

ANNUAL REPORT
1922



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

MS 86-100
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ANNUAL REPORT

YEAR 1922

LAND DEPARTMENT - BUREAU OF RECLAMATION

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ANNUAL REPORT

YEAR 1922

LAND DEPARTMENT - NEGAUNEE, MICHIGAN

Mr. W. G. Roshars, President,
1100 Elroy Building,
Cleveland, Ohio.

RECEIVED

Dear Sir:

MAR --1 1923

ANS'D _____

I have your request with ANNUAL REPORT
of The Cleveland-Elroy Iron Company, Land Department, and
its subsidiary properties for the fiscal year 1922.

Yours respectfully,

C. A. Farnsworth
Land Agent.

BY _____

ANNUAL REPORT
DEPARTMENT - IRON AND STEEL
FISCAL YEAR
NEGAUNEE, MICHIGAN, FEBRUARY 19, 1923.

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 1922.

Yours respectfully,

C. V. P. Townsend
Land Agent.

CVHT:P

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THE CLEVELAND-CLIFFS IRON COMPANY

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LAND DEPARTMENT REPORT FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1922

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 the lands purchased during the year accompanies this report. The only item of importance was the purchase of 200 acres from the Chatham-Trenary Land Company for Au Train water power purposes.

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. Comments on this subject are also to be found in report made by Mr. Erickson.

TIMBER SALES TO MANUFACTURERS

The depression of 1920 carried over until late in the spring of 1922. There was up to this time only slight activity in the manufacturing plants in the Munising territory, and owing to their shut down or curtailments in 1920, they were well stocked with raw material and were not in the market for forest products.

Munising Paper Company

Their stock of logs and pulpwood was large and it was not until late in August that they were able to take in logs purchased from us for water delivery and we could not give them logs as fast as they developed in rafting from the lake places where logs were piled as they were bringing in their own logs from the lake shore and their booms were kept continually filled. This materially delayed us in making deliveries and it was necessary to ask for an extension of the contract over 1923. Their lumbering operations are principally conducted by the Lumbering Department of The Cleveland-Cliffs Iron Company whose activities are mostly in the so-called Vail District. Owing to conditions previously mentioned, operations in the Vail District were suspended and not opened until late this fall.

General

The early winter was favorable for woods operations but with all plants stocked, there were but few camps operating, and the farmers put out small quantities of material owing to the poor demand and low prices.

Woods labor was plentiful up to the middle summer at which time men went to work at the various road construction jobs. There was no great activity during the entire summer period in the Upper Peninsula. Several increases in wages resulted from the scarcity of men.

Woodworking Industries

Piqua Handle Company - Marquette

This plant was affected until the picking up of business in the early summer. It had plenty of logs and labor was plentiful and cheap up until the early summer.

The Munising Woodenware Company - Munising

Had a full supply of logs for its woodenware plant but not sufficient for the veneer plant. Its operations were not so generally affected as most other plants and it managed to keep running throughout the entire year. They succeeded in buying a considerable quantity of logs in the vicinity of the Soo which were delivered by boat in boom at Munising; the most of this timber was of veneer quality, which helped out their plant very much. Labor was plentiful and wages were on the basis of \$2.50 per day of ten hours until June 15th, at which time there was a general increase to \$3.00 per day of ten hours and at which rate, wages have held up to this time.

Brunswick-Balke-Collender Co.

This company has sold out all its interests in the so-called Big Bay district to Mr. J. B. Deutsch, who has incorporated this under the name of Lake Independence Lumber Company. Their plant has been fairly active throughout the year. Their sawmill was down during the early part of the year but since that time was operating.

Schneider & Brown Sawmill - Marquette

This plant was closed for the first several months of the year being affected by the general business depression. Their supply of logs came from the vicinity of Sidnaw; their plant has been running steadily since early summer on one shift.

Nufer Cedar Company Plant - Marquette

This plant was closed until early summer, resuming activities when general business increased. It is now running on a one-shift basis. Their product is entirely resawed hardwood for tin plate boxes.

Dalton Mill - New Dalton

Mill idle during 1922.

Munising Tannery Company - Munising

Practically dismantled. Property offered for sale. No activity during 1922.

Goodman Mill - Little Lake

Down during the early winter, starting operations when business picked up. Now running on one-shift basis. Its operations are largely confined to the output of hardwood ties.

Jackson & Tindle - Munising

Not operating first part of the year. Started when the general revival of business took place. Had a small quantity of logs on hand and put in a number of jobbers on East Branch to keep the mill going with fresh cut hardwood logs. Running practically on hardwood, single shift basis.

CLIFFLAND FARM - RUMELY

The general poor employment conditions reflected in the small demand for farm products. Men have been out of work such a long time that when the resumption of business took place, they were out of money and not knowing how long their jobs would last, made no effort to buy farm lands. There was no inquiry for the purchase of the Cliffland Farm which was operated by the Land Department to keep up its general fertility. The season was, from the farmer's standpoint, very poor being moderate in the spring and later turning to drought, resulting in a medium fair hay crop and about a 40% grain yield. The low prices of farm produce together with poor yield was very discouraging. The apple crop also felt the peculiar weather conditions, production being 67 bushels. The potato crop was large. This was general throughout the whole country, resulting in no demand for the potatoes.

GREENHOUSES

The greenhouses were not operated and no expenses were incurred in any way except for taxes and insurance.

FOREST FIRE PROTECTION

No serious fires of consequence on the Company's property occurred during 1922. Several small minor fires caused principally by fishermen occurred. The Land Department men were active in patrolling the forests as we had large amounts of forest products piled along the various spurs and owing to their being so many idle men, the situation looked serious. However, keeping watchmen at all points, we were able to avoid losses.

UPPER PENINSULA DEVELOPMENT BUREAU

(over)

The Bureau continued to center its activities on advertising and particularly with reference to attracting tourist traffic. In addition to this work, they backed up the land clearing campaign conducted under the State Department of Agriculture and extension work of the Agricultural College. The Bureau received excellent support from the various county boards, large land owners and public in general throughout the Peninsula.

BALDWIN KILN PLAINS LANDS

There is nothing to report in this matter.

TAXES

Statements covering taxes paid by this Department have been forwarded to your office and shows a comparison for the years 1921 and 1922. There was a slight increase in the total amount of taxes paid for 1922 as compared with 1921. There has been no marked increase in the valuations of our property and the increase in taxes is due to activity in the building of roads, schools and development of the townships in which the Company owns lands.

LOGGING OPERATIONS

No logging operations were conducted during the year 1922 by this Department. All such operations have been assigned to the Lumbering Department.

General Logging Conditions

Due to the fact that most woodworking plants had considerable quantities of logs held over from 1920, there was very little activity in woods work during the early part of the winter and at no time were the operations near normal. The Lumbering Department shipped into the sawmill all the logs that were decked at various railroad spurs and we rafted logs from Grand Island and Laughing Fish River. No lumbering was done on Grand Island.

Steam Log Hauler

Not operated during the year. It is under cover on Grand Island.

Market Conditions - Forest Products

Practically no demand for pulpwood or logs until late in the fall of 1922. At the time of general business curtailment in 1920, all producers had large stocks on hand and took a year in which to work off the surplus.

There was some spasmodic demand for spruce pulp only in the fall, but it was not active or prices offered sufficient to start operations.

Sales of Forest Products

65,000 feet of hemlock logs ranging from 7" to 12" in diameter was sold to the L. S. & I. Ry. Company, Mr. R. C. Young, Chief Engineer, Marquette, Michigan, at \$14.00 per M, f.o.b. cars, log scale Scribner rule.

A sale was made to Mr. E. T. Stone, Purchasing Agent, D. S. S. & A. Ry. Co., (Minneapolis, Minnesota) of 300 hemlock, tamarack and cedar ties, delivered unpeeled on D. S. S. & A. Ry. at Onota, Michigan, at following prices: 7" ties - 47¢ each, 6" ties - 37¢ each, usable rejects 28¢ each, H & T culls 16¢ each.

From 300 to 400 cords of bark was sold to the Tanners Supply Company, Limited, Grand Rapids, Michigan, at \$7.25 per cord, f.o.b. cars.

550 5" x 5" x 9' tamarack ties was sold to the Mining Department, at 25¢ each, f.o.b. Munising.

A sale of one car woodsrun railroad ties to the Furnace Department was made at the following prices: Hemlock and tamarack 53¢ each, cedar 73¢ each, f.o.b. shipping point.

To the Mac Gillis & Gibbs Company, Escanaba, Michigan, was sold all our No. 1 white cedar posts that had been manufactured and on hand at landings on the M. M. & S. E. Ry., previous to May 1st, 1922. There was estimated to be from 13,000 to 16,000 pieces. Following prices: - 7' posts - 3" - 3¢, 4" - 10¢, 5" - 10¢, 6" - 10¢, 7" and up 7' 10¢, and for 4" and up 7' No. 2, if any, 5¢.

A sale was made to the Hercules Powder Company, Ishpeming, Mich., of 1500 cedar fence posts 7' long, not under 4" top, at 12¢ each.

One car of standard hemlock ties was sold to the Furnace Department at 55¢ each.

A sale was made to The Munising Paper Company of 50 cords spruce pulpwood at \$7.00 per cord, via. M. M. & S. E. Ry.

The Mining Department purchased one car, 2,500 pieces, 7' split cedar lagging at 45¢ per 100 feet, f.o.b. cars, shipping point.

Five cars of 7' split cedar lagging was sold and shipped to the Mining Department, Maas Mine, Negaunee, Michigan, at a price of 50¢ per 100 lineal feet.

A sale was made to the Mining Department of 500 4" to 6" face, 6" thick, 8' long, ties for grading stock pile ground, at a price of 45¢ each, F. O. B. Chatham. These were shipped to the Athens Mine, Negaunee, Mich.

