84				63.00		866.84						3834.10			1
Safety Department	1																1.13		
Shipping Department	1																2.26		
Spies Virgil	69		2														162.93		
Stephenson	1			2184.00			728.00	728.00	728.00							4634.00			3
Tilden	7																9.03		
Workmen's Compensation	1																3.39		
The Cliffs Power & Light Co.	37			936.00						936.00						216.00	57.45		1
Negaunee	238	1	4	9169.94	252.00		728.00	149.76		1226.00	2808.00	1830.88	968.39	968.00	238.91	9567.08	435.76	2	9
Athens	207	1	5	4894.22				827.32		83.20	936.00	1872.00	253.76	815.87	106.07	7155.56	404.34	1	7
Total - Michigan Mines	1329	0	5	36314.89	662.37	1669.84	1606.48	3952.08	2809.64	3112.04	6364.16	6851.28	5932.55	2634.10	720.35	60436.78	2965.76	12	32
Alexandria	3			600.00				600.00									14.00		
Wade	3																18.75		
Hibbing Office	8																34.00		
Holman Brown	4																28.75		
Canisteo	102	2	1	575.15									252.00		423.15	504.46	726.75		2
Hill Trumbull	4			724.71								724.71				5108.04	25.25	1	
Drew	55	2	11																
Total - Minnesota Mines	179	0	4	1999.86				600.00				724.71	252.00		423.15	5612.50	847.50	1	2
Total - All Mines	1507	0	9	38314.75	662.37	1669.84	1606.48	4552.08	2809.64	3112.04	6364.16	7575.99	6184.55	2634.10	1143.50	66049.28	3813.26	13	34

A B C

This statement covers only those accidents at Michigan properties which occurred prior to May 17, 1933 and on which we carried our own risk.

11

a. Workmen's Compensation (Continued)

COST OF ACCIDENTS UNDER INSURANCE PLAN - MICHIGAN PROPERTIES
FROM MAY 17 to DECEMBER 31, 1933.

	No. of <u>Employees</u>	<u>No. of Accidents</u>			<u>Premium</u>	<u>Medical</u>	<u>Cost to Company</u>	<u>Comp. paid by Ins. Co.</u>	<u>Est. defrd. Liability</u>
		<u>Fatal</u>	<u>Non-Fatal</u>	<u>A</u>					
Cliffs Shaft	200		4		388.33				
Cliffs Shaft Lab.	3		1		10.73				
Chief of Police	1				3.74				
District Welfare	4				16.45				
Gardner-Mackinaw	57				178.93				
General Storehouse	18				253.56				
General Welfare	1				2.87				
Geological Dept.	1				3.74				
Gwinn Office	1				3.74				
Ishpeming Office	14				45.53				
Lloyd	82		5		96.33				
Maas	295	2	1	13	725.18		672.00	8368.00	
Mechanical Engineering	4				11.98				
Mining Engineering	4				8.38				
Purchasing Dept.,	5				12.47				
Safety Dept.,	1				1.12				
Shipping Dept.,	3				10.49				
Spies Virgil	15		2		126.27		301.60	116.00	
Tilden	11			2	92.72				
Workmen's Compensation	1				5.61				
Hospital	22				1.24				
Dust Count Expense	1				..50				
<u>C.C.I.CO.,</u>	<u>844</u>	<u>2</u>	<u>2</u>	<u>24</u>	<u>4499.67</u>	<u>1999.91</u>	<u>6499.58</u>	<u>973.60</u>	<u>8484.00</u>
G. P. & L. Co.,	38				419.77	101.80	521.57		
Negaunee Mine Co.,	203		1	7	555.72	326.24	881.96	89.88	
Athens Iron Mng. Co.	179			5	473.75	282.41	756.16		
Total all Companies	1264	2	3	2	36 5948.91	2710.36	8659.27	1063.48	8484.00

A B C

A- Compensable.

B- Non-Compensable

C- Not over one day's lost time.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

11.

a. Workmen's Compensation (Continued)

An agreement was entered into with the Fidelity and Casualty Company of New York to carry the compensation risk on our Michigan properties. This went into effect on May 17th, 1933. The insurance company pays the compensation and our company pays its own medical expense. The payment in effect for a number of years has been followed, namely, 50¢ per man per month to the Ishpeming Hospital for this district. The statements in this report for the compensation costs will be somewhat different from those in previous years. However, we have put in a table shown in the 1932 report for comparison at any time that it may be required. This table shows the cost of accidents occurring from 1922 to 1932 and also a table showing the percentages of the pay-rolls from 1912 to May 17, 1933.

COMPENSATION AND MEDICAL PAYMENTS.

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

* Barnes-Hecker disaster not included in these calculations.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

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:

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

PENSION DEPT. ANNUAL REPORT YEAR 1933.

11.

b. Benefit Funds.

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

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

PENSION DEPT. ANNUAL REPORT YEAR 1933

11.

c. Workmen's Compensation.

MICHIGAN'S COMPENSATION LAW.

There has been no change in the Law during the year.

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

Following the election in the spring Governor Comstock appointed an entirely new Board which is made up as follows:

- Claude S. Carney, Chairman
- W. A. Seegmiller
- Eugene P. Berry
- Daniel O'Connor
- James A. Muir, Secretary.

L. J. McManman was appointed Deputy Commissioner for this district in place of S. J. McGregor.

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

	When Law went into effect <u>Sept. 1, 1912</u>	As amended in effect <u>Aug. 14, 1919</u>	In effect <u>Aug. 18, 1931</u>	In effect <u>Sept. 4, 1927</u>
<u>MICHIGAN LAW.</u>				
Percentage of weekly wages	50	60	60	66 2/3
Maximum weekly compensation	\$10.00	14.00	14.00	18.00
Minimum weekly compensation	4.00	7.00	7.00	7.00
Waiting period	2 weeks	1 week	1 week	1 week
Waiting period picked up at the end of	8 weeks	6 weeks	6 weeks	6 weeks
Maximum death payment	\$3000.00	4200.00	4200.00	5400.00
Maximum compensation for total disability	4000.00	6000.00	7000.00	9000.00

PENSION DEPT. ANNUAL REPORT YEAR 1933.

11.

a. Workmen's Compensation (Continued)

Changes were made in the Minnesota Law which went into effect on December 28th, 1933.

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

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

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

The payments to be made under "B" are new provisions of the Law and not previously covered.

There has been a change in the administration officials of the Commission, the present members being as follows:

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

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

<u>Minnesota Law</u>	<u>When Law went into effect Oct. 1, 1913</u>	<u>As Amend- ed Apr. 26 1919</u>	<u>As Amend- ed June 6 1921</u>	<u>In effect since Oct. 1, 1923.</u>
Percentage of weekly wage	50	66 2/3	66 2/3	66 2/3
Maximum weekly Compensation	10.00	15.00	18.00	20.00
Minimum weekly compensation	6.00	6.50	8.00	8.00
Waiting Period	2 weeks	1 week	1 week	1 week
Waiting period picked up at end of	- - -	- - -	4 weeks	4 weeks
Maximum death payment	3000.00	4500.00	7500.00	7500.00
Maximum compensation for total disability	4000.00	5000.00	10000.00	10000.00

PENSION DEPT. ANNUAL REPORT YEAR 1933.

11.

c. Workmen's Compensation - Barnes-Hecker.

BARNES-HECKER.

All compensation payments in the Barnes-Hecker cases ended in 1932. Some few of the families have not been in good circumstances and we have been of service in securing work for some of the people.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

a. Pension System.

The year 1933 completed the twenty-fifth year of the operation of the Pension System.

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

No pensions were granted during the year.

