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ANNUAL REPORT
1918



THE CLEVELAND-CLIFFS IRON CO.
LAND DEPARTMENT
NEGAUNEE, MICHIGAN.

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ANNUAL REPORT

YEAR 1918

LAND DEPARTMENT - LANSING, MICHIGAN

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THE CLEVELAND CLIFFS IRON CO.

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

MEGAUNEE, MICHIGAN, March 31, 1919.

YEAR 1918

Mr. Wm. S. Mather
1100 Rockefeller Bldg.
Cleveland, Ohio.

LAND DEPARTMENT - MEGAUNEE, MICHIGAN

Dear Sir:-

I send you herewith ANNUAL REPORT of The Cleveland-Cliffs Iron
Company, Land Department, and its subsidiary companies for the fiscal year
1918.

Respectfully,

C. R. Truesdell
Land Agent.

CVH:5

ANNUAL REPORT

LAND DEPARTMENT

NEGAUNEE, MICHIGAN, March 31, 1919.

FISCAL YEAR 1918

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

Dear Sir:-

THE CLEVELAND-CLIFFS IRON COMPANY

I hand you herewith ANNUAL REPORT of The Cleveland-Cliffs Iron
Company, Land Department, and its subsidiary companies for the fiscal year
1918.

GRAND RAPIDS IRON MINING COMPANY

Respectfully,

NEGAUNEE COMPANY

C. V. P. Townsend
Land Agent.

WESTERN HILL MINING COMPANY

CVRT:S

INDEX
ANNUAL REPORT
LAND DEPARTMENT - NEGAUNEE, MICHIGAN

THE CLEVELAND-CLIFFS IRON COMPANY FISCAL YEAR 1918

General Remarks	1
Report of Mr. H. S. Johnston, Forester	24
Report of Mr. A. J. Erickson, Collector	29
Report of Mr. A. O. Jopling, Engineer in Charge	36
Forest Fire	37
Receipts	38
Department of Land and Timber Sales	39
Land Purchases	40
Land Acquired	41
Land Owned and Controlled	42
Statement	43

ARCTIC IRON COMPANY

<u>MICHIGANNE COMPANY</u>	
Land Acquired	44

AMERICAN IRON BUNKER HILL MINING COMPANY

Land Acquired	47
---------------	----

MICHIGANNE COMPANY

Land Acquired	48
---------------	----

BUNKER HILL MINING COMPANY

Land Acquired	49
---------------	----

I N D E X

DECEMBER 31, 1916.

THE CLEVELAND-CLIFFS IRON COMPANY

General Remarks	1
Report of Mr. H. T. Johnston, Forester	24
Report of Mr. A. J. Erickson, Collector	29
Report of Mr. A. O. Jopling, Engineer in Charge	36
Forest Fires	37
Receipts	38
Statement of Land and Timber Sales	39
Lands Purchased	40
Land Acreage	41
Lands Owned and Controlled	44
Statement of Number of Guests Registered at Hotel Williams	45

ARCTIC IRON COMPANY

Land Acreage	46
--------------	----

AMERICAN IRON MINING COMPANY

Land Acreage	47
--------------	----

MICHIGAMME COMPANY

Land Acreage	48
--------------	----

BUNKER HILL MINING COMPANY

Land Acreage	49
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LANDS PURCHASED

This Department did not make any large timber purchases during the year. The only purchases made were 213.26 acres from the Northwestern Cooperage & Lumber Company in the Vail District, and 1680 acres from the Chicago & North-western Lumber Company located in Town 47 North, Range 20 West, near the Sun-
Pfeiffer logging job.

The usual number of lands offered was received during the year but there were none that were attractive from the company's standpoint.

LAND DEPARTMENT REPORT FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1918.

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 Company, 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 manufacturing 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

This Department did not make any large timber purchases during the year. The only purchases made were 323.36 acres from the Northwestern Cooperage & Lumber Company in the Vail District, and 1080 acres from the Chicago & Northwestern Railway Company located in Town 47 North, Range 23 West, near the Gust Fredeen logging job.

The usual number of lands offered was received during the year but there were none that were attractive from the company's standpoint.

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

With the exception of a few small jobbers, their operations are being conducted by the Lumbering Department.

General

The output of forest products by farmers or small independent jobbers along the Munising, Marquette & Southeastern Railway is growing less each year. However, there is a small output each Winter that is offered for sale and is eagerly sought by the various mills on the railroad. It cannot be stated that the prices paid for the small quantity of material represents the market.

The so-called lumber-jack became much more independent during the past year than any time in the history of logging operations. The wages were at the highest point and the men were not content to earn as much money as their ability permitted. They travelled continuously from camp to camp and as their services were eagerly sought in other trades many of them gave up woods work and went to the larger cities; this added to the difficulty of both logging and mill operations. The average wage was \$3.50 per day in the woods; bark peelers and piece makers averaged from \$4.00 to \$6.00 per day. It was very noticeable after prohibition became effective that the men took more interest in their personal appearance although the loss of booze did not seem to stimulate them in working or sticking to their jobs.

Woodworking Industries

Piqua Handle Company - Marquette

The plant operated continuously during the year although at times its output was much curtailed due to shortage of help. They reported having a full log input and the plant was working satisfactorily.

Munising Woodenware Company

The veneer plant, owing to changes made for the manufacture of butter dishes, did not commence operations until early in April and it was several months before the butter dish machinery was working reasonably efficient.

The woodenware mill ran continuously except for a short time in the Fall when they were out of logs. This condition was brought about through the inability to operate in the woods due to shortage of labor.

Brunswick-Balke-Collender Company

On account of their plants remoteness from a general lumbering district they have experienced a serious shortage of labor and have had agents in several States picking up labor. Their operations were as active as their labor supply permitted. They are actively endeavoring to secure a further supply of standing timber.

Schneider & Brown Sawmill - Marquette

Their mill operations were active and had a full supply of logs from operations they were conducting near Sidnaw and also near Seney. Like all plants, they experienced labor shortage but this condition was not as pronounced in Marquette as elsewhere.

Nufer Cedar Company - PLANT Marquette

This plant operated continuously on low grades of hardwood which helped out the sawmill plants in the district quite considerably.

Mangum Mill

Idle.

Dalton Mill - New Dalton

Idle.

Munising Tannery Company

The plant was operated at full capacity during the year. Their bark supply was very short for a period of about thirty days during the Fall.

Goodman Mill - Little Lake

Operated only a short period during the Summer. The principal output was hardwood ties. This plant has been taken over by the Helena Land & Lumber Company which is now supplying the mill with logs from their job at Lawson and

at Stack on the Chicago & Northwestern Railway.

CLIFFLAND FARM - RUMELY

Mr. Crawford's lease of the farm expired March 1st, 1919, and as he had not maintained the farm in accordance with the spirit of the lease we deemed it best not to give him a renewal. It is our desire to sell it and this is not possible when it is under lease for a term of years. We were unable to find a buyer and it was necessary that a watchman be retained to look after the property and it seemed advisable to us, especially in view of the desire of the Government to have every available acre of land cultivated and planted to crops, to plant grain crops. We, therefore, put in 15 acres of Barley, 67 acres with Oats, 21 acres with Wheat, 8 acres with Clover and 3 acres with Potatoes. Our total operating expense was \$6,389.52 and the revenue from sale of crops to December 31st was \$4,200.48. The inventory value of crops unsold on that date was \$1,950.50, making a total crop value of \$6,190.98.

GREENHOUSES

As mentioned in my report for 1917 the Greenhouses were under lease to F. E. Nielsen and he did not make a success and it was necessary for the company to take over the houses and operate them or else lose the entire stock of flowers as Mr. Nielsen was unable to secure coal to keep the houses from freezing up. Therefore, in February of this year we took an inventory of the stock and employed Mr. Nielsen to take care of the houses for us. We continued to operate them until July 1st at which time we had disposed of the saleable stock. Our receipts during that period were \$2,372.99 and our operating expenses \$4,247.37, making a loss of \$1,874.38; of this amount \$1,345.50 was depreciation of the plant. We still have on our books \$451.86, the cost of plant not charged off.

2
We removed the glass from the roof so that the frames would not be broken during the Winter months. We have not disposed of any of the glass or other equipment as we are awaiting your decision as to what disposition should be made of this plant.

When we had settled with Mr. Nielsen his indebtedness to us was \$2,466.61 which included rental of \$722.00, water rents and bulbs \$349.79, coal furnished \$649.92, note given at time of purchasing stock, with interest at 6%, \$744.90. This account accrued during the previous year and could not be collected, and was closed off in December.

FOREST FIRE PROTECTION

The Forest Fire Committee did no active work during the year owing to the very wet season. There were no operations that called for special attention.

As reported in 1917, owing to the unrest among labor, it was deemed advisable to put on an additional patrolman in areas having a large amount of cordwood on the stump.

REFORESTATION

See Mr. Johnston's report -- pages 25 and 26.

UPPER PENINSULA DEVELOPMENT BUREAU

Its work during the past year has been energetic and well managed. It is making a special effort in introducing sheep and cattle men into the Upper Peninsula and has met with fair results and has promises of bringing a considerable number of herds of both sheep and cattle into this section during the coming year.

BALDWIN KILNS PLAINS LANDS

There is nothing further to report than is contained in my report for 1912 and 1913.