The Furnace Department purchased one carload of standard hemlock and tamarack ties at 60¢ each, f.o.b. cars during the month of June.

A sale was made to the Stephenson Mine, Princeton, Michigan, of one car of 8" to 10" hemlock and hardwood stall timber. Price: 6¢ per foot, f.o.b. cars, shipping point.

The Thilmany Pulp & Paper Company, Kaukauna, Wisconsin, purchased 5 cars of hemlock and balsam pulpwood at \$9.00 per cord for hemlock and \$9.75 for balsam, f.o.b. Kaukauna.

A sale was made to the Hercules Powder Company, Ishpeming, Mich., of 500 standard railway cross ties, mill run load, at following prices:- Useable culls 30¢ each, #1 50¢, #2 55¢, #3 65¢, f.o.b. cars, Vail Spur, Mich.

For any beech logs developing on The Munising Woodenware Company lands, we are to receive \$8.00 stumpage.

Four cars of 12" to 14" top, 16' long hemlock stall timber were sold to the Mining Department, Barnes-Hecker Mine, Ishpeming, at \$18.00 per M-, f.o.b. cars, loading point.

One car of 7' lagging at 55¢ per 100 lineal feet was sold to the Maas Mine, Negaunee, f.o.b. shipping point.

One car of spruce ladder poles at 2 $\frac{1}{2}$ ¢ per lineal foot, f.o.b. cars, main line, M. M. & S. E. Ry., was sold to the Mining Department.

Twenty cars (300 cords) of 5' lagging was sold and shipped to the Holmes Mine, Ishpeming, at \$5.00 per cord, f.o.b. cars, Yalmar.

Two cars of 8" to 14", 16' hardwood or hemlock stall timber was sold and shipped to the Stephenson Mine, prices ranging from 6¢ per foot for 8" and up to 10¢ per foot for the 13".

450 maple or birch logs with a minimum diameter of 9" top, were sold to the M. M. & S. E. Ry. Co., Mr. R. C. Young, Chief Engineer, at these

prices: Maple \$20.00, Birch \$24.00 per M, f.o.b. cars.

40 cars of hemlock logs was sold to the M. M. & S. E. Ry., Co., Mr. R. C. Young, Chief Engineer; logs to have 8" minimum diameter, and sold at \$15.00 per M.

The Mining Department bought 800 pieces hardwood or hemlock stall timber to be shipped to the Barnes-Hecker Mine, Ishpeming, at 10¢ per lineal foot, f.o.b. cars, shipping point.

The Railroad Department purchased 8 to 10 carloads of cedar logs, top 8" or over, at \$22.00 per M f.o.b. cars, M. M. & S. E. Ry.

The Railroad Department bought 23,500 to 29,500 pieces of softwood ties at following prices: Cedar ties -80, 70, 60 and 25¢, other species 75, 65, 55 and 25¢, f.o.b. shipping point.

WORK DONE FOR THE BENEFIT OF OUTSIDE DEPARTMENTS

The following time was used by men employed by the Land Department on Government timber questionnaire matters:-

H. S. Nightingale	-	12 days
R. A. Brotherton	-	44 "
W. H. De Haas	-	35 days
O. M. Coldren	-	67 "
C. A. Johnson	-	76 days
W. L. Stanaway	-	36 "
J. G. Gibson	-	22 days
M. Bath	-	2½ "
J. R. Stark	-	3 days
J. F. Kennedy	-	6 "
R. R. Penhale	-	4½ "

NEGAUNEE CEMETERY

Nothing new to report in this matter this year.

SAWMILL PLANTS

Munising Sawmill

The Sawmill was operated continuously double shift with the exception of period from October 19th to November 27th when it was idle for repairs. The total production for the year was 20,766,000 feet, an average of 78,661 feet for each day the mill was in operation. We shipped 17,050,676 feet as compared with 10,110,025 feet in 1921. We also delivered 4,245,850 pieces of lath, 9,510 cords of slabwood and 474 loads of hog refuse.

Sawmill Engine

The original engine has been operating the sawmill plant satisfactorily in addition to the tremendous additions that have been put on the mill in the way of resaws, conveyors, etc; it is now beginning to show the effects of overloading and continuous running and it will be necessary to replace it.

Lumber Market

The beginning of the year was discouraging from a market standpoint. There was no demand and prices were not firm and it was difficult to move stock even at low figures. In the early summer, there was a sharp and decided change particularly in demand and consumption and this naturally brought on increased prices and as the season progressed, the demand was stronger and as the season closes, the demand has kept up and prices have a tendency to still further increase.

Log Supply

We had a sufficient stock of logs from our previous year's operations to keep the mill well supplied.

Labor Conditions

Labor was abundant till the early summer. As previously mentioned, men suddenly began to get scarce due to the large number of road contracts making places for men. Until this demand came, men were very plentiful and much unemployment. With the picking up of the general business and the demand for men, there was a natural shortage which at one time was quite acute and resulted in several increases in wages, which, however, did not bring in more men but resulted in steadying those that worked and making a better feeling among them.

There was no disorder or depredations among the unemployed.

Manufacturers' Hotel

This place was operated during the year by Joseph E. Michelin under a lease direct from this department. The Manufacturers' Hotel committee, who formerly had control of this hotel turned over whatever interest they owned in this property (building and equipment) to this department, without payment being made therefor, with the understanding that if the operation of the hotel was discontinued and the property disposed of, the proceeds would be pro-rated

among the three mills who conducted the hotel under the so-called Manufacturers' Hotel Committee. The business of the hotel, particularly during the winter months, is hardly large enough to make it worthwhile for the lessee. During the summer, however, all the mills are active and other work is going on, the trade is fairly good. No unusual repairs were made during the year.

Shipments of Products

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

<u>Munising Mill</u>	<u>1922</u>	<u>1921</u>
Bark	3	43
Lumber	764	469
Lath	34	19
Shingles	44	19
Fuel Wood 4'	276	101
Pulpwood	128	76
Ties	1	--

These moved as follows:

All M. M. & S. E.	95	34
M. & L. S.	280	79
Eastern Points	190	284
Via Little Lake	19	43
Lower Michigan Points	659	238
D. S. S. & A.	1	12
Via Soo Line	7	--
	<u>1,250 cars</u>	<u>690 cars</u>

Shingle Mill

The shingle mill was operated from June 1st to October 9th. During this time, we moved all the raw material that we had available. The mill consumed 38,773 pieces of cedar producing 6,907,000 shingles and 2,954 ties. We shipped during the year 9,189,500 pieces of shingles and 2,402 ties.

Planing Mill

The planing mill was operated during the entire year. After the demand for lumber became strong, our planing mill facilities were unable to work the lumber fast enough and we were compelled to have a number of cars worked in transit at other planing mills.

The planing mill is poorly located for economical service and its quarters are cramped. It should be reconstructed at a point where more accessible for the lumber to reach it from the yard. Its machinery and equipment are in good condition.

Rafting

This work was carried on during the summer, operating the mill with logs from Grand Island and from the Laughing Fish River.

Logs in Murray Bay

No logs were stored in Murray Bay this season.

Sawmill Houses

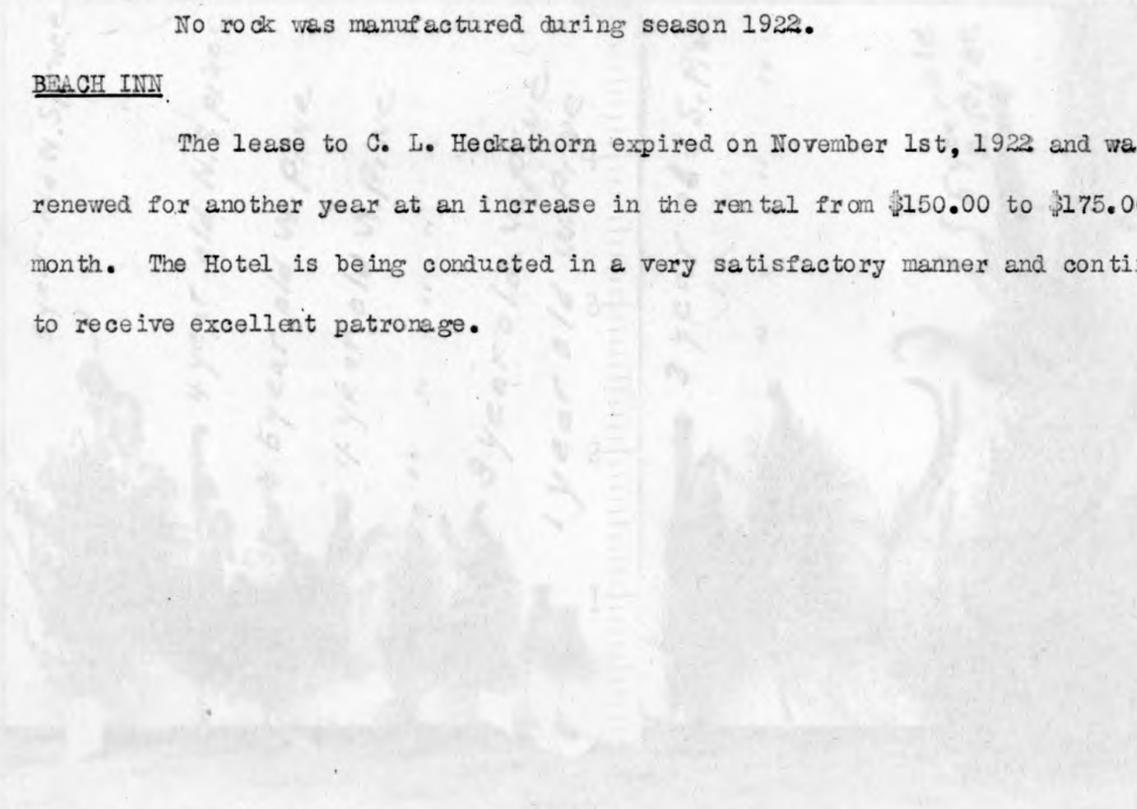
All the houses built for the accommodation of sawmill employees have been occupied continuously during the year.

