Reforestry, \$454.39. Cost of reforestring 20 acres in section 14-46-19.

Barnman, \$100.00. This item in 1904 was included in "salaries."

Cherry Orchard Maintenance, \$85.47. The cost of maintaining the Cherry Orchard during the year.

Furniture and Fixtures, \$83.46. Proportion of General Office, and is due to purchase of necessary desks and equipment for increased force.

Audit, \$150.00. Expense of Haskins & Sells' 1904 audit.

Adding Machine, \$75.08. Properly belongs to the item of Furniture and Fixtures and is a proportion of the one machine in the General Office.

Taxes, \$1131.73. There is an actual saving in 1905 taxes as mentioned elsewhere, but in order to get our accounts in good shape and write off an item of delinquent taxes, so called, our accounts for this year have to bear the burden of \$792.09. In addition to this, we have paid during the fiscal year, \$208.17 for 1904 taxes which were carelessly omitted from the payments last year. On one description, Mr. C. R. Brown had a valid tax title and we settled the matter, receiving a Quit Claim Deed, paying therefor, \$47.20. We collected Buring the year from various persons, \$72.57 which had been previously charged to "Taxes." In addition to this, there is \$322.02 to be added on account of contractors returning the lands to us; from this amount must be deducted \$165.18, account of saving in this year's tax payment.

THE MUNISING COMPANY

Land Department

STATEMENT OF EXPENDITURES FOR THE YEAR 1905.

EXPENDIT			, ,	
Bark Sale Commissions Land Sale Commissions OPERATING LAND DEPARTMENT			\$ 366.89 168.00 4503.81	\$ 325.1 7133.3
	1904	1905		
Salaries \$24	49.15	2163.59		
Vault Equipment	05.26			
Township plats	1.00	36.38		
Telephone & Telegraph	52.85	91.45		
Wright's Examinations	36.74			
	377.17	354.82	Ex. fdelfeur	
Office Yard Land Looking	3.48	23.99	a deplem	
	348.97	372.48	W. The	
Abstracts & Rec.	8.00	2.06		
Legal	35.39	44.30	Stares	
Cleaning Furnace Site	56.16/	58.87	W.	
Livery	16.40	11.80		
Industries	6.25			
Sidewalks	5.00/			
Freight & Express	24.80	16.04	D - 1	
Advertising	40.34	9.56	7	
Postage Fuel & Light	50.82	73.41		
Surveying	4.00	11.20		
	203.22	442.51		
	133.24	87.77		
Water & Ice	7.03	7.78		
Sol. Salary & Expense	131.02	165.02		
Papers '& Periodicals	10.61	4.40		
Draying	1.00	.64		
Janitor	22.14	36.07		
Furnitures & Fixtures	7.02	90.48		
Typewriter Repairs Photographs	4.50	1,,00		
	133.33	399.97	1	
Agents House	52.49	40.02		
Office Repairs	18.30	26.01		
Tools	.80	.19		
Hauling Coal	.52			
Directors Trip	15.44	14-		
Commissions	.91	11.60		
Donations Forestry	1.20	302.44		
General Welfare		154.77		
Petty Office Expense		1.92		
Munising Office		4.90		
Addis Lake Preserve		9.08		
Reforestry Sec. 14-46-19		454.39		
Maintaining Cherry Farm	800	85.47		
P. O. Box Rent		2.13	MASS STATE	
Barnman Special Attorney		38.09		
Audit 1904	8/2-1	150.00		
Blue Print Room		14.42		
Library		3.00		
Agents House	122	21.72		
Looking Trespass		22.61		
Adding Machine		75.08		
Sign "No Trespassing"	7.11	2.95		
Accountants Meeting		.66		
Maps Insurance		3.00		
Taxes		47.24/		
1904 Actual Taxes Assessed		10708.50		
Miscellaneous Credits to taxed		2033.31	9. 4	7-
Total Taxes charged Treasurer			8675.19	
1905 Actual taxes assessed		10543.32		
Delinquent taxes uncollectable	42.45	792.09		
Paid during year for previous years		208.17		
Tax titles redeemed Total		47.20		
1905 Credit collections	72.57	11000.10		
	711.29			
Total		1783.86		47 2
Total Taxes charged Treasurer			/	9806.9
			13713.89	17265.4

LANDS

. <u>of</u>

THE MUNISING COMPANY

NOVEMBER 30, 1905.

	99 #		R. 21 W.	- 11	R	. 20 W.		R. 1	9 W.	1	R. 18 W.	ŧ	R.	17 W.	TOTAL	
Sec	22 W. Fee	Sec	Fee	Min	Sec	.Fee .	Min	Sec	Fee	Sec	Fee	Min	Sec	Fee	Fee	Min
. 48N								20 22 23 24 25 26 27 28 29 33 34 35 36	187.30 640 80 565.05 40.50 256.73 640 160 640 92.55 639.60 162.60 640 126.93					ű.	4871.26	
F.47N					13 14 23 24 25 26 27 33 34 35 36	160 320 560 480 440 640 320 160 600 560 320	120	1 2 3 4 4 10 11 12 13 14 18 8 19 20 5 29 30 31 1 32 2 33 36	4.54 512.44 601.95 186.24 501.24 401.23 126.64 170.37 72.71 185.85 483.43 27.54 3.53 416.62 505.20 620.35 637.46 320 240.06	10 11 12 13 14 19 20 22 23 24 25 26 27 28 30 31 33 34 35	160 640 480 320 160 48.19 522.95 320 280 640 640 640 320 306.38 296.15 320 600 320 480	40	19 30 31	294.27 295.68 148		
8 12 14 18 20 22 24 26 28 30 32 34 36	400 80 640 391.99 520 640 600 520 233.39 520 440 640	12 14 13 20 22 24 26 28 30 32 34 36	320 200 614.54 240 440 560 40 306.83 600 640 80	240 160 600 400	1 3 4 10 11 12 13 14 15 18 22 23 24 25 27 32 33 34 35 36	4560.00 319.20 474.72 314.41 480 320 320 640 640 160 640 640 640 640 640 640 640 640 640 6	120	1 4 4 5 6 7 7 8 9 10 115 117 120 20 23 24 24 25 26 26 7 28	6018,40 495,23 557,93 634,64 615,88 160 320 480 640 616,55 640 641,55 640 640,55 640 640,55 640 640,640 640 640 640 640 640 640 640	1 2 3 4 4 5 6 8 10 11 12 14 15 17 18 19 20 29 30 31	480 638.04 638.04 639.27 478.03 20.05 160 202.76 240 640 480 640 480 120 627.98 480 320 630.33 155.28	40		737.95	19448.02	160.00
	6265,38	-	4081.37	2129.16		10154.33		29 30 31 32 33 34 35 36	640 640.88 634.32 640 640 640 640 600		7431 • 74				45434.62	2129.16
2 4 4.45N 6 8 10	437.90 520.12 268.19 440 280	2 4 6 12	639.84 601.58 624.08 280		1 2 3 4 5 6 8	639.66 643.06 640.74 639.42 319.27 355.24 80 640		1 2 3 4	160.79 642.60 323.14 323.86						9499.49	10 m

COMPARATIVE TAX STATEMENT

of

THE MUNISING COMPANY

TOWNSHIP	AC	REAGE	VA	LUATION	AMOU	NT OF TAX	VALUE P	ER ACRE	TAX P	ER ACRE
	1904	1905	1904	1905	1904	1905	1904	1905	1904	1905
Grand Island		7350.62		26850.00		917.75	1	3.65		.125
Au Train	39890.74	32540.12	158160.00	123975.00	4781.74	4012.59	3.96	3.81	.119	.124
Limestone	280.00	280.00	1190.00	1260.00	43.18	57.41	4.25	4.50	.154	.205
Munising	25307.51	25259.09	83160.00	85370.00	2753.97	2498.04	3.28	3.37	.109	.098
Onota	8131.70	8209.80	51500.00	47980.00	915.47	944.36	6.32	5.84	.103	114
Rock River	7988.80	8023.48	47160.00	46750.00	2036.72	2009.92	5.90	5.82	.252	.250
Munising Village			11660.00	10325.00	177.42	103.25				
	81598.75	81663.11	352830.00	342510.00	10708.50	10543.32			S. Land	

Acreage in Munising Village is not given because it appears in acreage in Munising Township.

As to Munising Village and Munising Township the Valuation is made by each Municipality which collects its own taxes. and they should be added together to get the total amount of taxes in Munising Township.

3 3

THE MUNISING COMPANY

CONDITION OF FARM LAND CONTRACT

NAME	DESCRIPTION	CONTRACT NUMBER	P.UR CHASE PRICE	AMOUNT PAID	ACRES	A CRES	CDS WOOD CUT DURING 1905	IMPROVEMEN	
Peter Punstinen	W a of SW 4 of Sec. 26-46-21		480.00	400.00	70	30	573.50	House and Barn	
Lewis J. Lavoy	SE 1 of NE 1 of " 28-46-21	100	240.00	240.00	7	5	Deeded Munising Ry	¢. " "	
Matt Kivinieini	SE 2 of SW 2 " 22-46-21	. 3	240.00	65.00 -	1	1		House	
John Kamppinen	W & of SE & " " 26-46-21	4-6	480.00	320.00	70	35	244.25	House and Barn	
Paavo Kajanen	E = of SW = " 26-46-21	5	480.00	360.00	65	12	543.00	# #	
J. Er Johnson	SE 1 of SE 1 " 22-46-2]	7	240.00	180.00/	28	10	710.15	Two Houses & or	ne Barn
saac Isaacson	SW 1 of NE 1 " 28-46-21	8	240.00	240.00 -	8		Deeded Mun. Ry.Co.		
John Heikkla	NE 1 of SW 1 " 28-46-21	9	240.00	50.00				Deserted	
August Wanska	SE 4 of NW 4 " " 36-46-21	10	240.00	160.00	28	12	194.50	House and Barn	
Oscar Hill	SW 1 of NW 1 " 28-46-21		240.00	160.00	20	3	538.25	Deserted	
homas Heikkila	SE 1 of SW 1 " 28-46-21		240.00	40.00			000,20	#	
Gustaf Koski	NW 1 of NW 1 " 26-46-21		240.00	160.00	28	9	564.50	House and Barn	
Matti Maki	SE 1 of NE 1 " 26-46-21		240.00	160.00	25	13	378.99	nouse and barn	
	SW 1 of NW 1 " " 26-46-21		240.00	160.00	34	10	316.50		
Jacob Ruspakka	W = of NE 1 " " 30-46-21		480.00	240.00	45	30			
					40	30	443.25		
Kalle Kauppenen			240.00	40.00	0.5			Deserted	
Jacob Maki	111 4 01 01 4		240.00	140.00	25	10	170.25	House and Barn	
Ino. Saminen	DD 4 01 111 4 100 100 11		240.00	40.00				Deserted	
	NE 1 of NE 1 " 30-46-21		240.00	120.00	15	8	357.00	House and Barn	
	SE 4 of NW 4 " " 30-46-21		240.00	123.51	20	8	596.75	" "	
	SE 1 of NW 1 " 26-46-21		240.00	140.00	30	12	272.25		
John E. Ericksonn	NW 1 of SE 2 " 20-46-21		240.00	40.00	3	2	15.75	11 11	
homas Hallstrom	SW 1 of NW 1 " 30-46-21		240.00	120.00	32	14	243.75		
John Kuja	W = of SW = " 28-46-21		480.00	160.00	15	7	86.00		
John Aho Nor. of Ry.	W a of NW 4 " " 36-46-21	26	360.00	222.30	56	10	76.25	11 11	
Peter Maki	NW & of NW & " " 20-46-21	27	240.00	40.00				Deserted	
latti Tervo	SW 1 of NE 1 " 26-46-21	28	240.00	140.00	20	8	473.25	House and Barn	
scar Nyman	NW 1 of NW 1 " " 30-46-21	29	240.00	120.00	20	10	199.62	# #	
John Samamen	NE 2 of NW 1 " 28-46-21	30	240.00	120.00	13	12	516.00	11 11	
intti Jestila	NE 1 of SE 1 " " 20-46-21	31	240.00	40.00				Deserted	
John Hill	SE 1 of SW 1 " 36-46-21	32	240.00	80.00	17	8	46.50	House and Barn	
	SE 1 of NW 1 " 20-46-21		240.00	40.00	2	2		Two Houses and	1 Barn
	NE 1 of NW 1 " 26-46-21		240.00	40.00	2			Deserted	
lenry Luckanen	SE 1 of NE 1 " " 30-46-21		240.00	40.00	16		*	H .	
Chas Mattson	SW 1 of SE 1 " " 20-46-21		240.00	80.00	8	5	30.50	House and Barn	
	NW 1 of NW 1 " 28-46-21		240.00	60.00	12	8	78.25	# # #	
	NW 1 of SE 1 " " 36-46-21		240.00	120.00	20	3	353.00	, ,	
	NE 1 of NW 1 " 30-46-21	41	240.00	120.00	12	4			
	NE 1 of SE 1 " " 26-46-21		240.00	120.00	18	8	195.75 492.50	" "	
	SE 1 of SE 1 " 26-46-21		240.00	100.00	18	4	416.00		
	SW 1 of SW 1 " 22-46-21		240.00	40.00	2 ¹ / ₈	4	183.75		
and the second s				120.00		12	567.25		
	HE & OT DE & OF TO HE		240.00	80.00	30	4			
100 m	SE 1 of SE 1 " 36-46-21		240.00		18		558.25		
Control of the contro	NE 1 of NW 1 " 36-46-21		240.00	110.00	22	4	736.00		* .
John F. Maki	Di 2 01 HE 2		240.00	100.00	22	2	601.00		Not occupie
Isaac Hill Frank Ross	SE 1 of NE 1 " 36-46-21 SW 1 of NW 1 " 20-46-21		240.00	120.00	20	1	570.75 30.50	11 11	
									2