TAXES

You will note the tax statements included in this report show increased valuations and taxes in the Counties of Alger and Luce. The Michigan State Tax Commission have completed their examination of the lands located in these two Counties and conducted public hearings during the year. All classes of property were increased in value. Our men attended these hearings and report the increased valuations as being uniform and all property holders receiving like treatment. The increased valuations tend to increase the taxes

as it gives the local assessor an opportunity to raise more taxes for highway purposes. We can expect continued increased taxation in the districts in which the country is developing due to the demand for better roads, schools, etc. The comparative tax statements show in detail the changes in valuations and rates.

LOGGING OPERATIONS

Gust Fredeen - Contract No. 255:

This contract was entered into with Mr. Fredeen on May 1st, 1916, for the removal of the timber from certain lands in Towns 46 and 47 North, Range 23 West, and Town 47 North, Range 24 West. The lands originally covered by this contract carried approximately 14,000,000 feet of saw timber, 5,600 cords of bark, 100,000 pieces of cedar, 4,000 cords of pulp, 21,000 cords of hardwood and 58,000 pieces of pine shingle timber.

Since the original contract was entered into certain additional lands in this district have been assigned to Fredeen, which brings the total quantities of material to 27,376,000 feet of saw timber, 10,392 cords of bark, 37,195 cords of hardwood, 84,000 ties, 155,000 cedar posts and poles besides 8,687 cords of pulpwood and a small quantity of lagging and mining timber.

To December 31st this year there had been delivered from this operation 14,793,000 feet of logs, 4,826 cords of bark, 3,668 cords of pulpwood, 56,872 pieces of cedar tie and shingle cuts, 43,946 cedar posts and poles, 32,729 ties, 213 sets of switch ties and a small quantity of piling and stulls.

At the end of the year this contractor was approximately \$46,000.00 behind under the prices stipulated in his contract. These prices have been revised from year to year according as the labor conditions and cost of supplies have increased. Taking into consideration the contractor's loss of \$46,000.00 and applying it against the material that has been delivered, we get a logging cost of \$9.17; the pulpwood cost is \$6.42 per cord and the bark is \$8.16 per cord. In addition to this cost the miscellaneous items of expense that have been paid by the company in connection with this work amount to 42¢ per thousand feet of logs, 29¢ per cord of pulpwood, and 37¢ per cord of bark. The stumpage

value of the material delivered is \$55,940.31. Assuming the contractor's loss of \$46,000.00 the operation shows a loss to the company of \$13,397.58.

It has been proposed and authorized to construct a spur North from these operations into other lands owned by the company. This spur will be approximately five miles in length and a little over a mile was constructed during the year; the contractor being charged with the expense of this construction.

Davenport & Underhill - Contract No. 259:

The above contract was entered into in May 1916. It contemplated the operation of the hemlock timber on certain portions of Grand Island containing approximately 7,085,000 feet according to land locker's estimates.

At the end of the year there had been delivered a total of 8,925,471 feet and 2,149 cords of bark.

This contractor has went behind \$45,000.00. Assuming this loss and charging it against the material delivered, it makes a cost of \$12.39 per thousand feet and \$12.20 per cord of bark, not including stumpage. The miscellaneous expense which the company has assumed in connection with this operation were 83¢ per thousand feet and 82¢ per cord of bark. The stumpage taken up totals \$22,419.37 and the loss to the company after assuming the contractor's loss totals \$46,293.84. There is, however, an offset against this loss of 2,000,000 feet of logs delivered by the contractor to the lake shore which has an inventory value of \$28,000.00.

George Roberts - Contract No. 276:

This contract was entered into in April 1916 for the removal of timber from certain descriptions in Towns 45 and 46 North, Range 18 West. The estimates showed approximately 2,000,000 feet of saw timber, 2,700 posts, 950 cedar cuts, a small quantity of pulpwood and lagging and 800 cords of bark and 3,100 cords of hardwood.

The deliveries to December 31st totaled 767,000 feet of logs, 235 cords of pulp and 242 cords of bark.

The contractor has incurred a loss of \$3,557.00 and charging this against the material delivered makes a cost on logs of \$10.79 per thousand

feet, \$9.78 per cord of bark and \$8.03 per cord of pulpwood. The stumpage taken up against the material delivered totals \$2,582.57 and the loss to the company, after assuming the contractor's loss, is \$1,341.53.

E. A. Grondin - Contract No. 298:

This contract was made in April 1917 and covers the operation of timber on certain lands in Towns 46 and 47 North, Range 10 West. The estimated amount of timber on these lands was 3,157,000 feet of saw timber, 350 cedar cuts, 2,000 posts, 550 cords of pulpwood, 4,750 cords of hardwood and 780 cords of bark.

The deliveries to December 31st were 2,043,000 feet of logs and 1,068 cords of bark. The bark has all been delivered and there remains some 1,400,000 feet of logs cut and skidded, 9,000 ties, 800 posts and 180 cords of pulpwood. This material is all ready for delivery during the present Winter.

So far this contractor has incurred a loss of \$17,900.00 which, if charged against the material delivered, makes a cost of \$12.074 per thousand feet for logs and \$12.04 per cord for bark. The stumpage taken up against the material delivered equals \$6,742.00 and the company's loss, after assuming the contractor's loss, equals \$9,230.00.

Anthony Mushlock - Contract No. 303:

This contract was entered into in May 1917 and covered the operation of timber on certain descriptions in Section 28, Town 47 North, Range 20 West.

The material delivered to December 31st totals approximately 500,000 feet of logs, 8,000 cedar cuts, 3,000 posts and 206 cords of bark.

The contractor has incurred a loss of \$1,791.00 which, if assumed by the company, brings the cost of his logs to \$8.00 per thousand feet and the bark to \$8.00 per cord. The stumpage charged against the material delivered equals \$2,068.76 and the loss to the company on the operation, after assuming the contractor's loss, is \$817.35.

Frank Johnson - Contract No. 304:

This contract was entered into June 9th, 1917, and was to be completed May 1st, 1919. The estimates showed 347,000 feet of logs, 70 cords of bark, 1,800 cords of hardwood and a small quantity of piece stuff.

There has been delivered to December 31st 116,000 feet of logs and 37 cords of bark. There is on hand to be delivered this Winter 121,000 feet of logs, 24 cords of bark and 100 ties.

This job showed a profit December 31st of \$633.71.

Wesley Miller - Contract No. 305:

Dated July 6th, 1917; to be completed May 1st, 1918; covers certain lands in Sections 23 and 25, Town 44 North, Range 24 West. The estimate shows 1,429,000 feet of logs, 29,000 pieces of cedar and 2,820 cords of pulpwood.

The contractor has delivered 146,000 feet of logs, 5,400 pieces of cedar, 83 cords of lagging, 83 cords of bark, 279 cords of pulpwood, 2,600 ties and 48,500 lineal feet of mining timber.

Due to the unsatisfactory work accomplished by this contractor he was closed out and part of the lands were assigned to Arthur Guntley and part to William Sherbinow.

John W. Snell - Contract No. 312:

This contract was entered into November 6th, 1917, and was to be completed May 1st, 1919. Under it were assigned certain lands in Section 31, Town 45 North, Range 24 West, aggregating 564 acres. The timber estimate showed 1,364,000 feet of logs, 25,000 posts, 3,670 poles, 1,957 cords of pulpwood, 303 cords of bark and 2,350 cords of lagging.

There were delivered to December 31st 243,000 feet of logs, 1,118 ties, 101 cords of pulp and 109 cords of bark.

The inventory value of the material in the woods at the end of the year was \$16,671.00 and the contractor had incurred a loss of \$6,443.00.

Connor Bros. - Contract No. 316:

This contract was entered into December 3rd, 1917, and was to be completed May 1st, 1919. Under it were assigned 440 acres in Section 35, Town 44 North, Range 24 West. These lands contain approximately 2,404,000 feet of logs,

28,500 pieces of cedar, 1,800 poles, 1,175 cords of pulpwood, 275 cords of bark and 775 cords of lagging.

There has been delivered 60,000 feet of logs, 38 cords of pulpwood, 51 cords of bark and 2,720 lineal feet of mining stulls.

The inventory value of material at the stump and skidded in the woods was \$11,365.00 and the contractor has incurred a loss of \$2,198.00.

T. O. Nault - Contract No. 324:

This contract was dated December 12th, 1917, and was to be completed May 1st, 1919. It covers some 520 acres in Section 29, Town 45 North, Range 24 West, on which the estimates show 498,000 feet of logs, 500 ties, 23,100 pieces of cedar, 2,725 cords of pulpwood and 1,770 cords of lagging.

There has been delivered at the end of this year 64,600 feet of logs, 278 ties, 1,200 pieces of cedar, 109 cords of pulpwood, 87 $\frac{1}{2}$ cords of lagging and 1,464 lineal feet of mining stulls.

The inventory value of material in process of delivery was \$4,296.00. The contractor had not incurred any loss that had been absorbed by the company and the profit to the company on the job is \$633.95.

Joel Anderson - Contract No. 337:

This contract is dated February 23rd, 1918, and was to be completed December 31st, 1918. Covers certain lands in Section 16, Town 45 North, Range 24 West. These lands belong to Mr. Wm. G. Mather and the contract contemplated the operation of the timber suitable for lagging.

To the end of the year there had been delivered 115 $\frac{1}{2}$ cords of lagging and 2,936 lineal feet of mining timber.

Arthur Skinner - Contract No. 345:

Entered into May 15th, 1918; to be completed May 1st, 1919; covers 400 acres in Section 28, Town 46 North, Range 17 West. Estimates show 2,980,000 feet of logs, 950 cedar ties, 3,575 pieces of cedar, 625 cords of pulpwood and 920 cords of bark.

There had been delivered to December 31st 235 cords of bark. The inventory value of material in process of delivery was \$7,588.70. The prospects are that this contract will be completed by the time specified.