The following Mining Department pensioners died during the year:

<u>No.</u>	<u>Name</u>	<u>Date Pensioned.</u>	<u>Date Died.</u>
30	Matthew Ryan	Nov. 1, 1911	Jan. 16, 1933
113	Matt Aho	Apr. 1, 1921	Feb. 21, 1933
132	Peter Rose	June 1, 1921	Apr. 4, 1933
168	August Nyquist	Feb. 1, 1924	Jan. 18, 1933
176	Ole Stolen	Oct. 1, 1924	June 6, 1933
179	Matt Mackie	Oct. 1, 1924	June 5, 1933
187	John Sandell	Sept. 1, 1925	Feb. 28, 1933
211	Charles Bjork	June 1, 1927	Jan. 9, 1933
216	Steve Amel	Sept. 1, 1927	July 7, 1933
243	John August Johnson	Jan. 1, 1930	Sept. 7, 1933
261	Robert Trudgeon	Jan. 1, 1932	Aug. 15, 1933

	<u>1932</u>	<u>1933</u>
Number of pensions granted during year	3	0
Number of deaths	12	11
Number of Old Age pensions in force Dec. 31.	116	105
Average annual pension	327.82	285.15

* * *

There were no additions to the Furnace Department Pension roll during the year 1933, and there were no deaths.

On December 31, 1933 there were nine pensioners on the Furnace Department pension roll with an annual average pension of \$280.89.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

a. Pension System (Continued)

Pension payments for the years 1908 to 1933 inclusive are as follows:

<u>MINING DEPARTMENT</u>			
<u>year</u>	<u>Old Age</u>	<u>Widows & Orphans</u>	<u>Total</u>
1908	60.10	48.00	117.10
1909	351.92	464.00	815.92
1910	896.44	1043.00	1939.44
1911	1690.37	2649.00	4339.37
1912	3865.95	3113.00	6978.95
1913	5133.62	3025.00	8158.62
1914	6179.57	3403.00	9582.57
1915	7910.35	2372.00	10282.35
1916	8787.02	1694.00	10481.02
1917	9327.22	1266.00	10593.22
1918	8889.14	944.00	9833.14
1919	9605.02	888.00	10493.02
1920	12613.29	814.00	13427.29
1921	21856.64	14.00	21870.64
1922	29063.85	168.00	29231.85
1923	29564.57	168.00	29732.57
1924	31987.64	168.00	32155.64
1925	34926.34	163.00	35089.34
1926	38924.88	143.00	39067.88
1927	45841.03	0.00	45841.03
1928	51869.03	0.00	51869.03
1929	52701.19	0.00	52701.19
1930	53779.24	0.00	53779.24
1931	56379.39	0.00	56379.39
1932	40615.13	0.00	40615.13
1933	<u>30981.29</u>	<u>0.00</u>	<u>30981.29</u>
	593908.23	22547.00	616356.23
Payment made by Cleveland Office in 1930	<u>2500.00</u>	<u> </u>	<u>2500.00</u>
	596309.23	22547.00	618856.23

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

a. Pension System (Continued)FURNACE DEPARTMENT

The pension payments for the years 1910 to 1933 inclusive are as follows:

<u>Year</u>	<u>Old Age</u>	<u>Widows & Orphans</u>	<u>Total</u>
1910	111.75	0.00	111.75
1911	268.20	120.00	388.20
1912	268.20	180.00	448.20
1913	268.20	180.00	448.20
1914	268.20	180.00	448.20
1915	268.20	180.00	448.20
1916	268.20	60.00	328.20
1917	268.20	0.00	268.20
1918	268.20	0.00	268.20
1919	130.55	0.00	130.55
1920	223.80	0.00	223.80
1921	781.63	0.00	781.63
1922	1118.04	0.00	1118.04
1923	1178.38	0.00	1178.38
1924	2085.82	0.00	2085.82
1925	2833.39	0.00	2833.39
1926	5351.35	0.00	5351.35
1927	4819.73	0.00	4819.73
1928	5481.50	0.00	5481.50
1929	6137.02	0.00	6137.02
1930	6191.42	0.00	6191.42
1931	5531.30	0.00	5531.30
1932	3327.09	0.00	3327.09
1933	<u>2528.04</u>	<u>0.00</u>	<u>2528.04</u>
	\$ 49977.41	\$ 900.00	50877.41

REPUBLIC MINE:

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

There are sixteen pensioners on the roll, the average annual pension being \$290.04.

The payments made from Oct. 1, 1920 to Dec. 31, 1932 are as follows:

1920	276.61
1921	3427.97
1922	5672.84
1923	6641.51
1924	8172.96
1925	8379.07
1926	9539.90
1927	12185.24
1928	12768.21
1929	14199.74
1930	13148.40
1931	11809.51
1932	7673.30
1933	<u>4908.04</u>
	\$118805.31

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

a. Pension System (Continued)REPUBLIC MINE.

The following Old Age pensions ceased during the year:

<u>No.</u>	<u>Name.</u>	<u>Date Pensioned</u>	<u>Date Died.</u>
1	Thomas Pascoe	Oct. 1, 1920	March 2, 1933
6	Andrew Johnson	Mar. 1, 1921	March 20, 1933
33	Daniel Johnson	Jan. 1, 1928	Aug. 3, 1933

LAND DEPARTMENT.

Erick Johnson continued on the pension roll during the year.

Total pension payments from January 1, 1927 to December 31, 1933 are as follows:

1927	\$ 333.36
1928	333.36
1929	333.36
1930	333.36
1931	333.36
1932	250.08
1933	<u>240.00</u>

\$ 2156.88

PENSION DEPT. ANNUAL REPORT YEAR 1933.

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 Red Cross if no further payments are called for.

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

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

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

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

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

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

b. Republic Mine Funds (Continued)

STATEMENT OF FUNDS REMAINING IN REPUBLIC MINE RELIEF AND SICK BENEFIT FUND "SAVINGS ACCOUNT" AS OF DECEMBER 31ST, 1933.

Balance on hand in "Savings Account" as of December 31, 1932	58.40
Interest on funds during year - Jan. 1st to March 6th, 1933	<u>.43</u>
Balance as per bank balance of December 31, 1933	58.83

STATEMENT OF FUNDS REMAINING IN THE REPUBLIC MINE FATAL ACCIDENT FUND "SAVINGS ACCOUNT" AS OF DECEMBER 31, 1933.

Balance on hand in "Savings Account" as of December 31, 1932	168.06
Interest on funds during year - Jan. 1st to Mar. 6th, 1933	<u>1.26</u>
Balance as per bank balance of December 31, 1933	\$ 169.32

These funds were on deposit with the Miners' National Bank which was closed in March and which did not re-open until January 9th, 1934. At this time 60% of the deposits were released and the amounts of the deposits available were transferred to the Miners' First National Bank, the new organization, and the accounts now are as follows:

Republic Mine Relief and Sick Benefit Fund:

Miners' National Bank	25.53
Miners' First National Bank	<u>35.30</u>
Total	\$ 58.83

Republic Mine Fatal Accident Fund:

Miners' National Bank	67.73
Miners' First National Bank	<u>101.59</u>
Total	\$ 169.32

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

c. Suspense Funds.

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

d. Visiting Nurses.

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

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

The following nurses were employed during the year:

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

PENSION DEPT. ANNUAL REPORT YEAR 1935.

23.

d. Visiting Nurses.