MUNISING RAILWAY COMPANY

Land Department

STATEMENT OF RECEIPTS FOR YEAR 1904 & 1905

		1904	1905
Interest		\$ 722.74	\$ 382.00
Sales of Lots	brobal endered	4383.41	2473.00
Miscellaneous Receipts		93.60	53.00
House Rents			15.00
Sales of Hay			25.00
Discount			4.20
Total	Receipts	\$ 5199.75	2952.20

MUNISING RAILWAY COMPANY

Land Department

STATEMENT OF EXPENDITURES FOR YEAR 1904 AND 1905

	1904	1905	1904	1908
Townsite Improvement			\$379.49	49.78
Park Improvement			898.65	65.91
OPERATING LAND DEPARTMENT			1187.34	911.11
Traveling	\$160.95	71.51		
Sta. & Printing	46.58	63.63		
Legal	136.01	3.78	1. 1. 1	
MiscellaneousExpense	1.48	00	1	
Salaries	502.77			7-1-
Postage	6.00			27
Livery	5.91	2.00		
Fuel & Light	15.11	9.78		
Telephone & Telegraph	13.06	11.77		*
Advertising	48.33	2.20		
Papers and Periodicals	1.44	2.20		
Engineering	41.24	20.75		*
Sidewalks	169.41	276.19		
Land Looking	5.94	210.19	+	
Repairs Office	.45			
Abs. and Recording	30.76	3.11	Yes	1
Freight and Express	1.90		March - The	
Munising Office	1.90	.37		
Munising Clerk		399.99		
Furniture & Fixtures		16.75		. 1
Wright's Examinations		18.90		
P.O. Box Rent		.66	1	
Tools		.50		
Village Improvement		.95	31	-1
Surveying		6.50		
Taxes "Actual Taxes Paid"		2202.72	4700 00	
Mixcellaneous Charges to Taxes		1093.21	4763.60	
Total Taxes Charged treasurer		1000.21	1	3295.9
Total Expenditures			\$ 7229.08	4322.7

LANDS

of

THE MUNISING RAILWAY COMPANY

NOVEMBER 30TH.1905

	RANGE 23	W.			RANGE 1	9 W.		T	OTAL	
Sec	Fee	Sur	Min	Sec	Fee	Sur	Min	Fee	Sur	Min
T.47 N				34	13.60	4 - 1.		13.60		
				2	108.77		(and			
T.46 N				3	13.24					
					122.01			122.01		
T.45 N	35.00							35.00		
1 - 1 - 1	0-7 BX 1 K	777	200	374.77	777741		PAN	170.61		

COMPARATIVE TAX STATEMENT

of

MUNISING RAIL WAY COMPANY

	TOWNSHIP	ACRE	AGE	VALU	ATION	AMOUNT	OF TAX	VALUE	PER A.	TAX P	ER A.
		1904	1905	1904	1905	1905	1905	1904	1905	1904	190
	Skandia Munising Munising Vil.	35.00	35.00	140.00 108740.00 99075.00	83669.00	3119.27		4.00	4.28	.238	.28
T		35.00	35.00	207955.00	176789.00	4592.90	3132.32				

As to Munising Township and Munising Village. this is the Town Plat and is mostly village lots.

The valuation is made by each Municipality, so this tax appears twice and each Municipality collects its own taxes, so they may be added together to get total amount of taxes in the Village.

of

THE BAY MILLS LAND & LUMBER COMPANY

NOVEMBER 30TH. 1905.

Sec	E 17 WEST	RANGE	16 WEST	Sec	E 15 WEST	Sec	Fee Fee	Sec	Fee	Sec	Fee Fee	Sec	E 11 WEST	Sec	Fee	Sec	E 9 WEST	Fee
T.49N				32	40.00	34 35	183.70	1 2 32 33 36	80.00 80 80 40 160	13 14 17 21 23 24 25 26 27 28 34 35 36	160.00 120 160 440 640 120 200 40 640 320 480 600 480	23 26 27 28 29 30 31 32 33 34 35	80.00 80 520 640 320 614.75 612.24 640 320 41.36	15 18 19 21 22 27 31 32 33 34 35	80.00 75.16 29.08 400 160 320 480 820 80 200 400			
T.48N		14 22 24 26 28 30 31 32 36	440 280 120 160 280 220.76 80 640 393.55	2 6 8 10 12 14 18 22 24 28 30 32 34	40.00 40 80 80 80 80 160 120 160 122.65 240 146.17 80.	2 3 4 5 8 10 11 12 13 14 15 17 18 19 23 24 25 26 27 28 30 31 32 33 34 35	583.70 79.80 313.13 118.54 120 120 120 160 160 160 201.40 2	1 2 3 4 5 8 9 11 12 14 15 20 21 22 23 24 25 27 28 29 30 31 32 33 34 35 36 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	440,00 360 280 280 200.37 160.41 120.51 120 240 440 440 160 229 240 189.75 280 343.40 119.50 80 440 480 349.03 273.51 400 240 320 40	3 4 5 6 7 8 9 10 11 12 17 18 19 20 21 28 29	4520.00 40 40 70.68 110.80 80 280 200 40 21.47 382.63 200 40 160 160	1 2 8 11 12 16 18 19 20 21	4038.35 41.90 80 240 200 40 80 295.95 480 280	2 3 4 5 6 19 20 25 29 32	2544.24 286.07 120 123.45 166.21 424.09 80 200 120 200 120	16 18 21 23 24 25 27 33 34	40.00 303.47 160 80 280 80 400 80 200	12156.29
T.47N		4 5 6 10 12 16 18 22 23 24 25 26 27 28 32 36	2614.31 220.40 69.71 70.13 200.80 280 80 380.58 160 160 134.60 80 211.10 51.60 40 80	4 6 8 16 19 22 23 24 25 28 29 31 33 34 35 36	2308.82 306.41 147.79 280 120 40 231.50 40 40 120 200 80 151.28 40 160 280 120 40	36 1 2 5 6 7 8 12 30 31	160 479.10 79.13 158.84 152.50 120 240 120 40	1 2 3 4 5 6 7 8 11 12 13 14 15 16 17 18 23	6585 48 160 195 05 150 39 120 391 67 195 57 435 63 616 90 80 40 360 240 80 160	6 7	2355.58 36.87 145.50	7 9 10 11 12 13 14 15 18 23 24 26	2137.85 190.89 80 280 240 160 160 320 400 80 40 480 80	17 18 19 20 35	1839.82 40 323.61 200 40 120	50 A.	1663.47 80 236.39	25175.43
			2378.92	00	2556.98		1549.57		3425.21		182.37		2510.89		723.61		316.39	13643.94

THE BAY MILLS LAND & LUMBER COMPANY

NOVEMBER 30TH. 1905

	RANG	E 18 WEST	RANG	E 17 WEST	RANGI	Fee Fee	RANG!	Fee Fee		14 WEST	RANGE	13 WEST	RANG	E 12 WEST	RANGE	10 WEST	RANG	E 9 WEST	TOTAL
T.46 N			28 30	400 295.10	6 7 8 9 15 16	160.07 40 160 40 120 320	2 3 4 5 9 10 14 15 20 21	80.04 40 119.68 159.69 40 240 240 40 80 120	2 8	40 80	2 3 12 29 34 35	120 80 160 40 160 80	ţ	7.00	2 3	133.40 167.32	19 20 21 35 36	282.23 40 160 160 120	
27	-	15.04	7	695.10		840.07		1199.41		120		640.00				300.72		712.23	4507.5
T.45 N		4	4 6 8 9 12 15 16 18 19 29 30 32 33	120.55 267.85 80 120 40 120 200 40 80 40 110.44	18	63.85	12	80	17 25 36	160 200 120	2 3 25 36	80 120 39.21 280 320							
			6	1378.84	33	63.85		80.00		480.00		839.21							2841.9
T.44 N			16	238.69		80,00					5 6 7 8 8 17 19 20 31	153.93 237.32 80 160 40 40 40 120 39.55 950.80							1269.4
T.43 N	2	40.00		200,00	1 22 23 26 27	80 40 85.50 200 160	8	209.35	1 12 26 27	83.25 40 40 40									1200.4
		40.00		40	34	565.50 37.00	7	209.35	7	203.25									1018.1
T.42 N			5 10 18 19	120 40 80	35	14.20	9 10 13 14 15 16 17 18	109.15 36.90 197.86 230 270.70 264.13 167.67 40.40	18	25.50						4			
14.3				000 00		61.00	19 20 30 31	73.75 47.39 188.83 147.93		35.00					1				
T.41 N				280.00	3 4 9 10 11 15 22	51.20 40 180.65 283.25 80 120 40 200 944.90		1814.71		35.00						,			2180.9
						944.90										- 1			944.9

of

THE BAY MILLS LAND & LUMBER COMPANY

NOVEMBER 30, 1905.

								(0	ontinued)		DANC	E 2 WEST	PANCE	1 WEST	TOTAL
RANGE	Fee Fee	RANG	Fee Fee	Sec	Fee Fee	Sec	5 WEST	Sec	Fee	Sec	Fee Fee	Sec	Fee	Sec	Fee	Fee
49N 36	240		ALLEY S	15	21.75				4						3 34	240.00
3	40 42.47 169.08			15	1.75				1							
4 7 48N 8	120															
17	63.63															
19	64.04 819.22		() () () ()		21.75										40	840.97
				-		23 24 25	80 40 40	23 24 26	40 107.15 75.35	22	40	30	90.10	32		
										23	40					
. 47N										29 31	80 80 200					
										32 33 35	320					
						11.00	160.00		222.50	36	1160.00		106.30	-	40 80	1688.80
				8	40	2	40 361.68 241.03	33	80 40	2 5	430.02 355.08	5	67.30	8	80	
				17	160	5 9 12	80			6 7	37.90 234.91 80	6 7 10	451.50 40 40			
						22	80			11	280	11	200			
	-		· Kana				1- 15			13	40	15	120			
.46 N										17 18 24	555.40 200	17 19 20	80 200 560			
										25 30	520 80	21 25	120			
							*					27	120			
												29 30 31	560 392.81 40			
												32	40 640			
					000		000 ==		160		0100	34 35	440 80		80	9927.63
		10 13	40 200	9	80 80 40	34	882.71 40		120	1	166.56	4	5431.61	11	120	
100		24	120	13	360									14	80	11-12 1
				16	109.99					*	•				1	
.45 N				21 22 23	40 40 160											
17				24 25	560 40											
				34	80 40					*					44	
		2	435.96	35	160 2029.99 40		40				166.56		123.13		280.00	3075.64
		3 4	120	18	40 80											
J		6 7	195.95 360	22	178.65 129.50											1 1
		8 9 10	160 320 40	25 26 27	49.30 121.70 102.40											
		11	40	28 32	76.45 80											
. 44 N		15	240	34	40											
. 22 N		17 18 19	520 517.18 160													11 11 11
10,000		20	160													
		22	120													
		24 25	160 80													
		26	40 40 3993.18		938.00						2				11 5 2	4931.13
			0000.10		200.00						Tota	1 Shee	t No.3			20704.17
													. 2			12762.83
													* 1			50975.66
																84442.66

COMPARATIVE TAX STATEMENT

of

BAY MILLS LAND & LUMBER COMPANY

NOVEMBER 30TH, 1905.