EBEN QUARRY

No rock was manufactured during season 1922.

BEACH INN

The lease to C. L. Heckathorn expired on November 1st, 1922 and was renewed for another year at an increase in the rental from \$150.00 to \$175.00 per month. The Hotel is being conducted in a very satisfactory manner and continues to receive excellent patronage.



Reforestation - Grand Island

Two acres, the point at village' location, Grand Island, was planted with Scotch pine seedlings. They were planted very thick for the purpose of retaining the soil until the vegetation has taken the place of the bare soil by the time the trees have attained a height of 12 to 14 feet and no danger of the wind blowing away the soil.

Forest Preserve

There were no unusual conditions during the year. No reforestation was undertaken owing to the general business depression. The growth of the early plantings are excellent and a picture is inserted herewith showing the growth of the trees.



Reforestation - Grand Island

Year 1906, the point at Williams' Landing, Grand Island, was planted with Scotch Pine seedlings. They were planted very thick for the purpose of retaining the sand point that protrudes out into the water from being blown away by the wind and to cover up the bareness of this particular point. Today there is a wonderful stand of trees which have attained a height of 12 to 14 feet and no danger of the winds blowing away the sand.

The same year Scotch pines were planted along the West Road at various spots that were devoid of trees as far as the Lodge. These have made very good progress, with the exception of those planted on the right hand side of the road going towards the Lodge. The snow that was blown off the Lake settled very heavily on them and many were broken down from year to year until just a few remain as the Scotch pine is very brittle and does not take much to break them.

No extensive planting was carried on until the year 1917, when the cutting of hemlock was made by Davenport & Underhill at which time 100,000 three year old white Norway Scotch pine were planted on areas where hemlock was removed. Eighty per cent of these are doing very well and have reached a height of 22" for the Scotch Pine, 17" for the Norway and 12" for the white pine.

Year 1918, there was planted 20,000 white pine, of which nearly all died because of drought; about 60% died before they had taken root; the previous year's planting was not affected.

Year 1919, there was planted as follows: - white pine 40,000, norway pine 50,000, norway spruce 5,000 and some Douglas fir. All these plants did very nicely excepting the Douglas fir which nearly all died out.

Year 1920, we had a very hot spell just after planting and about 35% of these died; the previous year's planting, however, was not affected.

Year 1921, 300,000 white pine seedlings were planted. These have prospered and 90% are growing.

There still remains approximately 530 acres of land not reforested where the hemlock has been removed. The cut over land where these seedlings are growing will in a few years be covered with a very nice stand of reforested growth and so covering the scar left after the hemlock had been removed.

Reforestation on Hillside Fish Hatchery

Of the 17,500 Norway Spruce planted on the side hills back of the fish hatchery, approximately 80% are growing and are making a very good growth. They were planted in 1904 and have attained a height of nine feet. These were 15" high when planted and were grown from seed at the Negaunee Nursery.

Deer

Virginia White Tail

The deer are in excellent condition and there seems to have been a satisfactory increase. The demand for live deer is active and we have orders for

more than we are able to supply each year. No difficulty was experienced from wolves or coyotes or other predatory vermin.

Albino

Two albino deer are seen quite often in the vicinity of Stone Quarry Cottage. They are good specimens but have not been able to trap them.

Elk

Twelve elk have been in one band together during the early winter of 1922 and have been on the Hotel lawn. They appear to be in good condition and have increased.

Game Birds

A number of native partridge were seen during the fall. No other game birds were noticed.

Predatory Animals

No difficulty was experienced with wolves or coyotes. Only one track was seen on the Thumb.

Hunting

The only hunting was by several gentlemen from Chicago.

Sales of Deer

At this writing, the deer season of 1922-1923 is not yet closed and a statement of the total number shipped for the entire season will not be possible. Orders have been taken for 27 bucks and 37 does, a total of 64. Of this number, 14 bucks and 10 does have been shipped, a total of 24. 13 bucks and 27 does, total 40, still remain to be shipped, all ordered by or through the Pennsylvania Game Commission.

Sales of Elk

No sales made.

Road Work

With the exception of the necessary upkeep, no road work was done.

Trails

Maintaining the trails already in existence. No further work of this nature was done.

Docks

Only necessary repairs to the docks were made. There was no new con-

struction.

East Road from North Light

The bridge over the first ravine north of the Lodge is in poor condition and will have to be re-timbered and replanked in the spring. The timbers will be taken out this winter and the work done early in the spring. The road is generally in good repair.

East Road

Along this road about one mile north of the Windfall, a sewer pipe draining a large gully clogged up with the result that the water broke through the road and washed out quite a large section. This was not repaired during the year but will be attended to the first thing in the spring of 1923.

The completion of this road should be undertaken without more delay and make the Island more attractive and accessible in being able to make a complete circuit. The road passes through a splendid lot of timber and is also sightly and would prove an attraction to the tourists.

Maple Syrup

The syrup season was quite unfavorable. The warm weather throughout the winter did not thoroughly freeze the trees with the result that as soon as the warmth of spring came, the sap flowed very rapidly, resulting in a short season. The production was $440\frac{1}{2}$ gallons of No. 1 and 183 gallons of No. 2, or a total of $623\frac{1}{2}$ gallons.

Cottage Sites

No applications were received during the year.

Hotel and Cottages

The hotel was opened June 1st. The patronage, particularly in August, taxed its capacity but otherwise there was available room at all times. The automobile travel supplied quite a large percentage but the patronage under ordinary conditions was not enough to keep the hotel filled.

Improvements

None were made.

Summer Tourists

With the exception of the month of August, at which time a large number of hay fever people visited the Island, the patronage was mostly of automobile parties. The people come only for a day or two and only interested in seeing as much as they can in the shortest possible time. This patronage does not keep the Hotel filled or is it particularly remunerative.

Launches

The launch "Grand Island" shows signs of its age and it is not particularly seaworthy.

The launch "Wood Island" which was used principally in towing logs was destroyed by fire while enroute with boom poles to the Whitefish River on September 9, 1922.

It will be necessary to have a new launch to convey the people from and to Munising and with this idea in view, we are endeavoring to get in line for a boat suitable for this purpose.

Telephone

Nothing further to add than reported in 1917.

Tree Planting at N. W. J. L. S. Station - Munising

In the spring of 1922, I planted 100 Scotch Pine trees in front of the depot at Munising, which were taken from the State Nursery. In account of the very dry period that prevailed, only six or seven trees planted during that time survived. I replanted this area and was much more successful than in the previous year as there were 50 trees still living at the time of the last inspection. The dead trees will be dug up and new ones substituted.

Reforestation - Grand Island

By way of this examination has been covered in the general report on Grand Island. Please refer to page 12.

During the months of January, February and March, I was given permission to take up additional college work at Chicago. On my return, the first of April, I went to Grand Island and assisted in the making of maple syrup. After this work had been completed, I was instructed to go to the Skinner Job, No. 1 to ascertain the condition of the timber that still remained on the burned area. An examination showed that the timber had deteriorated to such an extent that it was practically of no value but Mr. Ernest Hickson, of Munising, was given permission by Mr. W. H. Acker to enter upon these lands and cut what few ties he could possibly get that were of a merchantable value.

After the inspection of this job, I was detailed to Grand Island to take the tally scale of the logs that were being scaled jointly by the Munising Paper Company and the Land Department. I kept at this work for about ten days and found that it was unnecessary for me to stay there and tally during the whole of the operation and was instructed to trim and cut out all dead trees and limbs around the Williams' Landing. After completing the trimming around the Landing, I went over the West Road to North Light, the East and West Road and the Trout Bay road and cut and removed all overhanging limbs and dead trees which endangered people riding in automobiles or horse drawn vehicles. I also cut the Canadian thistles which were growing along the various roads on Grand Island.

Trees planted at M. M. & S. E. Ry. station - Munising

In the spring of 1921, I planted 165 Scotch Pine trees in front of the depot at Munising, which were taken from the Coalwood Nursery. On account of the very dry period that prevailed, only six or seven trees planted during that time survived. I replanted this area and was much more successful than in the previous year as there were 68 trees still living at the time of the last inspection. The dead trees will be dug up and new ones substituted.

Reforestation - Grand Island

My work in this connection has been covered in the general report on Grand Island. Please refer to page 12.

Collection of Trespasses

Considerable of my time was utilized towards the end of the year in making collection of trespass moneys. I find that in most cases these trespasses have been committed by people who had little or no means of support and it has been difficult to make collection, if any, from these people. Again, in interviewing some of these people, they profess ignorance that they had trespassed on the Company's property.

Patrolling

The first part of the summer was very dry but through constant patrolling, we came through without any loss by forest fire.

Respectfully submitted,

C. H. Slater

Forester.

