



ANNUAL REPORT  
1920



The Cleveland-Cliffs Iron Co.  
LAND DEPARTMENT  
NEGAUNEE, MICHIGAN.

MS 85-100  
2035

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MISSOURI  
FEBRUARY 1892

Mr. W. G. Baker, President,  
1100 Kirby Building,  
Cleveland, Ohio.

A N N U A L R E P O R T

YEAR 1920

LAND DEPARTMENT - NEGAUNEE, MICHIGAN

of The Government-Wholesale Land Company, Land Department, and  
its subsidiary companies for the fiscal year 1920.

Respectfully,

*C. R. Townsend*  
Land Agent.

1920

NEGAUNEE, MICHIGAN, February 8th, 1922.

Mr. Wm. G. Mather, President,  
1100 Kirby Building,  
Cleveland, Ohio.

Dear Sir:

I hand you herewith ANNUAL REPORT  
of The Cleveland-Cliffs Iron Company, Land Department, and  
its subsidiary companies for the fiscal year 1920.

Respectfully,

*C. V. P. Townsend*  
Land Agent.

CVRT:P

A N N U A L R E P O R T

THE CLEVELAND-CLIFFS

LAND DEPARTMENT - NEGAUNEE, MICHIGAN

General	1
Report of Mr. G. M. ...	25
Report of Mr. A. ...	28
Report of Mr. A. G. ...	32
Forest Fires	40
Wildfires	41
History of Land and Timber Sales	42
Land	43
THE CLEVELAND-CLIFFS IRON COMPANY	44
Land	45
ARCTIC IRON COMPANY	47
Registered at Hotel ...	48

ARCTIC IRON

AMERICAN IRON MINING COMPANY

Land	50
BUNKER HILL MINING COMPANY	50

AMERICAN IRON MINING COMPANY

Land	51
------	----

BUNKER HILL MINING COMPANY

Land	52
------	----

I N D E X

THE CLEVELAND-CLIFFS IRON COMPANY

General Remarks	1
Report of Mr. C. H. Slater, Forester	26
Report of Mr. A. J. Erickson, Collector	28
Report of Mr. A. O. Jopling, Engineer in Charge	32
Forest Fires	40
Receipts	41
Statement of Land and Timber Sales	42
Lands Purchased	43
Land Acreage	44
Lands Owned and Controlled	47
Statement of Number of Guests Registered at Hotel Wms.	48

ARCTIC IRON COMPANY

<u>Land Acreage</u>	50
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AMERICAN IRON MINING COMPANY

<u>Land Acreage</u>	51
---------------------	----

BUNKER HILL MINING COMPANY

<u>Land Acreage</u>	52
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LAND DEPARTMENT REPORT FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1920

The Land Department has under its care and supervision the lands of The Cleveland-Cliffs Iron Company, Arctic Iron Company, American Iron Mining Company, Michigamme property, and Bunker Hill Mining Company.

The work of the Department consists of the careful supervision of the company lands; the prevention of trespasses of every kind; protecting the timbered lands and forest products from fire; the locating and establishing of woodworking manufacturing plants at points tributary to the company railroads; the sale and leasing of farm stock and produce; the sale and leasing of lots in the various villages and cities; the sale of timber stumpage to the woodworking plants within the districts mentioned, the collection of rents and all moneys from such sales and leases; studying the general conditions of the company's tenants and the locations in which they live, and encouraging improvements in the various cities, townships and villages in which the companies are interested; the operating and maintenance of Grand Island Forest and Game Preserve and Improvements, Hotel Williams and Cottages, Forestry Operations, Munising Sawmill and its various branches, and the operations conducted by various woodworking and other industries on the companies' lands and within its territory. It is also the duty of the Land Department to look after land titles, assessments and levy of taxes, and the payment of same.

LANDS PURCHASED

Statement showing purchases made during the year is included with this report; the only one of importance being the Dalton Sawmill property located at New Dalton, together with 320 acres of timber lands located in Town 46 North, Range 23 West.

TIMBER SALES

Covered by Mr. Erickson's report, which is attached hereto.

LAND SALES

A statement showing the land sales in detail for the year is made a part of this report.



## TIMBER SALES TO MANUFACTURERS

### Munising Paper Company

Their operations on Lac La Belle lands are being conducted by the Lumbering Department of The Cleveland-Cliffs Iron Company in the so-called Vail Spur District with the exception of a few small jobbers operating for them in the so-called Cusino and Chapel Lake Districts.

In the late summer the Paper Company felt that its supply in sight of logs and pulpwood would not be sufficient to carry them through to the winter of 1921 - 1922. The general activity in all lines of business and scarcity of men indicated there would be a considerable shortage of forest products developed during the winter of 1920 - 1921 and for these reasons they started out to purchase their requirements. We sold them three to four million feet of peeled hemlock logs at \$35.00 per M feet delivered their plant either on cars or in boom by Lake delivery.

### General

Due to the high prices prevailing and the activities of buyers there was quite a large amount of forest products developed by farmers or small independent jobbers along the M. M. & S. E. Ry. The quantities were much larger than in former years and ready customers were willing to pay good prices for all classes of forest products. Not only were the manufacturers along the line of this railroad anxious to buy but outside representatives were present from Escanaba, Menominee and the Fox River Valley.

Woods labor, due to the general activities, was difficult to obtain and work was very inefficient and unsatisfactory. The lumberjack could work two or three days a week and have as much money in that time as he could earn in a week in general times with the result that he did not care to keep money but just to work enough to get sufficient money to supply his immediate needs. With this indifference it was very difficult to get a fair amount of work out of the men resulting in high costs of production.

### Woodworking Industries

#### Piqua Handle Company - Marquette

This plant has worked continuously throughout the year. The labor shortage

and wage disputes caused some shutdowns and inconvenience, otherwise they report their output satisfactory and operations making headway. They experienced some shortage in logs, having completed their cut from the American Iron Mining Company lands near Michigamme and depending on buying from independent producers along the D. S. S. & A. Ry. This plan, however, did not work out satisfactorily due to the general business activity and the large number of buyers on the market.

#### Munising Woodenware Company

Its operations have been seriously inconvenienced and unsatisfactory due to the inefficient labor and the Timberworkers Union strike which closed the mills for about a five week period. They were not able to obtain a fully supply of veneer logs but had ample for the woodenware plant.

#### Brunswick-Balke-Collender Company

Their operations have been as active as the labor supply permitted. Their operations were curtailed during the Timberworkers strike and their general operations due to labor shortage did not permit their plant running at only about 50% capacity.

#### Schneider & Brown Sawmill - Marquette

Their mill operations ran continuously one shift and at times when labor was available night shift was added. They were completely shut down during the Timberworkers strike. They experienced the same labor shortage as developed in all manufacturing plants throughout the district.

Their financial condition made it necessary to get in additional working capital and the Dudley Lumber Company of Grand Rapids, Michigan, made some arrangement with them whereby they would supply the logs and the mill would saw and deliver the lumber on cars. This enabled them to conduct an extensive lumbering operation near Sidnaw and keep their mill fully supplied with logs.

#### Nufer Cedar Company Plant - Marquette

Operated continuously one shift during the year with the exception of the period of the Timberworkers strike. Their product is entirely re-sawed hardwood for tin plate boxes and they obtained their stock of low grade hardwood from the various sawmill plants throughout the district.

### Mangum Mill

Dismantled.

### New Dalton Sawmill

Due to the conditions existing in the lumber market during the Winter, it seemed advisable to increase our sawing capacity so as to enable us to cut our large supply of logs and get the lumber on the market as soon as possible in order to take advantage of the existing prices. We, therefore, purchased from the Dalton Lumber Company their plant located at New Dalton. This purchase was made in March and steps were taken immediately to put the plant in good condition so that it could be operated efficiently. Due to the scarcity of labor and inability to secure the necessary material, we were unable to get this plant into operation until July 27th. It was operated constantly until November 15th at which time, operations were discontinued due to the depression of the lumber market. Considerable difficulty was experienced in getting a crew organized and the work carried on efficiently. Also more or less difficulty was experienced in getting the new machinery properly adjusted and our costs were high for these reasons.

Our production cost, including depreciation and overhead expenses was \$15.657 per M feet; during the 82 days that the Mill was in operation, it produced 1,643,009 feet, an average of 20,037 feet per day.

### Munising Tannery Company

This plant ceased operations in the fall. It was in bad repair and the management claimed it was more expensive to do their work at Munising than at their other plants and their bark on hand not used was removed to their other tanneries and much of the machinery and other usable articles were removed. The plant site is now offered for sale. The closing of this plant makes a considerable difference in the employment of labor at Munising. It employed an average of 80 men per month and the plant has been paying from \$18,000 to \$23,000 in taxes per year. This loss is severely felt.

### Helena Land & Lumber Company Mill - Little Lake

Operated continuously during the year one shift with the exception of the period covered by the Timberworkers strike. The logs supplying this plant were coming principally from M. M. & S. E. points in the vicinity of Lawson from lands purchased from the C. & N. W. Ry. Co.

#### CLIFFLAND FARM - RUMBLY

Due to general business activities and high prices paid to all classes of labor there was very little purchasing of improved farm lands and we were unable to find a purchaser. It was, therefore, necessary to do some active farming to meet the overhead costs and keep the lands free from weeds and deterioration. The season for all crops was good and the production excellent. The crops were harvested in good condition and found a ready market. The total operating expense was \$8,538.45 and the revenue from the sales of crops to December 31st was \$8,444.18. The inventory value of unsold crops on December 31st was \$1,236.50.

#### GREENHOUSES

The greenhouses were not operated during the year. Expenses for taxes, insurance and minor items amounted to \$153.51. There was no revenue.

#### FOREST FIRE PROTECTION

The hot, dry period of short duration the latter part of May resulted in forest fires breaking out generally throughout the Upper Peninsula. The most serious loss to the Company occurred at Fredeen Camp #2; the fire being caused by fishermen not extinguishing their camp fire. The loss of forest products was \$24,535.32 and the amount of insurance recovered was \$20,158.98.

We are not patrolling the company's lands with our own forces. This work is now under charge of the State who have placed a number of patrolmen throughout the Upper Peninsula.

#### UPPER PENINSULA DEVELOPMENT BUREAU

The efforts of the Bureau during the year were concentrated principally on advertising for tourists and of a general nature. Owing to the poor condition of the wool and mutton market there was very little activity in the grazing proposition with the result that the Bureau did not make any particular attempt to induce additional grazers to locate. The management of the Bureau was under the same head as the previous year and their work is receiving very good support from the public in general.

#### BALDWIN KILN PLAINS LANDS

THERE is nothing to report in this matter.

TAXES

Comparative tax statements have been forwarded your office showing the increase or decrease in taxes in the various townships in which the Company owns land. The taxes are increasing yearly. Last year there was a slight increase in nearly all of the townships in which we are interested due to the fact that more money was raised for school and road purposes. The various townships and cities have increased the salaries of their school teachers which is reflected in the amount of taxes assessed. Considerable sums of money were spent in building of township and county roads which are of direct benefit to lands in opening up the country.

LOGGING OPERATIONS

August A. Anderson - Contract No. 405

An agreement was entered into with August A. Anderson on June 14, 1919 whereby he was to superintend, for the Company, the work of getting out scattered timber on certain descriptions in Sections 4 and 9, Town 45, North, Range 21 West. We had invested in this work up to December 31st, 1920, \$1,945.80, deliveries having been made to the value of \$17,909.84, leaving a loss to the Company of \$1,135.96. Deliveries to the close of 1920 have been as follows:

Saw Logs	-	245,508 ft.
Ties	-	15,516
Cedar Cuts	-	795
Posts	-	6,374
Poles	-	106
Pulpwood	-	178 cords
Bark-	-	5½ cords

No materials remain in the woods, there being 4,000 ties and 5,000 feet of saw logs remaining on the landing.

Roy Carr - Contract No. 378

This contractor was closed out in May 1919 and a new contract given to John Peterson to complete the work, the new contract being No. 427. At the close of December, the contractor's loss was \$2,986.48, which had been assumed by the Company with a loss to us of \$2,047.68.

Connor Brothers - Contract No. 316

This contract is dated August 1st, 1918 and covers the timber located on certain lands in Section 35, Town 44, North, Range 24 West. During the past year, we have taken direct control of this operation in an endeavor to complete the

deliveries of products contained thereon. The contractors have incurred thus far a loss of \$15,337.67, which being charged into the operating cost of the job, makes it show a loss of \$9,506.69. The deliveries during the year were:

63,383 ft.	- Logs
1,822	- Ties
115	- Cedar Cuts
1,785	- Posts
99 cd.	- Pulp
15 "	- Bark
51 "	- Lagging
16,373 lin.ft.	- Stulls

Davenport & Underhill - Contract No. 259

This contract was entered into in May 1916 and contemplated the removal of the hemlock timber from certain portions of Grand Island estimated to contain approximately 7,085 M feet.

On June 1st, these contractors were closed out, they being behind \$62,780.06 with a loss to the Company of \$24,714.71. Since that time, this operation has been conducted by the Company under the name of the Grand Island Log Job. Previous to this contract being taken over, these contractors delivered in 1920:

3,385,746 ft.	- Logs
603 cd.	- Bark

The total operating expenses of the Grand Island Log Job at the close of the year amounted to \$40,193.21. No deliveries have yet been made under this contract name.