TOWNSHIP	A CREAGE	VALUATION	AMOUNT OF TAX	VALUE PER ACRE	TAX PER ACRI
Bruce	120	720.00	12.61	6.00	.105
Trout Lake	1293.05	4025.00	65.01	3.11	.050
Superior	12245.65	58735.00	1174.79	4.80	.096
Bay Mills	362.95	5000.00	74.11	13.77	.204
Dafter	440.00	2430.00	82.81	5.50	.188
Kinross	366.56	1080.00	34.45	2.95	.094
Sault Ste Marie	2185.95	11440.00	180.71	5.23	.082
Germfask	1790.01	2825.00	114.53	1.58	.064
Manistique	2037.13	5361.00	244.39	2.63	.120
Doyle	751.35	930.00	42.36	1.24	.056
Seney	9728.87	14693.00	502.43	1.51	.052
Hiawtha	4468.63	4840.00	234.92	1.08	.052
Harrison	1815.01	1490.00	36.54	.82	.020
Hendricks	3753.58	7140.00	329.87	1.90	.088
Me Millan	21264.02	57140.00	1361.40	2.69	.064
Columbus	2693.26	6961.00	371.33	2.58	.138
Garden	40	25.00	.35	.62	.010
Munising	695.10	1800.00	47.05	2.60	.068
Burt	18391.54	67810.00	2178.28	3.69	.118
	84442.66	254445.00	7087.94		

200

THE JACKSON IRON COMPANY

NOVEMBER 30TH, 1905

R.30 Sec	V. Fee	RANG	E 27 W.	Min	RA1	IGE 26 W.	Min	Sec	ANGE 22	W. Min	RANGI	Fee	Sec	NGE 20	W. Min	Sec	RANGE 19	W. Min	Sec	·18 W.	FeeTOTAL	Min
.48N					16 26 27 28 29	640 40	80 114 80				30 31 32	189.80 633.53 140.18									1649.48	974 00
		1	544.48	95.52		686.	274	13 24 25	40 160 320	40	5 6 7 8 9	963.48 460.60 609.84 532.09 599.35 80.35 195.65								4	1049,40	214.00
47N						,					18 19 20 29 30 31 32	497.90 609.68 80 320 611.07 40 280										
20 .46N	80.00		544.48	95.52					520	40	4 5 6 9	4916,53 481.41 642.42 80.63 480.00			•						5981.01	135.52
45N 8	80.00 46.20								Dit.			1683.46			, ,	23 24 26	80	80	31		1763.46	
39N							*									24 25 26 28	151.64	120.00 80 75.10 42.70 234.26 80 240 120 46.50	7 3 18	120 40 31.13 160 1.30	360.	160
													13		107.00	33 34 35 36	40 80 360 1310,54	146.65 160 80 1305.21		32.43 160	1342.97	1465.21
	- 3					* 5							24 25	22.10	189.40	3 4 5 8	160 199.64 618.35 46.40 37.10	80 120				
																9 10 11 14 15 16	400 120 80 120	191.74 40 360 320				
8 8 N																17 18 19 20 21 22 28 29	440 80 160 400 200	160 88.40 209.50 160 40 40				
														22.10	335.90	30 32 33 34	118.50 200.00 80 3990.15	40 80 2169.64			4012.25	2505.5
																5 7 8 22 27	106 24.30 22.45	99.20				-
															1	67	523.40	179.20			523.40 15678.77	179.20

The Acreage in the platted portion of Section 1 - 47- 27, known as the Jackson Iron CompanyaAddition is not included in the acreage of Fee.as it is composed of City lots, but is included in the acreage of Minerals.

COMPARATIVE TAX STATEMENT

of

JACKSON IRON COMPANY

NOVEMBER 30TH, 1905.

TOWNSHIP	ACREAGE	VALUATION	AMOUNT OF TAX	VALUE PER ACRE	TAX PER ACRE
Onota	520.00	1400.00	27.71	2.69	.053
Rock River	7364.82	28160.00	1210.94	3.82	.164—
Nahma	240.00	570.00	7.32	2.37	.031
Sac Bay	2486.90	6055.00	123.89	2.60	.050
Fairbanks	3331.19	13635.00	303.89	5.00	.091
Garden	152.43	1650.00	21.85	10.86	.144
Negaunee	686.00	1800.00	62.83	2.62	.091
Republic	126.20	600.00	11.78	4.76	.098
Negaunee City		18735.00	334.06		
200	14907.54	72605.00	2104.23		

Acreage in Negaunee city is not given because it is composed partly of city lots.

LAND DEPARTMENT REPORT FOR THE FISCAL YEAR ENDING APRIL 30TH., 1906.

-JACKSON IRON COMPANY-

The Land Department has under its care and supervision the outlying lands of this Company, also the collection of rents and supervision of its houses and leased lots and parcels of ground in the City of Negaunee.

LAND TENANTS:-

agreements only and there is nothing of record to show the sizes of any of the lots or parcels under rental or any conditions that may have been verbally understood at the time of leasing the land. We have found at least fifteen parcels of land upon which people have been living, or have fenced and using as garden spots, and for which they have never paid any rental. Many of these cases were unknown to the old Jackson Iron Company's Management, and we have been told by the persons occupying these parcels that they had permission and were not expected to pay on account of past services rendered. In one case the person claims to own the surface, saying that it was given to him on account of an accident which happened to one of his family.

I would strongly advise the issuing of leases to every occupant of whatsoever nature. Too many complications can arise in a mere verbal understanding, and after a number of years, the occupant is very much inclined to enlarge upon his rights on the premises. We have, without exception, every occupant now under a verbal lease and are collecting rents from all.

RENTED HOUSES:-

The old Company houses were in very poor condition, no repairs having been made upon them for a number of years and in consequence they were very badly run down. These are now being put in fair tenantable condition and will be repaired and made serviceable for a number of years without any further large outlay.

APPROXIMATE INCOME, 1906.

\$ 1000.00 and 70 parcels of ground leased for garden spots, etc., at an approximate annual rental of \$ 1600.00.

RENTALS IN ARREARS:-

At the time of the old management a certain leniency was shown to tenants in cases where they had been old employees and had become disabled through accident, sickness or old age, in paying up their ground rents. These rents were charged up on the books yearly and at the discretion of the Agent was closed off when it was expedient to do so. In this way a large amount of uncollectable items were allowed to accrue, which items are now up for adjustment. In such matters, the Land Office should have definite instructions regarding reduction of rents and collections from parties of this kind. It would be much better to show a less or nominal sum and have it collected, with a report yearly on each worthy case, both in cases that might occur during the current year or where assistance or charity had been bestowed in the past. Ofttimes people are able, after a few years of struggle, to renew their once prosperous living, in which case the Company should be entitled to just compensation from such tenants.

We expect to round-up all these loose ends during the present fiscal year, and be in a position to report a much better condition of affairs this year.

JACKSON IRON COMPANY

Land Department

STATEMENT OF RECEIPTS FOR YEAR ENDING APRIL 30, 1906.

Tat Danta	1000 00
Lot Rents House Rents	1222.98
Miscellaneous Lot Rents	1559.18
	39.68
Miscellaneous Receipts Interest	141.35
House Sales	36.60
Farm Land Sales	667.50
Sales of Lots	1285.88
pares or fors	1860 .00
Total Receipts	\$ 5603.57
STATEMENT OF EXPENDITURES FOR YE	AR ENDING APRIL 80, 1906
OPERATING LAND DEPARTMENT	
OPERATING LAND DEPARTMENT	709.84
Papers & Periodicals	6.00
Papers & Periodicals Telephone & Telegraph	6.00
Papers & Periodicals Telephone & Telegraph Stationery & Printing	6.00 16.71 58.26
Papers & Periodicals Telephone & Telegraph Stationery & Printing Freight & Express	6.00 16.71 58.26 3.40
Papers & Periodicals Telephone & Telegraph Stationery & Printing Freight & Express Solicitor's & Legal Expense	6.00 16.71 58.26 3.40 1.50
Papers & Periodicals Telephone & Telegraph Stationery & Printing Freight & Express Solicitor's & Legal Expense Engineering	6.00 16.71 58.26 3.40 1.50 8.00
Papers & Periodicals Telephone & Telegraph Stationery & Printing Freight & Express Solicitor's & Legal Expense Engineering Draying	6.00 16.71 58.26 3.40 1.50 8.00
Papers & Periodicals Telephone & Telegraph Stationery & Printing Freight & Express Solicitor's & Legal Expense Engineering Draying Fuel & Light	6.00 16.71 58.26 3.40 1.50 8.00 .25
Papers & Periodicals Telephone & Telegraph Stationery & Printing Freight & Express Solicitor's & Legal Expense Engineering Draying Fuel & Light Paying Taxes	6.00 16.71 58.26 3.40 1.50 8.00 .25 42.55
Papers & Periodicals Telephone & Telegraph Stationery & Printing Freight & Express Solicitor's & Legal Expense Engineering Draying Fuel & Light Paying Taxes Repairs rented houses	6.00 16.71 58.26 3.40 1.50 8.00 .25 42.55 3.42 42.10
Papers & Periodicals Telephone & Telegraph Stationery & Printing Freight & Express Solicitor's & Legal Expense Engineering Draying Fuel & Light Paying Taxes Repairs rented houses Abstracts & Recording	6.00 16.71 58.26 3.40 1.50 8.00 .25 42.55 3.42 42.10 347.25
Papers & Periodicals Telephone & Telegraph Stationery & Printing Freight & Express Solicitor's & Legal Expense Engineering Draying Fuel & Light Paying Taxes Repairs rented houses Abstracts & Recording Repairing Fences	6.00 16.71 58.26 3.40 1.50 8.00 .25 42.55 3.42 42.10 347.25 49.97
Papers & Periodicals Telephone & Telegraph Stationery & Printing Freight & Express Solicitor's & Legal Expense Engineering Draying Fuel & Light Paying Taxes Repairs rented houses Abstracts & Recording Repairing Fences Photographs	6.00 16.71 58.26 3.40 1.50 8.00 .25 42.55 3.42 42.10 347.25 49.97 5.00
Papers & Periodicals Telephone & Telegraph Stationery & Printing Freight & Express Solicitor's & Legal Expense Engineering Draying Fuel & Light Paying Taxes Repairs rented houses Abstracts & Recording Repairing Fences Photographs Collector	16.71 58.26 3.40 1.50 8.00 .25 42.55 3.42 42.10 347.25 49.97 5.00 125.43
Papers & Periodicals Telephone & Telegraph Stationery & Printing Freight & Express Solicitor's & Legal Expense Engineering Draying Fuel & Light Paying Taxes Repairs rented houses Abstracts & Recording Repairing Fences Photographs	6.00 16.71 58.26 3.40 1.50 8.00 .25 42.55 3.42 42.10 347.25 49.97 5.00 125.43

COMPARATIVE TAX STATEMENT

of_

JACKSON IRON COMPANY

NOVEMBER 30TH, 1905

TOWNSHIP	ACREAGE	VALUATION	AMOUNT OF TAX	VALUE PER ACRE	TAX PER ACRE
Onota	520.00	1400.00	27.71	2.69	.053
Rock River	7364.82	28160.00	1210.94	3.82	.164
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Negaunee	686.00	1800.00	62.83	2.62	.091
Republic	126.20	600.00	11.78	4.76	.093
Negaunee City		18735.00	334.06		
	14907.54	72605.00	2104.23		

Acreage in Negaunee city is not given because it is composed partly of city lots.