Louis Mandockx - Contract No. 347:

Contract was dated June 28th, 1918, and was to be completed April 1st, 1920. Covers West half of Northeast quarter of Section 31, Town 45 North, Range 20 West.

There has not been any material delivered under this contract at the end of the year. The inventory value of material in process of delivery was \$1,499.00.

John W. Kerkela - Contract No. 349:

This contract dated June 1st, 1918, and is to be completed June 1st, 1919. Covers Northwest quarter of Section 27, Town 46 North, Range 30 West. The timber estimates show 1,081,000 feet of logs, 2,200 cedar ties, 7,600 posts and poles, 270 cords of pulpwood, 1,800 cords of hardwood, 350 cords of bark and 150 cords of lagging.

There has been no delivery of material this year.

John V. Lustala - Contract No. 352:

Contract dated June 20th, 1918; to be completed June 1st, 1919; covers 200 acres in Section 10, Town 47 North, Range 22 West.

No material delivered during the year. The inventory value of material in process of delivery was \$5,964.50. Indications are that the work will be completed according to the terms of the contract.

Bert Balcom - Contract No. 358:

Dated June 1st, 1918; to be completed June 1st, 1919; covers Northwest quarter of Northeast quarter of Section 9, Town 45 North, Range 24 West.

Deliveries during the year were 23 cords of bark. The inventory value of material in process of delivery was \$1,066.20.

The contractor seems unable to secure labor and indications are that the material will not be delivered during the term of the contract.

Lumbering Department Operation No. 73:

This contract was dated January 22nd, 1916, and continues from year to year as the lands may be assigned. It covers the operation of timber on lands in the Vail District. The timber on lands assigned, according to the estimates, equals 15,877,000 feet of logs, 19,100 ties, 253,650 posts,

12,715 poles, 20,890 cords of pulp, 596 cords of bark and 168,000 cords of hardwood.

There has been delivered to date 3,500,000 feet of logs, 357 poles, 1,964 cords of pulpwood and 348 cords of bark.

The operation shows a loss of \$6,655.19 to this Department.

Grand Island Bark Contract - Conveyance No. 2957:

This contract provides for the delivery of 10,000 cords of bark to the Michigan Tanning & Extract Company in lieu of the bark they own on Grand Island. We have delivered, beginning with the peeling season of 1915, 3,810 cords, which fills the requirements for each year including the peeling season of 1918.

Compliance with the terms of this contract has resulted in an actual loss to the Company to date of \$10,705.52.

General Logging Conditions

The Winter of 1917 and 1918 was very severe with a great quantity of snow that made the delivery of forest products very difficult. This condition, and the shortage and inefficiency of labor, resulted in the costs being higher than was anticipated. It also resulted in a large amount of material being left in the woods.

Steam Log Hauler:

Upon our recommendation you authorized the purchase of a second-hand steam log hauler and sleighs. We are going to try out this hauler on Grand Island this Winter to determine its efficiency and if it can be used to advantage in any of our various logging operations.

Market Conditions - Forest Products

With the exception of cedar poles practically all forest products were in active demand. A little difficulty was experienced after the middle of the summer in obtaining cars, particularly in the shipment of bark.

Hemlock logs had the most sensational raise, the price increasing from an average market of \$14.00 to \$20.00 per thousand feet. This price, however, only lasted until the Armistice was signed and at this writing the price is \$15.00 per thousand feet, f. o. b. cars.

Sales of Forest Products

A sale was made to the Warner-Newton Lumber Company of St. Ignace, Michigan, of the cedar posts and poles which were being produced at the Grondin Job near Newberry at the following prices f. o. b. cars, main line of the Duluth, South Shore & Atlantic Railway:

Posts		
3" 7'	\$.06
3" 8'		.07
4" & up 7'		.12 ¹ / ₂
4" & up 8'		.13 ¹ / ₂
Poles		
4" 20'		.42
5" 20'		.52
5" 25'		.70
6" 25'		1.35
7" 25'		1.65
6" 30'		2.25
7" 30'		3.50
6" 35'		4.00
7" 35'		6.00
7" 40'		7.00
7" 45'		8.50

A sale was made of all our cedar posts and poles to The MacGillis & Gibbs Company of Milwaukee, Wisconsin; shipment to be made to their yard at Gladstone, Michigan (excepting the above material). The material was loaded out woodsrun and we received the following prices, f.o.b. cars loading points:

Posts		
3" 7'	\$.09
4" 7' & up		.16 ¹ / ₂
Poles		
4" 20'		.55
5" 20'		.75
6" 20'		.90
4" 25'		.80
5" 25'		1.00
6" 25'		2.25
6" 30'		3.25
7" 30'		4.50
6" 35'		4.65
7" 35'		7.00
6" 40'		7.25
7" 40'		9.00
7" 45'		10.50
7" 50'		14.00

A sale was made to the Munising Paper Company of from 300 to 500 thousand feet of peeled Hemlock logs produced by Wesley Miller and Connor Bros. on the main line of the Chicago & Northwestern Railway near McFarland. These logs were brought out in the winter time and were put in decks at the railroad spur, and it was necessary to ship them out as fast as they were peeled as there was no place in which to re-deck and hold them. The selling price was \$15.00 per thousand feet, f.o.b. cars.

A sale was made to the Munising Paper Company of the Spruce pulpwood from Juniper Spur, and other jobs, at \$11.00 per cord, f.o.b. cars. Their arrangement was that if they paid a higher price to anyone for similar wood during the season, they would pay us the higher price for the wood purchased under this arrangement, including the wood previously shipped. During the year they bought some Spruce pulpwood at \$13.00 per cord, and we are consequently receiving that price for the above material.

A sale was made to the Tanners Supply Company of our 1918 peel of Hemlock Bark, approximating 3,500 to 4,000 cords, at the following prices, f.o.b. cars:

M.M. & S.E. Ry. Points	\$13.00 per cord of 2240 lbs.
D.S.S. & A. Ry. "	13.50 per cord of 2240 lbs.
C. & N.W. Ry. " between Escanaba & Little Lake	13.50 per cord of 2240 lbs.

The above cordage does not include the 600 cords furnished the Munising Tannery.

Later on in the season we found that we would have some excess bark after filling the contracts of 1917 and 1918, for which the Tanners Supply Company are paying us \$13.50 per cord, f.o.b. cars loading points.

A sale was made to the William Bonifas Lumber Company of Escanaba, Michigan, of approximately 490 cords of Spruce and 225 cords of Balsam pulpwood, at \$10.00 per cord for the Spruce and \$6.50 per cord for the Balsam. This pulpwood came from our jobbers on the Chicago & Northwestern Railway.

We sold to the Munising Woodenware Company the Maple and Birch Veneer logs that were produced from the Vail Spur Operation - approximately 2,000,000 feet. They are paying us \$20.00 per thousand feet for the Maple logs and \$22.00 per thousand feet for the Birch logs, f.o.b. cars loading point.

The Cleveland-Cliffs Iron Company's Furnace, Marquette, is buying the cordwood logs that we are producing on the Munising, Marquette & Southeastern Railway at a price of \$12.00 per thousand feet, based on a weight of 14,600 pounds to equal one thousand feet.

A sale was made covering approximately 14,000 ties at McFarland and Gardner Mine to the Chicago & Northwestern Railway Company at the following prices:

	<u>Grade 1</u>	<u>Grade 2</u>	<u>Grade 3</u>	<u>Usable Rejects</u>	<u>Culls</u>
Heart Cedar	\$.82	\$.88	\$.77	\$.65	\$.45
Hemlock	.79	.85	.96	.60	.45
Tamarack	.79	.85	.96	.60	.45
Beech	.82	.88	.99	.60	.30
Yellow Birch	.82	.88	.99	.60	.30
Hard Maple	.82	.88	.99	.60	.30
Soft Maple	.82	.88	.99	.60	.30

A sale was made covering 500 to 600 thousand feet of Hemlock logs at Maple Ridge on the Chicago & Northwestern Railway, and 500 to 600 thousand feet at Republic on the Chicago, Milwaukee & St. Paul Railway, to the William Bonifas Lumber Company, at a price of \$20.00 per thousand feet.

WORK DONE FOR THE BENEFIT OF OUTSIDE DEPARTMENTS

Work performed for outside departments being copying of land lookers' estimates by purchases and tabulating same for the Cleveland Office:

C. A. Johnson	28 days
O. M. Coldren	28 "
W. L. Stanaway	28 "

NEGAUNEE CEMETERY

Proceedings are now pending in the Supreme Court pertaining to the final vacation of the Negaunee Cemetery. No final decision has as yet been reached.

During the year we made settlement with Thomas Walters by having his bodies in the old cemetery removed to a lot in the new cemetery.

SAWMILL PLANT

The sawmill was operated double shift during the year and produced a total of 19,641,302 feet of lumber, of which 16,681,898 feet were softwood, and 2,959,404 feet were hardwood. The average daily output was 78,585. The plant was operated during 250 days of the year. 115 days were lost due to Sundays, holidays, repairs, and during the month of December some time was lost due to a shortage of logs. The production cost per thousand feet for the year, not including depreciation, was \$8.365, as compared with \$6.433 for the previous year. The increase was due to higher wages, less efficiency from labor, increase in taxes due to re-adjustment of valuation by the State Tax Commission, increased insurance, and increased maintenance charges. An expense of \$3,600.00 was charged into Maintenance for the construction of a fire wall between the sawmill and the boiler house. Also in December, while the mill was idle due to a shortage of logs, extensive repairs were made, which should enable us to operate the coming year without closing down for the annual repairs.