Lumbering Department Operations - Forest Lake Job

This operation was commenced in December for the purpose of cleaning up the softwood on certain portions of Sections 32 and 36, Town 46 North, Range 20 West, located between the M. M. & S. E. Ry. and the Alger County road. The estimates show this land to contain 444,500 feet of logs ; 50 posts, 6,180 cords of hardwood. Deliveries for the month and year were 58,356 feet of logs with a resulting profit to the company of \$250.68.

Gust Fredeen - Contract No. 255

This operation was started in May 1916 and contemplated the removal of the timber from certain lands in Towns 46 and 47 North, Range 28 West, and Town 47 North, Range 27 West. The lands originally covered in this contract carried approximately 14 million feet of saw timber, 5,600 cords of bark, 100 pieces of cedar, 4 M cords of pulp, 21 M cords of hardwood and 58 M pieces of shingle timber. There have been

additional lands assigned since the original contract was entered into that brings the total quantities of material to 49,839,720 feet of logs, 96,100 ties, 33,200 cedar cuts, 181,970 posts, 49,722 cords of pulp, 19,745 poles, 13,892 cords of bark, 535 cords of lagging. During the calendar year, the deliveries of logs and other materials from this operation total 11,895,596 feet of logs, 75,242 ties, 26,137 cedar cuts, 43,708 posts, 284 poles, 2,671 cords of pulp, 657 cords of hardwood, 2026 cords of bark, 136 cords of lagging and a few stulls and switch ties.

At the end of the year, the contractor was behind \$94,770.94 as compared to \$38,566.45 at the end of 1919. In November, it was decided to increase the contract prices for various materials as follows:

Chemical Logs	-	\$15.00 per M
Hardwood	-	6.50 per cord
Saw Logs	-	16.00 per M
Bark	-	11.50 per cord
Posts	-	.16 each
Ties	-	.65 and .45 each
Shingle Cuts	-	.20 and .40 each
Spruce Pulpwood	-	10.00 per cord
Hemlock Pulpwood	-	9.00 per cord
Balsam	" -	9.00 " "

due to the increased cost of labor. Assuming the contractor's loss of \$94,770.94, the result of the operation shows a profit to the Company of \$13,747.25.

Estimates of materials located on the C. & N. W. Ry. lands in Sections 27 and 33, Town 47 North, Range 23 West, as purchased by the Company, were as follows:

Logs	-	7,566,000 feet
Cedar	-	40,150 pieces
Bark	-	3,500 cords
Pulp	-	1,035 cords
Hardwood	-	7,900 cords

There has been delivered by the contractor, at the close of 1920, the following materials from these lands:

Logs	-	7,400,008 feet
Cedar	-	5,028 pieces
Bark	-	1,500 cords
Pulp	-	78 cords

C. D. Hubbard - Contract No. 462

This contract is dated June 28th, 1920. The work is to be completed June 1st, 1921. It covers the  $S\frac{1}{2}$  of  $S\frac{1}{2}$  of Section 11, Town 47, North, Range 22 West and is estimated to contain:

Logs	-	820 M
Ties	-	3,000
Posts	-	7,500
Poles	-	800

Pulp	-	515 cords
Hardwood	-	300 "
Bark	-	235 "

No material was delivered previous to December 31st, 1920. In November, in view of the increased cost of supplies and labor, the prices on softwood saw logs was increased from \$14.00 to \$15.00 per M feet and on hemlock bark from \$10.00 to \$11.50 per cord.

August A. Johnson - Contract No. 398

This contract is dated May 1st, 1919 and was to be completed June 1st, 1920. It covers the timber on the S $\frac{1}{2}$  of NW $\frac{1}{4}$  of Section 30, Town 46 North, Range 23 West. The estimates show that these descriptions contain 409 M feet of logs, 170 ties, 75 posts, 38 cords of pulp, 2,000 cords of hardwood, 40 cords of bark.

In November, this contractor was instructed to make all available efforts to deliver as much chemical logs and cordwood as possible from areas contained in the contract, at prices of \$15.00 per M feet for chemical logs and \$6.50 per cord for hardwood, delivery to be made prior to May 1st, 1921. Deliveries for the past year were as follows:

Logs	-	389,692 feet
Ties	-	408
Hardwood	-	221 cords
Bark	-	92 cords

The contractors profit was \$1,123.48 with a resulting profit to the Company of \$3,147.51. 800 cords of cordwood remain at the stump undelivered.

Frank J. Johnson - Contract No. 304

This contract was entered into in June 1917 and contemplated the removal and delivery of the timber on the N $\frac{1}{2}$  of SW $\frac{1}{4}$  of Section 20, Town 46 North, Range 23 West. Deliveries for the past year were: 144,233 feet of logs, 460 ties. The Contractor incurred no loss that was assumed by the Company and the profit on the operation was \$2,124.28.

Oliver La Fonde - Contract No. 463

This contract is dated July 1st, 1920 and covers the timber on the N $\frac{1}{2}$  of N $\frac{1}{2}$  of Section 30, Town 44 North, Range 21 West which is estimated to contain 544 M feet of logs, 250 ties, 1,300 posts, 50 poles, 90 cords of pulp, 1,800 cords of hardwood, and 125 cords of bark. The deliveries are to be completed by June 1st, 1921. For the calendar year, 1920, 13 cords of hardwood and 34 cords of bark have



been delivered. This contractor has 100 M feet of logs in the woods. He has been advanced \$354,61 more than the value of his inventory with a loss thus far of \$581.45.

John V. Lustila - Job No. 1 - Contract No. 352

This contract is dated June 20th, 1918 and covers the timber on the NE $\frac{1}{2}$  and the NE $\frac{1}{4}$  of NW $\frac{1}{4}$  of Section 10, Town 47 North, Range 22 West. The deliveries for the year were 126,027 feet of saw logs, 569 ties, 22 cords of bark.

The contractor has not removed any of the hardwood of which the estimates show 1,185 M feet of saw timber. He incurred no loss that was assumed by the Company and the operation shows a profit of \$6,193.60.

John V. Lustila - Job No. 2 - Contract No. 454

This contract is dated May 15th, 1920 and covers the NE $\frac{1}{2}$  of SW $\frac{1}{4}$ , S $\frac{1}{2}$  of SW $\frac{1}{4}$ , and SE $\frac{1}{4}$  of Section 14, Town 47 North, Range 22 West; deliveries to be completed by June 1st, 1921. Materials contained on these descriptions were estimated as follows:

Logs	-	1,793,000 feet
Ties	-	1,250 ties
Posts	-	4,800
Stulls	-	350
Pulpwood	-	395 cords
Hardwood	-	650 "
Bark	-	670 "

No deliveries have been made prior to December 31st, 1920 with the exception of 24 cords of bark. This contractor has produced in the woods, 1,150,000 feet of logs, 760 cords of bark, 865 ties, 23 cords of pulp, the value of this inventory over the amounts advanced being \$2,994.72. The operation, thus far, shows a loss of \$173.36 to the Company.

In view of the increased cost of supplies and labor, in November, the price of bark was increased from \$10.00 to \$11.50 per cord and softwood saw logs from \$14.00 to \$15.00 per M feet.

Victor Maki - Contract No. 455

This contract is dated May 17th, 1920 and covers the SW $\frac{1}{4}$  of SW $\frac{1}{4}$  of Section 14 and N $\frac{1}{2}$  of SW $\frac{1}{4}$ , SE $\frac{1}{4}$  of SW $\frac{1}{4}$  and SE $\frac{1}{4}$  of Section 23, Town 45 North, Range 24 West. It is estimated to contain:

Logs	-	2,541 M feet
Ties	-	600
Posts	-	4,000
Pulpwood	-	1,085 cords
Hardwood	-	875 cords
Bark	-	815 cords

Delivery is to be completed June 1st, 1921.\* During the calendar year, there were delivered 46,149 feet of logs, 14 cords of pulp, 138 cords of bark, 5,744 lineal feet of stulls. Over two million feet of logs have been cut and skidded. We have assumed the contractor's loss of \$10,023.99, our loss being \$11,572.76. In November the price on chemical logs was increased from \$13.00 to \$15.00 per M feet; on hardwood from \$6.00 to \$6.50 per cord, on bark from \$10.00 to \$11.50 per cord, and on spruce pulpwood from \$9.00 to \$10.00 per cord, due to the increased cost of supplies and labor.

Toni Miller - Contract No. 420

This contract is dated December 1st, 1919 and work was to be completed June 1st, 1920. It covers the timber on the SE $\frac{1}{4}$  of NE $\frac{1}{4}$  and E $\frac{1}{2}$  of SE $\frac{1}{4}$  of Section 32, Town 45 North, Range 21 West, which is estimated to contain:

Logs	-	797,500 feet
Ties	-	400
Posts	-	1,250
Poles	-	350
Pulpwood	-	155 cords
Hardwood	-	2,100 cords
Bark	-	120 cords

Deliveries for the calendar year have been 310,978 feet of logs, 186 ties, 748 cedar cuts. This job shows a loss of \$769.12 to the contractor with a profit to the Company of \$1,297.04.

A. Mushlock - Contract No. 303

This operation was started in May 1917 and covers the delivery of timber on certain descriptions in Section 28, Town 47 North, Range 20 West. The deliveries for the year were:

Logs	-	272,128 feet
Ties	-	540
Cedar Cuts	-	6,099
Posts	-	2,387
Pulp	-	157 cords
Bark	-	41 cords
Lagging	-	160 cords
Stulls	-	5,000 feet

The loss incurred by the contractor was \$8,566.98 as compared to \$6,823.19 at the end of 1919. Assuming this loss, the Company made a profit on the operation of \$3,173.47.

This contract is dated December 12th, 1917 and covers the timber on the NE $\frac{1}{4}$  of NE $\frac{1}{4}$ , S $\frac{1}{2}$  of N $\frac{1}{2}$  and S $\frac{1}{2}$  of Section 29, Town 45 North, Range 34 West. No deliveries have been made for the current year. The contractor is now busy in cleaning up the cutting on these descriptions. The contractor has incurred no loss that was assumed by the Company and the profit on the operation is \$681.04.

Lumbering Department - Operation No. 73

This contract is dated January 2nd, 1916 and continues from year to year as lands in the Vail Spur district may be assigned. The deliveries from this operation during 1920 were:

Logs	-	4,987,684 feet
Ties	-	322
Cedar Cuts	-	274
Poles	-	102
Pulp	-	59 cords
Bark	-	909 cords

The operation has resulted in a profit to this Department of \$13,963.57 as compared at the end of 1919 of \$474.86.

Lumbering Department - Operation No. 119

This is an operation commenced in November for the removal of certain products located on lands north of Chatham in Town 46 North, Range 20 West and Town 46 North, Range 21 West, estimated to contain:

Logs	-	44,703,500 feet
Ties	-	36,400
Posts	-	45,200
Poles	-	3,370
Pulp	-	3,925 cords
Hardwood	-	171,825 cords
Bark	-	3,581 cords

Deliveries for the calendar year were 76,151 feet of logs, with a resulting profit to the Company of \$106.12.

John Peterson - Contract No. 393

This contract is dated May 5th, 1919 and the work is to be completed June 1st, 1921. It covers the timber on the W $\frac{1}{2}$  of NW $\frac{1}{4}$  of Section 30, Town 46 North, Range 22 West, entire Section 25 and SE $\frac{1}{4}$  of SE $\frac{1}{4}$  of Section 36, Town 46 North, Range 23 West, a total of 760 acres.

The estimates show this land to contain:

Logs	-	2,854,000 feet
Ties	-	12,450
Cedar Cuts	-	20,850
Poles	-	2,370
Pulp	-	975 cords
Hardwood	-	7,575 cords
Bark	-	820 cords

The deliveries to December 31st, 1920 were:

Logs	-	2,586,885 feet
Ties	-	8,357
Cedar Cuts	-	3,714
Posts	-	3,693
Pulp	-	243 cords
Hardwood	-	441 cords
Bark	--	613 cords

The contractor had incurred a loss of \$20,213.34 and the Company's loss on this operation was \$8,905.79. However, there is close to three million feet of logs at the stump and skidded as well as a large quantity of piece stuff. In November, due to the increased cost of labor and supplies, the contract prices were increased from \$11.00 to \$15.00 for chemical logs, from \$5.00 to \$6.50 per cord for hardwood, from \$14.00 to \$16.00 for saw logs, from \$8.50 to \$11.50 per cord for bark, and from \$6.00 and \$7.00 for pulpwood to \$9.00 and \$10.00 per cord.

George Roberts - Contract No. 276

This contract was entered into October 14, 1916, covering certain lands located in Sections 4 and 8, Town 45 North, Range 18 West, making an assignment of 440 acres. During the year, deliveries totaled 531,500 feet of logs, 1,093 ties, 457 cedar cuts, 1,139 posts, 220 cords of pulp and 138 cords of bark.