District	Budget of Sales	Actual	Total Amt of Sales	Money Taken	Amt. of Sales	Exp. Paid Only
Kenai-Chugach	13	600.31	2,475.00	2,770.00	795.00	12.16
Valdez	1	49.00	259.00	15.00	280.00	8.37
Portage	3	142.56	1,970.00		356.47	4.59
Kenai	1	43.00	2,600.00	32.00	600.00	12.00
Minersville	2	35.64	550.00	45.00	360.00	3.00
Miscellaneous	22	2,125.74	21,000.00	21,120.00	2,010.00	5.17
TOTAL	42	2,096.25	29,645.00	29,220.00	3,096.47	5.17

The Kenai-Chugach-Trenton District was the most active. The sales amounted to 600 acres with an average price of \$11.16 per acre for the land only. Under the heading "Miscellaneous" are included several sales made in the vicinity of Kenai made to the Kenai Lumber Company and in connection with the clearing up of trespasses in the Cooper Lake and Gold Mine Districts; also sales of 1200 acres made in the vicinity of Sea Junction and the sale to the 1200 Independence Lumber Company. In the other districts such as the Portage, Kenai and Minersville, the demand was very limited with the result that only a few sales were made. The prices so far as the land averaged slightly higher than in previous years.

SURRENDERED AND CANCELLED CONTRACTS

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

Only two contracts were cancelled during the year, namely those to Hugo Building.

E. Ullerich covering lands in the Brimley District covering 200 acres, and one was

Dear Sir:-

surrendered by Oral L. Thompson covering a forty in Section 16-41-24. None of these

I beg to submit the following as my annual report for the year 1922:

lands have as yet been resold.

THE CLEVELAND-CLIFFS IRON COMPANY

SALES OF TIMBER

SALES OF LAND & TIMBER

These were as follows:

There was very little activity in the demand for land either for agricultural purposes or for timber. The lack of demand for agricultural lands seemed to be a general one as reports from various colonization companies operating in this Peninsula and also in Minnesota were to this effect. The following statement shows sales by districts during the year:

<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	12	600.31	9,475.00	2,770.50	789.58	11.16
Yalmar	1	40.00	350.00	15.00	350.00	8.37
Fayette	3	162.50	1,070.00		356.67	6.58
Brimley	2	80.00	1,000.00	32.25	500.00	12.09
Minnesota	2	84.64	680.00	95.50	340.00	6.90
Miscellaneous	22	2,123.08	46,085.00	34,195.90	2,094.77	5.57
TOTAL	42	3,090.53	58,660.00	37,109.15	1,396.67	6.97

The Rumely-Chatham-Trenary District was the most active. The sales amounted to 600 acres with an average price of \$11.16 per acre for the land only.

Under the heading "Miscellaneous" are included several sales made in the vicinity of Ishpeming to the Hercules Powder Company and in connection with the cleaning up of trespasses in the Cooper Lake and Gold Mine Districts; also sales of land and timber in the vicinity of Soc Junction and the sale to the Lake Independence Lumber Company. In the other districts such as the Fayette, Brimley and Minnesota, the demand was very limited with the result that only a few sales were made. The prices we secured for the land averaged slightly higher than in previous years.

NEW LEASES

SURRENDERED AND CANCELLED CONTRACTS

Sixty-eight new leases were issued during the year for a total annual rental of \$400.00. Only six new residence leases were issued, one for a summer cottage site, three for pasture and gardening, and the balance were made up of surrendered by Oral L. Thompson covering a forty in Section 16-41-24. None of these lands have as yet been resold.

BELLARUE AND CLIFFS FARMS

SALES OF TIMBER

The same party continued to lease the Bellarue Farm for 1922. A portion of the Cliffs Farm covering the cleared area on the high hill has not been used for the past two years.

NW $\frac{1}{4}$ of NE $\frac{1}{4}$ & N $\frac{1}{2}$ of NW $\frac{1}{4}$ of Section 30-44-21	\$ 723.00
SE $\frac{1}{4}$ of SE $\frac{1}{4}$ of Sec. 1, N $\frac{1}{2}$ of NE $\frac{1}{4}$ & SE $\frac{1}{4}$ of NE $\frac{1}{4}$ of Section 12, 43-11	1,000.00
Munising Woodenware Company	<u>13,048.00</u>

IMPROVEMENTS

No new work was undertaken by this **TOTAL** amount to improve \$14,771.00

LOT SALES

In the City of Munising 15 $\frac{1}{2}$ lots were sold for a total consideration of \$6400.00. In Ishpeming we sold Lot 142 and portions of Lots 140 and 141 of the C. I. M. Co's First Addition to the School District to be used as a site for their gymnasium for a consideration of \$2200.00.

RENTED BUILDINGS

The earnings for rented buildings during the year were about the same as 1921. The maintenance expense represents mainly necessary repair work except in the cases of several houses in the Jackson Addition in which toilets were installed. Owing to slack mining operations a number of the houses were not occupied during the year. This is also true of the houses at New Dalton owing to the suspension of Sawmill operations at that point.

COLLECTIONS

MUNKER HILL MINING COMPANY

The collections of the various sales accounts continued very good during the year with the result that a number of the older contracts were cleaned up. However, the collections of rent accounts, namely for lots and lands, while they were better than 1921, except in the case of lot rents, there was no material reduction in the outstanding accounts as compared with a year ago. However, now that employment conditions are better we expect by the end of 1923 that the condition of these accounts will be materially improved.

The uncollected land rents item represents mainly an item of taxes due

NEW LEASES

Sixty-eight new leases were issued during the year for a total annual rental of \$404.00. Only six new residence leases were issued, one for a summer cottage site, three for pasture and gardening, and the balance were made up of camping and small garden leases at nominal rentals.

BELLEVUE AND CLIFFS FARMS

The same party continued to lease the Bellevue Farm for 1922. A portion of the Cliffs Farm covering the cleared area on the high hill has not been used for the past two years.

IMPROVEMENTS

No new work was undertaken by this Department to improve its various locations. During the year preparations were made to plat and dedicate to the City of Ishpeming the so-called Marquette-Hard Ore and the Barnum Locations. Most of the necessary surveying work has been done and plats will be submitted during the winter to the Council for approval and if accepted by the City the necessary changes in fence lines, etc. will be made during the Summer of 1923.

GARBAGE COLLECTION AND CLEANING

This work was followed up a little more closely than during the previous years with the result that the expenditure on this account amounted to \$503.40 as compared with \$369.19 in 1921. Some little work was also necessary on the Jasper and Davis Street sewers which cost \$37.80 as compared with \$49.66 for the previous year. If the platting of the locations mentioned in the preceding paragraph is carried out, the greater portion of this expense will be assumed by the City.

BUNKER HILL MINING COMPANY

RENTED BUILDINGS

There was a slight increase in the earnings from this source over the previous year due to the fact that the buildings were occupied practically the entire time. The maintenance expense was somewhat higher owing to the installation of toilets in two of the houses. Unless it is decided to repaint these houses the maintenance expense for 1923 should be considerably reduced.

COLLECTIONS

The uncollected land rents item represents mainly an item of taxes due

REPORT FOR THE YEAR 1922

from the G. F. & L. Co. and this will be paid during this month, and the house rent item is made up largely of amount due from one of the occupants who has been out of work for a long time and 1923 we hope will see this account wiped out.

Dear Sir:-

AMERICAN IRON MINING COMPANY

The only items of revenue this company received for the year represents a sale of land amounting to \$40.00 and \$1.00 covering stumpage on four cords of wood.

The accounts receivable item of \$534.94 under Timber Sales Receivable represents taxes for 1922 on the Piqua Handle Company timber permit. These have been taken care of this month. The item under Real Estate and Timber Land Sales Receivable represents payments on land contracts that are not yet due; these contracts are all up to date in their payments.

Respectfully submitted,

A. J. Erickson

AJE:S

GRAND ISLAND

REPORT FOR THE YEAR 1922

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

Dear Sir:-

My report on Grand Island for the year 1922 is as follows:-

BUILDINGS

No new construction or improvements in connection with the Hotel and Cottages were carried out during the year. The usual repairs and renewals included the painting of the Hotel and varnishing the hardwood floors. A new spruce flag pole, 80 feet in height, was set up in place of the old one that was blown down.

The landing dock requires new planking and before it is laid the sewer pipe line should be leveled up and recauled for the gradual settling of the cribs has caused inequalities which trap the flow of sewage.

BOAT HOUSE

A hardwood floor for dancing was laid in the north end of this building, and this constitutes about all in the way of new work.

COTTAGES

Cottages Nos. 2 and 5 were ceiled up inside to cover white-washed logs, and an electric cable laid to furnish lights in all of the company cottages. The electric pole line was also extended from Dr. Menge's house to that of Mr. Austin Farrell's. The Stone Quarry Cottage was also ceiled up inside and a new sewer pipe laid so as to discharge into the lake under the dock.

The roofs of the Trout Bay cottages need re-covering, preferably with fireproof shingles, or other material of like nature.

The old dock on Murray Bay needs stringers and planking, and since the booms and logs have been removed, it should be used again in place of the newer one farther down the bay, so as to do away with the inconvenience of transporting baggage and supplies over the extra distance.

ROADS AND TRAILS

A washout on the hill on West Road, beyond the upper Lookout, called for regrading and ditching at that point.

Some work was also done on the road into Echo Lake, but not sufficient to meet the requirements of the traffic that now goes over it. It is too narrow for safety and should be widened, particularly on that part through the swamp. New planking was laid on the board walk to the boathouse.

Repairs were also made on the hill approaching East Gate, which had become badly scoured by rain water. A certain amount of work was performed on the road leading to Trout Bay cottages, but it requires considerable more, and the entire distance should be covered with clay which is to be found close by. The necessary culvert pipe is on hand for the washout on the East Road near Camp No. 1. Should be laid and the bank rebuilt the first thing next Spring, as there is now no way to get around it.

On the West Road, last summer, Mr. Slater cleared the overhanging branches and leaning trees, and he also trimmed the shrubbery about the Lodge and cut out the overgrowth of trees along the bank which were obscuring the view.

The North Light trail was cleared out again, and a number of small bridges that had been washed out were replaced.