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

Total number of patients cared for during year	538
Number of new cases cared for during year	270
Total number of visits to patients	4267
Number of families visited for the first time	50
Number of social calls	55
Number died	14

Classification of new cases for the year:

Number of adults	141	Male	20	Female	121
Number of children	129	Male	64	Female	65

Nationalities of new cases for the year:

American	183	Irish	1
Danish	1	Italian	15
English	12	Norwegian	1
Finnish	32	Swedish	11
French	14		

Diseases and number of new cases:

Arterio Sclerosis	1	Heart trouble	7	Prenatal	25
Baby Welfare	8	Influenza	6	Pul. Tuberculosis	2
Bowel Trouble	4	Infants, Newborn	32	Quinsy	1
Bronchitis	3	Infections	19	Rheumatism	1
Burns	3	Injury	17	Rupture	1
Carcinoma	2	Kidney trouble	3	Senility	1
Cervical Adenitis	1	Miscarriage	1	Sore Eyes	1
Cold	5	Neurosis	1	Stomach trouble	12
Colitis	1	Obstetrical	31	Stomatitis	2
Cystitis	2	Otitis Media	3	Tonsillitis	6
Diabetes	4	Peritonitis	1	Unclassified	12
Enteritis	3	Pneumonia	8	Undiagnosed	4
Fracture	4	Paralysis	3	Var. Ulcer	5
General Debility	1	Post-Operative	23		

Ishpeming Nurse : Miss Myrtle Welander.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

d. Visiting Nurses (Continued)

The following is the report of the Negaumee Visiting Nurse for the year 1933:

Total number of patients cared for during year	853	
Number of new cases cared for during year	500	
Total number of visits to patients	5026	
Number of families visited for the first time	7	
Number of families investigated 399	No. of investigation calls 955	
Number of families helped 10	Provisions 10	Clothing 4
Number of social calls	341	
Number died	9	

Classification of new cases for the year:

Number of adults	283	Male	40	Female	243
Number of children	217	Male	127	Female	90

Nationalities of new cases for the year:

American	192	German	2
English	35	Irish	1
Finnish	204	Italian	26
French	19	Swedish	21

Diseases and number of new cases:

Abscess	1	Heart trouble	6	Post Operative	35
Apoplexy	3	Infants, Newborn	60	Prenatal	22
Appendicitis	19	Infections	25	Pul. Tuberculosis	3
Bowel Trouble	20	Influenza	42	Pyelitis	2
Bronchitis	7	Injury	30	Quinsy	3
Burns	2	Kidney trouble	1	Rheumatism	9
Carcinoma	2	Mal-Nutrition	3	Senility	1
Cholystitis	7	Mastoditis	1	Sore Eyes	2
Cold	22	Migraine	1	Spinal Meningitis	1
Diabetes	1	Neuritis	1	Sprains	5
Eczema	3	Obstetrical	63	Stomach trouble	13
General Debility	3	Operative	2	Tonsilitis	44
German Measles	3	Otitis Media	5	Unclassified	6
Gout	1	Pleurisy	1	Undiagnosed	1
Grippe	6	Pneumonia	6	Var. Ulcer	2

Negaumee Nurse : Miss Ina E. Atkin.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.
d. Visiting Nurses. (Continued)

NUMBER OF PATIENDS ATTENDED AND CALLS MADE BY VISITING NURSES.

	<u>No. of Patients</u>	<u>No. of New Cases</u>	<u>Male Adult</u>	<u>Female Adult</u>	<u>Male Children</u>	<u>Female Children</u>
Ishpeming	538	270	20	121	47	65
Negaunee	<u>853</u>	<u>500</u>	<u>40</u>	<u>243</u>	<u>127</u>	<u>90</u>
	1391	770	60	364	274	155

	<u>Total No. of Visits</u>	<u>Number Died</u>	<u>Social Calls</u>	<u>Families visited for the First Time.</u>
Ishpeming	4267	14	55	50
Negaunee	<u>5026</u>	<u>9</u>	<u>341</u>	<u>7</u>
	9293	23	396	57

NATIONALITY OF CASES.

	<u>American</u>	<u>Denish</u>	<u>English</u>	<u>Finnish</u>	<u>French</u>
Ishpeming	183	1	12	32	14
Negaunee	<u>192</u>	<u>0</u>	<u>35</u>	<u>204</u>	<u>19</u>
	375	1	47	236	33

	<u>German</u>	<u>Irish</u>	<u>Italian</u>	<u>Norwegian</u>	<u>Swedish</u>
Ishpeming	0	1	15	1	11
Negaunee	<u>2</u>	<u>1</u>	<u>26</u>	<u>0</u>	<u>21</u>
	2	2	41	1	32

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

f. North Lake Club.

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

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

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

Following is the financial statement for the year and also the manager's report on the activities in the Club House for the month of November, which indicates the service that the building is now rendering to the community.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

f. North Lake Club.

Following is the financial statement for the year:

Balance on hand January 1st, 1933	98.58	
Receipts during the year 1933	<u>340.33</u>	438.91
Total expenditures during year 1933		<u>245.04</u>
Balance on hand December 31, 1933		\$ 193.87

Receipts.

Membership Fees - men	211.50	
Bowling alleys	79.67	
Miscellaneous	25.45	
Telephone Tolls	<u>23.71</u>	
		\$ 340.33

Expenditures.

Building, Maintenance	6.18	
Lighting	43.74	
Bowling alleys	82.24	
Telephone	48.60	
Reading room	18.20	
Miscellaneous	20.22	
Telephone Tolls	<u>25.86</u>	
		\$ 245.04

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

f. North Lake Club House (Continued)

Manager's Report of the North Lake Club House for November 1933.

Total Number of visitors for the month	3975
Average number per day	132.5

General Activities.

Number of times manager phones for others	51
Number of persons using the phone	138
Number of packages of medicine given out	148
Number of surgical dressings made	62
Number of persons taking baths (Not after basketball practice)	221
Average number reading Mining Journal per day	35
Average number reading the Paihalehti per day	10
Average number reading the Sunday Tribune	50
Average number reading the Daily Tribune and Herald	15
Number who read magazines (no count on those in playroom)	132
Number of card playing sessions(4 at time 6 games to session)	96
Number of games bowled	412

Library

Number of books in library	80
Number of persons reading books	90
Number of books read	281

Gymnasium

Tri F club practice times	6
Tri F play presented two nights - attendance	330
Club Basketball practice four times	35
4 Junior teams practice 10 times	320
Kiddies "Eagle League" practice and games 3 times	30
Dances for the benefit of Club house - 2 times	300

Meetings.

One Township Board meeting	4
Two Good-Fellows Committee meetings (Xmas candy for children)	18
One children's party with lunch	40
Cribbage team played at Negaunee and won	16
Coffee pot used at party and 6 card tables	30

Club Financial Account.

Amount received from dances and club organizations for piano \$ 28.12

Paid out

Piano repairs and tuning	4.50	
Hecto carbon paper	.75	
Dance expenses	<u>4.35</u>	9.60
Balance		18.52

Accounts Payable.

Upper Peninsula Office Supply Co., \$ 17.99

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

f. North Lake Club House (Continued)

Manager's report for November (Continued)

	<u>Library Account</u>	
Receipts - Donation from Club Basketball team	10.00	
Other donations and fines	<u>.33</u>	10.33
Disbursements: Books	7.75	
Account Books	11.87	
Book repair outfits	<u>.57</u>	<u>10.19</u>
Balance		.14

The playroom has been used by the children with success and will be ready for games when the windows are screened and the lights fixed.

The old moving picture operator's booth has been converted into a store room and first aid room for the basketball team.

A Good-Fellows Committee has been organized and preparing for a bazaar to raise money to buy candy for the children of the location for Christmas. This will be held in the Club House on December 15th.

I have taken off the cushion racks from the pool table and they have been shipped to the Brunswicke-Balke-Collender Company.

Work has been started on the case for the candy counter. It is hoped that it will soon be completed.

Mr. Henry Buolley, Principal of the North Lake School, is co-operating with the Manager in conducting the basketball program of the school children. Mr. Buolley is requiring an average of "C" if the boys wish to play basketball. This is a new idea and is being experimented with this season.

Mr. Walter F. Gries, County Commissioner of Schools, donated a carload of magazines to the club house.

A bowling league is being organized and hopes to be playing before Christmas.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

g. GWINN ASSOCIATION.

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

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

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

In November 1932 it was decided to reduce the payment made by the men to 25 cents per month.

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

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

	<u>Receipts</u>	<u>Expenditures</u>	<u>Profit</u>
Pool and Billiards	393.50	36.29	357.21
Bowling Alley	123.00	15.60	107.40
Buffet	230.50	150.86	79.64
Camp	<u>10.00</u>	<u>8.84</u>	<u>1.16</u>
Total	\$ 757.00	\$ 211.59	\$545.41

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

g. GWINN ASSOCIATION.