LANDS

of

THE JACKSON IRON COMPANY

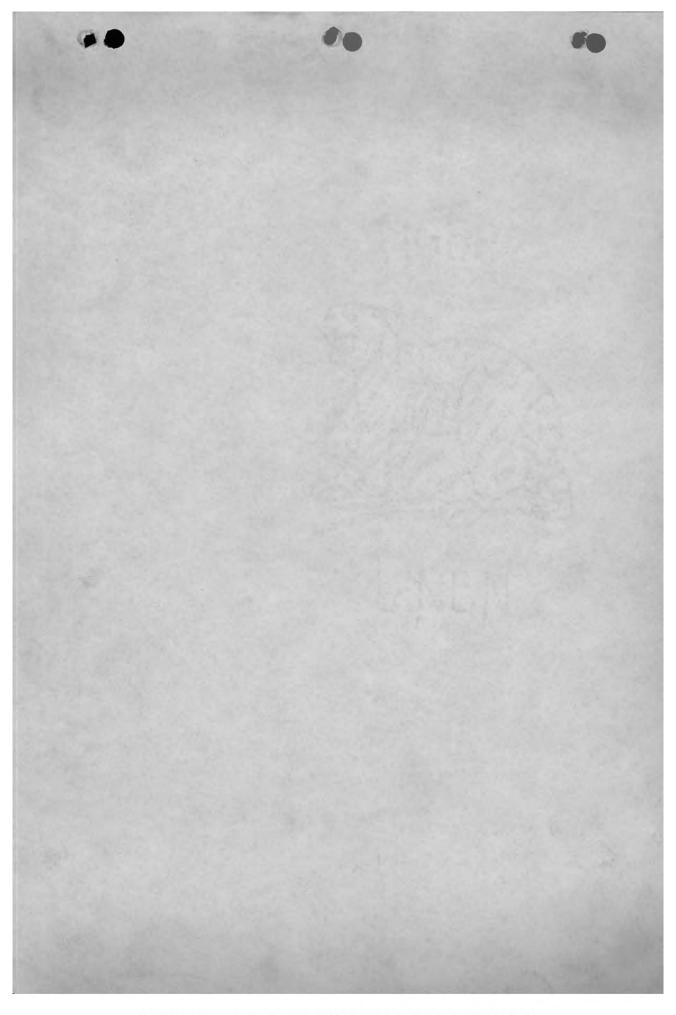
NOVEMBER 30TH, 1905

	R. 30 Sec	W. Fee	RANG:	E 27 W. Fee	Min		NGE 26 W. Fee	Min	RA Sec.	NGE 22 Foe		RANG:	E 21 W.	Sec	NGE 20 W			NGE 19 W Fee		R. 1			TOTAL Fee	Min
48N		Ι,	ð			16 26 27 28 29	640 40 6	80 114 80				30 31 32	189.80 633.58 140.18											
47N			1	544.48	95.52		686.	274	13 24 25	40 160 320	40	5 6 7 8 9 17 18	963 48 460.60 609.84 532.09 599.35 80.35 195.65 497.90 609.68					0					1649.48	274.00
		00.00	7	544.48	95.52					520	40	20 29 30 31 32	80 320 611.07 40 280 4916.53										5981.01	135.5
46N		80.00										5 6 9	481.41 642.42 80.63 480.00 1683.46										1763.46	
45N 41N	8	46.20															23 24 26	80.00 80 80 240.00	40	11 40. 31 80	.00	40	46.20	160
													x				14 15 22 23 24	91.85		7 31. 3 18 1.	.30	160		
39N													*				25 26 27 33 34 35 36	415.40 171.65 40 80 360	46.50 146.65 160 80					
														13 24 25	22.10	107.00 189.40 39.50	1 2 3 4	160 199.64 618.35 46.40	80 80 80 120	32.	43	160	1342.97	1465.2
							ME										11 14	37.10	191.74 40					in the second
.38N																	16 17 18 19 20 21 22 28 29 30	200 440 80 160 400 200 845 118.50	320 160 88.40 209.50 160 40 40					
-															22.10		84		80 2169.64				4012.25	2505.5
37N			-														5	160 153.15 106 24.80 22.45 57.50	80					
																		523.40	179.20				523.40	179.2

The Acreage in the plasted portion of Section 1 - 47 - 27, known as the Jackson Iron Companys Addition is not included in the acreage of Fee, as it is composed of City lots, but is included in the acreage of Minerals.



Annual Report_Mining_MS86100_2081_1905_2 of 3_105.tif



Annual Report_Mining_MS86100_2081_1905_2 of 3_106.tif



STEAMER PONTIAC. GENERAL OPERATIONS. The Steamer PONTIAC left Cleveland on first trip of Season 1905 on April 11th, and arrived at Cleveland ready to go into winter quarters on December 10th, having therefore been in commission 243 days. The PONTIAC was engaged during the entire season in transporting iron ore from Marquette to Lake Erie ports. Altogether 24 round trips were made. On 7 upbound trips coal cargoes were taken for delivery at Marquette. The total distance traveled during the season was 30,610 miles, carrying , 105,087 gross tons of freight. The average rate of freight received on all cargoes carried during the season was \$.6429 per gross ton as compared with \$.6667 in Season 1904. The average cost to carry per gross ton of freight was \$.4533 as against \$.5402 per ton in preceding year. The decreased cost per ton of \$.0869 in 1905 is largely due to the longer season which enabled Steamer to carry 30,668 gross tons more freight, thereby allowing a more favorable distribution of fixed charges. The average net earnings per ton of freight carried are \$.1896 in 1905 and \$.1265 in 1904. LGM THB 2-7-06 Annual Report Mining MS86100 2081 1905 2 of 3 108.tif

GENERAL REPAIRS.

The General Repairs on the Steamer PONTIAC for the Season 1905 were of the usual character, no items of particular importance entering into them.

Simply as a matter of record it may be mentioned that the hot water heater through which feed water passes to the boilers was fitted with brass tubes. The tubes leaked badly during the Season 1904 and it became necessary to replace them. Accordingly these tubes were replaced with 50 copper tubes, which it is expected will give more lasting results. The cost of renewing the tubes and the repairs connected therewith was \$131.40.

The Extraordinary Repairs to be placed on this Steamer before going to sea 1906 will probably aggregate in the neighborhood of \$2000.00.

The icebex on this boat has had but very little done to it since the boat came out. It has therefore become very much decayed and dilapidated and will be entirely torn out and renewed. The cost of this repair will probably be in the neighborhood of \$275.00.

The wooden mainmast is dangerously decayed and will be removed. It will be replaced with a steel pole spar erected aft of the smokestack, at a probable cost of \$75.00.

Floor ceiling and bilge ceiling in lower hold will require considerable renewing; probably at a cost of \$500.00.

The port, starboard and forward sides of forward cabin have been found to be in a very bad condition from dry rot, same extending from 6 inches to 2 feet up from the deck. Consequently this house will have to have new studding, new siding and much new decking. This work will cost in the neighborhood of \$300.00.

GENERAL REPAIRS - 2.

In connection with the above work on the forward house some plumbing will have to be renewed at the same time; a new bathtub and connections will be installed; these items, together with the restoring of inside cabinet work that will be misplaced by reason of the repairs to the house, will cost in the neighborhood of \$100.00.

The forward side of the after house was found to be affected much in the same way all across the entire front, and extending a short way down the port and starboard sides. Some new studding will be put in and the entire front covered with new siding, and the entire house refastened. This work will cost probably \$275.00. Both this and the forward house was found to be in a dangerous condition.

JHS THB 2-7-06

ACCIDENTS.

ABOVE PIPE ISLAND, APRIL 12, 1905, TRIP 1:

On the first trip of the season to Marquette the Steamer let go anchor above Pipe Island in the Soo River at about 5:30 P.M. this date. At about 6:40 the wind increased and the Steamer was found to be dragging her anchor. She then went alongside the Steamer KENSINGTON. The anchor chain was then hove in, and it was found that the large shackle connecting the chain with the anchor had broken directly in the middle, causing the loss of the patent anchor. This accident necessitated the purchase of a new anchor at a cost of \$185.57. This is not a claim against the Steamer's underwriters and consequently becomes chargeable to Owners Proportion of Loss.

ABOVE IROQUOIS, APRIL 15, 1905, TRIP 1:

On the same trip as above while the Steamer was proceeding to Marquette, and had left the Soo, reaching a point about 2 miles above Iroquois in Lake Superior. Anchor was let go at 1:30 P.M. well clear of the ice. About 6:20 the Steamer began to drag, and on heaving up the chain it was found that the shackle connecting the chain with the anchor had parted. This was the old fashioned Trotman Anchor. This left the Steamer without an anchor and a stern anchor was borrowed from the ANGELINE and the Steamer proceeded on her way. The anchor was replaced at a cost of \$154.19. Same is not a claim against the underwriters of the STEAMER and consequently is chargeable to Owners Proportion of Loss.

MARQUETTE, MAY 23, 1905, TRIP 4:

The Steamer was loading at the Presque Isle Dock at Marquette. While shifting the vessel one of the stays of the main mast caught on a loading spout, breaking the top off of main mast just above the rigging, decreasing the length of

ACCIDENTS - 2.

the spar about 22 feet. This will be replaced with a single gas pipe pole erected aft to carry lights. The captain in his report considers it the fault of the vessel that this damage was done.

CLEVELAND, AUGUST 4, 1905, TRIP 12:

The Steamer PONTIAC was proceeding from the Valley
Dock to the Irishtown Dock, being towed stern first with two
tugs of the Great Lakes Towing Co. In passing down they met
the Steamer MESABA going up in tow of a Great Lakes Towing Co.
tug. In passing both boats were on the bank as the channel
is narrow, and in working past the MESABA made a slight dent
in the side gangway of the PONTIAC. The damage was not
great and will be repaired when minor repairs are made.

The charge of the tug company for this service would have been \$28.00. An adjustment was made between the Captain and Captain Broderick representing the Great Lakes Towing Co., by which they would cancel their bill against the PONTIAC in settlement of the damage.

PRESQUE ISLE, AUGUST 14, 1905, TRIP 14:

While loading ore at the Presque Isle Dock David
Ottason, a deckhand, accidentally fell into the hold. He
was left at the Marine Hospital while the vessel made a trip,
and then returned to the boat apparently all right. He was
paid for the time he was in the hospital and signed a release
to the boat. The release is probably not good as he is but
17 years of age, however, it is not probable that anything
further will ever be heard of the matter.

GROSSE ISLE CHANNEL, SEPTEMBER 21, 1905, TRIP 19:

The Steamer was bound from the port of Cleveland to Marquette. Just below the turn on the Grosse Isle Ranges,

ACCIDENTS - 3.

the Steamer COFFINBURY having in tow the CHECOTAH and NELSON BLOOM were met coming down. Passing signals were exchanged, and the PONTIAC passed the steamer and the first part of the tow safely, but her stern came in contact with the last barge, the NELSON BLOOM, doing some damage to her port quarter; 3 side planks were bruised at the after end, and one hood-end corner post crushed and partly carried away; the cabin was shaken and partly dislocated, and a stairway pulled away from the curved bulkhead casing. Settlement was made with the owners of the NELSON BLOOM for \$50.00, which together with the survey and other expenses attached thereto, amounts to \$85.75, which becomes a claim on the underwriters of the PONTIAC.

CLEVELAND, NOVEMBER 20, 1905, TRIP 23:

The FONTIAC was laying at the Nypane Dock, made fast.

The Steamer POWELL STACKHOUSE in coming up the river swung her stern over and struck the PONTIAC, damaging the starboard boat crane, breaking the angle iron brace in two places; also breaking cast iron secket. At the request of the captain of the STACKHOUSE the Macbeth Iron Co. made repairs and sent the bill direct to the managers of the STACKHOUSE.