Deliveries for the year totaled 25,038,000 feet of lumber, 3,671,200 lath, 4,487,500 shingles, 10,561 cords of slabwood, 1,739 loads of hogged refuse, and 6,071 cedar ties. The inventory December 31st was 9,214,600 feet, as compared with 14,608,800 feet January 1st, 1918. We had unfilled orders on our books December 31st for 4,018,000 feet, leaving a balance unsold of 5,196,600 feet.

Night Operations

We experienced during January and February some of the most severe winter weather that has prevailed for a number of years. With this condition, combined with the lower efficiency of the labor we were able to obtain, made the operation of the mill at nights a much more difficult proposition than it would have been under ordinary conditions. The mill was operated 249 day shifts and 225 night shifts. The average output per day shift was 43,416 feet, and the average output per night shift was 38,957 feet.

Lumber Market:

Prices advanced materially, commencing in late Spring. The demand was very active and shipments were somewhat curtailed owing to the inability to get cars and also to shortage of labor to load cars.

Hemlock ruled at \$24.00 to \$26.00 for merchantable and \$21.00 to \$23.00 for Number 3 or better grades. Hardwood practically did not move; there was no market. Number 3, however, was in active demand at prices ranging from \$21.00 to \$23.00 f.o.b. cars. The lath were sold. There was little building commenced and it was consumed largely in Government work and putting up of cheap houses for new manufacturing plants. These were, in many instances, in lath or plaster.

The labor condition was very abnormal. The labor were independent and it was difficult to get the same gang who started work go through with it to completion.

It was necessary to employ several women in the sawmill and shingle mill to keep the plants in full operation and five women were engaged in loading lumber in the yard. Their work was very satisfactory and without it it would have been difficult to have kept up the output and made as large shipments as was accomplished.

Log Supply

There was on hand at the mill and in Murray Bay January 1st, 1918, 816,896 feet of logs, of which 140,000 feet were hardwood, and the balance softwood. The receipts from all sources during the year totaled 17,962,160 feet. Of this quantity 2,686,131 feet were hardwood. Of the total quantity received the Lumbering Department shipped 1,214,072 feet, of which 1,121,285 feet were hardwood. The balance on hand December 31st was 1,669,800 feet.

Labor Conditions.

As previously mentioned considerable difficulty was experienced in keeping an adequate mill crew and sufficient labor in the yard to load the lumber orders.

Wages were increased from time to time until the minimum was \$3.60 per day with a bonus of 5% to those who stayed at work for a period of three

months. The bonus did not seem to make any particular difference to the men who did not have their families in town. Their one ambition seemed to be to work and get money enough to move to some other place. The married men were not so easily swayed by rumors of higher wages elsewhere throughout the country and remained at work. This condition makes it very apparent that more houses should be provided for the labor in Munising.

The 5% bonus applied to all men with the exception of the Superintendent, Sales Manager, Cashier, Millwright, Night Foreman and Retail Yard Foreman; the above men being based on a profit sharing basis.

No strikes or serious trouble was experienced with the men about the plants or any of our logging jobs. It was trying at all times to keep the work going due to the unrest among the men.

Manufacturers Hotel

The Hotel was in operation during the year but the number of employes stopping there was not sufficient to keep it on a self-supporting basis, and it was decided by the Committee in November to lease the hotel to an individual to be operated as in the past, giving preference to employes of the industries interested, and when they had been provided for, any surplus accommodations to be used for transient trade, etc. A rental of \$75.00 per month is charged the tenant, of which \$18.00 goes to the Committee for rental of the equipment owned by them, and \$57.00 per month is paid to the company for the rental of the building.

Shipments of Products

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

	1918	1917
Lumber	966 cars	696 cars
Lath	8 "	61 "
Shingles	14 "	
Box Shooks		14 "
Ties		7 "
Posts	1 "	1 "
Mixed		10 "
Pulpwood		157 "
Hogged Refuse		56 "
4' Fuel Wood Hard		32 "
4' Fuel Wood Soft		23 "
Slabs	436 "	
Bark	41 "	
TOTAL	1466 cars	1057 cars

These moved as follows:

	1918	1917
All MM&SE	593 cars	399 cars
Via Munising Junction	434 "	141 "
Via Eben Junction	17 "	39 "
Via Little Lake	108 "	102 "
Via Doty	314 "	376 "
TOTAL	1466 cars	1057 cars

Shingle Mill

The shingle mill was operated 107 days during the year to operate the stock of cedar tie and shingle cuts into a merchantable product. During that period we produced 6,359,750 shingles and 6,056 ties. We shipped 4,126,000 shingles and 5,708 ties.

The market for shingles has not warranted the operation of this plant other than to consume the raw material that we necessarily produce in our logging operations.

Planing Mill

The planing mill was operated during the entire year, the quantity of output depending upon the orders received and ability to secure cars.

A total of 7,331,537 feet of lumber was put through this mill and loaded on cars at a cost of \$2.339 per thousand feet.

Rafting

The rafting of logs from Grand Island was a difficult undertaking due to the labor shortage and the uncertainty of the weather. We were fortunate in losing very few logs. Our cost per thousand feet, including the expense of watering the logs, was \$2.36 per thousand. We rafted approximately 7,000,000 feet.

Fire Wall

In an effort to reduce the fire hazard and thus lower our insurance rate, a concrete wall was constructed between the engine house and the sawmill proper. We did not succeed in having a re-rating made before the close of the year but the Inspection Bureau have promised such re-rating in the near future.

Logs in Murray Bay

We have had some logs stored in Murray Bay since 1913 and a great many of them had become water logged and sunk. We pulled all these logs out of the

water and decked them along the shore where they are available during the summer months.

EBEN QUARRY

The Quarry was operated by the Alger County Road Commission; the Crusher and Equipment having been purchased by them last year. They paid us a royalty of 5¢ per ton on all rock removed, which amounted to \$453.95.

BEACH INN

Under lease to C. W. Sams.

GRAND ISLAND

Forest Preserve

No unusual conditions were noted during the year. Some reforestation work was undertaken on the lands from which the hemlock has been removed. See Mr. Johnston's report -- pages 25 and 26.

Deer

Virginia White Tail:

The deer came through the Winter in very good condition notwithstanding the extremely heavy snow fall and cold. More deer have been noticed about the Preserve during the past Summer and Fall than the past several years. This, in part, is due to having rid the Preserve of the wolves and coyotes which were very destructive to the young deer in the past several years.

Albino:

The herd of four white deer was further increased by one white fawn born from a white-tailed doe. This herd is carefully watched and fed and it is hoped that it will be further enlarged by offspring from the white does.

Elk

There remains but six or eight Elk. These are in fair condition and are occasionally seen around the Lodge.

Fox Propagation

The increase has been very slight; but four cubs were born in the pens. The number will be reduced and a fresh start made with new blood if they can be obtained at reasonable prices from the trappers about the country.

Game Birds

With the exception of the native Partridge no game birds to be found. The Partridge were quite numerous during the Summer which is attributed to the extermination of the coyotes and foxes.

Predatory Animals

We have not been bothered to any extent with wolves or coyotes. We occasionally find the tracks of one after the Bay is frozen, but so far we have succeeded in either killing them or driving them off the Island before they do any damage. One coyote was killed during the year.

Hunting

No hunting was permitted on the Island during the season because of the Influenza Epidemic that prevailed throughout this section of the country at that time.

Sales of Deer

We are offered more orders for deer than we are able to fill. Our shipments totaled 49 deer, and we had orders for as many more.

The deer are in fine condition and seem to have plenty of food.

Sales of Elk

No sales made.

Pickeral - Echo Lake

The usual seining of pickeral in Echo Lake during the Spring resulted in a catch of 430 pounds, as compared with 200 pounds the previous Spring.

Road Work

Due to the scarcity of labor no work was undertaken on the roads with the exception of the regular and necessary up-keep.

Trails

No additional trails were made, and only the work of maintaining those already in existence was done during the year.

Docks

No repairs of any consequence were made on any of the docks.

East Road from North Light

As mentioned in last year's report, it would seem that when labor conditions are easier, the matter of completing the road around the Island should be given consideration.

Maple Syrup

The syrup season was quite favorable, and extra efforts were put forth to produce as large a quantity of syrup as possible. We obtained an output of 332 gallons, as compared with 276 gallons the previous year.

Cottage Sites

There were no applications for cottage sites during the year.

Hotel and Cottages

The Hotel was opened June 26th and closed October 25th. The patronage during the year was very light and the loss was increased accordingly.

Summer Tourists

The number of people visiting the Island during the year was less than for the past several years. This was due to war conditions.

A statement of the number of people who visited the Island is made a part of this report. See page 45.

Improvements

It is difficult at this time to recommend any further improvements than mentioned in the 1917 report. It is more than probable that the usual number of guests will return this season in which event there will probably be a further demand for a suitable building for dancing, etc.

Electric Light

As reported in 1917, the plant has worn out, particularly the storage batteries. Owing to the short season it was able to supply light during the usual hours but it is doubtful if it will be possible to keep it in running order for a season lasting two months. If current could be had at a reasonable

DECEMBER 31st, 1918.

rate from the Munising Electric Light Plant, it would be desirable to lay a cable across the Channel so that lights could be had throughout the year and do away with the lamps and lanterns which are now in use.

Telephone

Nothing further to be said than reported in 1917.

FOREST FIRES

Last year was characterized by an exceptionally dangerous Spring for forest fires. This situation lasted until the last of May, the balance of the year, with the exception of a few days in June, being a fair average for this section of the country as regards fire records.