Cash on hand January 1st, 1933	1112.71	
Total Receipts	<u>3703.75</u>	
Total	4816.46	
Total Expenditures	<u>3790.71</u>	
Balance on hand December 31, 1933		1025.75

RECEIPTS

Membership Fees - men	469.00	
Bowling alley	123.00	
Pool and Billiards	393.50	
Buffet	230.50	
Towels and soap	60.50	
Camp	10.00	
Telephone	17.25	
Gwinn School rental	<u>2400.00</u>	
		3703.75

EXPENDITURES.

Building, Maintenance	56.84	
Lighting	34.32	
Heating	279.61	
Water	15.60	
Bowling Alleys	36.29	
Pool and Billiards	74.13	
Buffet	150.86	
Entertainments	4.50	
Towels and soap	39.11	
Office Expense	12.44	
Camp	8/84	
Salaries	2890.00	
Reading room	77.20	
Athletics	45.61	
Telephone	64.00	
Government tax	<u>1.36</u>	
		3790.71

PENSION DEPT.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

g. GWINN ASSOCIATION (Continued)

The following report and summary of the activities of the Association Club-house has been taken from the monthly reports:-

MEMBERSHIP:

The membership during the year was very uncertain, many members were unable to pay regular dues, but would pay when possible.

At the end of the year, December 31, 1933, the membership records showed the following paid membership.

Number members paying a rate of over 50¢ per month	4
Number member paying a rate of 50¢ per month	38
Number members on Gardner-Mackinaw Mine list	55
Number members granted membership credit for one year for services in securing wood for fuel	<u>57</u>
Total membership January 1, 1934	154

ATTENDANCE:

It is very hard to make an exact estimate of the number of persons who enter the building during a day, a month, or a year, but a fair estimate may be obtained by checking the number of persons who take part in daily activities. The above system was used in securing the following figures.

Total estimate attendance at building during year	82200
Average monthly attendance	6850
Total estimated attendance for all outdoor activities for which material and supervision was furnished by the Association; including ice skating rink, playground and tennis court, physical training at school playgrounds, baseball teams, Bass Lake Camp, and kittenball league:	
Estimated attendance	17500

RECEIPTS AND EXPENDITURES.

Total receipts including 1932 balance (\$1,112.71) . . .	\$ 4816.46
Total Expenditures for year	<u>3790.71</u>
Balance January 1, 1934	\$ 1025.75

BUFFET ACCOUNT.

Receipts for year	230.50
Expenditures for year	<u>150.86</u>
Profit	79.64
Inventory January 1, 1934	26.00

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

g. GWINN ASSOCIATION (Continued)POOL, BILLIARDS, and BOWLING ACCOUNTS.

Receipts for year	516.50
Expenditures for	<u>110.42</u>
Profit	406.08

GENERAL ACTIVITIES AND ORGANIZATIONS USING BUILDING.

- 74 - Meetings. 2 American Legion, 2 Inter-County Baseball League, 3 Board of Directors, 38 Red Cross to distribute clothing supplies, 16 rehearsals for plays, and 15 committee meetings.
- 2 - card parties by organizations to raise funds.
 4 - private parties - cards and dancing.
 14 - meetings by Women's Study Club.
 8 - meetings by Town Club.
 2 - social parties - school, no dancing.
 6 - dancing parties by High School classes.
 7 - dances after basketball games.
 1 - Inter-City bowling match.
 19 - dances by local orchestra and other organizations.
- 43 - total dances held during year, including social parties, dances held after basketball games, orchestra dances and those covering an annual or special event.
- 57 - lunches served by different organizations during year.

CHURCH ORGANIZATIONS USING BUILDING.

- 7 - events by church organizations to raise funds.
 9 - meetings by Episcopal Ladies Guild.
 10 - meetings or socials by Methodist Church organizations.
 3 - events by St. Anthony's Catholic Church.
 3 - events by Swedish Ladies Guild.

EVENTS OF SPECIAL INTEREST.

Easter Monday Ball	by	Orchestra
Annual Physical Training Exhibition	"	High School classes.
Annual Junior Party	"	High School.
Card Party	"	St. Anthony's Guild
Annual Scout Ceremonial	"	Scout Troops
Swedish Program and dance	"	Local Young Men.
Mother's Day Program	"	Scout Troops.
Supper and Dance	"	St. Anthony's church.
Hallowe'en Party	"	Scout Troops
Annual Xmas Treat for Children	"	Community.
Supper	"	Swedish Church.
Annual Christmas Party	"	Scout Troops.
Annual Firemen's Ball	"	Local Firemen.

PENSION DEPT.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

g. GWINN ASSOCIATION (CONTINUED)

MUSICAL ORGANIZATIONS.

The Senior Band re-organized in April with a membership of twenty-one players and continued to function throughout the year. The Young Ladies' Band met during the first part of the year but discontinued after holding nine rehearsals. The local orchestra continues active and has engagements in many of the towns in the county.

SUMMARY

- 36 - rehearsals by Senior and Girls Bands
- 3 - engagements by Senior Band
- 24 - rehearsals by orchestra.
- 19 - dances at Club House by orchestra.

PHYSICAL AND ATHLETIC DEPARTMENT.

Including all work conducted in the gymnasium and all outdoor recreations such as : supervising physical training classes at school playground, baseball team, ice skating rink, tennis and horseshoe courts, foot-ball, speed-ball, archery, and supervision of Bass Lake Camp.

The employees of the Association continue to supervise all athletic work for the local high school and furnish most of the equipment in carrying on this program.

The senior men continue to use the gym for Volleyball, hand-ball and basketball, and the women's class meets weekly under association supervision.

SUMMARY.

Supervised work in gymnasium:	<u>Periods</u>	<u>Attendance</u>
High School Girls' classes	139	2115
High School Boys' Classes	145	1988
High School Basketball Practice	61	634
Junior Boys Recreation (Saturday Morning)	15	549
Senior men using gym	64	469
Women's Classes	24	291
Swimming Pool (not operated)	-----	-----
Total for Gymnasium work	448	6046
 Supervised work at school playgrounds:		
High School Girls' classes	67	1334
High School Boys' Classes	78	1629
Total for outdoor work	145	2963
Total indoor class work	448	6046
Total outdoor class work	<u>145</u>	<u>2963</u>
Grand total	593	9009

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

g. GWINN ASSOCIATION (CONTINUED)

BASKETBALL.

The following basketball games were played under Association supervision.

High School team	- 6 games at home	- 8 away
Club Team	- 7 games at home	- 4 away
Practice games between Club and School	- 7	

Junior League teams	- 12 preliminary games
	55 league games
	9 local tournament games.

Total attendance at all home games and Junior tournament 3550

ICE SKATING RINK.

The ice skating rink was in condition for skating 33 days and was flooded 15 times after being constructed. Estimated attendance 2850.

TENNIS AND HORSE SHOE COURTS.

The tennis court was in condition for play 96 days during the season. Attendance on tennis and horse shoe courts 2400.

BOWLING ALLEYS.

During the winter the bowling alleys were operated for four months, and besides the regular bowling a mixed league of men and women completed a 60 game schedule. Six teams made up the league.

BASEBALL.

The Inter-County Baseball League was again organized by the Association employees for the sixth successful season. The league this year contained ten teams, namely, Republic, North Lake, Ishpeming, Negaunee, Palmer, two Marquette teams, Chatham, Trenary and Gwinn.

The Gwinn team made a good showing despite the fact that several veterans had retired and their places taken by younger material. The team met all expenses, meeting a deficit of \$62.00 by holding dances with the local orchestra. All players on the team were members of the Association.

Games played at home	11 - away 8.
Practice sessions	48.

Attendance at all home games and practice periods 4800.