	1	9 0 4	1	9 0 5
	DAYS	PER CENT	DAYS	PER CENT
Time in port,	77/1	42.2	1102	45.5
Time sailing,	983	54.0	110	45.3
Time lost by bad weather, fog and low water,	4-1	2.3	*19	7.8
Time lost waiting at Soo Canal and River,	23	1.5	31/2	1.4
Time lost by accidents,				
	183	100.0	243	100.0
Number of trips made,		21		24
Number of cargoes carried,		21		31

PERCENTAGES OF TIME IN COMMISSION IN FORT.

Season 1901 39.7

Season 1902 39.1

Season 1903 46.3

Season 1904 42.2

Season 1905 45.5

LGM THB 2-8-06

^{*} This includes 12 days time delayed by heavy ice on Lake Superior, first trip of Season 1905.

OPERATING ACCOUNT.

RECEIPTS.	GROSS TONS	AMOUNT	PER GROSS TON FREIGHT CARRIED
24 cargoes iron ore from Marquette,	85632	\$59942.40	\$.7000
7 cargoes coal to Marquette, (21789 net tons @ 35 cents)	19455	7626.35	.3920
31	105087	\$67568.75	\$.6429
DIS BURSEMENTS.		1. 14.	
Extraordinary and General Repairs,	\$ 897.12		
Ship Keeping and Winter Dockage,	65.00		
Fitting Out,	877.83		
Wages and Captain's Salary,	10778.55		
Captain's Expense Account,	45.52		
Tug Services,	830.59		
Handling Cargoes,	17389.20		
Taxes,	655.54		*
Marine Insurance,	47.86		
Freight List Insurance, Mates Supplies,	359.65		
Provisions.	2060.80		
Stewards Supplies,	210.05		
Passenger Cabin Equipment,	42.69		
Fuel,	7647.00		
Engineer's Lubricants,	160.51		
Engineer's Supplies,	177.00		
Boiler Repairs,	24.53		
Machinery Repairs,	81.78		
Auxiliary Machinery Repairs,	9.36		100
General Expenses (Telegrams, Dues L. C. A., &c)	153.92		The second
Laying Up,	1207.32	47636.82	• 4533
Net earnings,		\$19931.93	\$.1896
Less amt.charged to Owners Fropn.of Loss,	1	339.76	
Making total met gain for season 1905,		\$19592.17	

NOTE: The cost per ton to operate after eliminating Extraordinary and General Repairs Account is \$.4448 in 1905 and \$.5263 in 1904.

LGM THB 2-20-06

STEAM ER PONTIAC. STATEMENT SHOWING ITEMS CHARGED TO OWNERS' PROPORTION OF LOSS DURING SEASON 1905. ANCHOR LOST IN SOO RIVER, APRIL 12, 1905: The PONTIAC lost her Trotman anchor (iron stock anchor) in the

Soo River in the accident of April 12th. As the amount was not

large enough to be recoverable under the Steamer's insurance policies

it was charged to Owners Proportion of Loss. The item included a new anchor weighing 2857 lbs. and shackle weighing 942 lbs., \$154.19

ANCHOR LOST IN SOO RIVER, APRIL 15, 1905:

On April 15th the PONTIAC lost her stockless anchor in the Soc Same was replaced with a new anchor weighing 3050 lbs. and shackle weighing 85 lbs. The amount not being recoverable under the insurance policies it was charged to Owners Proportion of Loss.

185.57

TOTAL.

\$339.76

LGM THB 2-8-06

COMPARISONS.

		1904	1905
	Days in commission,	183	243
	Number of miles traveled,	28413	30610
	Number of trips made,	21	24
	Number cargoes freight carried,	21	31
	Gross tons freight carried,	74419	105087
	dives tons ilong to dailing,	11111	100001
	Average rate freight per gross ton,	\$.6667	\$.6429
	Average cost to carry per gross ton freight,	. 5402	.4533
	Net earnings per ton freight carried,	\$.1265	\$.1896
	not carrings per our reagan carring,	902000	40200
	Cost per ton to operate after eliminating Exta. & Gen. Reprs.	\$.5263	\$.4448
	Gross Receipts,	\$49612.25	\$67568.75
	Gross Expenditures,	40198.13	
	Net Earnings,	\$ 9414.12	\$19931.93
	Not Earnings,	\$ 3474.7%	\$T222T.22
	Percentage of operations to earnings,	81.0	70.5
		1	A
	Gross earnings per mile traveled,	\$1.7461	\$2.2074
	Operating expenses per mile traveled,	1.4148	1.5562
	Net earnings per mile traveled,	\$.3313	\$.6512
	Gross earnings per day,	\$271.10	\$278.06
	Operating expenses per day,	219.66	196.04
	Net earnings per day,	\$ 51.44	\$ 82.02
	777	7 52011	7 02002
	Expenses per day excluding cargo handling costs,	\$142.26	\$124.47
	Expenses per day exclude cargo Handle costs & Extra. & Gen. Rprs	\$136.64	\$120.78
	Cost provisions per man per day(excluding extra meals),	\$.422	\$.394
	Average 1bs. coal consumed per hour steamed,	2335	2438
	Average 1bs. coal consumed per mile steamed,	195	210
	Average cost coal consumed per mile steamed,	\$.2338	
	Average cost oil consumed per hour steamed,	\$.0529	\$.0609
	Average cost oil consumed per mile steamed,	\$.00440	\$.00524
	Average wages paid per day while in commission,		
	Average wages paid per day white in commission,	\$38.24	\$38.09
	Average ore cargo from Lake Superior,	3544	3568
	Average days per trip going up light to Marquette,	81	72
	Average days per trip going up light to head Lake Superior,	8-1	
	Average number miles per hour - light,	12.87	12.65
	Average number miles per hour - loaded,	11.23	11.09
	General average number miles per hour,	12.00	11.23
	Average draft water or one course from Take Course	(18'2"Ford	(18'4"Ford
- 7"			
37	Average mean draft water on ore cargoes from Lake Superior, Average mean draft water on ore cargoes from Lake Superior,	(18'8" Aft 18'5"	(18'10"Aft

LGM THB 2-8-06

COMPARISON OF ITEMS OF DISBURSEMENT.

	1904	1905	+ 0R -	REHARKS
Extraordinary & Ceneral Repairs	\$1,037.85	\$ 897.13	-\$ 130.73	The labor cost for scraping rust and painting in 1904, exceeded 1905 by \$313.43
Ship Keeping and Winter Dockage	143.55	65.00	- 78.55	A longer time at dock during Winter 1904 - 5
Fitting Out	1,375.13	877.83	= 397.29	Engineers Dept. was fitted out for season 1905 while laying up in Fall 1904, but no fitting out work was done for 1904 while laying up in 1903.
Wages & Captains Salary	8,544.64	10,778.55	+ 2,233.91	Rate of wages was the same for both years, but season 1905 was 60 days longer than 1904
Captains Expense Account	63.59	45.52	- 18.07	
Tug Services	431,35	830.59	+ 398.74	Steamer carried 10 more cargoes in 1905 than in 1904
Handling Cargoes	14,165.11	17,389.20	+ 3,234.09	Rate for unloading ore advanced le per ton in 1905, and Steamer carried 11213 tons more ore in 1905
Taxes	535.15	655.54	+ 120.39	Rate of taxes \$3.69 in 1905 and \$2.26 in 1904
Marine Insurance	3,373.45	3,915.00	+ 541.55	The valuation of Steamer was the same both years, but the lessened remium in 1904 is due to rebate
Freight List Insurance	81.33	47.86	- 33.37	received account lay-up returns for short season
Mates Supplies	291.32	359,65	+ 68.33	
Provisions	1,663.40	2,060.80	- 136.08	Based on decreased cost of \$.033 per man per day
Stewards Supplies	234.70	210.05	- 14.65	
Passengers Cabin Equipment .	41.54	42.69	+ 1.15	
Fuel	6,693.18	7,647.00	+ 549.60	Based on increased consumption of 15 lbs. per mile. Carried 7 cargoes coal in 1905 and no coal in 1904
Engineers Lubricants	125.08	160.51	+ 25.71	Based on increased cost of \$.00084 per mile run
Engineers Supplies	179.93	177.00	- 2.92	
Boiler Repairs	11.08	24.53	+ 13.45	
Machinery Repairs	48,59	81.78	+ 33.19	
Auxiliary Machinery Repairs	17.44	9.36	- 8.08	
General Expenses	365.37	153.92	- 211.45	In 1904 both Master and Chief Engineer received prizes of \$100.00 each
Laying Up	894.97	1,207.22	- 313.35	A greater expenditure necessary on machinery and boilers while laying up in 1905

LGM-ACS 3/17/06

ANNUAL REPORT OF STEAMER FRONTENAC Frontenae

STEAMER FRONTENAC. GENERAL OPERATIONS. The Steamer FRONTENAC sailed from the port of Cleveland on first trip of season 1905 on April 10th, and finished discharging last cargo at Cleveland December 6th, having therefore been in commission 240 days. This Steamer was engaged during the entire season transporting cargoes of iron ore from Marquette, Mich. to Lake Erie ports. On six upbound trips coal cargoes were taken for delivery at Marquette. The total freight carried during the season aggregated 90556 gross tons, Steamer traveling 28,686 miles. The average rate of freight received on all cargoes carried during the season was \$.6467 per gross ton, as compared with \$.6197 in previous year. The average cost to carry per gross ton of freight was \$.4445 in 1905 and \$.4714 in 1904. The average net earnings per gross ton, therefore, are \$.2022 as against \$.1483 in preceding year. LGM THB 2-9*06 Annual Report_Mining_MS86100_2081_1905 2 of 3 120.tif

STEAMER FRONTENAC. GENERAL REPAIRS. The repairs on Steamer FRONTENAC during season 1905 were of the usual character. In order to keep down the accumulation of rust it was necessary to chip and scrape and paint in various parts of the Steamer. The labor and material used in this work cost in the neighborhood of \$400.00. The bulwarks and railing on both sides of Steamer had become badly decayed. These were accordingly removed and replaced with modern iron stanchions and sockets, strung with two wire life lines on each side. The cost of this improvement was \$145.02. In addition to the usual run of repairs necessary before going into commission another season, there will need to be some repairs on the boilers - 3 patches on expansion ring of starboard boiler and two patches on expansion ring of port boiler. 27 tubes are rusted out of ends of both boilers and leaking; these will have to have new ends welded on and replaced. The work on the boilers will probably cost about \$400.00. All of the vessels of the old style construction in the hold will receive damage from time to time in the operation of modern unloading machinery. Such damages have been sustained in the way of hatch coamings, stringers, stanchions, etc., that will cost in the neighborhood of \$200.00 to repair. Some repair will have to be made to floor and bilge ceiling in this Steamer - Probably at a cost of \$400.00. LGM JHS THB 2-9-06 Annual Report_Mining_MS86100_2081_1905_2 of 3_121.tif

ACCIDENTS.

SOO RIVER, APRIL 18, 1906, TRIP 1:

The Steamer was bound to Lake Superior port on the first trip of the season and had encountered considerable ice in the Soo River. After leaving the Soo, she was considerably delayed in White Fish Bay on account of being obliged to lay to at different times on account of the heavy ice and the vessels ahead of her. At about 8:30 P.M. this date the FRONTENAC was stopped at a point nearly opposite Parisian Island, it being impossible to proceed on account of the fleet of vessels ahead. At this time the wind, which had heretofore been from the northwest, shifted to the southward. At 10:00 P.M. the field of ice off to the southwest began to move and shut in on the FRONTENAC. It was impossible to move the vessel or do anything to avoid the floe of ice which came down on her port side with terrible force, breaking a large number of frames, and breaking and indenting plates on the port side, breaking some frames and indenting plates on the starboard side. The movement of the ice continued for about five minutes, when the floe appeared to fetch up against solid ice on the other side of the pathway which had been broken by the vessels.

The vessel was found to be leaking as a result of this contact with the ice, and it being impossible to turn around at the place of the accident, she proceeded up the bay some five miles where a channel had been broken, and there turned around and started back to the Soo. On the return trip some heavy cakes of ice were encountered, and in places the propeller wheel came into violent contact with large blocks of ice, doing damage to the high pressure piston and crosshead.