In March, this contractor left his operation and Joseph Terrian was secured to deliver the material remaining in the woods at prices of so-much per piece. The contractor has incurred a loss of \$15,916.67 as compared to \$8,788.46 at the end of 1919. Assuming the contractor's loss, this operation has resulted in a loss to the Company of \$6,668.80.

Robert Shippy - Job No. 1 - Contract No. 413

This contract was entered into November 1st, 1919, the work to be completed December 31st, 1920 and covered the NW $\frac{1}{4}$  of NW $\frac{1}{4}$  and S $\frac{1}{2}$  of SW $\frac{1}{4}$  of Section 24, N $\frac{1}{2}$  of SE $\frac{1}{4}$  and SE $\frac{1}{4}$  of SE $\frac{1}{4}$  of Section 26, all in Town 46 North, Range 17 West. This land contains 658,000 feet of logs, practically all hardwood and 6,100 cords of hardwood.

The deliveries to December 31st, were 1,181,778 feet of logs. This operation shows a loss to the contractor of \$5,873.25 with a loss to the Company of \$618.79.

Robert Shippy - Job No. 2 - Contract No. 481

This contract was entered into November 17th, 1920 for the removal of materials from the E $\frac{1}{2}$  of NE $\frac{1}{4}$ , W $\frac{1}{2}$  of E $\frac{1}{2}$  and W $\frac{1}{2}$  of Section 27, Town 44 North, Range 24 West, making a total area of 560 acres, delivery to be completed June 1st, 1921. These lands were estimated to contain 361,000 feet of logs, 4,000 ties, 2,500 posts, 750 poles, 3,430 cords of pulp, 1,075 cords of hardwood, 98 cords of bark and 540,000 lineal feet of stulls. No deliveries have been made prior to December 31st. Advances to the contractor over and above inventory values amounted to \$4,388.13 with a loss to the Company of \$4,474.82. A very small amount of material has been cut due to the fact that the contractor has been engaged in building camps and cutting roads and skidways.

A. Skinner - Job No. 1 - Contract No. 345

This contract is dated May 15th, 1918, covering the W $\frac{1}{2}$  and W $\frac{1}{2}$  of SE $\frac{1}{4}$  of Section 18, Town 46 North, Range 17 West, making an assignment of 400 acres, deliveries on which were to be completed by May 1st, 1919. Due to the fact that fire had passed through these descriptions a year ago, Joseph Terrian was engaged to complete the removal of the material from this operation under verbal agreement, for which he was to receive \$17.00 per M feet for logs. No deliveries were made by him in the past year. These lands were estimated to contain:

Logs	-	2,005,000 feet
Ties	-	950
Posts	-	3,000
Pulp	-	625 cords
Bark	-	920 cords

Deliveries to date have been 781,241 feet of logs, 4,012 ties, 212 cords of pulp, and 395 cords of bark. This operation shows a contractor's loss of \$8,612.91 with a loss to the Company of \$6,596.34. 460,000 feet of logs have been cut and remain in the woods.

A. Skinner - Job No. 2 - Contract No. 394

This contract is dated May 16th, 1919 and is to be completed June 1st, 1921. It covers the timber on the NW $\frac{1}{4}$  of SW $\frac{1}{4}$  Section 15, entire Section 16, N $\frac{1}{2}$  of NE $\frac{1}{4}$ , NE $\frac{1}{4}$  of NE $\frac{1}{4}$  and NE $\frac{1}{4}$  of SW $\frac{1}{4}$  of Section 21, Town 47 North, Range 22 West, making a total assignment of 840 acres. The estimates show:

Logs	-	2,450,000 feet
Ties	-	6,875
Posts	-	20,900
Poles	-	850
Pulp	-	710 cords
Bark	-	1,005 cords

The deliveries as of December 31st for the year were:

Logs	--	1,231,446 feet
Ties	-	10,317
Cedar Cuts	-	2,008
Posts	-	2,048
Poles	-	226
Pulp	-	261 cords
Hardwood	-	14 cords
Bark	-	92 cords

The contractor had incurred a loss of \$10,080.63. The operation shows a profit to the Company of \$3,032.94.

#### General Logging Conditions

The winter of 1919- 1920 was most unusual. There was not a large amount of snow and the cold weather held off until well into the winter. This resulted in a large amount of work being accomplished in the woods, resulting in an active campaign to obtain men to increase all outputs. The labor indifference curtailed to a large extent the outputs of forest products which reflected in increased prices for all commodities.

#### Steam Log Hauler

Used to take out approximately two million feet of logs North and East of Echo Lake. The logs were in a very hill district and it would have been difficult for teams to haul the logs. No difficulty was experienced with the hauler which did excellent work and operated every day during the time the logs were coming out.

#### Market Conditions - Forest Products

Prices of all forest products brought high figures. There was an active demand with an excellent market. The chief difficulty in getting the products forward was due to the shortage of cars. Hemlock logs sold as high as \$35.00 delivered at plant; spruce and pulpwood \$16.00 per cord, f.o.b. cars, loading point, hemlock bark \$16.00 per cord, f.o.b. loading point, and other forest products brought proportionately high prices.

#### Sales of Forest Products

Our output of cedar poles was sold to the National Pole Company at the following prices:

4" top 20'	-	\$ .75
5" " 20'	-	1.00
6" " 20'	-	1.25
4" " 25'	-	1.00
5" " 25'	-	1.60
6" " 25'	-	2.50
7" " 25'	-	3.00
5" " 30'	-	2.65
6" " 30'	u	4.00
7" " 30'	-	5.25
6" " 35'	-	5.35
7" " 35'	-	8.50
6" " 40'	-	8.75
7" " 40'	u	10.50
6" " 45'	-	10.50
7" " 45'	-	13.50
6" " 50'	-	13.75
7" " 50'	-	15.00
7" " 55'	-	18.00
7" " 60'	-	23.00
7" " 65'	-	26.00

(F.O.B. cars - M. M. & S. E. Ry.)

A sale was made to the Northwestern Cooperage & Lumber Company, Gladstone, Michigan, of approximately the following amounts and kind of timber at the prices shown. This material was produced by the Lumbering Department at their operation 93 Spur 369, Rapid River Branch of the Soo Line, but as we had a full stock at the saw-mill we made a sale to these people.

300 M feet Hemlock	@	\$25.00	Per M feet	
30 Do. Spruce	@	25.00	Do.	
40 " Cedar	@	18.00	"	
65 " Elm	@	38.00	"	
35 " Basswood	@	38.00	"	
30 " Ash	@	30.00	"	
	(Tamarack	@	25.00	"
35 " (Pine	@	38.00	"	
	(Birch	@	38.00	"

A sale was made to Erickson & Bissell, Escanaba, Michigan, of our 1919-1920 output of White Cedar Posts, estimated at approximately 50 to 60,000 at the following prices, f.o.b. cars loading point:

4" and up 7' long	-	\$ .24 each
4" and up 8' long	-	.25 each
3" and up 7' and 8' long-		.11 each

A sale was made to the D. S. S. & A. Ry. Co. of the ties produced by our Jobber Arthur Skinner, Deerton, estimated at approximately 10,000 at the following prices:

	No.1	No.2	No.3	UR	SC
Hemlock and Tamarack	\$.76	.82	.93	.57	.35

A sale was made to the Furnace Department, Marquette, Michigan, of 18 Cedar Poles - 30' long 7" top at a price of \$.22 per foot f.o.b. shipping point. These poles were gotten out by our Jobber Gust Fredeen.

A sale was made to the Land & Timber Company, Escanaba, Michigan, of approximately three to four hundred cords of balsam and hemlock pulpwood, produced on the M. M. & S. E. Ry. at a price of \$8.75 per cord, f.o.b. cars.

A sale was made to the Brown Land & Lumber Company, Rhinelander, Wisconsin, of 100 cords of balsam and hemlock pulpwood at a price of \$7.00 per cord, fob. cars.

Our output of ties with the exception of those needed by the Company's own interests were sold to the C. & N. W. Ry. Co. at the following government prices:

	<u>Cedar</u>	<u>Tamarack</u>	<u>Hemlock</u>
No. 3	\$ .96	\$ .93	\$ .93
" 2	.85	.82	.82
" 1	.79	.76	.76
U.R.	.60	.57	.57
Culls	.38	.35	.35

The ties produced by our jobber August A. Anderson, Chatham, Michigan, estimated to be from 12 to 18,000 were sold to the M. M. & S. E. Ry. Co. at government prices above listed.

A sale was made to the Mining Department of 300 pieces of Peeled Hemlock 10 to 16' long, 12 to 14" tops, produced by our jobber Gust Fredeen at a price of \$28.00 per M feet f.o.b. shipping point.

A sale was made to the Land & Timber Company, Escanaba, Michigan, of 70 to 80 cords of spruce pulpwood to be shipped by our jobbers Fredeen and Peterson at a price of \$13.50 per cord.

A sale was made to the White Marble Lime Company, Manistique, Michigan, of 50 to 50 cords of spruce and balsam pulpwood remaining on the Grondin Job at a price of \$6.50 per cord on the ground.

A sale was made to the Railway Department of 30 to 35 carloads of 10 to 16 foot hemlock logs for switch tie purposes at a price of \$26.00 per M feet, this material to be shipped from our Fredeen job.

A sale was made to the Munising Paper Company of 2 to 3 million feet of hemlock logs produced on Grand Island at a price of \$35.00 per M feet f.o.b. cars or in boom at their mill.

A sale was made to the Northwestern Leather Company, Sault Ste. Marie, Michigan, of 200 cords of bark from our Munising Sawmill at a price of \$16.00 per cord.

A sale was made to The Munising Paper Company of 600 small ties produced by our jobber August A. Anderson, Chatham, Michigan, at a price of \$.45 each f.o.b. cars - loading point.



A sale was made to the Alpena Leather Corporation, Alpena, Michigan, of 1,500 cords of Hemlock Bark at a price of \$17.00 per cord of 2,240 pounds f.o.b. cars - loading point.

A sale was made to the Tanners Supply Company, Grand Rapids, Michigan, of 2,000 cords of Hemlock Bark at a price of \$16.00 per cord of 2,240 pounds, f.o.b. cars - loading point.

A sale was made to the Lumbering Department of approximately 1,000 ties produced on Juniper Spur at a price of \$1.10 each.

A sale was made to The Wm. Bonifas Lumber Company, Escanaba, of one-half million feet of Hemlock logs produced by our jobber Gust Fredeen at a price of \$33.50 per M feet f.o.b. cars - Yalmar delivery to be made prior to January 1st, 1921.

A sale was made to The Munising Woodenware Company, Munising, of approximately 400 M feet of Birch, Maple, and Beech logs produced by our jobber Robert Shippy on the East Branch at the following prices, f.o.b. cars

Birch	-	\$35.00	per M
Maple	-	30.00	" "
Beech	-	20.00	" "

A sale was made to Andrew Bjorkman of 1,500,000 feet of hemlock logs at \$27.50 per thousand.

A sale was made to the Tanners Supply Company of 1,500 to 2,000 cords of hemlock bark at a price of \$13.50 per cord with the assurance that they would pay us \$.50 per cord additional if the market becomes stabilized by February 1st and should bark sell for \$14.00 at that time, they will gladly allow the additional \$.50 per cord.

A sale of approximately 1,000 cords spruce and 20,000 cords of balsam and hemlock was made to the Land & Timber Company, Escanaba, at the following prices:

Spruce Pulpwood	-	\$ 17.00	per cord
Balsam and Hemlock (loaded mixed)	-	12.50	" "
Balsam and Hemlock (loaded separately)	-	13.00	" "

All prices f.o.b. cars C. & N. W. Ry., Little Lake, Mich.

A sale of 25,000 to 35,000 ties was made to the C. & N. W. Ry. Co. at the following prices:

No. 1 Cedar and Hardwood unpeeled and f.o.b. cars	-	\$1.00
" 2 do.	-	1.08
" 3 "	-	1.21
" 1 Hemlock and Tamarack and White Pine	-	.95
" 2 do.	-	1.03
" 3 "	-	1.16
Culls " Cedar and White Pine	-	.50

An additional \$.05 per tie for peeled ties.

WORK DONE FOR THE BENEFIT OF OUTSIDE DEPARTMENTS

Preparing maps and compiling data for Government Questionnaire for the Cleveland Office:

July	C. A. Johnson	-	2 days
	O. M. Coldren	-	2 "
	H. S. Nightingale	-	2 "
August	C.A. Johnson	-	7 "
	O. M. Coldren	-	6 "
	H. S. Nightingale	-	1 "
Sept.	O. M. Coldren	-	3 "
	C. A. Johnson	--	3 "
	H. S. Nightingale	-	1 "
	W. L. Stanaway	-	3 "
Oct.	C. A. Johnson	-	3 "
	O. M. Coldren	-	3 "

Reorganization of The Cleveland-Cliffs Iron Company, listing entire ownership of Company:

November	C. A. Johnson	-	12 days
	-O. M. Coldren	-	9 "
	-W.L.Stanaway	-	7 "

NEGAUNEE CEMETERY

Nothing new to report in this matter this year.

SAWMILL PLANTS

Munising Sawmill

The Sawmill was operated double shift during the entire year with the exception of the period from May 25th to June 23rd when it was idle on account of the Timber Workers' Strike and from November 12th to 25th when it was closed down for repairs.