The company suffered very little through forest fires but there were times when large losses seemed almost inevitable. A large measure of credit is due to the State Warden for the decrease in forest fire loss but the fundamental reason for this decrease lies in the fact that the general public realizes the dangers of the situation and are cooperating with the State and private parties in the endeavor to lessen this peril. The attitude of the railroads has changed and they are taking steps to avoid the starting of fires and are lending every assistance possible when dangerous fires occur.

Forest Fire

On June 11th fire broke out near Forester's camp 48 where they had been burning brush while clearing land. A smoldering log, supposed to have been extinguished, turned out to be the cause of this fire. A very strong Southwest wind, which later turned to the West, and then to the Northwest, increasing in force, served to fan the flames and before the fire was discovered it had made considerable headway. One hundred men worked for twenty-four hours before the fire was finally gotten under control. Considering the height of the wind and the nature of the ground burned over, on which there was considerable dry slash, it is a wonder that they were ever able to extinguish the fire and that a big loss was not suffered. The loss consisted in about \$500.00 worth of piece material which had been cut and which still lay in the woods.

ANNUAL REPORT OF THE FORESTER FOR THE YEAR ENDING

DECEMBER 31st, 1918.

During the past year the Forester's time has been taken up with the various duties connected with his position but principally in the inspection of the several logging operations being conducted by this Department.

FOREST FIRES

Last year was characterized by an exceptionally dangerous Spring for forest fires. This situation lasted until the last of May, the balance of the year, with the exception of a few days in June, being a fair average for this section of the country as regards fire hazards.

The company suffered very little through forest fires but there were times when large losses seemed almost inevitable. A large measure of credit is due to the State Wardens for the decrease in forest fire loss but the fundamental reason for this decrease lies in the fact that the general public realize the dangers of the situation and are cooperating with the State and private parties in the endeavor to lessen this peril. The attitude of the railroads has changed and they are taking steps to avoid the starting of fires and are lending every assistance possible when dangerous fires occur.

Fredeen Fire:

On June 11th fire broke out near Fredeen's Camp #2 where they had been burning brush while clearing land. A smoldering log, supposed to have been extinguished, turned out to be the cause of this fire. A very strong Southwest wind, which later turned to the West, and then to the Northwest, increasing in force, served to fan the flames and before the fire was discovered it had made considerable headway. One hundred men worked for twenty-four hours before the fire was finally gotten under control. Considering the height of the wind and the nature of the ground burned over, on which there was considerable dry slash, it is a wonder that they were ever able to extinguish the fire and that a big loss was not suffered. The loss consisted in about \$500.00 worth of piece material which had been cut and which still lay in the woods.

The following species will be planted this Spring:

BRUSH BURNING

The burning of brush, except in a limited way as in the protection of camps or the burning along a railroad right-of-way, has not been a success when undertaken by private parties. This work should be undertaken by the State and adequate laws passed compelling the operator to pile his brush in such a manner that it could be burned. This would not greatly increase the cost of logging as the piling of brush would considerably lessen the log skidding cost. The work has been done in a number of instances for 25¢ per thousand feet or less.

REFORESTATION

During the Spring of 1918 the Hemlock lands recently operated under the Underhill contract were reforested; 100,000 White and Norway Pine seedlings were planted and an experiment in the planting of 7,000 Norway Spruce and Western Douglas Fir was tried. A good percentage of these seedlings were living last Fall, the foreign species, Norway Spruce and Western Fir, doing particularly well. It has become evident, however, that something is destroying the top buds of the White Pine; this is probably due to the work of deer or rabbits. The destruction of the terminal bud is usually fatal to the chances of the trees making any sort of a growth. The Norway Pine does not seem to suffer so much in this respect and I would advise the planting of more of this specie and relatively less of the White Pine.

The same instrument for planting was used as in the previous year - a short-handled double-bitted axe. While this method is not as efficient as the use of a grub hoe it considerably lessens the planting cost. This coming Spring, however, we propose planting a portion of the trees with grub hoes and in this way will be able to determine the most efficient method to use in the future.

On considerable of the area planted to Pine it was found necessary to go back and pick up standing timber, windfalls, etc. which had been left. The cutting, skidding and hauling of this material destroyed a considerable number of the seedlings and I advise hereafter planting only the tracts on which operations have been definitely abandoned.

The following species will be planted this Spring:

40,000	3	year old	White Pine	Seedlings	
50,000	3	"	"	Norway	"
2,000	5	"	"	Douglas Fir	"
3,000	4	"	"	Scotch Pine	"
5,000	3	"	"	Norway Spruce	"

BLACK ASH HOOPS

During the past year the operations of the Hoop Makers on the Fredeen Job had been continued and \$423.10 was realized in stumpage for this material. About one-half of the ash swamps have now been worked over and a total of \$1,184.96 collected in stumpage since the operations were commenced on these lands. On November 1st the stumpage price on this material was increased to \$1.00 per thousand hoops.

The Hoop Makers expect to put in a band saw to take the place of the barring out process. If this is the success we expect it to be, it will greatly decrease the waste. It will enable the hoop makers to take the material much closer in the woods and will reduce considerably the waste in working up the material after it has been cut.

The hoop makers plan to establish a plant in Marquette and the ash bolts will then be shipped in to be worked up into hoops and the waste material will go into fuel wood. If this method proves a success, the hoop makers have promised to go over lands already operated and pick up the material which they were unable to work under the old barring out process.

WINDFALLS & SCATTERED TIMBER

Throughout the company's holdings there is considerable windfallen timber. It is generally impractical, due to its scattered nature, for the company to attempt the recovery of this material. Wherever possible, however, an endeavor is made to interest settlers in the picking up of these windfalls. If the logs are to be used by the farmer himself for building purposes, a small stumpage charge is made, otherwise the company pays him a fair price for picking up the logs. In the case of small amounts of scattered timber left after logging, etc. it is far better to include this material in the sale of the land. This increases the attractiveness of the land to the farmer and the company receives a reasonable stumpage.

TAMARACK

I reported last year that there seemed to be a dying out in the deprecations of the Tamarack larch fly. During the past year, however, this pest has again made its appearance and it is my opinion that all Tamarack in the Upper Peninsula is doomed. A vigorous effort is being made to recover this material wherever conditions permit of its being operated but it is certain that in the more remote regions where logging is impractical at this time the Tamarack will be a dead loss. A large amount of this material is being taken out by the contractors along the Northwestern Railway in Towns 44 and 45 N., Range 24 W. This material is largely purchased by the Mining Department.

TRESPASS

Very little of the Forester's time during the past year was devoted to the search for trespass due to his time being taken up with other work and to the lack of an assistant. It would seem advisable that more work be done along this line and that another man should be put on to work with the Forester; he being familiar with the company's lands most liable to trespass could superintend this work as well as being able to use such a man for numerous other duties which require the help of an assistant. Heretofore there has always been at least one and sometimes two men working in conjunction with the Forester.

It is, in our opinion, especially important that the company's lands in the vicinity of Brimley and other outlying districts be examined. The lands with which we are in close touch are less likely to trespass and even if such a trespass is committed it is generally reported.

The amount of petty trespass diminishes with the improved condition among the farmers. They have learned that the company is willing to meet them half way and that for a reasonable stumpage charge will let the farmer have a limited amount of scattered forest material with which to build barns, etc. This practice serves the double purpose of discouraging trespass and enables us to obtain a revenue from windfalls and such materials as would otherwise go to waste.

FIRE PROTECTION

Without doubt, the best means of forest fire protection lies in the maintenance of an efficient system of fire patrol and the piling and burning of slashings around landings and right-of-ways. This Department's greatest risks occur on the lands being operated by Gust Fredeen and on Grand Island. The area of slash on the Fredeen Job is increasing every year and taken in connection with the slash lying to the North made by other operators creates an exceptionally dangerous fire hazard. I should advise the placing of at least one patrolman on the Fredeen Job.

On Grand Island the situation is a little different and there is less likelihood of a really disastrous fire in which there would be loss of life. If fire should occur on the Island, the company would be liable to a big loss in standing timber. A competent patrolman should be placed on duty on Grand Island for the entire summer and in addition efficient telephone communication should be used between the various camps.

Respectfully submitted,

H. J. Johnston

Location	Number	Value	Cost	Profit	Loss	Net
HTJ:S	15	200.00	100.00	100.00		100.00
Frederic	7	225.00	112.50	112.50		112.50
Good	1	40.00	20.00	20.00		20.00
Maple Ridge	1	40.00	20.00	20.00		20.00
Swirley	1	40.00	20.00	20.00		20.00
Kinnear	4	160.00	80.00	80.00		80.00
Malheur	10	400.00	200.00	200.00		200.00
Total	31	1005.00	502.50	502.50		502.50

Twenty-one sales were made in these districts, the largest portion of which were to private parties, chiefly, forestry and the

January 24th, 1919.

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

Dear Sir:-

I beg to submit the following as my annual report for 1918:

THE CLEVELAND-CLIFFS IRON COMPANY

SALES OF LAND & TIMBER:

We did not receive as many inquiries during the year for agricultural land as in 1917 and '16 due in a measure to demand and high wages prevailing for labor and to some extent possibly to the fact that practically all the best lands in both the Rumely and Matthews tracts having been sold and we have less to offer in these two districts where the demand for the past several years had been the most active. There was a considerable demand for lands carrying timber due undoubtedly to the high prevailing prices for all forest products. This helped us to dispose of some of our cut-over lands and such as were not apparently desirable from an agricultural standpoint but carried sufficient timber to make it attractive on that account.