ACCIDENTS - 2.

The damage sustained by the hull consisted of broken frames and indented plates on both port and starboard sides of the vessel. She arrived at the Soo April 20th where temporary repairs were made. Owing to the severe condition of the ice in the lower end of Lake Superior, after the temporary repairs were made, the Steamer remained at the Soo until noon of April 26th, when she proceeded on to Marquette, loaded a cargo of iron ore, and returned to Lake Erie port.

An examination of the damage sustained showed that the starboard side above the tank top and abreast Nos. 5,6 and 7 hatches was crushed inboard several inches, 18 frames and 16 reverse bars bent and fractured, 3 plates corrugated, 2 shell plates cracked, and 1 set web frame angles broken. On the port side 6 frames and 4 reverse bars were fractured. In the engine room it was found that owing to the propeller striking ice or some other heavy obstruction, the H.P. piston rod of main engines had been driven forcibly into the crosshead, thereby expanding the neck of the crosshead and bursting the forged ring shrunk thereon, also bending the collar.

The total repairs growing out of the disaster amounted to \$2846.00, which becomes a claim on the under-writers of the vessel. The loss to the vessel consisted of lost time at the Soo and repairs at Lake Erie port.

SAULT STE-MARIE, APRIL 21, 1905, TRIP 1:

As the Steamer FRONTENAC was lying moored to the dock at the Soo April 21st below the old lock, the Steamer EDWARD HINES of the Hines Lumber Co., in passing, came in contact with the stern of the FRONTENAC, breaking one of the stanchions that support the poop deck. The master of the HINES paid Capt. Anderson \$5.00 in settlement. Repair was made at a cost of \$2.75.

ACCIDENTS - 3.

CLEVELAND, MAY 21, 1905, TRIP 2:

The FRONTENAC was in the C. & P. Slip. She had been at the fast plant and all the hatches had been cleaned except At about 12:00 o'clock the captain ordered some of the end hatches port side amidships taken off to show light into the hold where repairs were being made of the damages sustained in the ice. The captain remained about the vessel until 4:00 P.M. Before leaving he instructed Watchman Harry Welch, who was on watch, to put the batches on as soon as the first man came aboard. About 4:30 Seaman F. R. Hoerster, of 17 Fingal Street, Pittsburgh, came aboard and the Watchman Harry Welch and the Fireman, Napoleon Grew, were quarreling and started to fight. In the mix-up the Fireman was knocked into the hatch, falling on the ore. He was carried on deck, an ambulance sent for, and taken to the hospital. returned to the vessel about 7:30 in the evening, after having his wound dressed, saying he did not care to stay in the hospital, and made the next trip up on the boat.

Messrs. Hoyt, Dustin & Kelley advise under date of May 26th that absolutely no responsibility attaches to the boat or the company on account of the injury sustained by the fireman.

CLEVEL AND, MAY 29, 1905, TRIP 3:

While unloading at the Nypano Ore Dock the clam shells did some damage to the bulb iron fore and aft on port side between Hatches Nos. 4 and 5. The damage, which was very slight was repaired by the N.Y.P.& O. Dock Co. at their own cost.

ACCIDENTS - 4.

CLEVELAND, JUNE 5, 1905, TRIP 4:

While unloading at the C & P Dock the clam shells did some slight damage to coal bunker on port side No.7 Hatch, same being stove in, and bulb iron stringer forward side of hatch bent downward. The damage was immediately repaired at the cost of the C & P Dock Co.

AMHERSTBURG RANGES, AUGUST 18, 1905, TRIP 12:

The FRONTENAC was bound down to Lake Erie port with a cargo of iron ore. When about a quarter of a mile below Bois Blanc Island, and directly on line with the Amherstburg Ranges, while going slow, the Steamer dragged slightly on seemingly soft bottom. The vessel was drawing at the time about 18.11 while water at the station was shown as 19.06. Three dredges had been working at this point for six weeks or more, one being there at the time, and it may be that a lump had been left or had formed. Examination of the water bottom afterwards showed no indentation.

THUNDER BAY, NOVEMBER 13, 1905, TRIP 22:

The Steamer was bound from Ashtabula to Marquette.

She encountered heavy weather all the way up, and was finally forced to seek shelter in Thunder Bay from the northwest gale.

The Steamer let go anchor off White Fish Point, near Alpena, in 7 fathoms of water. The vessel had been straining on her anchor all day, the wind blowing first to port and then to starboard, the vessel being like an empty barrel, and fetched up very hard now and then on the chain. At about 10:30 the chain parted and the starboard anchor and 20 fathoms of chain was lost.

The next morning at 7:00 o'clock the wind was still blowing very hard. The Steamer hove up the port anchor and went in search of the buoy of the missing anchor and chain, which was found about 11:00 A.M. The port anchor was then let

ACCIDENTS - 5.

go to the windward of the buoy; a grappling hook had been made but it was impossible to use it as the wind was still blowing hard and the boat could not be held still. At 12:30 the wind veered to the southwest, and the vessel was backed and the port anchor dragged near the buoy, and both the missing anchor and chain were picked up at the first attempt and gotten on board.

This is probably the first case where an anchor and chain were lost and both recovered, and as a matter of record commendatory mention is made of this action on the part of Capt. Anderson.

CLEVELAND, DECEMBER 4, 1906, TRIP 23:

The Steamer was lying at the N Y P & O Dock. She had just shifted from the clams to Brown Rigs Nos.8 and 9, and was made fast at 7:00 A.M. The Steamer CENTURION in passing by in tow of the Tug Kennedy, struck the FRONTENAC on the starboard side, breaking two frames, one butt strap, four rivets, one scupper pipe, and eye bolt that supports one gangway lug. The repair, which is a small matter, will be made at the cost of the Steamer CENTURION.

CLEVELAND, DECEMBER 8, 1906, LAYING UP:

The FRONTENAC was lying tied up at the NYP&O Dock.

The Steamer VICTORY in passing swung her stern over and struck the FRONTENAC abreast of the deck house, breaking a scupper pipe and one frame. Although the captain of the VICTORY was advised of the damage he declined to come on board to see it, but said he would report the damage to his office. A statement of the case in full was made by Henry A. Murphy, 1st Mate, J. B. Hart, Chief EngineerOliver Anderson, Wheelsman, T.G. Black, 2nd Mate, and Thomas Salberg, Watchman, all testifying to same. The cost of the repair amounted to \$32.43, claim for which was sent to Messrs. Pickands, Mather & Co., owners of the VICTORY, for adjustment.

	1	9 0 4	1	9 0 5
	DAYS	PER CENT	DAYS	PER CENT
Time in port,	711	42.1	971	40.5
Time sailing,	89	52.3	111	46.2
Time lost by bad weather, fog and low water,	71/2	4.4	*221	9.3
Time lost waiting at Soo Canal and River,	2	1.2	21/2	1.1
Time lost by accidents,			7/	2.9
Total time in commission,	170	100.0	240	100.0
Number of trips made		18		23
Number of cargoes carried,		21		29

PERCENTAGES OF TIME IN COMMISSION IN FORT.

Season 1901....37.2

Season 1902 41.7

Season 1903 44.0

Season 1904 42.1

Season 1905 40.5

LGM THB 2-9-06

^{*} This includes $12\frac{1}{2}$ days time delayed by heavy ice on Lake Superior and Soo River first trip season 1905.

OPERATING ACCOUNT.

RECEIPTS.	GROSS TONS	AMOUNT	PER GROSS TON FREIGHT CARRIED
23 cargoes iron ore from Marquette 6 cargoes coal to Marquette	74900	\$52430.00	\$.7000
(17535 net tons @ 35 cents)	15656	6137.19	.3920
29	90556	\$58567.19	\$.6467
DIS BURS EM ENTS.			
Extraordinary and General Repairs,	\$ 1440.53		
Ship Keeping and Winter Dockage,	65.00	2 - 10 - 1	
Fitting Out,	669.97		
Wages and Captain's Salary,	9886.77		CARLES CO.
Captain's Expense Account,	55.84		1 2 2 2 4
Tug Services,	478.94		
Handling Cargoes,	15065.22		
Taxes,	541.39		
Marine Insurance,	3361.51		
Freight List Insurance,	40.41		
Mates Supplies, Provisions,	282.56		
Steward's Supplies,	1624.31		ALC:
Passenger Cabin Equipment,	6.50		
Fuel.	5245.36		
Engineer's Lubricants,	68.92		
Engineer's Supplies,	102.87		
Boiler Repairs,	66.87		
Machinery Repairs,	14.12		
Auxiliary Machinery Repairs,	40.12	No.	
General Expenses) Telegrams, Dues LC. A., &c.)	173.52	4	
Laying Up,	829.98		.4445
Net earnings,	1	\$18317.19	\$.2022
Less amt.charged to Owners Propn.of Loss,		510.14	
Making total net gain for season 1905,		\$17807.05	

NOTE: The cost per ton to operate after eliminating Extraordinary and General Repairs Account is \$.4286 in 1905 and \$.4539 in 1904.

LGM THB 2-9-06

STATEMENT SHOWING ITEMS CHARGED TO OWNERS PROPORTION OF LOSS DURING SEASON 1905.

DAMAGE IN ICE ON LAKE SUPERIOR, APRIL 18, 1905:	\$463.03
Deductible Average, Add under remittance.	• 03
" bill Hoyt, Dustin & Kelley for attorneys i	
" bill Salvage Assn., London, for services Co	
aking examination,	10.00
Add bill Thompson Towing & Wrecking Assn., Soc	o. for temporary
repairs,	54.64
	\$537.70
Less wages of captain and watchman,	\$52.50
Less telegrams,	4.82 57.32
Balance charged to Operating Account,	\$480.38
While loading at L.S.& I.Ry.Dock two ore spot capping, breaking the same. New capping was put ACCIDENT TO NAPOLEON GREW FALLING IN HOLD, MAY 21, In an altercation with Harry Welch, on this capping of the same	on at a cost of, 6.9: , 1905: date, at Cleveland, slightly injured. The
case, etc., amounts to, COLLISION WITH TUG R. T. RAY, THUNDER BAY, NOVEMB	
While FRONTENAC was sheltered near Alpena, No	
While FRONTENAC was sheltered near Alpena, No the Tug R. T. Ray, came alongside for the purpose ashore to send to home office. The heavy seaway to tug, repairing which cost,	of taking telegram

LGM THB 2-9-06

COMPARISONS.