The kittenball league which was so successful in 1932 was again organized this year with five teams. Opening games were started May 29th and continued until June 17th when it was necessary to drop the league owing to the number of postponed games caused by members of the teams being absent on account of fighting forest fires and picking berries.

Games played	34	
Attendance		1500.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

g. GWINN ASSOCIATION (continued)

LIBRARY AND READING ROOM.

Many of the books contained in the library were withdrawn owing to bad condition through usage. However, during the month of December, the CWA unit placed a librarian in the building and many of the books that were withdrawn are now being repaired and will again be placed in circulation. Until the librarian completes her work it will be impossible to give an account of the number of books contained in the library.

Number of books loaned during the year 1739

The reading room was re-arranged during the year; new racks were installed and new files for newspapers added. The following number of newspapers and magazines are received and placed on the files and racks:

Weekly magazines	4	Daily newspapers	2
Monthly magazines	18	Weekly newspapers	2

Magazine subscriptions are good for a two-year period or until October 1935.

BASS LAKE CAMP.

The cottage was opened with caretaker in charge June 25th and closed September 4th. Not many requests for reservations were received until the middle of July, but from that date on but from that date on the cottage was booked solid. The five camp boats are not in very good shape but there is very little demand for boats owing to the fact that fishing parties usually carry their own boats by using trailers. However, two new boats should be added for local residents.

Number different parties using camp cottage overnight	8
Number different parties using camp for 3-day periods	3
Number different parties using camp longer than five days	5
Girl Scouts using camp overnight - 2 nights - attendance	37
All day picnics by organizations	7
Number family basket picnics for season	160
Estimated attendance at grounds for season	3000

GIRL SCOUTS.

Two Scout troops continue to meet weekly under Association supervision. Troop No. 1, the larger girls, have a registration of 30 with the National Council and Troop No. 2, the smaller girls, have a registration of 22.

The following summary covers the work with both troops:

Meetings for class and social parties	103
Attendance	1806

22 lunches or suppers were held; either after meetings indoors or after hikes, with meals outdoors.

11 social parties

2 invitation dancing parties

17 hikes or meetings outdoors - nature study or swimming.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

6. GWINN ASSOCIATION (Continued)

GIRL SCOUTS. (Continued)

- 2 Hallowe'en parties - one for each troop.
- 1 Valentine Party
- 1 Annual Ceremonial - 20 Scouts receiving merit badges.
- 2 entertainments for mothers.
- 2 Annual Christmas parties - one for each troop.

Funds for Scout activities were raised by
 Selling candy
 Selling Jello
 Selling Betty Bright's

Scouts attended Methodist church in a body during Scout week.

During Christmas season Scouts supplied 53 gifts for children in this district.

Scouts assisted with Memorial Day program and Firemen's Celebration, July 4th.

Class work of scouts is taken from the regular scout manual and work is required at all meetings.

BUILDING.

The Association building did not receive any major repairs during the year. The old movie room was re-decorated and turned over to the use of pool and billiards. This alteration gives a much more convenient arrangement for this activity.

The interior of the building is in much need of paint, both wood work and wall spaces, also some plumbing repairs would help toilet facilities.

Roofs were given some attention during the summer, but are still not in first class shape. It may be necessary to apply new paper and re-tar before they are satisfactory.

The Cleveland-Cliffs Iron Company continued to assist in a financial way and the Cliffs Power & Light Company granted free service since last February.

During the summer 57 men secured their membership in the Association for services in cutting fire wood for fuel. Timber was donated by the Cleveland-Cliffs Iron Company, Lumber Department.

It is hoped by those supervising the activities of the Association that financial conditions will improve in the district the coming year so that funds may be available to put the building in a better condition than it is at the present time.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

h. ISHPEMING Y.M.C.A.

The year at the "Y" has been a most serviceable one in spite of the mines being idle and the banks being closed. On this account it was impossible to make a canvas for funds but personal solicitation has helped to some extent.

Mr. Rathman who has been Secretary since Mr. Upshaw left, has been very efficient. Mr. Rathman left Ishpeming the last of November to become Secretary of the "Y" at Grand Forks, North Dakota, and Lewis Smith, the Athletic Director, has been put in as Acting Secretary.

The "Y" camp at Ross Lake was conducted during the summer and it was very successful.

The present officers are as follows:

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

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

1. SAFETY WORK.

We have co-operated with the Safety Department throughout the year. There were only seventeen accidents for the year and on account of the mines being closed from early in April until November, there was no reason for the regular monthly meetings, but these were resumed in December.

The following are the present members of the Committee:

- Mr. G. R. Jackson, Chairman,
- Mr. S. R. Elliott
- Mr. O. D. McClure
- Mr. C. J. Stakel
- Mr. W. W. Graff
- Mr. W. R. Meyers
- Mr. Carl Brewer
- Mr. William Conibear
- Mr. W. H. Moulton, Secretary.

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

ACCIDENT FREQUENCY

NUMBER OF ACCIDENTS PER 1000 DAYS OF LABOR - DECEMBER 1933.

	Rank	Days of Labor	Number of Accidents		Rate per 1000 days	
	Dec. 1933		1933	-	1932	1933
Maas	1	4101	0	0	.000	.000
Cliffs Shaft "A"	2		0	0	.000	
Cliffs Shaft "B"	2	4045	0	0	.000	.000
Negaunee	3	2733	0	1	.000	.448
Athens	4	2579	0	1	.000	.499
Canistee	5	1844	0	0	.000	.000
Lloyd	6	1064	0	0	.000	.000
Gardner-Mackinaw	7	766	0	0	.000	.000
C. P. & L. Co.,	8	754	0	0	.000	.000
General Storehouse	9	359	0	0	.000	.000
Drew	10	271	0	0	.000	.000
Spies Virgil	11	167	0	0	.000	.000
Tilden	12	122	0	0	.000	.000
Miscellaneous	13	97	0	0	.000	.000
Hill-Trumbull	14	89	0	0	.000	.000
Holman-Brown	15	88	0	0	.000	.000
Average					.000	.117
General Roll		2354				
Various Properties		39				
Total All Properties		21472	0	2		

RANK AND RATE FOR THE YEAR 1933.

General Storehouse	1	9329	0	0	.000	.000
C. P. & L. Co.,	2	8595	0	0	.000	.000
Lloyd	3	7224	0	0	.000	.000
Gardner-Mackinaw	4	6868	0	0	.000	.000
Tilden	5	3349	0	0	.000	.000
Holman-Brown	6	1107	0	0	.000	.000
Hill-Trumbull	7	894	0	0	.000	.000
Athens	8	15065	1	2	.066	.103
Average					.090	.048
Cliffs Shaft "A"			2	1		
Cliffs Shaft "B"	9	21345	0	0	.093	.039
Negaunee	10	17253	2	3	.116	.150
Canistee	11	25229	3	0	.119	.000
Maas	12	29618	4	2	.135	.088
Drew	13	8520	2	0	.235	.000
Spies-Virgil	14	7116	2	0	.281	.000
Miscellaneous	15	1322	1	1	.756	.429
General Roll		25184				
Various Properties		1360				
Total All Properties		189398	17	9		

ACCIDENT SEVERITY.

NUMBER OF WORKING DAYS LOST PER 1000 DAYS OF LABOR
ON ACCOUNT OF ACCIDENTS OCCURRING IN 1933.

	Rank	Days of Labor	Number of days Lost		Rate per 1000 Days	
	Dec. 1933		1933	- 1932	1933	- 1932
Maas	1	4101	0	0	.000	.000
Cliffs Shaft "A"			0	0	.000	
Cliffs Shaft "B"	2	4045	0	0	.000	.000
Negaunee	3	2733	0	22	.000	9.865
Athens	4	2579	0	80½	.000	40.120
Canisteo	5	1844	0	0	.000	.000
Lloyd	6	1064	0	0	.000	.000
Gardner-Mackinaw	7	766	0	0	.000	.000
C.P. & L. Co.,	8	754	0	0	.000	.000
General Storehouse	9	359	0	0	.000	.000
Drew	10	271	0	0	.000	.000
Spies Virgil	11	167	0	0	.000	.000
Tilden	12	122	0	0	.000	.000
Miscellaneous	13	97	0	0	.000	.000
Hill-Trumbull	14	89	0	0	.000	.000
Holman-Brown	15	88	0	0	.000	.000
Average					.000	6.012

General Roll	2354					
Various Properties	39			102½		
Total All Properties	21472	0		102½		

RANK AND RATE FOR THE YEAR 1933.