The total output for the year was 18,517,755 feet; an average of 74,668 feet each day the mill was operated. The production cost per thousand feet, including depreciation and all fixed charges was \$11.115, as compared to \$7.83 for the previous year. This increased cost was due to high wages, lower labor efficiency and decreased production.

The deliveries were 10,787,351 feet of lumber, 3,162,930 pieces of lath, 8,814 cords of slabwood. The lumber on hand December 31st, was 15,277,700 feet as compared with 7,547,296 feet December 31st, 1919.

The operation of the mill at night was successful, the output comparing favorably with that of the day shift.

#### Lumber Market.

In line with the general business activities the lumber market was active, particularly so during the time when the mills were closed down and shipments stopped due to the Timber Workers' strike. Hemlock lumber advanced to a price for merchantable from \$46.00 to \$50.00 f.o.b. mill and hardwood rising to equally high values. The demand was active at these figures and the car situation was acute. This, added to the labor shortage or shutdown, resulted in tying up of a considerable volume of lumber that should have been moved but was left at the mills to be caught in the decline of prices and demands which followed the next year.

#### Log Supply

There is on hand at the Mill January 1st 2,805,906 feet of logs. The receipts from all sources during the year were 16,725,601 feet. Of this quantity, the Lumbering Department furnished 2,991,500 feet and the balance coming from the operations of the Land Department. The inventory December 31st, was 3,648,983 feet.

#### New Dalton Sawmill

See page 4.

#### Labor Conditions

In addition to the general labor shortage and its inefficiency, the Western I. W. W. organization sent active organizers into the lumbering districts of Michigan and Wisconsin which resulted in organizing the men into what was called the Timber Workers' Union, resulting in a strike being called on May 3rd, the chief demand of which was an eight-hour day - ten hours pay - and recognition of the Union. The lumbermen determined to fight the organization to a finish. This resulted in the entire suspension of woods and mill operations and was disastrous both to the men and the producers for the reason that at this particular period the lumber market was unusually active not only in price but in demand for lumber which could not be shipped on account of the labor tie-up. The outcome was the breaking down of the

Union and the men returned to work at the same wage and hours as prevailed at the time of the strike. The men returned to work without showing any feeling of resentment although there was no disposition on their part to improve their efficiency.

Manufacturers Hotel

The Hotel continued under lease to Joseph Michelin on the same terms as during previous years, however, owing to the Timber Workers' strike early in the summer, business was slack and an allowance was made Mr. Michelin in the rental for a couple of months on this account. No extensive repairs were made during the year and the only item of any consequence was the replacement of some equipment.

Shipments of Products

There was shipped from the mill during the past two years the following number of cars:

<u>Munising Mill</u>	1920	1919
Lumber	421 cars	944 cars
Lath	32 "	34 "
Shingles	5 "	55 "
Ties	2 "	6 "
Posts	--	1 "
Pulpwood	81 "	189 "
4' Fuel wood - Hard	37 "	92 "
4' " " - Soft	254 "	41 "
Bark	43 "	41 "
Slabs	--	--
T O T A L	875 cars	1,362 cars

<u>New Dalton Mill</u>	1920	1919
Lumber	2 cars	
4' Hardwood slabs	5 "	
4' Softwood slabs	28 "	
<u>Grand Total</u>	910 cars	

These moved as follows:	1920	1919
M. & L. S. Shipments	220 cars	--
M. M. & S. E.	255 "	367 cars
Eastern Points	34 "	135 "
Via Little Lake	73 "	65 "
Lower Michigan Points	328 "	795 "
T O T A L	910 cars	1362 "

Shingle Mill

Operation of the Shingle Mill commenced July 22nd and continued until December 21st. During that time, it was operated a total of 117 days and consumed the supply of timber that was available. The output was 6,481,500 shingles and 1,518 railroad ties. The cost of producing per thousand was \$2.646 and the cost of

stock used was \$1.875 per thousand. The cost of producing ties was \$.254 each and the cost of the stock used was \$.236 each.

The deliveries were 954,000 shingles and 1,790 ties. They had on hand December 31st, 5,641,500 shingles and 9,043 ties.

#### Planing Mill

The planing mill was operated during the entire year. Its operation is, of course, governed by the demand for lumber. In other words, the planing mill work is only done upon receipt of orders. There was a total of 3,431,214 feet of lumber put through the planing mill and loaded on cars at an average cost of \$4.48 per M feet.

#### Rafting

In order to have a better boat to tow the large quantity of logs we have to move by water, it was decided to install in the motor boat "Wood Island" heavier engines. This work was done under the supervision of Mr. G. J. Slining, Chief Engineer of the Furnace Department. Due to the Timber Workers' Strike, we did not require, at the mill, but very few logs over what were provided by our rail shipments. For this reason, we only moved by water 1,235,220 feet and against this quantity of material was placed all the charges for the repairing and remodeling of the "Wood Island" and in addition it was necessary to secure the services of a steam tug to bring some logs from the Laughing Fish River. The result is a cost of \$11.63 per M feet on logs moved by water. Our past experience is that \$2.00 per M feet should cover the cost of watering and rafting logs from Grand Island to the Sawmill and with the equipment we now have, we should be able to better this cost the coming year.

#### Logs in Murray Bay

Only a few of the logs that were decked on the shore of Murray Bay were moved during the season and a large quantity of the logs brought from the Au Train River and the Laughing Fish River were stored there during the summer as we did not have room for them in the booms at Munising.

#### Saw Mill Houses

These houses were built during the early spring and were all occupied as soon as they were ready. The building of these houses has helped to remove the shortage. There is still a demand for more dwellings of this kind.

## EBEN QUARRY

The quarry was not operated by the Alger County Road Commission as they secured their supply of rock from other sources.

## BEACH INN

The lease to Charles Sams was cancelled and a new one issued to C. L. Heckathorn in October at the same rental. An E & A covering repairs, renewals and replacement of equipment was approved but the work and purchases were not made until 1921.

## GRAND ISLAND

### Forest Preserve

No unusual conditions were noted during the year. The reforestation work on lands from which the Hemlock has been removed was continued.

See Mr. C. H. Slater's report, page 27.

### Deer

#### Virginia White Tail:

The deer came through the winter in very good condition and the increase during the year seems to have been larger than for some time during the past. But little difficulty was experienced from wolves or coyotes, although several appeared on the Island and it was necessary to keep a constant patrol so as to not permit their becoming established.

#### Albino:

The deer came through the winter in apparently fair condition. It was noted that their winter coat was not as slick and thick as usual but the deer appeared to be in good condition. One albino fawn was born.

### Elk

Several elk have been seen during the year. Two large bucks with large spread of antlers have come to the lawn at the Hotel. They, however, did not stay and kept mostly on the Northeast side of the Island.

### Fox Propagation

This work has been unsatisfactory. Due to the high prices paid for skins all but two of the foxes were killed and their skins sold.

### Game Birds

With the exception of the native partridge, a few of which are occasionally seen, no game birds are to be found.

### Predatory Animals

But little difficulty was experienced from the visits of timber wolves or coyotes.

### Hunting

The only hunting done was by several gentlemen from Chicago.

### Sales of Deer

We received more inquiries for deer than we were able to ship. During the year 52 deer (24 bucks and 28 does) were shipped, 40 of which went to the Pennsylvania Game Commission.

### Sales of Elk

No sales made.

### Road Work

Due to the high cost of labor and supplies and scarcity of men, no road work with the exception of the regular necessary upkeep was conducted.

### Trails

The only work done during the year was in maintaining those already in existence.

### Docks

No new construction or repairs of any consequence was made on any of the docks.

### East Road from North Light

As mentioned in report of 1917, this road should be completed when labor conditions are easier.

### Maple Syrup

The syrup season was favorable and extra effort was made to produce as large a quantity as possible. The price and demand was excellent. The output was 402 gallons as compared with 380 gallons for the previous year.

### Cottage Sites

No applications were received during the year.

### Summer Tourists

There was a large number of people who visited the Island during the summer. Automobile travel was heavy. This service, however, is unsatisfactory due to the fact that people come in large numbers for the week end and it is often difficult to take care of them satisfactorily.

Improvements

A cable was laid across the channel to supply electric light and power to the Island the year around. After the cable had been carefully laid and operated for a few hours it was found that a leak developed and it was necessary to take up the cable and ship it back to the factory where the defect was cut out and the cable returned. It was again laid and is working satisfactorily and giving excellent satisfaction. The current is being supplied by the Company through the local electric light plant at Munising.

Telephone

Nothing further to be said than reported in 1917.



ANNUAL REPORT OF THE FORESTER FOR THE YEAR ENDING

DECEMBER 31st, 1920.

During the year ending December 31st, 1920, the forester's time was taken up as follows:

The greater portion of the year he was devoting his time to instructing the jobbers in the cutting of the various woods products, so that all merchantable timber could be gotten out of every tree.

THE SO CALLED ROBERTS' JOB:

This contract was taken some time ago by George Roberts, of Cooks, Mich. He was to log off a certain tract of timber in the vicinity of Stuts' Creek, which he never finished and last March, he left this job with considerable timber cut in the woods. The Forester went after this timber and succeeded in getting out about one third of what was cut before the snow went. The rest was to be hauled as soon as snow came in the Fall. When the snow came, work was started where it was left off in the Spring and up to the close of the year, everything looked very favorable that all the spruce which was the greater material cut, would be out by February 15th, 1921.

THE SKINNER JOB NO. 1:

This job was run over by fire in the Spring and Summer of 1919 and killed all standing timber that was left on the  $W\frac{1}{2}$  of  $SE\frac{1}{2}$  of Sec. 28-46-17. This fire burned into the ground about six inches or more which left little support for the trees. Consequently, when our heavy Fall winds came, a good deal were blown down, which made it very difficult to get a man into this place to remove the timber.

The Forester got after this and succeeded in getting Jos. Terrian on the job about September 20th, and had him go over and pick up all the windfalls before the snow came which was accomplished by December 31st and at the close of the year, everything looked good for a very good clean up of this job.

If this timber had not been removed this year, it would have been sap rotted and worm eaten, which would have made it worthless.

THE TONI MUSHLOCK JOB:

This jobber has been slow in finishing up his contract and it has been an eye-sore for some time. The Forester spent about a month this Fall and had this job cleaned up. He

He went to this camp and stayed there and personally supervised the loading out of all material left on river at Wilcox Siding. It will take about two weeks after the snow comes to haul the remainder of material left in the woods. This will clean up another job which has been hanging fire.

FORESTRY:

The last of April, the Forester was sent down to Grayling to the State Nursery for 200,000 White Pine seedlings which were shipped to Grand Island and planted on Sections 9 and 10, 47-19 and Sections 26 and 33, 48-19.

Some difficulty was experienced in planting because it was at the time the "Timber Workers' Strike" was on, which made it quite difficult to get men to plant the trees, but by heeling them in several times and taking good care that they did not get dry or start to grow, the trees were kept until planted. This was accomplished with ice and moss placed at the roots to keep the ground cold and moist whereby, we have a very good stand of pine this year. The Forester thinks that there should be 300,000 seedlings planted on Grand Island this coming Spring.

Up to this time, considerable reforestation has been going on each year on Grand Island and now a very good start has been made along this line, which can be seen by the number of trees that can be seen growing on the various cuttings throughout the Island.

Yours truly,

C. H. SLATER

Forester.

NRH

Mr. C. V. R. Townsend, Land Agent,  
Building.

Dear Sir:

I beg to submit the following as my annual report for the year 1920.

THE CLEVELAND-CLIFFS IRON COMPANY

SALES OF LAND & TIMBER

The demand for lands for agricultural purposes was practically the same as in the year 1919 - not very active. The unusual labor conditions continued during the year and was, in a great measure, responsible for this lack of demand. Likewise, the continued high prices for forest products created a very active demand for timber and this enabled us to make further sales of scattered holdings.

The following is a statement showing sales by districts:

<u>District</u>	<u>Number of Sales</u>	<u>Acreage</u>	<u>Total Am't of Sales</u>	<u>Timber Value</u>	<u>Avg. Am't of Sale</u>	<u>Avg. Price per Acre, Land only</u>
Rumely-Chatham-Trenary	18	1070.93	10,765.00	1,669.00	598.05	8.49
Cooks	-	-	-	-	-	-
Fayette	4	240.00	1,870.00	-	467.50	7.79
Maple Ridge	-	-	-	-	-	-
Brimley	3	240.00	2,800.00	1,209.50	933.33	6.62
Minnesota	8	351.89	2,800.00	161.50	350.00	7.44
Miscellaneous	<u>14</u>	<u>5029.69</u>	<u>114,374.00</u>	<u>105,030.87</u>	<u>8,169.56</u>	<u>1.85</u>
<u>TOTAL</u>	47	6932.51	132,609.00	108,070.87	2,821.44	3.54

There was a slight falling off in the sales in the Rumely-Chatham-Trenary district due, principally, to the acreage suitable for agricultural purposes decreasing each year on account of the Company's logging operations being conducted in other districts.

No sales were made in the Cooks and Maple Ridge districts as our holdings at these points are practically gone.