The pathway between Williams Cottage and Hotel Williams was also re-graveled and should be further extended down the hill between the pumphouse and hotel.

BRIDGES

It having been found necessary to replace the stringers in the bridge on the West Road, three-quarters of a mile north of the Lodge on account of decay, and also to make secure the foundations of the supporting bents, steps have been taken to get out new stringers and to have them at the site in order to get them in place before traffic is resumed next spring. This bridge was erected in 1903 and has stood without repairs during its life of nearly 20 years. This was due to careful selection of seasoned material consisting of pine, spruce and cedar. With new stringers, and possibly a new cedar floor, the life of this bridge should extend for several years more, as the cedar supports are still sound.

During the summer, the iron work of the Gull Point bridge was care-

fully inspected for rust, and then given a coat of protective paint. The bridge on the East and West Road, near East Gate, having been condemned, should be replaced by a metal culvert and then filled in to form the embankment. The material required for the grading is in a knoll close at hand, and with the necessary teams should be done quickly and at small cost, with either wheel or drag scrapers.

SUGAR CAMPS

A cement floor has been laid in Sugar Camp No. 2, and ample woodsheds for both buildings built and filled with a good supply of dry firewood.

POWELL'S POINT ROAD

A new landing for rowboats, with hand rails, has been added at the dock, and additional cinders hauled on the road, and protective rail built at hill near County road.

The foundation of the garage has been undermined somewhat by wash from the lake, and should be supported by crib work and backfilled.

DUCK FOOD

At Duck Lake this spring, we found the most promising growth of wild rice since we began our efforts to establish it in the waters of Grand Island. The stand of rice appeared mostly at the inlet and outlet of this lake, showing that a slight movement of water favors its growth. Although the principal enemy of wild rice culture - the muskrat - was not in evidence, having apparently entirely disappeared from our waters for this season at least, we were much concerned by the ravages of a flock of wild black ducks which were nesting there. They attacked the ears of rice while still green, and it is a question of how much of the seed escaped and was allowed to mature and fall in the water to re-seed the beds. The 100 pounds of fresh rice and which was ordered from Clyde B. Terrell, Oshkosh, was received in good condition, and all but a small portion of it planted in the places where the best growth appeared. The five pounds of American Lotus seed, received at the same time, was also sown as directed. About 25 pounds of the rice and some of the lotus seed were taken to Echo Lake and planted at the north end of the lake, in the two bayous on the west side, the only places where we had any results from former seedings. More than the usual number of wild ducks were seen in these waters, probably due to the mild and extended fall season. Blue-bills and mallards were most common.

GAME

There seems to be still a good supply of native deer on the Island, in spite of the numbers captured and shipped during the Winter and those shot during the hunting season. Conditions are improving in the matter of food, and the undergrowth is recovering from former ravages of too many game animals. There was an unusual crop of beech nuts this year on which the deer fattened; signs of their pawing for them were to be seen throughout the hardwood forest, even after the snow had fallen to a considerable depth.

As to the elk, I must say that I am encouraged and feel that at least they are holding their own, if not better. Evenson, the North Light keeper, tells me he counted a herd of fourteen elk on the trail at North end of Echo Lake last summer. If it is decided to ship away any of these elk, the old ones should go, for the young ones are our only hope. Personally, I am of the opinion that none should be shipped.

We are fortunate in the fact that no wolves or cayotes were reported as seen on the Island this year.

As to the fish in Echo Lake, it developed during the season that it now has a good supply of bass, for according to Mr. Tisdale, the parties he took up there in the season got about 35 bass, some weighing in the neighborhood of five pounds. Some 300 pounds of pickrel were also landed, which I consider a good riddance.

GOLF COURSE

Mr. William B. Langford, of the firm of Langford & Moreau, Golf Architects, Marquette Building, Chicago, visited Marquette last summer in the interests of certain members of our old Golf Club, who proposed to lay out a new course for Marquette. Mr. Langford told me he had heard of Grand Island and was anxious to see it, so I invited him to visit it, and Mr. Fred Maynard offering his car, we went down together and spent the day there. We showed him as much of the Island as was possible from a car, and also examined the conditions about the Hotel, and walked over the ground on the hill back of the hotel as far as the farm clearing. A copy of his letter to me as to results of his hasty visit, with his opinions and suggestions for a golf course on the Island, is herewith submitted and will close this report.

Yours truly,

A. O. JOPLING

Engineer in Charge.

C O P Y

Langford & Moreau
Marquette Bldg.,
Chicago.

November 6, 1922.

Mr. Jopling,
Marquette, Michigan.

Dear Sir:-

Having inspected the Grand Island property of The Cleveland-Cliffs Iron Company, with the object of determining the possibility and advisability of constructing a golf course thereon, I have the following report to make.

My inspection of the Island did not show any clearings of sufficient size to make it more advisable to locate the golf course in one spot more than another. Therefore, as a golf course built on any part of the Island would have to be cleared out of thick second growth timber, the location of the course should be governed by its accessibility and topographic conditions, and consequently the area in the immediate vicinity of the hotel and cottages should be the site for the country club.

The ground lying above the low rock bluffs, back of the hotel, now covered by second growth timber is entirely suitable for the construction of a golf course. It is sufficiently rolling to insure interesting golf and the necessary clearings for the holes will add immensely to the beauty of this district, opening up the woods with grassy glades which will enable visitors to the Island to get into them without inconvenience and make them much more attractive.

It has been demonstrated in almost all parts of the country that a summer or winter resort cannot be operated at a profit unless it provides first class golf for its patrons.

Golf today is really the great American game and recreation. While there are a few people in the country who are shooting and fishing enthusiasts, a great many more are not in physical condition to stand the arduous demands these pursuits make of them. Lots of people like to get out in the woods and to get into wild country, but do not take pleasure in the hardships attendant upon a real expedition into the wilds.

People will go on a week's shooting or fishing trip but they will spend months at a resort which affords their favorite sport, golf, as well as fishing, shooting, bathing and boating.

The most successful resorts in operation today are those offering the best golfing facilities; examples are Pinehurst, N. C., Bellaire, Fla., Palm Beach, Fla., Miami, Fla. which will have seven golf courses this winter, Manchester, Vermont and French Lick, Indiana. Palm Beach has wonderful winter climate, splendid bathing, sea fishing, shooting and the best facilities for social diversion, but it has been found necessary to construct four golf courses.

Pinehurst, with a much more inclement climate than Palm Beach and without the Ocean, is probably the most successful resort in the United States. It has five first class golf courses. Bellaire with two splendid eighteen hole courses surrounding the hotel, turns away over five thousand guests each winter.

In developing the Island as a summer resort, in addition to the construction of the golf course, it would be advisable to open up a good many miles of bridle paths through the woods, and to provide sites where it would be safe for visitors to make fires, have clam bakes and barbecues in the woods without taxing their powers of physical endurance and without danger to the timber from fire. This work could be done in connection with the development of the golf course.

I would advise that you have designed at the outset an eighteen hole course of which nine holes should be immediately constructed. This nine holes will build up the attendance at the resort until it will be necessary to construct the second nine.

If I am wrong and golf will not build up the resort, you will have only incurred half the expense in constructing a nine hole course you would have in constructing an eighteen hole course.

Our organization is prepared to make all plans for the complete development of your property as a summer resort, to design the golf course the recreation areas, bridle paths, etc, to prepare complete golf, engineering and landscaping plans and to manage the execution of the plans. We will do this either on a ten percent basis or prepare the plans for a fixed fee and quote fees for management after the acceptance of the plans, when we know just what work is to be carried out.

We will be glad to consult you or with your directors of The Cleveland-Cliffs Iron Company, either at Marquette or at our office and explain in detail our methods of planning and carrying out the execution of the plans.

Yours very truly,

(Signed) W. B. Langford

C O P Y

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT OF FOREST FIRES OCCURRING DURING THE YEAR 1922 AS REPORTED BY THE VARIOUS DEPARTMENTS OF THE CLEVELAND-CLIFFS IRON CO.

REPORT NO.	DATE 1922	LOCATION	CO.	OWNER OF LAND		SPARKS FROM ENGINE	CAUSE			PREVENTABLE OR NOT	ATTRIBUTABLE		QUANTITIES & KINDS	LOSS VALUE			COST TO PUT OUT FIRE	LOSS VALUE TO OUTSIDE PARTIES
				CO. LAND SOLD	OTHER PARTIES		FARMERS BURNING BRUSH	MISCL.	TO PRACTICES OF COMPANY		TO PRACTICES OF OUTSIDE PARTIES	TO LAND DEPT.		LBR. DEPT.	TO HY. DEPT.			
1	January 19th	500' East of Y switch On Bridge 77-37	1			1				Yes		1	12 Bridge Ties and end of 1 Stringer			1	No cost	
2	April 28th	400' West of Pearl Siding	1						1	Yes		1	None destroyed					
3	October 5th	About 2½ mi. from Eagle Mills west on north side of old main line to about ½ mi. east of Queen Mine Siding	1			1				Yes	1		" "					
4	October 6th	N½ of NE¼ Sec. 4-47-26	1			1				Yes	1		" "					