General Storehouse	1	9329	0	0	.000	.000
C.P. & L. Co.,	2	8595	0	0	.000	.000
Lloyd	3	7224	0	0	.000	.000
Gardner-Mackinaw	4	6888	0	0	.000	.000
Tilden	5	3349	0	0	.000	.000
Holman-Brown	6	1107	0	0	.000	.000
Hill-Trumbull	7	894	0	0	.000	.000
Miscellaneous	8	1322	3½	161	2.647	69.188
Athens	9	15065	43	160½	2.854	8.294
Cliffs Shaft "A"			123	58½		
Cliffs Shaft "B"	10	21345	0	0	5.762	2.260
Drew	11	8520	63	0	7.393	.000
Negaunee	12	17253	143	723	8.288	36.224
Canisteo	13	25229	266	0	10.978	.000
Average					23.796	7.678
Spies-Virgil	14	7116	224	0	31.478	.000
Maas	15	29618	3641½	349	122.949	15.351
General Roll		25184				
Various Properties		1360				
Total All Properties		189398	4507	1452		

PENSION DEPT. ANNUAL REPORT YEAR 1933.

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 standard of fine service and has continued on the accredited list of the American College of Physicians and Surgeons.

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

In the fall of 1932 the second floor was closed and has been used only in emergency cases when the third floor was filled, and in those cases for which a private nurse paid for by the patient was necessary.

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

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

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

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

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

j. Hospitals (Continued)

ISHPEMING HOSPITAL
STATISTICAL REPORT FOR THE YEAR 1933.

Number of patients remaining in Hospital at beginning of year		11
Number of adult patients admitted	454	
Number of child patients admitted	65	
Number of births	<u>60</u>	
Total new patients for the year		579
Total of all patients for the year		590
Number of deaths	23	
Number discharged during year	<u>547</u>	
Total number leaving hospital		<u>570</u>
Number of patients remaining at end of year, Dec. 31, 1933		20
CLASSIFICATION OF NEW CASES:		
Surgical	315	
Medical	148	
Obstetrical	58	
New Born	<u>58</u>	
Total		579
Number of operations		237
Number of emergency room operations		55
Number of patient days		7020
Number of meals for patients	21060	
Number of meals for nurses, superintendent, and dietitian	12971	
Number of meals for physicians and guests	219	
Number of meals for help	<u>4708</u>	
Total number of meals		38958

Average number of patients per day.

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

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

j. HOSPITALS (Continued)

NEGAUNEE DISPENSARY.

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.

Early in the year it was found necessary to reduce forces and Dr. Corcoran left our medical service and returned to Escanaba.

The following physicians now have their offices in the building and look after the Negaunee work:

- Dr. D. R. MacIntyre
- Dr. W. A. Mudge

REPUBLIC HOSPITAL.

Dr. Van Riper of Champion goes to Republic regularly for one hour each day and at such other times as he is called. Dr. Van Riper is exceedingly conscientious in his work and has done a great deal of work for which there can be no payment, but he receives some payment from the County as Poor Physician, which helps to reimburse him for the work.

GWINN.

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

IRON RIVER.

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

PAYMENTS TO PHYSICIANS.

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

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

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

During the year an investigation was made to show the dust conditions in our mines and its effect upon the men.

The matter was taken up with the Metropolitan Life Insurance Company and Dr. W. J. McConnell came to Ishpeming, and J. W. Fehnel and P. A. Petrick took dust samples at our mines, the Negaunee and Maas Mines on March 23rd, 1933, and the Cliffs Shaft Mine on March 24th, 1933.

They were also at the Cambria Mine with Mr. J. E. Nelson.

Mr. D. E. Cummings of the Trudeau Foundation was also at Ishpeming and addressed the Luncheon Club. Arrangements were later made with the Trudeau Foundation to make an investigation of the condition of our properties with the other mining companies in the Lake Superior district.

New X-Ray equipment was purchased enabling good stereoscopic films to be produced. Dust counting apparatus was secured for use by our own company. Mr. Richard Libby was assigned to Ishpeming as an X-Ray technician.

The first examination was made on November 28th, 1933 and up to December 31st, 1933, 154 examinations had been made:

Inland Steel Co.,	79
Cleveland-Cliffs Iron Co.,	75

Mr. D. E. Cummings went back to Saranac Lake for the holidays, and will return to this district early in January, with his family. He will live in Ironwood until June when he expects to bring his family to Ishpeming.

When Mr. Cummings returns here the results of the examinations then made and the X-Ray reports from Dr. Sampson at Saranac Lake will be fully considered and the results tabulated.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

k. Health.

All of our cities have been quite free from contagious diseases. In the fall some influenza developed but not of a serious or alarming type.

The health officers of our three cities have been active and have done good work throughout the year. They are as follows:

- Ishpeming - Dr. G. G. Barnett
- Negaunee - Dr. W. A. Mudge
- Marquette - Dr. T. R. Laughbum

1. Red Cross.

The following officers have continued throughout the year 1933:

- President - Thomas Redmond, Marquette
- Vice-President - Philip Levine, Negaunee
- Secretary - R. J. Chenneour, Ishpeming
- Treasurer - E. S. Bice, Marquette

Of the Ishpeming Branch, Thomas Clancey has continued as Chairman. Of the Negaunee Branch, F. A. Bell has continued as Chairman.

During the year the Red Cross has been of great service to the families of Marquette County, and this has included many in Ishpeming, Negaunee, Gwinn, and Republic. The Red Cross has furnished flour throughout a large portion of the year and a large quantity of clothing has been distributed through the Service Clubs and the Poor Commission. A large quantity of salt pork has been furnished and, later, butter has been distributed.

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

Government Help.

During the year 1933 84,500 pounds of salt pork was furnished, and the officials have been notified that additional supplies in the way of corn beef, flour, butter, etc., will be delivered early in January.

PENSION DEPT. ANNUAL REPORT YEAR 1933.23.
1. Red Cross (Continued)Report of
Marquette County Chapter
American Red CrossFlour and Clothing Distribution.
From May 1, 1932 to June 30, 1933.

This report covers the activities of and the relief administered by the Marquette County Chapter of the American Red Cross in Marquette County for the period May 1, 1932 to June 30, 1933.

In covering this territory, larger in area than the State of Rhode Island, and consisting of nineteen townships with a population of 45,000, it was necessary to organize relief committees in each township to assist in the distribution of flour and cotton goods. These township committees, together with the Marquette County Poor Commission, the Family Welfare Society of Marquette, and the Women's Service Clubs of Ishpeming and Negaunee, have made possible the actual distribution of this relief to poor and needy families.

The distribution of this flour made from government wheat, ninety millions of bushels of which was transferred from the Federal Farm Board to the American Red Cross by Act of Congress and the approval of the President of the United States, has now been concluded. In all, a total of 39 cars, or 10,840 barrels of flour, have been received and distributed to 4,925 needy families, and have been handled and warehoused by F. B. Spear and Sons of Marquette, Winter & Suess of Negaunee, Cohodas Bros., and Carpenter Cook Company, of Ishpeming, absolutely free of charge. Transportation to outlying townships has been performed by Marquette County Road Commission trucks and distribution to homes has been undertaken by the city truck in Marquette, Winter & Suess in Negaunee, and Gwinn, Cohodas Bros., Carpenter Cook Company, Rosberg and Leffler stores in Ishpeming, M. C. Quinn in Champion, E. G. Muck in Michigamme, Republic Finnish Co-Operative Store and the B & B Mercantile Company in Republic, Davidson Department store in Palmer, Annala's store in Tilden township, Lena Cooper store at McFarland, Rock Co-operative store in Ewing township, Watson store in Wells township, Swanson's store in West Branch township, the A. P. Wilson, D. E. Frederickson, G. A. Johnson, and Wm. Latala stores in Skandia township, and also township committees in North Lake and the following townships: Chocolay, Ely, Humboldt, Marquette, Negaunee, Sands, and Wells.