Only four sales were made in the Fayette Peninsula during the year and these were sold through the Fayette Land Company.

The demand for lands in Minnesota was quite active with the result that eight sales were consummated and the demand seems to be continuing as a number of sales have been made so far in 1921.

Only three sales were made in the Brimley district. The option to W. S. Chapin on a large portion of the remaining lands in this district was not exercised and an attempt will be made again this year to try and make some kind of an arrangement that will dispose of them.

There were fourteen sales of principally scattered timber holdings, including lands outside of the districts mentioned above. The principal sales were those to the Northwestern Cooperage & Lumber Company covering 3,157.63 acres in Town 44-7 and 1,143.74 acres to J. C. Phillion in Towns 42-14 and 15.

#### SURRENDERED AND CANCELLED CONTRACTS

Four contracts were cancelled during the year, three of these in the Rumely district and cover lands that we will have no trouble in re-selling.

#### GRAZING

Owing to the condition of the wool and mutton market, very little was done along this line in the Upper Peninsula during the year 1920 and until conditions improve, no particular effort will be made to induce additional grazers to locate. The several parties, who did locate, seemed to be doing fairly well and as the industry has secured a footing, it will, undoubtedly, in time, gain considerable proportions.

#### SALES OF TIMBER

These were as follows:

NW $\frac{1}{4}$ of NW $\frac{1}{4}$ , Sec. 8 and NE $\frac{1}{4}$ of NE $\frac{1}{4}$ , Sec. 22-47-17	\$ 162.50 -
NW $\frac{1}{4}$ of NW $\frac{1}{4}$ , Sec. 36-47-23	669.50 -
S $\frac{1}{2}$ of NW $\frac{1}{4}$ , Sec. 1-45-3	200.00 -
NE $\frac{1}{4}$ of SE $\frac{1}{4}$ , Sec. 24-47-5	9,800.00 -
Cert. Lands in 45-10	9,000.00 -
do. 15-44-7	5,000.00 -
" 46-2, 46 and 47-3	40,000.00 -
SW $\frac{1}{4}$ Sec. 24-46-30	500.00 -
Cert. lands in 27 and 28, 46-30	12,242.20
NE $\frac{1}{4}$ of SE $\frac{1}{4}$ Sec. 36-47-2	150.00 -
Cert. lands in Secs. 2, 11 & 12, 46-2	<u>1,000.00</u>
- TOTAL	\$69,724.20

#### LOT SALES

Nine and a half lots were sold in the City of Munising and these repres-

ent the only sales made during the year.

#### RENTED BUILDINGS

A number of houses in the City of Negaunee were vacant the entire year or part of the time, but owing to the houses at New Dalton being occupied, the earnings show an increase of approximately \$2,000 over the year 1919. The operating expense, however, was very heavy, due to the extensive repairs made on all the Dalton houses and also the rebuilding of practically two double houses, No. 104 and 106 in the City of Negaunee, extensive repairs to the Assistant Auditor's residence and new equipment purchased for the Manufacturers' Hotel and more or less general repair work on all the houses. The general repair work is a necessary item each year due to the fact that all of this Department's houses in the City of Negaunee are old and this item will always be heavy in order to keep them in proper condition. The high prices prevailing for labor and material during the year contributed to a very large extent, to this high maintenance cost.

#### COLLECTIONS

The collections on all accounts covering sales and rentals were exceptionally good and our receivable accounts of this nature are in excellent shape.

#### NEW LEASES

New leases issued were as follows: five new camping leases, thirteen garden leases, eight farm leases and eight miscellaneous; the total annual rental, \$337.00. No leases for residence purposes were issued during the year.

#### BELLEVUE AND CLIFFS FARMS

These were again issued to the same parties at the same rentals. A Portion of the barn at the Bellevue farm was also leased to a road contractor for the use of his teams, and the dairy building and one half of the double house for men's camp purposes; this increased the revenue for the Bellevue farm somewhat.

#### IMPROVEMENTS

The only improvement work done by the Company during the year was the building of a side-walk along the east side of Barn street and the North side of Iron street, in front of its property in the City of Negaunee. This expense amounted to \$657.70.

The locations in the City of Ishpeming, which were improved a number of

years ago, are gradually improving in general condition from year to year and the work done by the Company is holding up in good shape.

However, a portion of the Marquette Location, and the Barnum Location should be improved. During the year, Mr. Jas. E. Jopling and the writer made a joint report to Mr. Duncan, recommending that the Marquette- Hard Ore Location and the Barnum Location be platted and dedicated to the City and that the Company do whatever street work that would be necessary to secure the acceptance of the plats by the City and then these conditions would be remedied. However, to date, nothing has been done in this matter.

GARBAGE COLLECTION AND CLEANING

This work was continued during the year and owing to the better weather conditions prevailing, the expense was less than in 1919. We did not experience as much trouble with the sewers as in previous years.

BUNKER HILL MINING COMPANY

RENTED BUILDINGS

The five buildings were tenanted the entire year and with the result that there was an increase of \$100.50 in rental earnings. Part of this increase was due to an increased rental for the houses because of wiring. The repair item on houses Nos. 1 and 2 were heavy because of the general overhauling given these buildings. The repair item in general is large because of sewer connections made during the year.

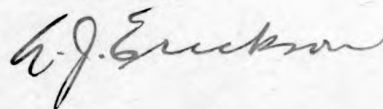
COLLECTIONS

All rents collected.

AMERICAN IRON MINING COMPANY

The only revenue received on this Company was \$242.48 interest on the timber permit to the Fiquel Handle & Manufacturing Company. These people have operated and released the greater portion of the lands covered by their contract and an effort will be made to dispose of these lands for camp site purposes and agriculture.

Respectfully submitted,



GRAND ISLAND

REPORT FOR THE YEAR 1920

Mr. C. V. R. Townsend,  
Land Agent,  
Negaunee, Michigan.

Dear Sir:

I submit the following as my report on Grand Island for the year 1920:

HOTEL WILLIAMS:

No additions and enlargements on the hotel building were made during the year but the usual repairs and painting were made before the opening of the season. A new sidewalk was laid along the rear of the cottages, and some repairs were made to the landing dock which by the way should be replanked next Spring. An addition to Mrs. Johnson's cottage, in the rear of the hotel, was built for a bathroom but was not completed.

Agreeable to instructions from Mr. Wm. G. Mather, a collection of transparencies and framed enlargements of game pictures was placed in the public rooms of the hotel, in July. These, with a few exceptions, were from the well known collection of flashlight and daylight photographs taken by George Shiras, 3rd, in this region, New Brunswick and in places in the West. The largest size transparencies (20x24) were furnished by Mr. Charles Martin, official photographer for the National Geographic Magazine at Washington, and the remainder of the transparencies from Mr. D. F. Charlton's "Photo Shop" at Marquette. In order to accommodate the large transparencies, it was necessary to put in new sash with larger divisions, in eight of the windows in the reception and dining rooms. Mr. Charlton also furnished framed enlargements which with the exception of a few Grand Island views, were also of Shiras game subjects. Nineteen of the enlargements for framing were sent by Mr. Shiras as his contribution to the collection, and for which he made no charge. These included his prize flashlight picture of the doe and two fawns (size 22x34) - the largest size yet attempted. The complete list of all transparencies and framed enlargements is as follows:

Enlargements contributed by Mr. Shiras -

1 picture (22x34); 4 pictures (22x26); 13 pictures (16x20) and 1 picture (14x17).

Enlargements by Mr. Charlton - 6 pictures (14x17).

Transparencies - 12 pictures (20x24); 4 pictures (18x20); 5 pictures (10x18).

#### DOCKS:

The Merchandise Dock is in good condition, but will probably need new planking next Season to make it safe for the teams used on it.

The Murray Bay Dock received some damage from ice action last Winter and it was necessary to restore some of the cribbing; otherwise it is in fair shape.

The Fishing Ground dock stands well in spite of its exposed position. The removable planking was not replaced this season as Mr. Mather made no use of the Lodge.

A new landing dock (45x8) for Dr. Menge's launch was built this season opposite his two cottages. It is of crib construction and filled with rock.

#### BOAT HOUSE:

This building (82x24) was found to be set too low so as to be awash at times during storm periods. It was raised two feet and supported on concrete foundations and the concrete floor laid.

#### WORK SHOP:

Foundation, floor and approach of concrete were also provided for the building. The sandy area between this shop and the boathouse should be surfaced with gravel or clay as it forms the approach to the Merchandise Dock and is subject to much traffic.

#### GARAGE:

Part of the south end of this building, which is 50x20, was partitioned off for a store-room.

#### ELECTRIC LIGHT AND POWER CABLE:

A special cable, manufactured by the Simplex Wire & Cable Co., of Boston, Mass., for light and power purposes on Grand Island, was laid on August 8th, the current being supplied by The Cleveland-Cliffs Iron Company from their hydro-electric plants, and passing through the Munising Electric Light & Power Company's station, thence over the City's transmission line to its pumping plant on the West Channel. From this point a pole line of about half a mile was extended along the shore to the crossing selected as being the shortest distance across the Channel to the Island. This was determined by triangulation to be 2090.7 feet from shore line to shore line. A series of soundings taken indicated a sandy bottom for the entire distance with depths ranging to 125 feet. The actual length of the cable when resting on the contour of the bottom, and including an



allowance of 100 feet on either side, connecting with the pile line on the mainland and power house on the Island, was 2300 feet. The cable as shipped from the factory measured 2510 feet, and with the reel weighed 4500 pounds. It was loaded on a scow at Munising and mounted on a frame work, allowing it to turn readily, and taken to the Island, connected at the Power House and towed across by the Company's launches, paying out the cable as they proceeded. A good landing was effected on the mainland without accident or difficulties of any sort, but after connections had been made and the current turned on, defects developed in the cable making it necessary to shut off the power. After raising it again and shipping it back to the factory, it was reported from there that it had received injuries causing a short circuit. If so, the cable received the injury before it left their hands, or during transit to Munising by rail, for every possible care was taken in unloading it on arrival and transferring it to the scow, and I am quite sure it received no damage while being handled by our men. It was finally returned from the Works, showing a splice of considerable length which they had made, and it was relaid in exactly the same manner as before on November 24th. It has been in use continually since then and no further trouble has been experienced with it. The cable carries 2300 volts under the 3-phase system to the Island Power House, where it is there stepped down to 110 volts. This service will undoubtedly prove of great benefit to the Island and its people, not only for light but for power purposes as well, - not to speak of the reduced fire risk in the many frame buildings. The success of the undertaking should clear the way for the much needed telephone service with the mainland.

#### MEN'S SLEEPING QUARTERS

To replace the old sleeping camp burned last Spring, a new one story frame building (36x24) was built on the West road opposite the barns. It has a brick chimney, is plastered inside, and divided into a sitting room, bunkroom and toilet with shower bath and water heater. Water service has been extended to it and it is also wired for electric lights.

#### NEW ENCLOSURE FOR "ALBINO" DEER

It was considered necessary on account of the growing scarcity of natural feed in the old enclosure, and also the lack of shelter in Winter, to move the white deer to a more favorable locality. After a careful study of the ground, an area for the new enclosure was selected on the east side of the West road immediately beyond the old black-

smith shop. About seven acres have been fenced in with a gate opening on the West Road and one on the east side opening on the Winter road so that easy access for feeding and caring for the animals can be had both in Summer and in Winter. The ground covered is low and has a dense growth of cedar which will furnish winter food and shelter from the northwest winds at the same time. There is also a good supply of water from a living spring in the enclosure. As the feed becomes exhausted more of the swamp can be fenced in as it is quite extensive. The deer in the old pen were trapped and safely transferred to the new enclosure, and the herd, according to Mr. Tisdale, now consists of 3 Albino does and 1 Albino buck - a fawn of this season. With these are also four ordinary red deer - two of them bucks and two - does. It is to be hoped that the white doe and the two white fawns with her, which were seen by Mr. Draper of Chicago last Summer on the south end of the "Thumb", may be captured between the five traps built there by our men, and then added to the present herd. Mr. Carter Harrison, while hunting on the Island in November, also reported having seen white deer in almost the same locality. On this occasion, he saw the doe and only one fawn, both appearing fairly tame.

#### MAPLE SUGAR CAMP

A duplicate of the old sugar house (14x24) with smaller building (10x12) was built this season about a quarter mile north of the present one, thus duplicating the capacity of the plant.

#### WINDFALL FARM

An increased area of about one and one-half acres of cleared land was added to the fenced enclosure.

#### THE LODGE

This building had not been used by Mr. Mather for three seasons and in order to prepare it for occupancy again it was found necessary to make certain repairs consisting of new chinking on outside of log walls, repairs to chimneys and stopping of leaks in the roof, replacement of plumbing damaged by frost and new planking for walks. The cost of this work may seem high as it was most difficult at that time to secure men from the mainland to do this work. The only terms upon which they would agree to come to the Island was to transport them both ways each day, which resulted in much loss of time and expense in use of launch and cars. Mr. Mather having expressed a wish that a collection of game pictures and transparencies, similar to the one in the hotel, be placed in the Lodge also, the work was undertaken by Mr. Charlton and the collection consists of the

Transparencies - Two (16x20); sixteen (11x11); three (14x17)

Enlargements contributed by Mr. Shiras - two (18x24); six (16x24).