LAND DEPARTMENT

COMPARATIVE STATEMENT OF RECEIPTS FOR YEARS 1921 and 1922

R E C E I P T S	1922	1921
Deliveries of Forest Products	308,516.89	554,938.58
Sawmill Deliveries - Munising	447,345.34	316,309.86
Do. - New Dalton	1,084.29	3,835.64
Retail Yard Deliveries	49,510.75	58,470.78
Shingle & Tie Mill Deliveries	29,883.17	10,943.02
Cliffland Farm Products Sales	2,932.99	2,721.97
Williams Hotel & Cottages	11,967.83	11,642.50
Grand Island Products Sales	9,267.71	8,724.15
Earnings from Rented Buildings	10,729.86	10,726.67
Lot Rents - Pendill Location	183.00	183.00
C. I. M. Co.'s First Addition	1,861.02	1,901.02
Do. Second "	579.00	561.00
" Third "	2,946.00	2,946.00
" Fourth "	106.00	101.00
" Fifth "	1,111.00	1,111.00
Bancroft Location	222.00	222.00
Nebraska "	135.00	135.00
Hard Ore "	762.50	750.00
Marquette "	1,101.00	1,101.00
Hematite "	28.00	28.00
Excelsior Iron Co.'s First Addition	12.00	12.00
Junction Location	360.00	360.00
Salisbury "	108.00	99.00
Winthrop "	127.00	135.00
Barnum "	528.00	528.00
Jackson "	1,205.00	1,210.67
Munising	83.83	82.00
Pioneer Iron Co.'s Second Addition	96.00	96.00
Land Rents	8,844.01	9,236.08
Sundry Rentals	133.16	172.00
Real Estate Sales	55,937.25	46,267.97
Farm Land Sales	1,130.00	17,030.11
Town Lot Sales	8,600.00	5,050.00
Cordwood Sales - Other Operations	14,546.23	22,255.60
Forest Products Sales - Outside Parties	283.95	315.39
" " " - Other Operations	26,476.74	67,147.72
Trespass Cases	1,076.17	4,476.01
Bark Sales - Other Operations	705.96	3,835.43
Timber Sales	14,771.00	1,000.00
Land Products Sales	485.98	341.82
Royalties Received	2,580.40	1,923.42
Miscellaneous Sales of Machinery & Equipment	335.00	279.17
Collection Fees	1.60	.50
Miscellaneous Earnings	6,684.37	5,562.92
Interest Received		12,074.15
Cash Discount on Purchases		348.05
Selling Commissions Received		1,225.00
T o t a l	1,025,385.00	1,188,416.20

CAH:P-3
2-15-23

THE CLEVELAND - CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT SHOWING NUMBER OF GUESTS REGISTERED AT HOTEL WILLIAMS-
BY STATES AND CITIES DURING THE SEASON OF 1922

<u>ILLINOIS</u>				<u>NEBRASKA</u>			
Chicago	107			York	1		
Evanston	5			Lincoln	3		
Glencoe	1			Grand Island	<u>1</u>	5	
Hubbard Woods	3						
Oak Park	3			<u>OKLAHOMA</u>			
Riverside	2			Oklahoma City	<u>1</u>	1	
Rockford	8						
Wilmette	3			<u>OHIO</u>			
Peoria	23			Cincinnati	8		
Kankakee	2			Boston	1		
Danville	1			Toledo	4		
Joliet	1			Cleveland	3		
Benson	1			Dayton	<u>3</u>	19	
Watsoka	1						
Sterling	1			<u>INDIANA</u>			
Springfield	6			Fort Wayne	4		
Flossmore	2			Brazil	1		
Lake Forest	<u>5</u>	175		Muncie	1		
				Indianapolis	2		
				Dana	1		
				South Bend	<u>1</u>	10	
<u>MICHIGAN</u>				<u>WISCONSIN</u>			
Munising	45			Oshkosh	10		
Marquette	75			Neenah	14		
Negaunee	32			Marinette	19		
Houghton	20			Oconto	2		
Ishpeming	11			Appleton	13		
Detroit	19			Milwaukee	11		
Grand Rapids	17			Green Bay	13		
Wells	2			Wisconsin Rapids	1		
Newberry	3			Racine	<u>2</u>	85	
Petoskey	1						
Calumet	4			<u>IOWA</u>			
L'Anse	1			Burlington	4		
Au Train	3			Cedar Rapids	5		
Adrian	1			Cedar Falls	1		
Escanaba	39			Davenport	2		
Bad Axe	2			Fort Dodge	1		
Trout Creek	3			Council Bluffs	2		
Manistique	6			Webster City	2		
Battle Creek	2			Anamosa	1		
Ypsilanti	1			Mason City	<u>1</u>	19	
Flint	2						
Wayne	2			<u>KANSAS</u>			
Saginaw	1			Topeka	9		
Holland	3			Ottawa	1		
Lake Linden	2			Pittsburgh	<u>1</u>	11	
Oswego	2						
Lansing	2			<u>PENNSYLVANIA</u>			
Crystal Falls	16			Pittsburgh	<u>1</u>	1	
Gladstone	20						
Hancock	11						
Menominee	20						
Ironwood	4						
Iron Mountain	<u>4</u>	376					

THE CLEVELAND - CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT SHOWING NUMBER OF GUESTS REGISTERED AT HOTEL WILLIAMS
BY STATES AND CITIES DURING THE SEASON OF 1922
(CONTINUED)

<u>TENNESSEE</u>		
Memphis	<u> 3</u>	3
<u>OREGON</u>		
Portland	<u> 1</u>	1
<u>MASSACHUSETTS</u>		
Springfield	<u> 1</u>	1
<u>WASHINGTON</u>		
Seattle	<u> 1</u>	1
<u>DISTRICT OF COLUMBIA</u>		
Washington	<u> 3</u>	3
<u>NEW YORK</u>		
New York City	<u> 2</u>	2
TOTAL		713

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT OF LAND & TIMBER SALES FOR YEAR 1922

DESCRIPTION		AMOUNT OF SALE				REMARKS
		ACREAGE SOLD	LAND	TIMBER	TOTAL	
NW $\frac{1}{4}$ of SW $\frac{1}{4}$	Sec. 36-46-22	40.00	323.75	116.25	440.00	
NE $\frac{1}{4}$ of SW $\frac{1}{4}$	33-46-21	40.00	477.50	722.50	1,200.00	
NE $\frac{1}{4}$ of SE $\frac{1}{4}$	18-46-21	40.00	547.50	12.50	560.00	
NW $\frac{1}{4}$ of SE $\frac{1}{4}$	33-47-27	40.00	443.75	56.25	500.00	
NW $\frac{1}{4}$ of SW $\frac{1}{4}$	15-44-7	40.00	2,000.00		2,000.00	
SE $\frac{1}{4}$ of NE $\frac{1}{4}$	18-46-21	40.00	502.50	37.50	540.00	
Certain lands in	12-46-18			6,506.50	6,506.50	Munising Woodenware Co. Conv. 3028 on acct.
SW $\frac{1}{4}$ of NW $\frac{1}{4}$	31-44-21	39.47	382.50	97.50	480.00	
NE $\frac{1}{4}$ of SW $\frac{1}{4}$	18-46-21	40.00	481.25	18.75	500.00	
SE $\frac{1}{4}$ of SW $\frac{1}{4}$	17-38-19	40.00	300.00		300.00	
Road right-of-way - Superior Township			1.00		1.00	Conv. 3898
" " Chippewa County			1.00		1.00	" 3902
" " Alger County			100.00		100.00	" 3903
" " Negaumee Township			.50		.50	" 3904
SW $\frac{1}{4}$ of NE $\frac{1}{4}$	20-46-2 W	40.00	607.75	32.25	640.00	
W $\frac{1}{2}$ of NW $\frac{1}{4}$	22-46-22	80.00	610.00	10.00	620.00	
NW $\frac{1}{4}$ of SE $\frac{1}{4}$	11-46-2	40.00	360.00		360.00	
NE $\frac{1}{4}$ of SW $\frac{1}{4}$	17-38-19	40.00	220.00		220.00	
NE $\frac{1}{4}$ of SE $\frac{1}{4}$	33-47-27	40.00	443.75	56.25	500.00	
SW $\frac{1}{4}$ of NE $\frac{1}{4}$	18-46-21	40.00	487.50	12.50	500.00	
N $\frac{1}{2}$ of SE $\frac{1}{4}$	30-48-25	80.00	603.75	56.25	660.00	
NW $\frac{1}{4}$ of SE $\frac{1}{4}$	7-44-21	40.00	409.00	51.00	460.00	
Lot 3	30-50-22 Minn	44.64	339.00	21.00	360.00	
NE $\frac{1}{4}$ of SW $\frac{1}{4}$	27-44-21	40.00	375.00		375.00	
Logging Railroad Easement			1.00		1.00	Conv. 3936
E $\frac{1}{2}$ of W $\frac{1}{2}$	30-46-22	160.00	1,908.00	1,692.00	3,600.00	
Lot 4	23-43-16	45.50	159.50	90.50	250.00	
W $\frac{1}{2}$ of NW $\frac{1}{4}$	33-47-27	80.00	900.00	100.00	1,000.00	
N $\frac{1}{2}$ of NE $\frac{1}{4}$	30-38-19	82.50	550.00		550.00	
Road right-of-way - Schoolcraft County			1.00		1.00	Conv. 3887
SE $\frac{1}{4}$ of SE $\frac{1}{4}$	25-47-24	40.00	335.00	15.00	350.00	
SE $\frac{1}{4}$ of SW $\frac{1}{4}$, S $\frac{1}{2}$ of SE $\frac{1}{4}$ Sec. 25, NE $\frac{1}{4}$ of NE $\frac{1}{4}$	36-46-13	160.00	174.50	1,825.50	2,000.00	
Telephone Line Easement			1.00		1.00	Conv. 3950
Part of SW $\frac{1}{4}$ of SW $\frac{1}{4}$	26-46-22	.84	200.00		200.00	
Certain lands in Secs. 20, 29 & 31	46-7	320.00	1,629.75	10,370.25	12,000.00	
NW $\frac{1}{4}$ of NE $\frac{1}{4}$ & N $\frac{1}{2}$ of NW $\frac{1}{4}$	30-44-21			723.00	723.00	Timber Only
S $\frac{1}{2}$ of SE $\frac{1}{4}$	33-44-33	80.00	363.00	187.00	550.00	
NE $\frac{1}{4}$ of SE $\frac{1}{4}$	3-47-26	40.00	330.00	20.00	350.00	
SW $\frac{1}{4}$ of SW $\frac{1}{4}$	29-47-19	40.00	285.00	15.00	300.00	
NW $\frac{1}{4}$ of NW $\frac{1}{4}$	29-48-27	40.00	237.50	62.50	300.00	
Part of NE $\frac{1}{4}$ of SW $\frac{1}{4}$	32-48-27	33.98)	530.00	110.00	300.00	
SW $\frac{1}{4}$ of SE $\frac{1}{4}$	32-48-27	40.00)			340.00	
SW $\frac{1}{4}$ of NE $\frac{1}{4}$ & S. 325 ft. of NE $\frac{1}{4}$ of NE $\frac{1}{4}$	30-48-27	50.00	370.00	50.00	420.00	
NW $\frac{1}{4}$ of SW $\frac{1}{4}$ & W. 200 ft. of NE $\frac{1}{4}$ of SW $\frac{1}{4}$	32-48-27	46.02	295.00	55.00	350.00	
Lot 1	25-45-19	24.06	230.00	45.00	275.00	
SE $\frac{1}{4}$ of SE $\frac{1}{4}$ of Sec. 1, N $\frac{1}{2}$ of NE $\frac{1}{4}$ & SE $\frac{1}{4}$ of NE $\frac{1}{4}$	12-43-11			1,000.00	1,000.00	Timber Only
SW $\frac{1}{4}$ of SE $\frac{1}{4}$	19-50-22 Minn.	40.00	245.50	74.50	320.00	
Munising Woodenware Co. Secs. 1 & 12	46-18			5,983.75	5,983.75	Timber Only - Conv. 3028
" " " SW $\frac{1}{4}$ of SE $\frac{1}{4}$	1-46-18			557.75	557.75	" " "
Road right-of-way - Negaumee Township			1.00		1.00	Conv. 3982
Certain lands in Secs. 31 & 32	51-27	320.00	698.10	17,301.90	18,000.00	
SE $\frac{1}{4}$ of NE $\frac{1}{4}$ & N $\frac{1}{2}$ of SE $\frac{1}{4}$	16-48-27	120.00	677.50	187.50	865.00	
E $\frac{1}{2}$ of SE $\frac{1}{4}$ of Sec. 6, NW $\frac{1}{4}$ of NW $\frac{1}{4}$ of Sec. 8	48-27	120.00	881.50	868.50	1,750.00	
Part of NW $\frac{1}{4}$ of SW $\frac{1}{4}$	27-48-25	3.52	125.00		125.00	
Certain lands in	46-6 & 46-7	360.00	511.50	2,738.50	3,250.00	
TOTAL		3,090.53	21,657.35	51,880.15	73,537.50	