Each application has been investigated by the local committee, and a beneficiary receipt secured on delivery of the flour or whenever cloth or garments were given out.

The cotton goods and bedding have all been warehoused at the Getz Department Store in Marquette where they are delivered and unpacked, inspected, and from which place they are distributed either to the Poor Commission or township committees, or the Family Welfare Society of Marquette, or the Women's Service Clubs of Ishpeming and Negaunee. The Getz Department store are not making any charge for the use of the building, and have donated the use of their truck on a number of occasions to carry large packages of goods to various places in the County.

The attached statements show the amount of flour and cotton goods available through the agency of the American Red Cross, how much has been given out, and what amount remains to be distributed. The larger statement shows the amount received (flour and cotton goods) by each city and township in commodity units and their value in dollars and cents.

PENSION DEPT. ANNUAL REPORT YEAR 1933

23.

1. Red Cross. (Continued)

RED CROSS RELIEF IN MARQUETTE COUNTY (May 1932 - June 1933)

	FLOUR		COTTON GOODS				Bedding\$	Total Value	Families Served
	bbls	\$	Yards	\$	Garments	\$			
Champion	283 $\frac{1}{2}$	1134.00	338	33.80	282	119.40	48.00	1335.20	128
Chocolay	79 $\frac{1}{4}$	317.00	396 $\frac{1}{2}$	39.65				356.65	38
Ely	238 $\frac{3}{4}$	955.00	538 $\frac{3}{4}$	53.87	192	57.60		1066.47	113
Ewing	201 $\frac{1}{4}$	805.00	664 $\frac{1}{4}$	66.45	204	63.60		935.05	50
Forsyth	979 $\frac{1}{4}$	3917.00	2382 $\frac{1}{4}$	238.23	2160	963.00	48.00	5166.23	336
Humboldt	289 $\frac{3}{4}$	1159.00	306	30.60	494	225.60	16.00	1431.20	125
Ishpeming	303	1212.00	.930	93.00				1305.00	125
Ishpeming City	1985	7940.00	3152 $\frac{1}{2}$	315.25	3157	1325.80	93.15	9674.20	990
Marquette City	1112	4448.00	4185 $\frac{3}{4}$	418.58	2616	1090.80	116.00	6073.38	734
Marquette Township	85	340.00	298 $\frac{3}{4}$	29.88				369.88	24
Michigamme	194 $\frac{1}{4}$	778.00	198 $\frac{1}{2}$	19.85	276	128.40	48.00	974.25	69
Morgan Heights San.			223 $\frac{1}{2}$	22.35	60	13.20		35.55	
Negaunee City	1931 $\frac{1}{2}$	7726.00	3562 $\frac{3}{4}$	365.28	3251	1338.50	81.40	9502.18	892
Negaunee Township	122 $\frac{1}{4}$	489.00	576	57.60				546.60	50
Powell	326 $\frac{1}{4}$	1305.00	1764 $\frac{3}{4}$	176.48	558	273.60		1755.08	133
Republic	761 $\frac{3}{8}$	3046.00	2223	222.30	2226	949.20	83.00	4300.50	332
Richmond	856 $\frac{3}{8}$	3426.00	1524 $\frac{1}{2}$	152.45	1850	778.65		4357.10	311
Sands	85 $\frac{1}{2}$	342.00	407 $\frac{1}{2}$	40.75				382.75	30
Skandia	205 $\frac{3}{4}$	823.00	452 $\frac{1}{2}$	45.25	252	78.00		946.25	104
Tilden	390 $\frac{1}{4}$	1563.00	1037 $\frac{1}{4}$	103.73				1666.73	209
Turin	98	392.00	386 $\frac{1}{4}$	38.63				430.63	50
Wells	226 $\frac{1}{2}$	906.00	1264 $\frac{3}{4}$	126.48				1032.48	60
West Branch	49 $\frac{1}{4}$	197.00	302 $\frac{3}{4}$	30.28				277.28	20
Infirmery	25	100.00						100.00	
Holy Family Orphanage	10	40.00	524 $\frac{1}{4}$	52.43				92.43	
Red Cross Nurse			116	11.60	24	4.80		16.40	
Visiting Nurse Asso.					36	7.20		7.20	
Totals	10840	\$ 43360.00	27757$\frac{1}{4}$	2775.73	17638	7417.35	533.55	54086.63	4925
Cost per family		\$ 8.80		.56		1.51	.11	10.98	

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.
1. Red Cross (Continued)

TOTAL RED CROSS RELIEF RECEIVED AND AVAILABLE.

	<u>FLOUR</u>		<u>Cotton Goods.</u>					
	Bbls.	Value	Yards	Value	Garments	Value	Bedding	Total Value
Total Relief	10840	43360.00	50000	5000.00	30864	12300.00	1277.00	61887.00
Distributed	10840	43360.00	27757 $\frac{1}{4}$	2775.73	17638	7417.35	533.55	54086.63
To be Distributed			22242 $\frac{3}{4}$	2224.27	13226	4882.65	743.45	7800.37

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

m. Relief Work.

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

Following is a list of the assistance rendered.

	<u>Ishpeming</u>	<u>Negaunee</u>	<u>Republic</u>	<u>Gwinn</u>	<u>Total</u>
January	87.94	82.60	6.51	8.76	185.81
February	211.33	78.63	18.16	8.21	316.33
March	156.91	73.25	19.73	8.47	258.36
April	121.88	71.90	12.94	7.72	214.44
May	186.11	90.14	13.10	7.93	297.28
June	201.31	146.64	19.12	17.31	384.38
July	118.50	99.07	25.48		243.05
August	188.89	149.18	22.33	9.47	369.87
September	159.87	138.53	19.45	9.97	327.82
October	180.62	176.81	18.04	11.21	386.68
November	281.97	328.41	29.94	9.23	649.55
December	<u>234.24</u>	<u>177.45</u>	<u>43.34</u>	<u>20.08</u>	<u>475.11</u>
	2129.57	1612.61	248.14	118.36	4108.68

No. of families assisted	25	14	2	1	42
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Average amount of relief per family \$ 97.82

23.

n. Employment.

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

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

c. Incapacitated Employees.

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

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

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

DONATIONS TO INCAPACITATED EMPLOYEES.

	Monthly Rate for Yr. 1933	To tal Amount paid during 1933.	
Fred Fredette	20.00	240.00	
Sam Methereil	14.40	172.80	
August Samuelson	20.00	240.00	
John Aho	14.40	172.80	
Bennett Andrew	16.00	192.00	
Thomas Davey	16.00	96.00	Died June 29, 1933.
Andrew Niemi	16.60	199.20	
Edmond Durante	20.00	240.00	
August Walline	20.00	240.00	
Isaac Nikka	20.00	100.00	Died May 3, 1933.
Axel Erickson	20.00	240.00	
Edw. Van Langenhoven	20.00	240.00	
Nick Detoma	18.00	216.00	
Edwin J. Goodman	20.00	240.00	
Henry Maki	20.00	240.00	
Donato Valenzio	20.00	240.00	
William Anderson	20.00	240.00	
Fred Carlson	16.00	192.00	
Napoleon Mayrend	<u>17.66</u>	<u>211.92</u>	
		3952.72	

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	<u>240.00</u>
		1163.88

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

o. Incapacitated Employees. (Continued)

DONATIONS TO WIDOWS.