Framed enlargements supplied by Mr. Charlton - Five (16x20) and six (14x17).

#### ECHO LAKE AND BOATHOUSE

The timbered tower of the boathouse should be rechinked, and the rowboats taken to the Point for repairs and painting, having had no attention for several years. The launch also needs painting and overhauling of its engine.

The road leading out to Echo Lake not only requires resurfacing but widening as well, as it is too narrow for the traffic now passing over it in Summer. The bridge over the stream is showing signs of decay and should be replaced next season with a culvert and the embankment on either side raised and widened.

#### TROUT BAY

The cottages at this point seem to be still in good demand, notwithstanding numerous drawbacks - lack of a convenient water supply being the principal one. The road approach is also poor and in dry weather cars pass with difficulty through the loose sand. Material for a top dressing can be found at the north end of the beach, and a sufficient amount for a 12 foot road could be hauled and spread at no great expense. A few repairs and additions were made last Spring consisting of screens on the porches of Nos. 2 and 3 cottages. The roofs of all four cottages were patched, and new plank walks laid, including one to Murray Bay Dock.

#### ROADS AND TRAILS

The usual repairs to roads were made in the Spring, and the road drag was used chiefly after rains to keep them in good condition throughout the season. The road between the Hotel and Boarding House should be graveled or covered with clay, and also the area immediately behind the Hotel where there is a sandy place over which the cars have to pass coming up for guests. The footpath also between William's cottages and the Hotel has become quite sandy and filled with loose stones. A mixture of black muck and sand made a good surface on this trail and lasted for many years. It is to be hoped that the circuit of the Island by road may be completed next season with the building of the link on the east side; also the much needed connection with the County Road at Powell's Point, so that cars may reach the Channel Dock where a building could be erected for shelter. There is much demand for this convenience by Summer visitors, who could signal to the Island for a launch or

boat to come over for them, and it would make it unnecessary for them to wait in town for the launch in making its regular trips. This piece of road could also be used in Winter, particularly when it is necessary to haul hemlock bark into town for shipment.

The Trout Point Cave Trail is about the only one now used by Summer visitors and care has been taken to keep it in good condition, which consists of clearing out fallen timber and brush, and removing obstructions due to falling material from the cliffs from frost action.

#### BRIDGES

The iron work on the bridge at Gull Point should be scraped and painted again in order to preserve it. This work I presume comes under the jurisdiction of the Township authorities and should be brought to their attention.

The timber bridge on the West road, about three quarters of a mile north of the Fishing Grounds, to which I have called your attention before, should be carefully examined in the Spring before much traffic passes over it as it must be remembered that it was built at least eighteen years ago and during that time has had no repairs whatever. This is an unusual length of life for a wood structure of this sort.

#### PREDATORY ANIMALS

The only visitor of this kind during the year was a timber wolf trapped by Mr. Evenson at the North Light in June. No wolf or coyote tracks have been seen by our patrols during the Summer or on the first snows in November, and the probability is that we shall not be troubled by any of these unwelcome visitors during the Winter. Fox tracks also were reported as rare.

#### FOX FARM

The number of animals in this enclosure is now reduced to four, viz., 1 male and three females, all of red color. Of course in considering the present price of the fur market these animals are not worth very much, and it would hardly seem worth while going to the expense of feeding and caring for them under the present conditions.

#### GAME

Mr. Tisdale estimates the number of elk on the Island at eight - one of them

being a large bull with fine antlers which was frequently seen during the Summer in the vicinity of Echo Lake. The deer are still numerous although they are not so much in evidence on the south end of the Island as formerly. It is supposed that this is due to their being attracted by the feed they get in the hemlock choppings in the interior. As a result of the experience gained during the hunting season in November by his party, Mr. Carter Harrison expressed the opinion that the deer were more plentiful than they had been for the past two seasons.

#### FEED FOR WILD FOWL

In my report for the year 1917, I dwelt at some length on the subject of attempting to attract wild fowl to the waters of Grand Island by planting various kinds of duck food, particularly wild rice. Mr. Clyde B. Terrell of Oshkosh, Wisconsin, you will recall was engaged to make a survey and report on these waters, and after doing so, he expressed the opinion that according to his findings, certain areas were favorable to the growth of wild rice, particularly in Duck Lake. His examination showed that certain species of marine plants that furnished food for the diving ducks were already growing there, which indicated that the bottom was favorable also to the growth of wild rice and wild celery. At the time of his visit he brought with him 100 pounds of wild rice seed which he proceeded to plant in Echo Lake and Duck Lake, - too small an amount it is true for such an extensive experiment, but he told us that if it were properly protected when it was coming up in the Spring, even this small amount might establish itself, but as usual with all our attempts of former years, no men being specially detailed to guard it, the muskrats and deer attacked it as soon as it appeared above the water and our efforts again proved fruitless.

In my 1918 report, I mentioned Mr. Roy Hill's experiments in wild rice planting. He is a merchant at Grand Marais and also a keen sportsman, and has told me of his efforts to start a growth, extending over a number of years. Some ten years ago, he succeeded in securing a quantity of good seed which he planted in the lower reaches of the Sucker river, twelve miles east of Grand Marais, and at a point where an old lumber men's dam backed the water some distance upstream. At the same time, he built a shack on the spot, for a trapper he had employed, to live in, and whose sole duty it was to trap and shoot muskrats. In this way over 100 of these rodents were destroyed in the first season. This protection enabled the seed to grow and establish itself

so that now the marsh affords very good duck hunting every Fall.

I feel that our experiment in 1917 was not given a fair trial as it should, according to Mr. Terrell's plan, have been followed up by extensive seeding of rice and planting of duck food in 1918. But the necessary authority for this was not forthcoming and so his plans were allowed to lapse. My recommendation is that another attempt be made this year immediately after the gathering of the wild rice seed in September, and the seed shipped to the Island without delay in order to avoid any danger of spoiling in transit. Several hundred pounds should be used and all our efforts concentrated on the waters and marsh of Duck Lake, for if once we could succeed in establishing a growth, it could readily be spread by using the seed in other areas. This year great flocks of wild ducks and geese were observed in flight over the Island, and I feel sure that if these birds discovered feeding grounds in these waters they would be inclined to remain until freezing weather drove them out. Protection should be afforded them over a period of years and a haven of refuge established. Many such protected zones have been formed in various parts of the country, and it is well known that the birds will return year after year to places they know are protected and where they can find good feeding grounds.

Yours truly,

Sgd. A. O. JOPLING

ENGINEER-IN-CHARGE.

NRH

THE CLEVELAND - CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT OF FOREST FIRES OCCURRING DURING YEAR 1920 AS REPORTED BY THE VARIOUS DEPARTMENTS OF THE CLEVELAND-CLIFFS IRON COMPANY

REPORT NO.	DATE 1920	LOCATION	OWNER OF LAND			CAUSE				ATTRIBUTABLE		QUANTITIES AND KINDS.	LOSS VALUE				ITEM	
			CO.	LAND SOLD	OTHER PARTIES	SPARKS FROM ENGINE	FARMERS BURNING BRUSH	MISCL.	PREVENTABLE OR NOT	TO PRACTICES OF COMPANY	TO PRACTICES OF OUTSIDE PARTIES		TO LAND DEPT.	TO LBRG. TO RY. DEPT.	TO RY. DEPT.	COST TO PUT OUT FIRE		VALUE TO OUTSIDE PARTIES
1	May 13	3/4 mi. West of McReavy			1						1	Dry Grass on Right of Way						1
2	" 14	3/4 mi. East of Della			1						1	" " and brush						2
3	" 15	2 miles Northwest of Luck's Csg.			1							" " " "						3
4	" 15	Near Dead River Bridge, North			1						1	" " " "						4
5	" 15	Homer Siding 4 1/2 mi. E. of Big Bay			1							" " " old windfalls						5
6	" 15	About 500' S.E. of Whitefish Sdg.			1		1					Brush and 35 apple trees burned						6
7	" 16	Homer Sdg. and Birch - 4 1/2 mi. E. of Big Bay & 1 1/2 mi. W. of Birch			1							Dry grass and old windfalls; also 125 ties and two telegraph poles						7
8	" 17	About 2 mi. East of Birch			1						1	Grass and brush						8
9	" 17	" 800' E. of Lakewood Station			1							Brush and stumps						9
10	" 26	2 Mi. E. of Big Bay			1							Dry Grass and brush						10
11	" 27	E. of Maas Mine crossing	1			1					1	" " " "						11
12	" 27	Between main line & Maas mine crusher track	1			1					1	" " " "						12
13	" 29	By Switch going into Lake Shore yard			1							Dry Grass						13
13a	" 29	1 1/2 mi. S. of Chocolate River near Fredsen's Camp No. 2	1								1	Destroyed camp buildings and decked logs and cedar cuts on McReavy Spur. Value of material lost \$24,535.32 Amount of Insurance 23,453.13						13a
14	" 27	2 1/2 mi. E. of Big Bay			1	1					1	Dry Grass and brush						14
15	" 29	1 1/2 mi. E. of Big Bay			1						1	" " " "						15
16	June 5	3000' E. of Mi. Post 7 - 1 mi. East of Dead River			1	1					1	" " " "						16
17	" 6	Near L.S. & I. shops			1							Brush						17
18	May 30	Shingleton Rd. csg. Petrel			1							"						18
18a	" 30	Peterson's operations	1								1	Barn, hay, oats and 8 horses Val. of mat'l & Equip. lost \$4,311.40 Amount of Insurance 1,236.40						18a
19	June 19	Lake Shore Eng. Works			1	1					1	Dry Grass						19
20	" 26	3/4 mi. W. of Della			1	1					1	Weeds and brush						20
												5						
												2						
												2						
												9						
												2						
												2						

## LAND DEPARTMENT

## COMPARATIVE STATEMENT OF RECEIPTS FOR YEARS 1919 and 1920

	R E C E I P T S	1920	1919
Deliveries of Forest Products		831,902.84	719,895.29
Sawmill Deliveries - Munising		506,159.87	730,944.66
"    "    - New Dalton		13,257.70	
Retail Yard Deliveries		59,589.70	53,507.19
Shingle and Tie Mill Deliveries		5,917.05	36,633.13
Cliffland Farm Products Sales		8,444.18	7,252.98
Williams Hotel and Cottages		17,992.55	13,777.03
Grand Island Product Sales		12,137.14	9,926.35
Earnings from Rented Buildings		9,472.95	7,471.79
Lot Rents - Pendill Location		183.00	182.50
- C. I. M. Co.'s First Addition		1,901.02	1,901.02
Do.    Second "		543.00	562.84
"    Third "		2,941.00	2,941.00
"    Fourth "		101.00	101.00
"    Fifth "		1,111.00	1,111.00
Bancroft Location		222.00	222.00
Nebraska "		135.00	135.00
Hard Ore "		750.00	750.00
Marquette "		1,101.00	1,101.00
Hematite "		28.00	28.00
Ex. I. Co.'s First Addition		12.00	12.00
Junction Location		360.00	360.00
Salisbury Location		96.00	96.00
Winthrop "		135.00	138.50
Barnum "		528.00	523.00
Jackson Addition		1,199.00	1,199.00
Munising		88.00	100.00
P. I. Co.'s Second Addition		91.00	91.00
Land Rents		9,253.60	8,888.52
Sundry Rentals		273.94	129.40
Real Estate Sales		127,819.00	59,459.19
Farm Land Sales		3,830.00	15,130.00
Town Lot Sales		3,050.00	8,835.00
House and Lot Sales			8,750.00
Cordwood Sales - Outside Parties			35.65
"    "    - Other Operations		21,033.69	35,132.32
Forest Products Sales - Outside Parties		568.00	1,689.73
"    "    "    - Other Operations		99,042.95	104,711.77
Trespass Cases		2,850.22	385.97
Bark Sales - Outside Parties		23.41	
"    "    - Other Operations		4,763.63	5,051.29
Timber Sales		69,724.20	27,755.00
Timber Assignments			6,903.50
Land Product Sales		40.55	402.40
Profit on Sales of Tax Titles		4.95	24.32
Royalties Received		628.02	666.42
Miscellaneous Sales of Machinery and Equipment		250.00	175.00
Collection Fees		.60	
Miscellaneous Earnings		1,619.01	1,564.48
Interest Received		7,937.26	9,212.53
Cash Discount on Purchases		1,335.22	1,088.50
Selling Commissions Received			79.17
		1,830,447.25	1,873,226.44



THE CLEVELAND - CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT OF LAND & TIMBER SALES FOR YEAR 1920.

Table with columns: DESCRIPTION, ACREAGE SOLD, LAND, TIMBER, TOTAL, REMARKS. Includes entries for various land parcels with sections and bearings.

\* TOTAL -

Table with columns: UNPLATTED LANDS (Fee, Surface, Minerals, Leased Minerals, Mining Option, Timber Only, Leased Surface, Water Rights) and PLATTED LANDS (Fee, Surface Only, Minerals Only, Total, Mineral Rights Reserved in Sales).