The following statement will give you an idea as to the prices obtained in the various localities in which sales were made during the year:

District	Number of sales	Acreage	Total Am't of sales	Timber Value	Avg.Amt. of sale	Avg. Price per Acre.Land Only
Rumely-Chatham	12	520.00	\$ 4020.00	\$	\$ 335.00	\$ 7.73
Trenary	9	445.83	3660.00	418.75	406.66	7.27
Cooks	1	40.00	200.00		200.00	5.00
Fayette	5	549.92	3085.00		617.00	5.61
Maple Ridge	1	40.00	250.00	25.00	250.00	5.62
Brimley	1	40.00	240.00		240.00	6.00
Minnesota	4	160.01	1180.00	91.75	295.00	6.80
Miscellaneous	18	2561.22	35093.72	26644.65	1949.65	3.29
Total	51	4356.98	\$47728.72	\$27180.15	\$ 935.86	\$ 4.71

Rumely-Chatham & Trenary Districts:

Twenty-one sales were made in these districts; the larger portion of which were to Finns from Rumely, Chatham, Trenary and the

mining district of Marquette County. The Marquette County Land & Insurance Company were quite active in interesting people in our lands and a large part of these sales were made through them. As above stated, the sales in these districts are becoming less each year due to the fact that most of the good desirable lands have been disposed of.

Cooks & Maple Ridge Districts:

Only one sale was made in each of these districts. Our lands at both of these points are nearly all gone and the small acreage remaining will work off gradually.

Fayette District:

Five sales aggregating 549.02 acres. All our lands at this point are under the exclusive sale of the Fayette Land Company. The remaining lands in this district are of an inferior character and suitable for the most part only for grazing and on this account will work off slowly as the adjoining farms are cleared up and it becomes necessary for the owners to acquire additional pasturage.

Minnesota:

Few inquiries were received for our lands in Minnesota and four sales were made. During my visits to Minnesota the past two years I have called on a number of real estate firms and men selling lands in Aitkin County and have submitted to them lists of our holdings and prices and I believe that when the demand for agricultural lands again becomes active these lands will move more rapidly.

Brimley:

Very few inquiries were received for lands in this district and only one sale developed. All our holdings in this district carry more or less timber and this handicapped sales as the people settling in this district do not seem to care for the timber and will not pay a reasonable stumpage price for it. If we could in some way arrange for the disposition and removal of the timber, these lands could be sold readily and at good prices as the soil is particularly good and the agricultural community at Brimley is a thriving one.

Miscellaneous:

The large sales were to the Northwestern Cooperage & Lumber Company covering 469.03 acres in the Fiborn District for \$14,216.72 and 439.54 acres to Nels Westling covering scattering lands in Towns 42-20 and 43-21.

Surrendered and Cancelled Contracts:

Three contracts were surrendered during the year and three were cancelled on account of failure to make payment. These covered 231.33 acres, all of which were resold during the year with the exception of 91.33 acres.

SHEEP & GRAZING:

This movement was followed up vigorously by the Development Bureau during the year with the result that a large number of Western sheep and cattle men visited the Upper Peninsula inspecting grazing lands. This movement has gained considerable headway and the prospects of a successful development of this industry in the Peninsula look promising.

Mr. Harney, of Escanaba, who is working independently of the Development Bureau along these lines, is now out West among the sheep and cattle men and reports a promising outlook for another large number of them coming to this country in 1919. I also understand that C. R. Hutcheson, who is now Editor of the Cloverland Magazine, will spend about three months on similar work in the West.

During the year we showed several grazers over the tracts we have in the Rumely District but for some reason or other were unable to locate any grazers on them. However, after looking over the lands along the E. & L. S. Ry. in Marquette and Dickinson Counties where the larger portion of the grazers located, I feel satisfied that the tracts at Rumely will stand very favorable comparison in every respect and when this movement is fairly well established will be in demand.

Mr. Bishop, who has a lease and option on the lands in the Vail District was also favorably impressed with the general character of the lands in Alger County for grazing purposes and appeared well pleased with the location at Vail after having inspected the lands along the E. & L. S. Ry.

The last we heard in regard to Mr. Bishop is that he expects to move his sheep to this land early in the Spring of 1919.

SALES OF TIMBER:

The sales of timber to parties outside of the Lumbering Department and allied industries at Munising were as follows:

SE $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 25-46-3	\$	175.00
N $\frac{1}{2}$ of S $\frac{1}{2}$ of Sec. 35, NE $\frac{1}{4}$ of SW $\frac{1}{4}$ & N $\frac{1}{2}$ of SE $\frac{1}{4}$ of Sec. 36, 46-9		3,500.00
397 Acres in 45-10 & 44-11 sold to Charcoal Iron Co.		8,150.00
Exchange with Bay de Noquet Lumber Co.		1,551.02
Total		\$13,376.02

LOT SALES:

The only sale was to J. M. Conry covering the W $\frac{1}{2}$ of Lot 10, Block 3, Cliffs Addition, Munising. There were practically no inquiries for lots at Munising during the year; several were received for our Burt & Ely lots at Marquette but no sales developed.

HOUSE & LOT SALES - \$1,750.00:

This represents the sale of Lot 4, Replat of South half of Block 12, Original Plat, Munising, to Gordon Earle.

The payments on the various house and lot contracts are being kept up very well. These contracts are all in good shape. During the year we were able to dispose of the Steusser property and in this way placed the contract covering this property on an active basis.

RENTED BUILDINGS:

There was a considerable decrease in the demand for houses in Negaunee during the year with the result that a number of the Company dwellings were vacant more or less; this accounts for the decrease in the earnings as compared with 1917. The repair items were, with a few exceptions, of the usual nature. The extraordinary repairs were as follows: A new galvanized iron deck roof was put on the Merry House; considerable repairs were made to the roof and some filling done over the water pipes at House No. 6; sewer connections were put in for House No. 117, a new roof on a part of House No. 102, House No. 111 was raised up and new sills put in, weather strips for the doors and windows of the Agent's and Auditor's residences and a new heating plant for the Agent's house. All the houses under the care of this Department are old and owing to the continual change of tenants the repair items will

necessarily be high each year.

COLLECTIONS:

The collections of land and house rents and the payments on various contracts were very good during the year. Each year we are able to effect the collection of some old account that has been on the books for a number of years and another year or two should see all these old accounts back on an active basis.

A number of loans by the Federal Land Bank of St. Paul were made to farmers in the Rumely-Chatham District during the year and in this way we were able to secure the payment of a number of contracts in that district which had been dragging along in arrears for several years.

NEW LEASES:

Leases covering five residence lots in the C. I. M. Co's Second Addition, two farm leases, fourteen miscellaneous leases and a number of garden leases were issued during the year. The total annual rental of such new leases issued amounts to approximately \$575.00.

BELLEVUE & CLIFFS FARMS:

These farms were again leased to the same parties at the same rentals.

IMPROVEMENTS:

General Conditions:

The street work, sidewalks and other improvements made by the Company in the various mining locations at Ishpeming a few years ago is looking good and holding up very well. The gradual improvement in the appearance of these locations is noticeable each year as the houses are repaired and new fences put up.

NEW WORK:

No new work was done by the Company during the year. The conditions existing in parts of the Marquette and Barnum Locations, as previously reported, have not been remedied and each year we have had some complaint on this account; however, labor conditions for the past several years have not been such that any work could be done at these points. It seems that should the labor situation be favorable in the

Summer of 1919 the work of fixing these places should be undertaken.

The City of Ishpeming did not do any new street work owing to war times and consequently no streets where Company property is located were improved.

GARBAGE COLLECTION & CLEANING:

This item for the year amounted to \$628.36, slightly higher than for the year 1917 due to the increased cost of labor and teaming. In addition to this item we also expended \$142.24 on the Davis Street sewer which became clogged through the dropping of refuse in the catch basins and it was necessary to take up and clear out a part of it.

BUNKER HILL MINING COMPANY

RENTED BUILDINGS:

Two of the houses of this Company were vacant for several months and this accounts for the decrease in earnings from this source. There were no unusual repair items; no uncollected rentals.

COLLECTIONS:

All rents for the year were collected.

MICHIGAMME COMPANY

RENTED BUILDINGS:

Only two houses remain and only one of these, viz. No. 46, was occupied for a part of the year. No repairs were made or unusual expenditures.

LOT SALES - \$105.00:

Represents sale of the $W\frac{1}{2}$ of Lot 141 and Lot 145.

REAL ESTATE SALES - \$415.00:

House No. 1 and lot occupied by it was sold for \$225.00 and two unplatted lots were sold to Robert Moore for \$190.00. But few inquiries were received for property in the Village of Michigamme during the year.

NEW LEASES:

A lease was issued to Christ Olson for a part of Lot 2, Section 20-48-30 and three new garden leases, the total annual rental of which amounts to \$11.00.

COLLECTIONS:

Collection of all accounts were good. All accounts are up to date and there are no uncollectible contract or rent items.

going over

AMERICAN IRON MINING COMPANY

The only revenue item for the year was the interest amounting to \$1149.26 derived from outstanding land contracts and the timber permit to the Piqua Handle & Manufacturing Company. The Piqua people have operated practically entire Section 20 and the Fractional Northwest quarter of Section 28 and this timber has been paid for. These lands will probably be released from their permit this Winter.

Respectfully submitted,

A. J. Erickson
.....

AJE:S

Yours very truly,

A. C. Jelling

RECEIVED IN OFFICE

ST. LUKE'S HOSPITAL

CHICAGO

January 28th, 1919.