T	The state of the s	1904	1905
1	Days in commission,	170	240
	Number of miles traveled,	23068	28686
	Number of trips made,	18	23
	Number cargoes freight carried,	21	29
	Frose tone freight carried,	66919	90556
١	Fross tons ireight carried,	00323	70330
	Average rate freight per gross ton,	\$.6197	\$.6467
	Average cost to carry per gross ton freight,	.4714	.4445
	Net earnings per ton freight carried,	\$.1483	\$.2022
	Cost per ton to operate after eliminating Extra. & Gen. Reprs.	\$.4539	\$.4286
	n	\$41468.36	\$58567.19
	Gross Receipts,		40250.00
	Gross Expenditures,	\$ 9920.76	\$18317.19
	Net Earnings,	\$ 9920.76	\$10311.13
	Percentage of operations to earnings,	76.1	68.7
	Gross earnings per mile traveled,	\$1.7977	\$2.0416
	Operating expenses per mile traveled,	1.3676	1.4031
	Net earnings per mile traveled,	\$.4301	\$.6385
		4040 00	8044 02
	Gross earnings per day,	\$243.93	\$244.03
	Operating expenses per day,	185.57	167.71
	Net earnings per day,	\$ 58.36	\$ 76.32
	Expenses per day excluding cargo handling costs,	\$119.09	\$104.93
	Expenses per day exclud. cargo hdlg. costs & Ex. & Gen. Reprs.	\$112.17	\$ 98.94
	Cost provisions per man per day, (excluding extra meals)	.362	.334
	Average lbs. coal consumed per hour steamed,	1620	1672
	Average lbs. coal consumed per mile steamed,	150	155
	Average cost coal consumed per mile steamed,	\$.1805	
	Average cost oil consumed per hour steamed,	\$.0265	\$.0259
	Average cost oil consumed per mile steamed,	\$.00246	\$.00240
		\$35.05	\$35.23
	Average wages paid per day while in commission,	3281	3256
	Average ore cargo from Lake Superior,		
	Average days per trip going up lightto Marquette,	81/4	
	Average days per trip going up light to head Lake Superior,	22.50	22 40
	Average number of miles per hour - light,	11.58	202000
	Average number of miles per hour - loaded,	10.29	10.31
	General average number miles per hour,	10.80	
	Average draft water on ore cargoes from Lake Superior,		(18'1"Ford
		(18'5" Aft	
	Average mean draft water on ore cargoes from Lake Superior,	18'4"	18'4"

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	1904	1905	+ OR -	REMARKS
Extraordinary & General Repairs	\$1,175.86	\$1,440.53	+\$ 264.67	In 1905 considerable repair to floor ceiling and stanchions in cargo hold, costing \$213.05
Ship Keeping and Winter Dockage	145.05	65,00	- 80.05	A longer time at dock during Winter 1903-4.
Fitting Out	450.14	669.97	+ 219.83	A larger expenditure necessary for supplies while fitting out in 1905.
Wages and Captain's Salary	7,497.60	9,886.77	+ 2,389.17	Rate of wages was same for both years. Season 1905 was 70 days longer than 1904.
Captain's expense account	25.55	55.84	+ 30.29	
Tug Services	500.88	478.94	- 21.94	
Handling Cargoes	11,302.26	15,065.22	+ 3,762.96	Rate for unloading ore increased 1/2 per ton in 1905. Steamer carried 15,846 tons more ore than in 1904.
Taxes	439.10	541.39	+ 102.29	Rate of taxes \$2.69 in 1905 and \$2.26 in 1904.
Marine Insurance	2,760.39	3,361.51	+ 601.12	Valuation of Steamer was same for both years. The material lessened premiums for 1904 is due to lay-up returns on account short season.
Freight List Insurance	63.98	40.41	- 23.57	
Mates Supplies	292.65	282.56	- 10.09	
Provisions	1,264.76	1,624.31	- 128,21	Based on decreased cost \$.028 per man per day.
Stewards Supplies	96.23	189.29	+ 93.06	
Passenger Cabin Equipment	16,28	6.50	- 9.78	
Fuel	4,163.69	5,245.36	+ 170.40	Based on increased consumption of 5 lbs. per mile. Carried 3 cargoes more coal than in season 1904.
Engineers Lubricants	56.69	68.92	- 1.72	Hased on decreased cost of \$.00006 per mile run.
Engineers Supplies	49.80	102.87	+ 53.07	
Boiler Repairs	36.09	66,87	+ 30.78	
Machinery Repairs	29.99	14.12	- 15.87	
Auxiliary Machinery Repairs		40.12	+ 40.12	
General Expenses	213.29	173.52	- 39.77	
Laying Up	967.32	829.98	- 137.34	Engineers Dept. did fitting out work while laying up in both years, but more time was required in 1904.

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2/16/06

ANNUAL REPORT OF STEAMER CADILLAC Cadillac

STEAMER CADILLAC. GENERAL OPERATIONS. The Steamer CADILLAC sailed from the port of Cleveland on first trip of season 1905 on April 15th, and finished discharging last cargo at Cleveland on December 2nd, having therefore been in commission 231 days. This Steamer made 25 round trips for the season, traveling 30,032 miles, and carrying 64,049 gross tons of freight. The CADILLAC was engaged during the entire season carrying cargoes of iron ore from Marquette to Lake Erie ports, going up light each time, with the exception of four trips when coal cargoes were taken for delivery at Marquette. The average rate of freight received on all cargoes carried during the season was \$.6673 per gross ton as compared with \$.6345 in preceding year. The average cost of operating per gross ton of freight carried was \$.5132 in 1905 and \$.5270 in 1904. The average net earnings per gross ton, therefore, are \$.1541 in 1905 as against \$.1075 in previous year. LGM THB 2-14-06 Annual Report_Mining_MS86100_2081_1905_2 of 3_133.tif

GENERAL REPAIRS.

There were no important repairs on Steamer CADILLAC during season 1905.

Some cracks developed in the boiler during the season, so that it was necessary to put on two butterfly patches on the center furnace protection plates and studs. It was also necessary to plug and calk cracks in various places. The cost of doing this work, together with some new tubes placed in boiler, was \$273.96.

A new 20 foot metallic life boat w as purchased to replace the old wooden boat on port side which had become worn out, at a cost of \$120.00.

Some new floor and bilge ceiling was put in at different places at a cost of \$113.48.

In the neighborhood of \$150.00 was expended during the year in chipping, scraping and painting in cargo hold.

There will be the usual run of repairs on this Steamer before she goes to sea another season.

In a general way it may be said that the floor and bilge ceiling in main hold will have to be repaired, which work will cost in the neighborhood of \$300.00.

The only other large item that is now known of will be repairs to the boilers. The center furnace has become useless and will have to be replaced with a new Morrison Suspended Furnace. Then there will have to be some repairs to the fronthead, throat sheet of combustion chamber, wrapper sheet of combustion chamber, lower part of backhead of combustion chamber, and a new patch on forward side of furnace to replace the one now there; also some minor repairs; the cost of this work will be in the neighborhood of \$1600 or \$1800. JHS LGM JHB

ACCIDENTS.

WHITE FISH BAY, APRIL 21, 1905, TRIP 1:

While the Steamer was lying in White Fish Bay, abreast of Parisian Island, stuck in the ice, at about 11:00 A.M.

April 21st, the northwest wind pushed the ice and the Steamer P.G.WALKER into the CADILLAC. The WALKER worked her engines ahead and the CADILLAC worked her engines back. Many boats were fast in the ice in all shapes and when the ice began to move it took the boats with it. The Steamer WALKER was pushed astern and down onto the CADILLAC. On June 26th the Gilchrist Transportation Co. advised the WALKER had been damaged on the port quarter by coming in contact with the CADILLAC, saying repair had been made at a cost of \$124.55.

We disclaimed any responsibility since which time we have heard nothing further in the matter.

CLEVELAND, JUNE 23, 1905, TRIP 8:

About the time the Steamer CADILLAC was leaving the port of Cleveland, the Second Engineer had one of his fingers caught in the air pump while tightening up a bolt, injurying the finger considerably, taking it off about $\frac{3}{4}$ of an inch from the end of the finger. The Second Engineer signed a release absolving the boat from any responsibility.

	1	9 0 4	1	9 0 5
	DAYS	PER CENT	DAYS	PER CENT
Time in port,	54½	31.3	891	38.7
Time sailing,	102	58.6	1254	54.2
Time lost by bad weather, fog and low water,	141/2	8.3	*134	5.7
Time lost waiting at Soo Canal and River,	11/2	.9	13/4	.8
Time lost by accidents,	11/2	. 9	11/4	. 6
Total time in commission,	174	100.0	231	100.0
Number of trips made,		20		25
Number of cargoes carried,		22		29

PERCENTAGES OF TIME IN COMMISSION IN PORT.

Season 1901 38.6

Season 1902 36.3

Season 1903....38.7

Season 1904....31.3

Season 1905 38.7

LGM THB 2-14-06

^{*} This includes $4\frac{1}{2}$ days time delayed by heavy ice on Lake Superior first trip of Season 1905.

OPERATING ACCOUNT.

RECEIPTS.	GROSS TONS	AMOUNT	FER GROSS TON FREIGHT CARRIES
25 cargoes iron ore from Marquette, 4 cargoes coal to Marquette,	57257	\$40079.90	\$.7000
(7607 net tons @ 35 cents)	6792	2662.58	•3920
29	64049	\$42742.48	\$.6673
DIS BURS EM ENTS.			
Extraordinary and General Repairs,	\$ 1261.91		
Ship Keeping and Winter Dockage,	59.00		
Fitting Out,	806.02		
Wages and Captain's Salary,	8199.27	1 10 10 10	
Captain's Expense Account,	59.89	13 973	
Tug Services,	105.76	The state of	
Handling Cargoes,	11451.40	2011	
Taxes,	381.58		
Marine Insurance,	2484.82		
Freight List Insurance,	29.94		
Mates Supplies,	291.51	200 50	
Provisions,	1257.65	A Second Post	
Steward's Supplies,	99.58		
Fuel,	4908.82		
Engineer's Lubricants, Engineer's Supplies,	146.63		
Boiler Repairs,	167.76		
Machinery Repairs,	65.77		
Auxiliary Machinery Repairs,	4.00		
General Expenses (Telegrams, Dues L. C. A., etc)	249.48		
Laying Up,	730.90	32873.96	• 5132
Net earnings,		\$ 9868.52	\$.1541
Add amount received from Insurance Co. in	1. T. S. J. S. S. S.	101111111111111111111111111111111111111	
excess of insurance claim,		5.67	
Making total net gain for season 1905,	133	9874.19	

NOTE: The cost per ton to operate after eliminating Extraordinary and General Repairs Account is \$.4935 in 1905 and \$.4913 in 1904.

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COMPARISONS.

	1904	1905
Days in commission,	174	231
Number of miles traveled,	24674	30032
Number of trips made,	20	25
Number cargoes freight carried,	22	29
Gross tons freight carried,	48118	64049
gross tons freight carried,	TOLLO	04013
Average rate freight per gross ton,	\$.6345	\$.6673
Average cost to carry per gross ton freight,	• 5270	• 5132
Net earnings per ton freight carried,	\$.1075	\$.1541
Cost per ton to operate after eliminating Extra. & Gen. Reprs	. \$.4913	\$.4935
Gross Receipts,	\$30528.90	\$42742.48
Gross Expenditures,	25355.09	32873.96
Net earnings,	\$ 5173.81	\$ 9868.52
no outhings,	9 5210002	4 20000 52
Percentage of operations to earnings,	83.0	76.9
Gross earnings per mile traveled,	\$1.2373	\$1.4232
Operating expenses per mile traveled,	1.0276	1.0946
Net earnings per mile traveled,	\$.2097	\$.3286
Gross earnings per day,	\$175.45	\$185.03
Operating expenses per day,	145.72	142.31
Net earnings per day,	\$ 29.73	\$ 42.72
no barnings per day,	9 23010	9 22012
Expenses per day excluding cargo handling costs,	\$96.79	\$92.74
Expenses per day exclude cargo hdlg. costs and Ex. & Gen. Rprs.	\$86.95	\$87.27
Cost provisions per man per day (excluding extra meals)	\$.296	\$.327
Average 1bs. coal consumed per hour steamed,	1119	1333
Average lbs. coal consumed per mile steamed,	111	133
Average cost coal consumed per mile steamed,	\$.1336	\$.1614
Average cost oil consumed per hour steamed,	\$.0283	\$.0373
Average cost oil consumed per mile steamed,	\$.00280	\$.00373
Average wages paid per day while in commission,	\$30.52	\$30.23
Average ore cargo from Lake Superior,	2240	2290
Average days per trip going up light to Marquette,	71	8-1
Average number miles per hour - light,	10.80	1
Average number miles per hour - loaded,		10.70
General average number miles per hour,	9.58	9.52
	10.09	
Average draft water on ore cargoes from Lake Superior,	(15'10"Ford	(16'1"Ford
	(16° 6" Aft	(16'10"Aft
Average mean draft water on ore cargoes from Lake Superior,	16: 2"	16'6"

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COMPARTSON OF ITEMS OF :-:-:-: DISBURSEMENTS.