LAND DEPARTMENT

STATEMENT OF LAND & TIMBER SALES FOR YEAR 1922

SHEET #2

	UNPLATTED LANDS							PLATTED LANDS				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
Total Acreage as per Acreage Statement December 31, 1921	587995.59	74770.06	2090.10	2656.99	53696.96	31766.57	326.60	226.29	230.73	77.28	283.49	754120.66	97142.22
Purchased in 1922 (1)	560.00	111.91				120.00		6562.85		.29		7355.05	
Cancelled Contracts (2)	240.00											240.00	240.00
TOTAL	588795.59	74881.97	2090.10	2656.99	53696.96	31886.57	326.60	6789.14	230.73	77.57	283.49	761715.71	96902.22
Sold in 1922 (3)	2956.92	160.00	160.00						1.86	.35	.23	2958.90	2730.53
Surrendered (4)						1480.00						1480.00	
TOTAL	2956.92	160.00	160.00			1480.00			1.86	.35	.23	4438.90	2730.53
Total Acreage as per Acreage Statement December 31, 1922	585838.67	74721.97	2250.10	2656.99	53696.96	30406.57	326.60	6789.14	228.87	77.22	283.72	757276.81	99632.75

(1) Purchase Nos. 1936, 2057, 2062, 2065, 2069, 2129, 2130, 2132, 2133, 2136

(2) Conveyance Nos. 3191, 3268 and 3377

(3) Sales as above and Conveyance Nos. 3878, 3913, 3914, 3920, 3922, 3927, 3928, 3930, 3931, 3934, 3939, 3940, 3952, 3953, 3964, 3984, 3992, 3993

(4) Conveyance Nos. 3899, 3900, 3916 and 480 acres released to Charcoal Iron Company - Purchase No. 1784

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

STATEMENT OF LANDS PURCHASED AND EXPENSES INCURRED ON ACCOUNT OF LAND TRACTS FOR THE YEAR 1922

PURCHASE	GRANTOR	PURCHASE No.	ACREAGE	PURCHASE PRICE	ABSTRACTS & RECORDING	MISCELLANEOUS CHARGES	TOTAL
Babcock	Auditor General	442			4.00		4.00
Dalton	John W. Dalton and wife #	1974		120.00			120.00
Powell	A. A. Powell, et al	2049			21.00		21.00
Chatham-Trenary Land Co.	Chatham-Trenary Land Company	2129	<u>200.00</u>	<u>2000.00</u>	<u>1.00</u>		<u>2001.00</u>
	TOTAL		200.00	2120.00	26.00		2146.00

- Extension of timber rights

OMC:P-3
2-16-23

CC

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

LAND ACREAGE - DECEMBER 31, 1922.

TOWN	RANGE	UNPLATTED LANDS							PLATTED LANDS				MINERALS RESERVED IN FARM LAND SALES	
		FEE	SURFACE	MINERALS	LEASED MINERALS	MINING OPTION	TIMBER ONLY	LEASED SURFACE	WATER RIGHTS	FEE	SURFACE	MINERALS		TOTAL
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	2813.61											2813.61	3119.00
47	2	41.18											41.18	250.35
45	3	166.56											166.56	
46	3	1381.84											1381.84	1821.47
47	3	600.00											600.00	560.00
46	4													120.00
47	4													222.50
45	5	280.00											280.00	120.00
45	5	120.00											120.00	680.00
46	5	40.00											40.00	842.71
47	5	40.00											40.00	120.00
44	6	417.60											417.60	410.75
45	6	800.00											800.00	1309.99
46	6													280.00
44	7	120.00											120.00	4153.59
45	7	280.00											280.00	391.27
46	7	451.26											451.26	400.00
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	3922.04											3922.04	
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	840.00											840.00	600.00
46	10	254.54											254.54	46.18
47	10	14579.08											14579.08	40.00
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	13772.29											13772.29	
48	11	19592.71											19592.71	
49	11	745.17											745.17	
46	12	15514.00											15514.00	
47	12	16666.38	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	1153.25											1153.25	160.00
47	13	5174.53											5174.53	
48	13	19469.63	114.51										19584.14	
49	13	16400.85											16,400.85	
50	13	164.35											164.35	.35
42	14													
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	553.68										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	333.59										5244.50	
41	16													903.65
42	16													14.20
43	16	80.00											80.00	485.59
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													238.69
45	17	912.37											912.37	240.00
46	17	3298.81											3298.81	282.00
47	17	8083.30	200.00										8283.30	200.00
48	17	4276.15	201.00										4477.15	
49	18	2.51											2.51	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	1288.10
47	18	11211.40	120.00										11331.40	1065.32
48	18	520.00											520.00	
37	19	22.45											22.45	714.15
38	19	1971.89											1971.89	4187.00
39	19	592.79											592.79	2022.96
41	19													360.00
42	19													550.00
43	19													520.00