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

Dear Sir:-

In reply to your reminder as to my usual contribution to the Annual Report for Grand Island would say that I fully expected to return to Munising in time to forward it to you together with a review of work done by the Alger County Road Commission for 1918. My slow recovery, however, here in St. Luke's Hospital has prevented this and I now expect to go South with my daughter the coming week in the hope of attaining a cure under more favorable conditions of climate.

Regretting that I am unable at this time to carry out the usual requirements connected with the Annual Report.

Yours very truly,

A. O. Jopling

ENGINEER IN CHARGE

S

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT OF FOREST FIRES OCCURRING DURING YEAR 1918 AS REPORTED BY THE VARIOUS DEPARTMENTS OF THE CLEVELAND-CLIFFS IRON COMPANY

REPORT NO.	DATE 1918	LOCATION	OWNER OF LAND		CAUSE			PREVENTABLE OR NOT	ATTRIBUTABLE		QUANTITIES AND KINDS	LOSS VALUE			COST TO PUT OUT FIRE	LOSS VALUE TO OUTSIDE PARTIES	ITEM
			CO.	CO. LAND SOLD	OTHER PARTIES	SPARKS FROM ENGINE	FARMERS BURNING BRUSH		MISCL.	TO PRACTICES OF COMPANY		TO PRACTICES OF OUTSIDE PARTIES	TO LAND DEPT.	TO LBRG. DEPT.			
1	Feb. 6	Munising Station			1			#	Yes	1		Oil stove burned & 5 windows cracked			15.00		
2	Apr. 25	1 1/2 miles west of Antlers			1			0	"	1		40 pcs. shingle timber					
3	" 26	Ishpeming - 1000 ft. West MP 20	1			1			"	1		Dry Grass					
4	" 25	1 mile north of Antlers-Big Bay			1				"	1		Brush					
5	" 25	3/4 mile west of Eben		1		1			"	1		Mr. Acker's barn					
6	May 1	1/2 mile west of Eagle Mills	1					##	"	1		Few fence posts					
7	" 4	Ishpeming-North of M.P.20	1			1			"	1		Dry grass 200x200' space					
8	" 5	Lawsen at Brandon's Crossing			1		1		"	1		15 cedar ties & 3 telegraph poles were scorched					
9	" 13	1 mile west of Rumely Siding			1	1			"	1		Grass on right-of-way					
10	" 13	Little Lake - Mucks Crossing			1			(1)	?			Dry grass on right-of-way					
11	" 14	1/2 mile west of Chatham Siding			1	1			Yes	1		" " " " " "					
12	" 16	1/2 mile east of Lakewood			1	1			"	1		Dry grass					
13	" 16	Rasel Siding - Harvey			1		1		"	1		30 posts belonging to MCHASE R'y Co.					
14	" 20	Sikandia - Selma Spur			1	1			"	1		Dry grass on right-of-way					
15	June 2	1/2 mile west of Forestville			1			(2)	"	1		Small amount of brush burnt					
16	" 11	Yalmer - Fredeen's Operations	1					(3)	"	1		Posts, ties, poles, shingle bolts & pulp, & 450 acres of cut-over land	\$500.00		\$511.00		
17	" 11	1/2 mile south Big Bay depot			1			(1)	?			Dry grass outside of right-of-way					
18	" 11	1 1/2 miles west of Birch			1	1			Yes	1		Dry grass on right-of-way					
19	" 13	Ishpeming, 1000 ft East MP 20	1			1			"	1		" " in plowed field					
20	" 17	Little Lake-west Long Siding			1			(1)	?			Grass on right-of-way & few stumps					
21	" 17	West Yard - Marquette			1			(2)	Yes	1		Few ties burnt and dry grass					
22	" 11	to 18 3 miles west of Birch			1			(1)	?			Dry grass & brush fire started north of Ash Siding and ran thru to main west of Birch, from June 11th to 18th					
23	July 11	North of Eagle Mills	1			1			Yes	1		Dry grass outside of right-of-way					
24	" 20	Ishpeming-North Cliffs Shaft	1					(1)	?			Burnt poor crop of hay & muck			\$600.00		
25	" 22	Grand Island	1					(4)	No			1/2 acre burnt over-1 tree destroyed			15.00		
26	Oct. 12	Eagle Mills at M.P.10			1	1			Yes	1		Dry grass on right-of-way					
27	Nov. 23	Lawsen (In station)			1			(5)	"	1		Burnt desk, telegraph instrument, train register, 10' of wall and windows					

Caused by sparks from Engine	12
" " Farmers burning brush	2
" " MISCELLANEOUS:	
# Oil Stove exploded	1
0 County Road men burning grass	1
## Section Men burning old ties	1
(1) Unknown	5
(2) Men walking along track evidently built (small fire)	2
(3) Fredeen (our jobber) clearing land & burning brush	1
(4) Lightning	1
(5) Presumably from a cigarette or cigar	1
	<u>27</u>

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

COMPARATIVE STATEMENT OF RECEIPTS FOR YEARS 1918 AND 1917

R E C E I P T S	1918	1917
Alger County Farm	4,200.48	500.00
Greenhouse Sales - Outside Parties	2,372.99	900.00
Greenhouse Sales - Other Operations		
Earnings from Rented Buildings	8,230.42	4,761.68
Lot Rents - Pendill Location	183.00	182.00
Junction "	360.00	360.00
Winthrop "	148.00	148.00
Salisbury "	99.00	99.00
Barnum "	533.00	528.00
Excelsior Iron Co's Addition	12.00	12.00
C. I. M. Co's 1st Addition	1,901.02	1,901.02
do. 2nd "	566.50	580.50
" 3rd "	2,938.00	2,937.00
" 4th "	100.00	77.00
" 5th "	1,111.00	1,120.00
Nebraska Location	135.00	135.00
Bancroft "	225.00	228.00
Hard Ore "	750.00	750.00
Marquette "	1,101.00	1,101.00
Hematite "	28.00	28.00
J. I. Co's Addition	1,198.00	1,190.14
P. I. Co's 2nd Addition	90.00	90.00
Munising	104.00	55.00
Land Rents	8,789.82	8,235.38
Sales of Real Estate and Timbered Lands	38,703.72	19,115.00
Sales of Farm Lands	7,173.91	13,065.80
Sales of Town Lots	200.00	2,345.00
Sales of Houses and Lots	1,750.00	
Sales of Cordwood	44,599.26	19,599.97
Sales of Forest Products - Other Operations	63,003.15	37,822.63
" " " " " - Outside Parties	1,069.02	
Trespass Cases	707.40	219.56
Sales of Bark	4,323.89	1,703.45
Land Products Sales	361.60	618.25
Profit on Sales of Tax Titles	8.28	479.92
Sales of Timber	19,252.92	8,604.00
Deliveries of Forest Products Produced - Outside Parties	181,934.63	14,595.16
" " " " " - Other Operations	350,456.68	12,377.00
Royalties Received	453.95	
Miscellaneous Sales of Machinery and Equipment	345.50	200.00
Miscellaneous Earnings	1,098.10	951.79
Cash Discount on Purchases	723.40	228.18
Interest Received	8,974.58	7,911.29
Collection Fees	1.50	
Munising Cow Pasture Rental		25.00
Sundry Rentals	171.00	11.00
Box Shook Earnings		14,685.66
Lumbering Dept. Operation #73 - Outside Parties	23,772.06	16,721.76
" " " - Other Operations	21,457.61	773.26
TOTAL	805,718.39	197,972.40

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

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

YEAR 1918

PURCHASE	GRANTOR	PURCHASE NO.	ACREAGE	PURCHASE PRICE	ABSTRACTS & RECORDING	TOTAL
C. & N. W. Ry. Co.	C. & N. W. Ry. Co.	936			1.50	1.50
J. H. Winter	J. H. Winter & Wife	1098			1.00	1.00
J. H. Winter	J. H. Winter & Wife	1152			1.00	1.00
Munising Company	The Munising Company	1843	169,904.18		83.60	83.60
Bay de Noquette	Bay de Noquette Co.	1857	1,080.97		1.50	1.50
do.	do.	1858	# 2,580.45		2.50	2.50
N. W. Cooperage Co.	N. W. Cooperage & Lbr. Co.	1861	323.36	8,000.00	20.25	8,020.25
C. & N. W. Ry. Co.	C. & N. W. Ry. Co.	1888	1,080.00	35,000.00	14.96	35,014.96
TOTAL			174,968.96	43,000.00	126.31	43,126.31

Denotes Timber only.

OMC:NRH:3

2-4-19.

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

LAND ACREAGE - DECEMBER 31, 1918.

SHEET #3

TOWN	RANGE	UNPLATTED LANDS								PLATTED LANDS			TOTAL	MINERALS RESERVED IN PAST LAND SALES
		FEE	SURFACE	MINERALS	LEASED MINERALS	MINING OPTION	TIMBER ONLY	LEASED SURFACE	WATER RIGHTS	FEE	SURFACE	MINERALS		
48	39													711.57
49	39													480.00
45	29	42.32	16772										210.04	126.17
46	29	1425.11											1425.11	142.35
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.	614.56											614.56	760.00
49	23	189.96		2.50									192.46	
50	23	1007.98		54.80									1062.78	40.00
46	25	40.00											40.00	240.05
47	25	39.75											39.75	
46	26	200.00											200.00	240.00
57	22		119.88		80.00			319.60					519.48	
57	23		40.00										40.00	
58	15				152.09								152.09	
59	15							1.75			1.08		2.83	
45	1E Vis.	133.33											133.33	
41	31					42.38							42.38	
42	31					929.79							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					1495.40							1493.40	
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	
TOTALS		603263.66	75723.45	2090.10	2816.99	53696.96	34745.33	326.60	226.29	238.77	77.13	283.49	773498.77	82478.53

THE CLEVELAND-CLIFFS IRON COMPANY AND SUBSIDIARY COMPANIES

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

DECEMBER 31st, 1918.