(1) Purchase Numbers 1931, 1937, 1938, 1939, 1941, 1946, 1952, 1972, 1973, 1974, 1975, 1996.
(2) Conveyance Numbers 2672, 3098, 3104, 2944, 2949.
(3) Sales as above and Conveyance Numbers 3524 and 3525, Platted Fee, and Surface, - 3617, 3622, 3656, 3659, 3664, 3667, 3612, 3685, 3687, 3634, 3648.

AJE:TA:3.
4/19/21.

THE CLEVELAND - CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT OF LANDS PURCHASED AND EXPENSES INCURRED ON ACCOUNT OF LAND TRACTS FOR THE

YEAR 1920

PURCHASE	GRANTOR	PURCH.NO.	ACREAGE	PURCHASE PRICE	ABSTRACTS & RECORDING	MISCELLANEOUS	TOTAL
Mathews	Peter Mathews & Wife	110			1.90		1.90
Mc Donald	Jos. H. Winter & Wife (file 1937)	1870	10.95	1600.00	3.00	Com. 160.00 Legal	2348.16
The Dalton Lbr.Co.	John S. Dalton Et al	1938		1000.00	10.65		1010.65
Norrgard	Carl A. Norrgard & Wife	1939		150.00	1.75		156.05
Mathews	Stanley M. Mathews	1941	40.00		15.05		15.05
Electric Easement	W. H. Masters	1945		1.00			1.00
Dalton	Dalton Lumber Co.	1974	# 320.00	8000.00	6.05		8006.05
John	Frank Barinott & Wife	1978			2.15	Taxes 17.17	19.32
				10751.00	40.55	177.17	589.46
							11558.18

# Denotes Timber only.

CMC:TA:3.  
3/12/21.

THE CLEVELAND-CLIFTS IRON COMPANY

LAND DEPARTMENT

LAND ACRESAGE - DECEMBER 31, 1920.

TOWN	RANGE	FEE	SURFACE	MINERALS	UNPLATTED LANDS				WATER RIGHTS	PLATTED LANDS			MINERALS RESERVED IN FARM LAND SALE
					LEASED MINERALS	MINING OPTION	TIMBER ONLY	LEASED SURFACE		FEE	SURFACE	MINERALS	
45	1 E	40.00										40.00	80.00
45	1 W	280.00										280.00	
46	1 "												80.00
47	1 "	40.00										40.00	
45	2												123.13
46	2	2693.61										2693.61	3239.00
47	2	131.28										131.28	160.25
45	3	166.56										166.56	
46	3	1301.84										1301.84	1911.47
47	3	600.00										600.00	560.00
46	4												120.00
47	4												222.50
43	5	280.00										280.00	120.00
45	5	160.00										160.00	640.00
46	5	40.00										40.00	842.71
47	5	40.00										40.00	120.00
44	6	427.60										427.60	410.75
45	6	800.00										800.00	1309.99
46	6	280.00										280.00	
44	7	160.00										160.00	4153.59
45	7	280.00										280.00	391.27
46	7	851.26										851.26	
47	7	338.81										338.81	
48	7	497.70										497.70	
49	7	44.00										44.00	
44	8	76.88										76.88	
46	8	2311.92										2311.92	
47	8	6957.72										6957.72	
48	8	5041.52										5041.52	
49	8	3923.04										3923.04	
50	8	160.00										160.00	
44	9	40.00										40.00	
46	9	512.23										512.23	200.00
47	9	17793.74										17793.74	
48	9	4136.58										4136.58	
49	9	800.00										800.00	
50	9	23.00										23.00	
45	10	1440.00										1440.00	
46	10	300.72										300.72	
47	10	14519.08										14519.08	
48	10	14534.01										14534.01	
49	10	3415.99										3415.99	
43	11	200.00										200.00	280.00
44	11	277.00										277.00	
46	11	4582.55										4582.55	
47	11	13773.29										13773.29	
48	11	19592.71										19592.71	
49	11	745.17										745.17	
46	12	15514.00										15514.00	
47	12	16866.36	198.41									17066.79	
48	12	21576.80	160.00									21736.80	
49	12	8229.41										8229.41	
50	12	359.65										359.65	
45	13	1473.71										1473.71	
46	13	1313.25										1313.25	
47	13	5174.53										5174.53	
48	13	19469.63	114.51									19584.14	
49	13	16400.85										16400.85	
50	13	164.35										164.35	35.00
43	14	236.85										236.85	
45	14	440.00										440.00	
46	14	840.00										840.00	
47	14	6069.80	437.25									6507.05	
48	14	18922.14	533.68									19475.82	
49	14	9290.07	360.00									9650.07	
42	15												1766.77
43	15												194.10
45	15	80.00										80.00	
46	15	5392.78	40.00									5432.78	
47	15	8786.64	974.20									9760.84	
48	15	14179.22	520.00									14699.22	
49	15	4850.91	393.59									5244.50	
41	16												903.65
42	16												14.20
43	16	125.50										125.50	440.00
44	16												80.00
45	16	63.85										63.85	
46	16	1456.03										1456.03	31.06
47	16	4448.78	240.00									4688.78	
48	16	8740.01	495.37									9235.38	79.25
49	16	1004.60	600.00									1604.60	
41	17												5797.51
42	17	240.00										240.00	1840.00
44	17												238.59
45	17	912.37										912.37	240.00
46	17	3576.81										3576.81	2.00
47	17	8082.30	200.00									8283.30	200.00
48	17	4276.15	201.00									4477.15	
39	18	251.00										251.00	29.92
41	18	160.00										160.00	800.00
43	18	40.00										40.00	
44	18	55.78										55.78	160.00
45	18	360.00										360.00	
46	18	11733.04										11733.04	1266.10
47	18	11291.40	120.00									11411.40	985.32
48	18	520.00										520.00	
37	19	95.60										95.60	641.00
38	19	2303.29										2303.29	3852.60
39	19	592.79										592.79	2022.96
41	19												360.00
42	19												560.00
43	19												520.00
44	19	7057.17	1080.97				1495.93					1495.93	
45	19	618.28	80.56				8704.21					16852.35	
46	19	10518.18	176.35				7215.01		51.96	14.03		7913.95	1940.75
47	19	9603.08	108.18						8.06			10757.82	8919.50
48	19	6365.06	636.35									9619.32	252.06
38	20	22.10										7003.41	
44	20	6991.28	40.00									22.10	335.90
45	20	6306.36	1566.61				360.29					7031.28	
												8252.26	.58

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

LAND ACREAGE - DECEMBER 31, 1920.

SHEET #2.

TOWN	RANGE	UNPLATTED LANDS								PLATTED LANDS			TOTAL	MINERALS RESERVED IN FARM LAND SALE	
		FEES	SURFACE	MINERALS	LEASED MINERALS	MINING OPTION	TIMBER ONLY	LEASED SURFACE	WATER RIGHTS	FEES	SURFACE	MINERALS			
46	20	15401.74													
47	20	4894.73	80.00				80.00						15551.74		
48	20	113.96											4884.73	520.00	
43	21	894.00	40.00										113.96		
44	21	5658.81	952.78										924.00	4180.71	
45	21	4505.17											4591.59	2839.33	
46	21	8889.56	80.00				1317.51						5822.68	2025.86	
47	21	4274.57					200.00			1.36			9130.92	3492.09	
48	21	933.48											4274.57	861.16	
40	22	113.69											933.48		
41	22	14.93								1.98			113.69		
42	22												14.93	204.07	
43	22													878.09	
44	22	6553.63	920.00				440.00							80.00	
45	22	5590.42	1906.06				2480.00						7913.83		
46	22	5823.19											9976.48	268.19	
47	22	6646.14	1796.61										6182.51	966.82	
48	22	2140.09	279.70										8392.75	680.00	
39	23	240.00											2419.79		
40	23												240.00		
42	23	160.00											160.00	160.00	
43	23	680.00											680.00	3229.01	
44	23	287.31	4595.25										4682.56	1120.00	
45	23	1379.49											1379.49	59.22	
46	23	1626.32	10820.74										6634.66	40.00	
47	23	2550.00	5689.40				320.00						12967.06	400.00	
39	24	40.00					80.00						6329.40		
41	24	200.00											40.00	200.00	
44	24	1680.32	7926.64										200.00	200.00	
45	24	1042.00	4802.00										9806.96		
46	24	1986.37	240.00										5844.00		
47	24	280.00	40.00										2226.37		
44	25	614.35											320.00		
45	25	1532.57	659.49				43.25						657.58		
47	25	6201.57	1082.53				896.23						3176.94	1.65	
48	25	3269.35	280.00										7284.10		
49	25	40.14								4.27			3653.62	1247.13	
44	26	162.91											40.14	631.90	
45	26	927.49											162.91		
46	26	80.00											927.49		
47	26	8190.69	221.06	267.26						41.71			60.00	1810.00	
48	26	4210.48	1387.07	26.64	157.50								6805.38	810.61	
49	26	680.00	4294.40						226.29				6010.98	73.04	
50	26	40.00											4974.40	240.00	
51	26	89.65	570.01										40.00	160.00	
46	27	121.68											859.66		
47	27	13814.52	199.98							122.87			121.68	918.82	
48	27	5056.91	3676.02	604.99	160.00		5.25				.22	197.72	8731.93	356.20	
49	27	919.28											919.28		
50	27													180.00	
51	27	1789.17	79.03										1848.20	200.00	
52	27	40.00											40.00		
47	28	1314.79	73.60	75.00	727.94								2191.32	5.00	
48	28	954.69											954.69	4.00	
50	28	1921.62	789.35										2710.95	160.00	
51	28	3320.00	840.00										4160.00	109.05	
52	28													240.00	
49	29	280.00											280.00		
50	29	1627.44	80.00										1697.44		
51	29	4511.88											4511.88	531.40	
52	29	3808.37											3808.37	704.25	
45	30	46.20	160.00										46.20		
46	30	748.80	320.00										1066.80	185.70	
47	30	407.90	1475.36										1883.26		
49	30	640.00											640.00		
50	30	5400.98	1204.26										6606.24		
51	30	5795.77	641.95										6437.72		
52	30	1960.00											1960.00		
48	31	60.00	120.00										340.00		
49	31	40.00											40.00		
50	31	5530.28	160.00										5690.28		
51	31	216.80	240.00										456.80		
52	31													40.00	
49	32	160.00	1120.00										1280.00		
50	32	2035.37											2035.37		
47	33	640.00											640.00		
48	33	160.00											160.00		
49	33	4435.14	118.62	36.55			6730.26						11320.57		
50	33	1463.17		40.00			3092.21						4695.38		
42	34												160.00		
47	34												982.34		
49	34	788.24											1036.25		
50	34	2495.92					1840.00						1624.49		
43	35		80.00										4335.92		
48	39												628.60		
49	39						388.60							711.57	
45	29	42.52	43.17										85.49	480.00	
46	29	1425.11											1425.11	126.17	
47	29	40.00											40.00	80.00	
48	30	56.00											56.00		
43	31	115.22											115.22		
42	33						120.00						120.00		
44	33	80.00											80.00		
50	22 Minn.	610.52											610.52	764.04	
49	23	1.86											1.86	185.10	
50	23	1007.96											1007.96	40.00	
46	25													280.05	
47	25													39.75	
45	26	40.00											40.00	400.00	
57	22		119.86									.96	520.44		
57	23		40.00										40.00		
58	15												152.09		
59	15												2.83		
57	20		4.50									1.08	5.30		
45	1E-Wis.	133.33										.80	133.33		
41	31 Mich.												42.88		
42	31						42.38						929.79		
43	31						456.85						456.85		
44	31						835.45						835.45		
45	31						4239.77						4239.77		
46	31						990.00						990.00		
41	32						1493.40						1493.40		

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

LAND ACREAGE - DECEMBER 31, 1920.

SHEET #3.

TOWN	RANGE	UNPLATTED LANDS								PLATTED LANDS				MINERALS RESERVED IN FARM LAND SALE
		FEE	SURFACE	MINERALS	LEASED MINERALS	MINING OPTION	TIMBER ONLY	LEASED SURFACE	WATER RIGHTS	FEE	SURFACE	MINERALS	TOTAL	
42	32					1360.00							1360.00	
43	32					400.05							400.05	
44	32					2281.50							2281.50	
45	32					5709.45							5709.45	
46	32					4974.49							4974.49	
42	33					1331.00							1331.00	
43	33					519.59							519.59	
44	33					2075.18							2075.18	
45	33					3878.99							3878.99	
46	33					3227.69							3227.69	
44	34					1452.85							1452.85	
45	34					2815.50							2815.50	
46	34					3182.49							3182.49	
43	35					1066.37							1066.37	
44	35					2978.74							2978.74	
45	35					2000.00							2000.00	
43	36					561.40							561.40	
44	36					1597.92							1597.92	
47	32					160.00							160.00	
47	33					1631.69							1631.69	
49	33					80.00							80.00	
47	35					475.82							475.82	
47	36					120.00							120.00	
48	36					440.00							440.00	
T O T A L **		592904.48	75128.06	2090.10	2816.99	53,696.96	35411.67	326.60	226.29	232.11	77.91	283.49	763194.66	92917.71

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4/19/'21.