LAND DEPARTMENT
LAND ACRES - DECEMBER 31, 1922.
SHEET #2

TOWN	RANGE	UNPLATTED LANDS								PLATTED LANDS				MINERALS RESERVED IN FARM LAND SALES
		FEE	SURFACE	MINERALS	LEASED MINERALS	MINING OPTION	TIMBER ONLY	LEASED SURFACE	WATER RIGHTS	FEE	SURFACE	MINERALS	TOTAL	
44	19	7067.17	1080.97				5872.55						14020.69	
45	19	594.22	80.66				7215.01						7889.89	1964.81
46	19	10515.18	176.85							46.95	14.33		10754.61	8919.50
47	19	9438.98	108.18							8.06			9555.22	321.78
48	19	6365.06	638.35										7003.41	
38	20													358.00
44	20	6991.28	40.00										7031.28	
45	20	6305.36	1566.61				380.29						8252.26	.58
46	20	15321.74	80.00				80.00						15481.74	80.00
47	20	4844.73											4844.73	560.00
48	20	113.96											113.96	
43	21	682.00	40.00										722.00	4382.71
44	21	3519.34	912.78										4432.12	2958.80
45	21	4545.17					840.00						5385.17	2185.65
46	21	8609.56	80.00				320.00			1.36			9010.92	3772.09
47	21	4274.57											4274.57	861.16
48	21	953.48											953.48	
40	22	87.30								1.88			89.18	
41	22													219.00
42	22													876.09
43	22													80.00
44	22	6553.63	920.00				240.00						7713.63	
45	22	5590.42	1906.06				2360.00						9856.48	268.19
46	22	4673.96	354.32										5028.28	11115.05
47	22	6566.14	1786.61										8352.75	760.00
48	22	2140.09	279.70										2419.79	
39	23	240.00											240.00	
40	23													160.00
42	23	200.00											200.00	3189.01
43	23	680.00											680.00	1120.00
44	23	287.31	4595.25										4882.56	39.22
45	23	1379.49	5255.17										6634.66	40.00
46	23	1589.75	10504.74				320.00						12414.49	636.57
47	23	2560.00	5689.40				80.00						8329.40	
39	24	40.00											40.00	200.00
41	24	240.00											240.00	160.00
44	24	1880.32	7926.64										9806.96	
45	24	1042.00	4802.00										5844.00	
46	24	1986.37	240.00										2226.37	
47	24	240.00											240.00	40.00
44	25	614.35			43.23								657.58	
45	25	1562.57	659.49		896.23								3175.52	1.65
47	25	6201.57	1082.53								58.23		7284.10	
48	25	3125.83	280.00										4240.94	1390.65
49	25	40.14							830.84	4.27			40.14	831.90
44	26	162.91											162.91	
45	26	927.49											927.49	
46	26	60.00											60.00	
47	26	8363.99	221.06	267.28									8776.86	1996.70
48	26	4207.46	1387.07	26.64	157.50					1533.29	41.71	2.05	7314.96	813.63
49	26	680.00	4294.40										4974.40	73.04
50	26													240.00
51	26	89.65	570.01										659.66	160.00
46	27	121.68											121.68	
47	27	13294.62	199.98	604.99	160.00				5.25				14585.66	1438.82
48	27	4725.91	3665.93	160.00						549.78	122.64	.33	9101.62	526.20
49	27	919.28							1951.95				2871.23	
50	27													180.00
51	27	1449.17	79.03										1528.20	520.00
52	27	40.00											40.00	
47	28	1314.79	73.60	75.00	727.94								2191.33	5.00
48	28	954.69											954.69	4.00
50	28	1921.62	789.33										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	60.00										1687.44	
51	29	4511.88											4511.88	531.40
52	29	3808.37											3808.37	704.25
45	30	46.20	160.00										206.20	
46	30	666.80	320.00										986.80	265.70
47	30	407.30	1475.36										1882.26	
49	30	640.00											640.00	
50	30	5400.98	1204.26										6605.24	
51	30	5795.77	641.95				6730.26						6437.72	
52	30	1960.00					3092.21						1960.00	
48	31	50.00	120.00										180.00	
49	28												1923.28	
49	31	40.00							1923.28				180.00	
50	31	5530.28	160.00										40.00	
51	31	218.80	240.00										5690.28	
52	31												458.80	
49	32	160.00	1120.00										1280.00	40.00
50	32	1395.37											1395.37	
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	1462.17		40.00			3092.21						4595.38	
43	34												160.00	
47	34				160.00								160.00	
49	34	788.24		982.34									982.34	
50	34	2495.92					1036.25						1824.49	
43	35		80.00				1840.00						4335.92	
48	39												628.60	
49	39													711.57
45	29	42.32	43.17										85.49	480.00
46	29	1385.11											1385.11	126.17
47	29	40.00											40.00	182.35
48	30													80.00
43	31	115.22											115.22	56.00
42	33				120.00								120.00	
44	33													
50	22	485.88											485.88	80.00
49	23			2.50									485.88	888.68
50	23	768.09		54.80									2.50	189.96
46	25												822.89	279.89
														280.05

THE CLEVELAND-CLIFFS IRON COMPANY

LAND DEPARTMENT

LAND ACREAGE - DECEMBER 31, 1922.

SHEET #3

TOWN	RANGE	UNPLATTED LANDS							PLATTED LANDS				MINERALS RESERVED IN FARM LAND SALES.	
		FEE	SURFACE	MINERALS	LEASED MINERALS	MINING OPTION	TIMBER ONLY	LEASED SURFACE	WATER RIGHTS	FEE	SURFACE	MINERALS		TOTAL
47	25													
46	26													
57	22		119.88		80.00			319.60						39.75
57	23		40.00								.51		519.99	440.00
56	15				152.09								40.00	
59	15							1.75					152.09	
57	20		4.50								1.08		2.83	
45	1E Wis.	133.33									.69		5.19	
41	31 Mich.					42.38							133.33	
42	31					929.79							42.38	
43	31					456.85							929.79	
44	31					835.45							456.85	
45	31					4239.77							835.45	
46	31					990.00							4239.77	
41	32					1493.40							990.00	
42	32					1360.00							1493.40	
43	32					400.05							1360.00	
44	32					2281.50							400.05	
45	32					5709.45							2281.50	
46	32					4974.49							5709.45	
42	33					1331.00							4974.49	
43	33					519.59							1331.00	
44	33					2075.18							519.59	
45	33					3878.99							2075.18	
46	33					3227.69							3878.99	
44	34					1452.85							3227.69	
45	34					2815.50							1452.85	
46	34					3182.49							2815.50	
43	35					1066.37							3182.49	
44	35					2978.74							1066.37	
45	35					2000.00							2978.74	
43	36					561.40							2000.00	
44	36					1597.92							561.40	
47	32					160.00							1597.92	
47	33					1631.69							160.00	
49	33					80.00							1631.69	
47	35					475.82							80.00	
47	36					120.00							475.82	
48	36					440.00							120.00	
													440.00	
TOTALS		585838.67	74721.97	2250.10	2656.99	53696.96	30406.57	326.60	6789.14	228.67	77.22	233.72	757276.81	99632.75

THE CLEVELAND-CLIFFS IRON COMPANY AND SUBSIDIARY COMPANIES
ACREAGE STATEMENT - LANDS OWNED AND CONTROLLED - SHOWING OWNERSHIP BY COMPANIES ONLY
DECEMBER 31, 1922

COMPANIES	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 IN SALES "K"
	FEE "A"	SURFACE ONLY "B"	MINERALS ONLY "C"	LEASED MINERALS "D"	MINING OPTION "E"	TIMBER ONLY "F"	LEASED SURFACE "G"	WATER RIGHTS	FEE	SURFACE ONLY "G"	MINERALS ONLY					
CONSTITUENT COMPANIES (Entire Stock owned by The C.C.I.Co. The Cleveland-Cliffs Iron Co.	685,838.67	74,721.97	2,250.10	2,656.99	53,696.96	30,406.57	326.60	6,789.14	228.87	77.22	283.72	757,276.81	185,516.36	571,760.45	104,896.11	99,632.75
ALLIED COMPANIES (A portion of the stock only owned by The C.C.I.Co.)																
The Negaunee Mine Co.	2.40	3.49		213.36						3.35		222.60	222.60		196.40	
Arctic Iron Company	1083.54		37.98								103.53	1,225.05	1,225.05		288.02	
The Athens Iron Mining Co.	41.76		10.00	22.90						.37		75.03	75.03		74.66	
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	
Michigan Mineral Land Co.	28,175.62	834.43	24,298.31									53,308.36	53,308.36		52,473.93	
TOTAL ALLIED COMPANIES	29,396.16	837.92	24,356.49	236.26						3.72	103.53	54,934.08	54,934.08		53,138.05	
ASSOCIATE COMPANIES (The C.C.I.Co. no ownership but acts as agent)																
American Iron Mining Co.	2,583.48		233.02									2,816.50	2,816.50		2,816.50	
GRAND TOTAL LANDS OWNED AND CONTROLLED - ALL COMPANIES	617,818.31	75,559.89	26,839.61	2,893.25	53,696.96	30,406.57	326.60	6,789.14	228.87	80.94	387.25	815,027.39	243,266.94	571,760.45	160,852.66	99,632.75
<p>"A" - Lands where entire fee is owned. "B" - Lands where surface only is owned. "C" - Lands where minerals only are owned in known mineral district. "D" - Lands where our interest is confined to a mining lease. "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.</p> <p>"H" - Land which have been examined and which reports show do not contain sufficient timber to be classed as timber land. "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 Sales, outside of mineral formation.</p>																
	UNPLATTED LANDS								PLATTED LANDS			TOTAL ACRES	ACRES OF LAND NOT TIMBERED	ACRES OF LAND TIMBERED	LANDS ON MINERAL FORMATION	MIN. 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 Dec. 31, 1921	619,975.23	75,607.98	26,679.61	2,893.25	53,696.96	31,766.57	326.60	226.29	230.73	81.00	387.02	811,871.24	233,096.60	578,774.64	160,492.66	97,142.22
Purchased during 1922	560.00	111.91				120.00		6,562.85		.29		7,355.05	7,235.05	120.00	360.00	
The C. C. I. Co. Cancelled Cont.-C.C.I.Co.	240.00											240.00	240.00			240.00
TOTAL	620,775.23	75,719.89	26,679.61	2,893.25	53,696.96	31,886.57	326.60	6,789.14	230.73	81.29	387.02	819,466.29	240,571.65	578,894.64	160,852.66	96,902.22
Sold during year (C.C.I.Co.) Surrendered (C.C.I.Co.) Classification Changed	2,956.92	160.00	160.00			1,480.00			1.86	.35	.23	2,958.90	1,358.90	1,600.00		2,730.53
												1,480.00	4,054.19	1,480.00	4,054.19	
TOTAL	2,956.92	160.00	160.00			1,480.00			1.86	.35	.23	4,438.90	2,696.29	7,134.19		2,730.53
TOTAL ACREAGE DEC. 31, 1922	617,818.31	75,559.89	26,839.61	2,893.25	53,696.96	30,406.57	326.60	6,789.14	228.87	80.94	387.25	815,027.39	243,266.94	571,760.45	160,852.66	99,632.75

ARCTIC IRON COMPANY

LAND DEPARTMENT

LAND ACREAGE

DECEMBER 31st, 1922

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
T O T A L		1083.54	37.98	103.53	1225.05

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2-16-23

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, 1922

TOWN	RANGE	UNPLATTED LANDS		
		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:P-2
2-16-23

BUNKER HILL MINING COMPANY

LAND DEPARTMENT

LAND ACREAGE

DECEMBER 31, 1922

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

GAJ:P-2
2-16-23