	<u>Monthly rate for year 1933</u>	<u>Total amount paid during 1933.</u>
Mrs. John Makela	20.00	240.00
Mrs. Rose Bertucci	12.00	144.00
Mrs. Wilhelmina Marjamaa	12.00	144.00
Mrs. Henry Karkkainen	12.00	144.00
Mrs. Mathilda Carlson	12.00	144.00
Gust Myllimaki Estate	12.00	144.00
Mrs. Kate Tuomela	16.00	<u>192.00</u>
		\$ 1152.00

Amount of Donations paid to Incapacitated Employees during 1933	\$ 3952.72
Amount of Donations paid to incapacitated Holmes Mine employes	1163.88
Amount of Donations paid to Widows during 1933	<u>1152.00</u>
Total	\$ 6268.60

PENSION DEPT. Annual Report Year 1933.

23.

p. Cost of Living.

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

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

We have made one complete calculation of Cost of Living, this being on December 15, 1933.

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

The Government reports show that the index number for cost of living in November 1933 as compared with 1914 is 125.49. This gives the value of \$1.00 as compared with its value in 1914 .7969.

From our own calculations and prices furnished to us by the merchants here the cost of living in Ishpeming is a little lower than in some other places. Our index figure for the cost of living as compared with 1914 is 107.65. The value of \$1.00 in the cost of living in Ishpeming on December 15, 1933 was 93.414¢ as compared with 1914.

q. Improvement Work.

We were without the services of Mr. Warren H. Manning throughout the year, and also those of Mr. Julien Payen after early in the spring.

The work at the different locations was looked after by the superintendents for each property and the work done was in the nature of maintenance and no new work undertaken.

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

r. Prize Premises.

No prizes were offered for the season of 1933, but the people continued to have an interest in keeping their properties in good condition and the homes of our people showed the usual excellence.

s. Community Service Work.

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

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

t. Clubs.

On account of the men being so generally out of work, no club meetings were held during the year.

u. Outdoor Sports.

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

This was conducted in an economic manner and without any considerable cost to any one. It was a very successful tournament and the records are continually being bettered as the hill is improved.

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

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

w. Various Departments.

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

We have visited the camps of the Land Department and assisted Mr. Clancey in preparing for hearings in cases brought before the Department of Labor and Industry.

One case of special importance was brought up on account of an injury to a man by the name of Gregory Stambulich, at the Gladstone Furnace in 1918. This case was tried at Escanaba on September 19th by the Deputy Commissioner and the decision was in our favor. The decision was appealed from and a hearing before the Full Board was held at Marquette on October 31st and the Board upheld the decision of the Deputy Commissioner which was in favor of the Company.

This was a very important case for if the decision had been in favor of the former employee all sorts of cases might have been dug up by those lawyers who make a business of compensation cases.

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

PENSION DEPT. ANNUAL REPORT YEAR 1933.23. Various Departments (Continued)LAKE SUPERIOR & ISHPEMING RAILROAD CO.COMPARATIVE STATEMENT OF GENERAL WELFARE EXPENSEFOR THE YEARS 1929 to 1933 INCLUSIVE.

	<u>1929</u>	<u>1930</u>	<u>1931</u>	<u>1932</u>	<u>1933</u>
<u>Donations:</u>					
Fire Department	35.00	35.00	35.00	30.00	25.00
Celebrations		100.00			
Ishpeming Y.M.C.A.	200.00	200.00	200.00		
Visiting Nurse-Marq.	90.00	120.00	120.00	120.00	120.00
St. Luke's Hospital	400.00	400.00	400.00	400.00	400.00
To Employees & families				200.00	203.40
Pensions	<u>396.00</u>	<u>947.85</u>	<u>1165.34</u>	<u>2207.88</u>	<u>2207.88</u>
	1121.00	1802.85	1920.34	2957.88	2956.28
<u>Compensation:</u>					
Compensation Paid	3264.71	2465.53	2308.00	3249.20	2548.30
Medical Expense	1076.21	535.29	693.21	305.81	763.05
Percentage of Pay-rolls					
Acct. Comp. Payments	..0033	.0027	.0027	.0096	.0049

PIONEER IRON COMPANY FURNACE DEPT.

COMPARATIVE STATEMENT OF GENERAL WELFARE EXPENSE
YEARS - 1930, 1931, 1932 AND 1933.

	<u>1930</u>	<u>1931</u>	<u>1932</u>	<u>1933</u>
<u>General Welfare Acct. #11.</u>				
A-2 Prop. Charged by Treas.	1522.78	771.85	438.88	444.61
B Prizes to Tenants				
Christmas Baskets	25.11			
Community Chest				
Flowers - Deceased Employees		22.00	5.00	
Marq. Independent Basketball League	16.00			
Dinner for employees who assisted Alfred Mallette	48.75			
<u>Donations.</u>				
American Legion		12.00		5.00
Fire Department		10.00	5.00	5.00
Persons	427.18	673.00	681.00	637.34 #
B. of. R. T. (Railroad Trainmen)			5.00	5.00
Community Chest	375.00	375.00	281.25	131.25
Michigan Regimental Reunion	25.00			
<u>Institutions.</u>				
St. Luke's Hospital				
Tubercular Stamps	400.00	400.00	100.00	
		10.00	5.00	5.00
<u>Pensions Paid</u>	<u>6191.42</u>	<u>5531.30</u>	<u>3327.09</u>	<u>2528.04</u>
TOTAL	9031.24	7805.15	4848.22	3761.24
<u>Safety Work.</u>				
Charges for work and equipment	70.58	41.18	53.04	92.77
<u>Compensation</u>				
Medical and Hospital Expense	3861.51	1664.37	1938.61	2592.92
Compensation Paid	2204.81	1795.54	1209.16	2892.70
<u>Compensation Payments - Percentage of Payrolls</u>				
Marquette plant	.004762	.008992	.0093413	.0148822

Detail of donations - persons.

	<u>1933</u>	
Mrs. George Cameron	240.00	
Mrs. George Cameron	27.84	(Wood)
Patsy DePetro	60.00	
Julius Olson	300.00	
Mrs. George Wilder	9.50	(Coal)
	<u>\$ 637.34</u>	

PENSION DEPT. ANNUAL REPORT YEAR 1933.

23.

w. Various Departments (Continued)

LAND DEPARTMENT

COMPARATIVE STATEMENT OF GENERAL WELFARE EXPENSE

FOR THE YEARS 1930 to 1933 INCLUSIVE.

	<u>1930</u>	<u>1931</u>	<u>1932</u>	<u>1933</u>
<u>General Welfare Acct. No. 11.</u>				
A-2 Prop. Charged by Treasurer	217.13	821.38	318.08	323.01
11-F Miscellaneous Expense	<u>810.96</u>	<u>810.96</u>	<u>523.47</u>	<u>246.51</u>
	1028.09	1632.34	841.55	569.52
<u>Donations:</u>				
Negamee Fire Department	10.00	10.00	10.00	
Munising Fire Department		10.00	10.00	10.00
U. P. Development Bureau	750.00	750.00	500.00	500.00
Alger County Club	9.16			
D. W. McDougall	61.00			
Forest Taxation	300.00			
Sacred Heart Church - Munising		12.31		
Brotherhood of Railroad Trainmen- #612 Marquette		10.00		
Christmas presents to school children - Logging Operations			25.00	28.18
<u>Compensation:</u>				
a. Funeral Expense				
d. Legal Expense				
g. Medical expense	10.55			
h. Compensation	286.80	99.00		
i. Monthly payments to doctors	89.00	99.50	82.50	86.00
Percentage of Payrolls				
Actual Compensation Payments	.00552	.00146	-	-
<u>Safety Work - Logging Operations:</u>				
Supplies		129.09		23.27
<u>Compensation - Logging Operations.</u>				
Medical and Hospital		6798.12	3106.16	4103.12
Compensation Payments		6882.28	5394.33	5620.88
Compensation Insurance Premium				7116.76
Percentage of Payroll		.07166	.06475	.0891