COMPANIES	FEE "A"	UNPLATTED LANDS							PLATTED LANDS			TOTAL ACRES	ACRES OF LAND NOT TIMBERED "H"	ACRES OF LAND TIMBERED "I"	LANDS ON THE MINERAL FORMATION "J"	MIN. RIGHTS RESERVED SALES "K"	
		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						
CONSTITUENT COMPANIES (Entire Stock owned by The C. C. I. Co.) The Cleveland-Cliffs Iron Co.	603,263.66	75,723.45	2,090.10	2,816.99	53,696.96	34,745.33	326.60	226.29	236.77	77.13	283.49	773,486.77	169,707.19	603,761.58	104,698.11	82,476.53	
TOTAL CONSTITUENT COMPANIES	603,263.66	75,723.45	2,090.10	2,816.99	53,696.96	34,745.33	326.60	226.29	236.77	77.13	283.49	773,486.77	169,707.19	603,761.58	104,698.11	82,476.53	
ALLIED COMPANIES (A portion of the stock only owned by the C. C. I. Co.)																	
Negaunee Mine	2.40	3.49		213.36						3.21		222.46	222.46			198.40	
Arctic Iron Co.	1,083.54		37.98							103.53		1,225.05	1,225.05			268.02	
Athens Mining Company	41.76		10.00	22.90						.37		75.03	75.03			74.66	
Michigan Mineral Land Company	28,175.62	634.43	24,296.31									53,308.36	53,308.36			52,473.93	
Bunker Hill Mining Company	43.10		10.20									53.30	53.30			53.30	
Lucky Star Mining Company	49.74											49.74	49.74			49.74	
TOTAL ALLIED COMPANIES	29,396.16	637.92	24,356.49	236.26						3.58	103.53	54,933.94	54,933.94			53,138.05	
ASSOCIATE COMPANIES (The C. C. I. Co. no ownership but acts agent)																	
American Iron Mining Company	2,656.08		158.42									2,816.50	2,816.50			2,816.50	
Michigamme company	1,431.82	275.20	1.88						37.80		90.04	1,836.71	1,370.56	466.15		1,185.70	
TOTAL ASSOCIATE CO.'S	4,089.90	275.20	160.27						37.80		90.04	4,653.21	4,167.06	466.15		4,012.20	
GRAND TOTAL LANDS OWNED AND CONTROLLED (ALL COMPANIES)	636,749.72	76,836.57	26,606.86	3,053.25	53,696.96	34,745.33	326.60	226.29	276.57	80.71	477.06	833,075.92	228,828.19	604,247.73	161,846.36	82,476.53	
	"A" - Lands where entire fee is owned.						"H" - Lands which have been examined and which reports show do not contain sufficient timber to be classed as timber land.										
	"B" - Lands where surface only is owned.						"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 operations of the Lumbering Department.										
	"C" - Lands where minerals only are owned in known mineral district.						"J" - Approximate acreage of lands inside the mineral formation as indicated by maps furnished to the Land Department by the Mining Department, April, 1914.										
	"D" - Lands where our interest is confined to a mining lease.						"K" - Acres of minerals reserved in Farm Land Sales, outside of mineral formation.										
	"E" - Lands where our interest is confined to a mining option.																
	"F" - Lands where timber only is owned.																
	"G" - 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.																
	FEE	SURFACE	UNPLATTED LANDS				PLATTED LANDS			ACRES OF LAND	ACRES OF LAND	LANDS ON		MINERAL RIGHTS			
	FEE	SURFACE ONLY	MINERALS ONLY	LEASED MINERALS	MINING OPTION	TIMBER LEASED ONLY SUR.	WATER RIGHTS	FEE	SURFACE ONLY	MINERALS ONLY	TOTAL ACRES	NOT TIMBERED	TIMBERED	THE MINERAL FORMATION	RESERVED IN SALES		
Total acreage December 31st, 1917	641,079.86	75,423.81	26,614.16	3,053.25	53,696.96	33,159.66	326.60	226.29	276.72	80.81	476.91	834,415.03	227,150.91	607,264.12	161,846.36	78,141.09	
Purchased during 1918.																	
The Cleveland-Cliffs Iron Company	7.30	2,300.97	7.30			2,903.81			.60			5,205.38	140.60	5,064.78			
Athens Mining Company (1)									.10			.10	.10				
Cancelled Contracts The Cleveland-cliffs Iron Company	220.00	11.33									231.33		231.33			220.00	
TOTAL -	641,307.16	77,736.11	26,696.86	3,053.25	53,696.96	36,063.47	326.60	226.29	277.32	80.91	476.91	839,851.84	227,522.94	612,328.90	161,846.36	78,141.09	
Sold during 1918																	
The Cleveland-Cliffs Iron Company	4,557.44	879.54				1,036.14			.60	.20		6,475.92	2,151.75	4,324.17		4,557.44	
Michigamme Company (2)									.15		.15						
Classification changed (4)												3,477.00	3,477.00				
Surrendered																	
The Cleveland-Cliffs Iron Company						280.00						280.00		280.00			
M. M. & S. E. Ry Co. (3)		20.00										20.00	20.00				
TOTAL -	4,557.44	899.54				1,316.14			.75	.20	.15	6,775.92	1,305.25	8,081.17		4,557.44	
TOTAL ACREAGE DECEMBER 31st, 1918	636,749.72	76,836.57	26,606.86	3,053.25	53,696.96	34,745.33	326.60	226.29	276.57	80.71	477.06	833,075.92	228,828.19	604,247.73	161,846.36	82,476.53	

- (1) Purchase No. 1861
- (2) Conv. Nos. 3343 and 3417
- (3) Transferred to Railway Department - no land records carried for this Company in Land Office.
- (4) Represents Lands operated or Timber Sold under Timber permit.

CAJ:NRH

THE CLEVELAND - CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT SHOWING NUMBER OF GUESTS REGISTERED AT HOTEL WILLIAMS
BY STATES AND CITIES DURING THE SEASON OF 1918

			(Total carried)	354
<u>MICHIGAN</u>			<u>MINNESOTA</u>	
Menominee	4		Minneapolis	6
Escanaba	37			
Marquette	58		<u>IOWA</u>	
Negaunee	19		Dubuque	4
Gladstone	7			
Detroit	32		<u>PENNSYLVANIA</u>	
Laurium	2		Philadelphia	2
Munising	49			
Owosso	4		<u>NEW YORK</u>	
Soo	2		New York City	1
Saginaw	1			
Alpina	1		<u>CONNECTICUT</u>	
Grand Rapids	2		Grand Haven	1
Lansing	1			
Manistique	6		<u>NEW JERSEY</u>	
Battle Creek	1		Summit	3
Republic	1			
Saginaw	3		<u>WASHINGTON, D. C.</u>	
Ludington	1			
Jackson	1		<u>MISSOURI</u>	
Ishpeming	6		Kansas City	4
Calumet	4		St. Louis	1
		242		5
			<u>TENNESSEE</u>	
<u>ILLINOIS</u>			Memphis	6
Chicago	45			
Decatur	2		<u>FLORIDA</u>	
Rockford	7		St. Augustine	1
Evanston	4		Maitland	1
Champaign	2		St. Petersburg	1
Ogden	1			
Moline	1			3
		62	<u>NEBRASKA</u>	
			Omaha	1
<u>WISCONSIN</u>				
Ashland	1		<u>COLORADO</u>	
Marinette	4		Denver	1
Menominee	5			
Neenah	10		<u>OREGON</u>	
Milwaukee	4		Portland	2
Marinette	4			
Plymouth	1		<u>WASHINGTON</u>	
Adrian	3		Tacoma	2
Appleton	2			
		34	<u>NORWAY</u>	
			Christiana	2
<u>OHIO</u>				
Cleveland	11		<u>CHINA</u>	
Cincinnati	3		Pekin	1
Mt. Vernon	2			
		16		1
		354		395

ARCTIC IRON COMPANY

LAND DEPARTMENT

LAND ACREAGE - DECEMBER 31st, 1918.

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
47	26	148.00	33.55	15.50	197.05
TOTAL		1083.54	37.98	103.53	1225.05

CAJ:NRH

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

LAND DEPARTMENT

LAND ACREAGE - DECEMBER 31ST, 1918

UNPLATTED LANDS				
TOWN	RANGE	FEE	MINERALS	TOTAL
47	31	515.98	38.42	554.40
48	31	2142.10	120.00	2262.10
TOTAL		2658.08	158.42	2816.50

CAJ:NRH

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

LAND DEPARTMENT

LAND ACREAGE - - - DECEMBER 31st, 1918.

TOWN	RANGE	UNPLATTED LANDS			PLATTED LANDS		TOTAL
		FEE	SURFACE	MINERALS	FEE	MINERALS	
48	29	35.37					35.37
48	30	968.47	275.20	1.85	37.80	90.04	1373.36
48	31	427.98					427.98
TOTAL		1431.82	275.20	1.85	37.80	90.04	1836.71

CAJ:NRH

BUNKER HILL MINING COMPANY

LAND DEPARTMENT

LAND ACREAGE - DECEMBER 31st, 1918.

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

CAJ:NRH

THE UNIVERSITY OF CHICAGO