THE CLEVELAND-GLIFFS IRON COMPANY AND SUBSIDIARY COMPANIES

ACREAGE STATEMENT - LANDS OWNED AND CONTROLLED - SHOWING OWNERSHIP BY COMPANIES ONLY

DECEMBER 31, 1920

COMPANIES	UNPLATTED LANDS								PLATTED LANDS			TOTAL ACRES	ACRES OF LAND NOT TIMBERED	ACRES OF LAND TIMBERED	LANDS ON THE MINERAL FORMATION	MIN. RIGHTS RESERVED IN SALES
	FEE "A"	SURFACE ONLY "B"	MINERALS ONLY "C"	LEASED MINERALS "D"	MINING OPTION "E"	TIMBER ONLY "F"	LEASED SURFACE	WATER RIGHTS	FEE	SURFACE ONLY "G"	MINERALS ONLY					
<b>CONSTITUENT COMPANIES</b> (Entire Stock owned by The C.C.I.Co.) The Cleveland-Cliffs Iron Co.	592904.40	75128.06	2090.10	2016.99	53696.96	35411.67	326.60	226.29	232.11	77.91	283.49	763194.66	179894.92	583299.74	104698.11	92917.71
<b>ALLIED COMPANIES</b> (A portion of the stock only owned by the C. C. I. Co.) Noganssee Mine Aretic Iron Co. Athens Mining Co. Michigan Mineral Land Co. Bunker Hill Mining Co. Lucky Star Mining Co.	2.40 1083.54 41.76 29175.62 43.10 49.74	3.49	37.98 10.00 24298.91 10.20	213.36 22.90						3.35 .37	103.53	222.60 1225.05 75.03 53308.36 53.30 49.74	222.60 1225.05 75.03 53308.36 53.30 49.74		198.40 286.02 74.66 52473.98 53.30 49.74	
<b>TOTAL ALLIED COMPANIES</b>	29396.16	87492	24356.49	236.26						3.72	103.53	54934.08	54934.08		53139.05	
<b>ASSOCIATE COMPANIES</b> (The C.C.I.Co. no ownership but acts as agent.) American Iron Mining Co.	2658.08		158.42												2815.50	2815.50
<b>GRAND TOTAL LANDS OWNED AND CONTROLLED (ALL COMPANIES)</b>	624958.72	75965.98	26605.01	3053.25	53696.96	35411.67	326.60	226.29	232.11	81.63	387.02	820945.24	237645.50	583299.74	160552.66	92917.71
<p>"A" - Lands where entire fee is owned.                      "B" - Lands where surface only is owned.                      "C" - Lands where minerals only are owned known mineral district.                      "D" - Lands where our interest is confined to a mining lease.                      "E" - Lands where timber only is owned.                      "F" - Lands where we own the entire fee, surface only, or minerals only in lands which are a part of recorded plats of towns or villages.                      "G" - Lands where our interests confined to a mining option.                      "H" - Lands which have been examined and which reports show do not contain sufficient timber to be classed as timberland.                      "I" - All lands not included in "H". This includes both lands that have been examined and others which have not but which were purchased for timber purposes and are classed as timber lands until such time as reports will show that they are barren either through fire or through operation of the Lumbering Department.                      "J" - Approximate acreage of lands inside the mineral formation as indicated by maps furnished to the Land Department by the Mining Department, April, 1914.                      "K" - Acres of minerals reserved in Farm Land Sale, outside of mineral formation.</p>																
	UNPLATTED LANDS								PLATTED LANDS			TOTAL ACRES	ACRES OF LAND NOT TIMBERED	ACRES OF LAND TIMBERED	LANDS ON THE MINERAL FORMATION	MINERAL RIGHTS RESERVED IN SALES
	FEE	SURFACE ONLY	MINERALS ONLY	LEASED MINERALS	MINING OPTION	TIMBER ONLY	LEASED SURFACE	WATER RIGHTS	FEE	SURFACE ONLY	MINERALS ONLY					
Total Acreage December 31, 1919 - Purchased during 1920 The C. C. I. Co. Cancelled Cont.- C.C.I.Co.	631531.23 160.00 140.00	76091.32 144.66	26605.01	3053.25	53696.96	35611.67 400.00	326.60	226.29	232.50 .32	81.55 .64	387.02	827,833.40 705.30 140.32	229682.22 105.30 140.32	598151.18 600.00	160652.66	86345.20 140.00
<b>TOTAL</b>	631831.23	75225.98	26605.01	3053.25	53696.96	36011.67	326.60	226.29	232.82	82.19	387.02	828,679.02	229927.84	598751.18	160652.66	86205.20
Sold during Year (C.C.I.Co.) Surrendered 1920 Classification Changed (1)	6872.51	260.00				600.00			.71	.56		7133.78 600.00	2195.09 4937.69 500.00 9913.75	15451.44 9913.75		6712.51
<b>TOTAL</b>	6872.51	260.00				600.00			.71	.56		7733.78	7717.65	15451.44		6712.51
<b>TOTAL ACREAGE DECEMBER 31, 1920.</b>	624958.72	75965.98	26605.01	3053.25	53696.96	35411.67	326.60	226.29	232.11	81.63	387.02	820,945.24	237345.50	583299.74	160652.66	92917.71
(1) Represents land operated or Timber Sold under Timber Permit.																

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT SHOWING NUMBER OF GUESTS REGISTERED AT HOTEL WILLIAMS  
BY STATES AND CITIES DURING THE SEASON OF 1920

ILLINOIS

Chicago	77	
Wilmette	3	
Nashville	2	
Lake Forest	7	
Rockford	29	
Belvedere	2	
Folso	2	
Marion	2	
Decatur	3	
Evanston	4	
Molin	5	
Oak Park	6	
Glencoe	3	
Riverside	1	
Galesbury	2	
Peoria	2	
Clinton	4	
TOTAL		154

OHIO

Cleveland	22	
Cincinnati	7	
Toledo	1	
Postoria	2	
Columbus	1	
Youngstown	1	
TOTAL		34

WISCONSIN

Baron	4	
Janesville	2	
Milwaukee	10	
Clam Falls	2	
Neenah	4	
Oshkosh	10	
Oconto	5	
Green Bay	1	
Appleton	7	
Marinette	14	
Eau Claire	1	
Madison	3	
Sheboygan	1	
LaCrosse	2	
Niagara	1	
TOTAL		67

IOWA

Webster City	2	
Dubuque	5	
TOTAL		7

MINNESOTA

Minneapolis	5	
Cloquet	3	
St. Paul	4	
Duluth	3	
TOTAL		15

INDIANA

Kokomo	4	
Indianapolis	2	
Oshkosh	2	
TOTAL		8

TENNESSEE

Bemis	2	
Memphis	6	
Springfield	1	
TOTAL		9

MISSOURI

Kansas City	3	
St. Louis	1	
TOTAL		4

KANSAS

Topeka	2	
TOTAL		2

CANADA

P. E. Island	3	
TOTAL		3

Pennsylvania

TOTAL	1	1
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KENTUCKY

Louisville	1	
TOTAL		1

TEXAS

Kingston	2	
TOTAL	2	2

NEW YORK

New York	5	
Morristown	1	
TOTAL		6

MASSACHUSETTS

Boston	1	
TOTAL		1

MARYLAND

Baltimore	1	
TOTAL		1

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT SHOWING NUMBER OF GUESTS REGISTERED AT HOTEL WILLIAMS  
 BY STATES AND CITIES DURING THE SEASON OF 1920  
 (CONTINUED).

VIRGINIA

Norfolk 1  
 Wheeling 2  
 TOTAL 3

ARKANSAS

Little Rock 1  
 TOTAL 1

ALABAMA

Remington 1  
 TOTAL 1

MICHIGAN

Munising 69  
 Ishpeming 45  
 Negaunee 47  
 Marquette 81  
 Detroit 29  
 Calumet 34  
 Grand Rapids 7  
 Menominee 1  
 Escanaba 34  
 Houghton 3  
 Jackson 1  
 Gwinn 1  
 Iron River 2  
 Republic 2  
 Gladstone 14  
 FosterCity 4  
 Farwell 1  
 Shaffer 1  
 Muskegon 1  
 Vermontville 2  
 Lansing 2  
 Proctor 2  
 Manistique 3  
 Laurium 4  
 TOTAL 390

GRAND TOTAL 710

NRH



## LAND DEPARTMENT

LAND ACREAGE - DECEMBER 31st, 1920

TOWN	RANGE	UNPLATTED LANDS		PLATTED LANDS	
		FEE	MINERALS	MINERALS	TOTAL
47	25	32.12			32.12
47	26	903.42	4.43	88.03	995.88
48	26	148.00	33.55	15.50	197.05
TOTAL		1083.54	37.98	103.53	1225.05

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2-26-21

A M E R I C A N I R O N M I N I N G C O M P A N Y

L A N D D E P A R T M E N T

L A N D A C R E A G E - D E C E M B E R 3 1 s t , 1 9 2 0

TOWN	RANGE	U N P L A T T E D L A N D S		TOTAL
		FEE	MINERALS	
47	31	515.98	38.42	554.40
48	31	2142.10	120.00	2262.10
TOTAL		2658.08	158.42	2816.50

CAJ:P -2

2-26-21

BUNKER HILL MINING COMPANY

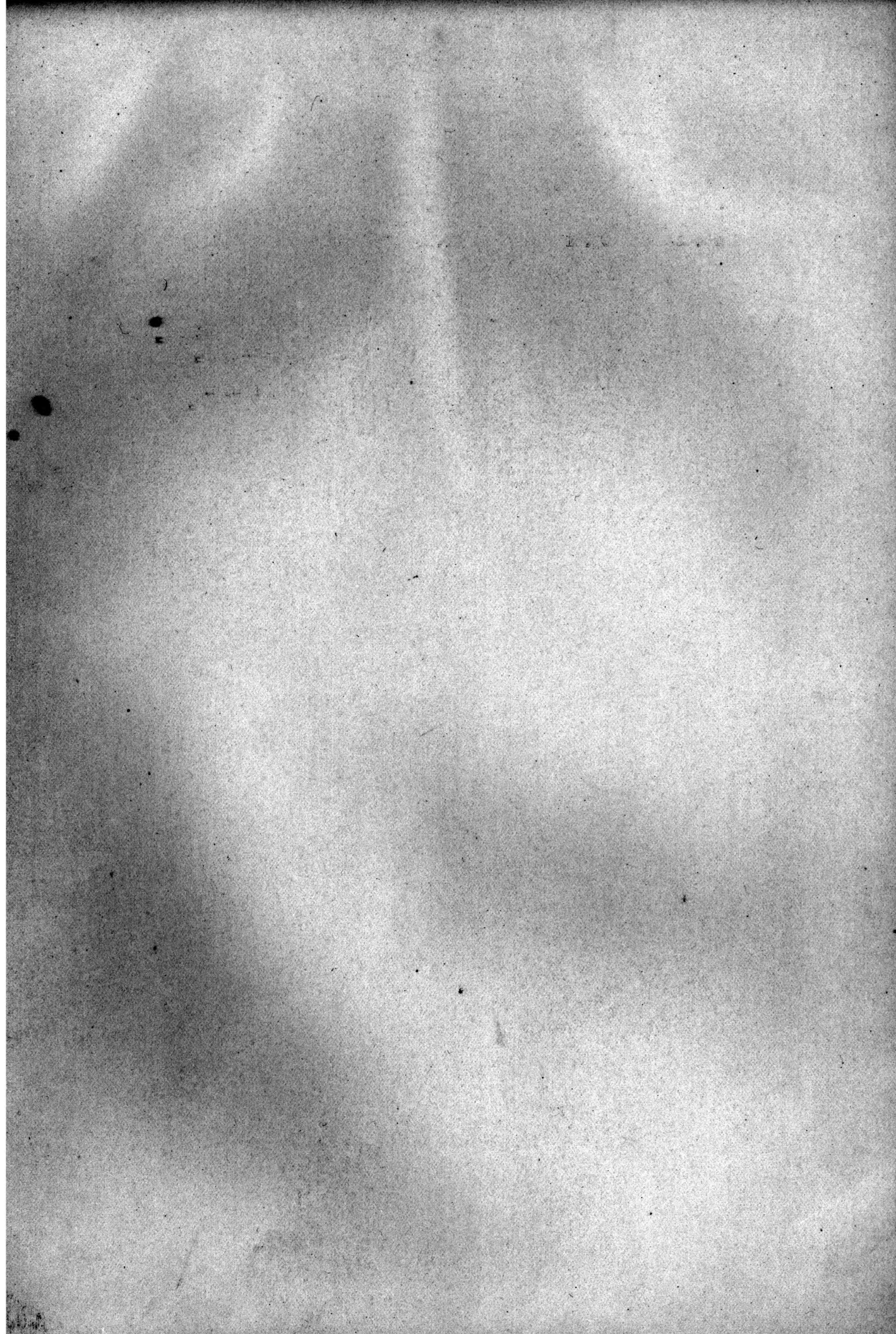
LAND DEPARTMENT

LAND ACREAGE - DECEMBER 31st, 1920

TOWN	RANGE	UNPLATTED LANDS		TOTAL
		FEE	MINERALS	
47	26	43.10	10.20	53.30

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2-26-21





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