	1904	1905	+ OR -	REMARKS
Extraordinary & General Repairs	\$1,712.77	\$1,261.91	-\$ 450.86	In 1904 hatches equipped with new fasteners costing \$373.50, and new set Tarpaulins for 11 hatches \$223.55.
Ship Keeping & Winter Dockage	30.00	59.00	+ 29.00	
Fitting Out	454.09	806.02	+ 351.93	A larger purchase of supplies necessary in all departments, and more time required for fitting out in 1905.
Wages & Captain's salary	6,551.13	8,199.27	+ 1,648.14	Rate of wages was same for both years. Season 1905 was 57 days longer than 1904.
Captains Expense Account	39.16	59.89	+ 20.73	
Tug Services	340.83	105.76	- 235.07	In 1904 ore cargoes were discharged at Cleveland nearly every trip, 6 cargoes being unloaded at Wheeling Dock
Handling Cargoes	8,512.75	11,451.40	+ 2,938.65	Rate for unloading ore increased 1¢ per ton in 1905, and steamer carried 12,457 tons more ore than in 1904.
Taxos	321.09	381.58	+ 60.49	Rate of taxes increased from \$2.26 in 1904 to \$2.69 in 1905.
Marine Insurance	2,132.39	2,484.82	+ 352.43	The valuation of Steamer was same for both years. The lessened premium in 1904 is due to rebate received
Freight List Insurance	50,00	29.94	- 20.06	account lay-up returns for short season.
Mates Supplies	109.46	291.51	+ 182.05	Season 1905 was 57 days longer than 1904.
Provisions	866.22	1,257.65	+ 116.56	Based on increased cost of \$.031 per man per day.
Stewards Supplies	75.11	99.58	+ 24.47	
Passenger Cabin Equipment	1.75		1.75	
Fuel	3,298.32	4,908.82	+ 792.00	Based on increased consumption of 22 lbs. per mile run. Carried 2 more cargoes coal than in season 1904.
Engineers Lubricants	69.22	112.27	+ 27.92	Based on increased cost of \$.00093 per mile run.
Engineers Supplies	55.92	146.63	+ 90.71	
Boiler Repairs	20.46	167.76	+ 147.30	In 1905 necessary to patch and calk cracks in boiler during running season.
Machinery Repairs	1.75	65.77	+ 64.02	
Auxiliary Machinery Repairs	14.83	4.00	- 10.83	
General Expenses	151.88	249.48	+ 97.60	In 1905 Chief Engineer Kalb received first prize for most economical fuel consumption in 1904.
Laying Up	545.96	730,90	+ 184.94	More time and more supplies than preceding year.

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ANNUAL REPORT OF STEAMER CHOCTAW 1905. Choctans

STEAMER CHOCTAW. GENERAL OPERATIONS. The Steamer CHOCTAW sailed from the port of Ashtabula on first trip of season 1905 on April 10th, and arrived at Cleveland, ready to go into winter quarters, on December 12th, having therefore been in commission 246 days. This Steamer was engaged in the transportation of iron ore from Lake Superior to Lake Erie ports, and of the cargoes carried, 24 were loaded at Marquette and 1 at Ashland. The upbound trips were made traveling light, with the exception of seven times, when coal cargoes were taken for delivery at Marguette and Ashland. The CHOCTAW therefore made 25 round trips for the season, carrying 32 loads, or 90980 gross tons of freight. The average rate of freight received on all cargoes carried during the season was \$.6596 per gross ton as compared with \$.6558 in previous year. The average expenses per gross ton of freight carried was \$.4497 in 1905 and \$.5110 in 1904, or a decreased cost of \$.0613 per ton. The less cost in 1905 is due to the increased length of season which enabled steamer to carry 32,947 gross tons more freight than in season 1904. This increased freight therefore gives a more favorable distribution of fixed charges in cost per ton. The average net earnings per ton of freight carried are \$.2099 in 1905 and \$.1448 in 1904. LGM THB 2-14-06 Annual Report_Mining_MS86100_2081_1905_2 of 3_141.tif

STEAMER CHOCTAW. GENERAL REPAIRS. During winter 1904-5 it was necessary to chip, scrape and paint wherever rust had developed in cargo hold. This work cost in the neighborhood of \$250.00. To renew the floor and bilge ceiling where it was worn and broken in various places in cargo hold, it was necessary to put in 2 inch and 3 inch oak on top of hemlock This renewal cost \$332.40. timber. The lower part of back sheet of combustion chamber port boiler was badly corroded and cracked at the staybolt holes. This part of boiler was cut out to a depth of 28 inches from the bottom, the full width of the combustion chamber, and then fitted with a new plate and all screw staybolts in way of new plate were renewed 1/8 inch larger than the old staybolts. It was necessary in doing this work to cut a new handhole in backhead of boiler to which a new cover was fitted in the usual way. The contract for doing this work was \$326.55. New patent flue blowers made by the Power Specialty Co., Detroit, have been installed on the CHOCTAW. - There are four of these, two in each boiler. The price of the flue blowers was \$50.00 each. The cost of cutting holes in boilers for installation, with the necessary fittings, therefore, makes the total cost of flue blowers installed \$392.23. Outside of the usual run of repairs there are two principal items that will have to be given attention before the opening of navigation another season. The wood hatch covers on this boat have apparently not been renewed since the Steamer came out. While there have been much repairs on them from time to time they are now in a condition there they must be renewed. The cost of the

GENERAL REPAIRS - 2.

new hatch covers will be about \$50.00 each, or a total cost for the 7 hatches of about \$350.00.

The boilers of this Steamer have given trouble for several years. They have been nursed along from year to year with such repairs as would bring them through the season, but it has now become necessary that some important repairs be made. On the starboard boiler lower part of throat sheet under combustion chamber to be renewed; lower part wrapper sheet to be renewed; lower part of backhead of combustion chamber to be renewed, and some patches on starboard furnace. Port boiler, lower part of fronthead to be renewed, 2 new Adamson Furnaces to be installed, lower part throat sheet combustion chamber to be replaced with new; lower part of wrapper sheet to be replaced with new. The above work will necessitate the taking out of the frontheads, which will have to be replaced This work will cost in the neighborhood and re-riveted. of \$3000.00.

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ACCIDENTS.

WHITE FISH BAY, APR. 17, LAKE SUPERIOR, APR. 22, 1905, TRIP 1:

The Steamer CHOCTAW participated in the troubles experienced by most vessels on their first trips in encounters with ice on Lake Superior. This Steamer had left Ashtabula on the 10th day of April bound for Marquette. proceeded in the regular manner until about 10:55 the morning of April 17th, when she was about four miles west of Point Iroquois in White Fish Bay, and was proceeding under double check in the channel in the ice which had been cut by the fleet ahead of her. A field of ice which had been broken loose by the Steamer REES passing to the windward of the CHOCTAW, drifted down into the open track and the CHOCTAW struck it with her bow, cracking and damaging several frames and plates. It was necessary to proceed, which she did with every care possible, working her way slowly along the track in the ice made by the vessels ahead until she caught up with them. Her bow was then put in the ice to hold her and she lay at this point until about 9:40 P.M., when the wind having shifted to the southwest, a large ice floe suddenly began to move and closed up the track made by the vessels. This ice came down with terrific force, catching the CHOCTAW between the solid field of ice on her starboard side and the moving field on her port side, doing damage to plates and frames on both sides of the vessel.

The Steamer lay in the ice until about 3:45 P.M. of April 19th, when the ice having moved sufficiently to release the fleet, and an examination having shown that it was probably safe to continue, the Steamer proceeded on her voyage to Marquette. Besides the damage done to the hull at this time, the wheel also was slightly damaged, and the H.P. connecting rod bent. Temporary repairs were made at Marquette.

ACCIDENTS - 2.

The Steamer started on her return trip, and was about four miles east of Marquette at about ten o'clock the night of April 22nd, running along at full speed, when ice was sighted directly ahead. Signal was given to the engineer to stop and reverse the engine to clear an iceberg on the port bow, and in doing so the Steamer struck another and smaller one on her starboard bow, cracking a plate and several frames. The vessel proceeded to Lake Erie, where an examination was made of the damage sustained on this trip. It was found that three starboard bow plates and four port bow plates between the 13 and 16 foot marks were badly stove in, and the frames and reverse frames in the way of these plates broken and distorted; also one bulb angle stringer fractured, one breast hook buckled, and one panting beam and bracket plate crushed. One bucket on the propeller had a corner broken off, and the H P connecting rod was bent 7/8" out of alignment. The cost of the repairs amounted to \$1638.43 besides the loss The repairs were made at Cleveland, of time making same. taking five days time. The claim was that of Particular Average and was taken up by the underwriters of the Steamer.

CLEVELAND, 0., MAY 22, 1905, TRIP 3:

The Steamer was coming out of the river bed, light, without a tug, when she struck a sand scow lying on the east side of the main river just outside of Tucker's Dock. The damage to the scow consisted of 22 feet of bulwark broken, 3 stanchions pulled out, and 1 broken. The damage was repaired by ourselves at a cost of \$11.92.

CLEVELAND, O., JULY 5, 1905, TRIP 8:

While the CHOCTAW was discharging her cargo of ore at the Cleveland Furnace Co. dock, the hoister running the clam hoist ran the carriage too far astern, so that the apron

ACCIDENTS - 3.

of the hoisting machine came against the smokestack of the CHOCTAW with such force as to shove it out of plumb 14 inches, breaking whistle pipe and exhaust pipe, damaging a jacket umbrella, and denting the stack in several places. The cost of this repair was \$65.74 and was borne in full by the management of the dock.

CLEVELAND, O., JULY 6, 1905, TRIP 9:

While the Steamer was being towed out of Cleveland harbor by the Tug Kennedy, on going around collision bend, the tug's stern by having a short line bumped the CHOCTAW on the port bow with sufficient force to start two rivets and to dent plating slightly at No.3 strake. The damage was so slight that it was not repaired and no claim was sent to the Great Lakes Towing Co.

CLEVELAND, O., JULY 26, 1905, TRIP 11:

The Steamer was being unloaded at the C & P Dock, Cleveland. The engineer in operating the clam shells bent and did some damage to the auxiliary steam pipe and fire line. In making the repairs it was found that some of the piping was badly decayed and defective, and that certain of the covering would have to be renewed. The total cost was \$72.49. It was decided that if the dock company would pay one-third of this amount, \$24.16, that it would be an equitable division. This was agreed to. The balance of the cost of the repair was charged to the boat.

ERIE, PA., SEPTEMBER 2, 1905, TRIP 16:

The Steamer was backing out of the E.& P.Slip, Erie, and around the bow of the Steamer JOHN OWEN, which was made fast to the east side of the slip waiting to be unloaded. The wind, which was blowing fresh at the time, caused the walestrake

ACCIDENTS - 4.

on the bow of the CHOCTAW to rub against the wale and bulwarks on the starboard side of the OWEN. No damage was done to the CHOCTAW by the impact. On examination the following damage was found to have been done the OWEN: One bulwark plate, starboard side, abreast No.5 Hatch, shoved inboard, the oak rail sprung and the rail angles bent. The cost of repairing the OWEN amounted to \$60.76, which amount becomes a claim on the underwriters of the CHOCTAW.

PRESQUE ISLE DOCK, SEPTEMBER 5, 1905, TRIP 16:

At about 12:35 P.M. while the CHOCTAW was lying on the south side of the dock at Presque Isle, the Steamer FRANCES WIDLAR came up to the dock, and in doing so struck the CHOCTAW on the starboard side with sufficient force to dent in one plate, break one frame and bend several others abreast of the forward timber head between loaded line and deck. Repairs were made at a cost of \$173.86 which amount will be taken over by the owners of the Steamer FRANCES WIDLAR.

AMERICAN SOO LOCK, OCTOBER 20, 1905, TRIP 21:

The Steamer was bound up for Marquette. She had arrived at the dock below the small lock at Sault Ste.Marie. The wind was blowing a gale, and the stern of the CHOCTAW lapped over to the dock so as to cause the wheel to strike the pier with sufficient force to break two buckets - about six inches off the corner of one and about ten inches off the corner of the other. The broken blades were taken off and replaced with two extra ones carried on board. These in turn will be replaced with new ones which will cost about \$150.00.

This cost will not be sufficient to make a claim on the underwriters of the CHOCTAW.

ACCIDENTS - 5.

TOLEDO, DECEMBER 11, 1905, TRIP 25:

The Steamer while unloading her iron ore cargo at the Hocking Valley Dock, Toledo, sustained slight damages to the coamings of several of the hatches. These will be straightened up when general repairs are made, but the cost will be so slight that no claim will be made on the dock company.

	1	9 0 4	1	9 0 5
	DAYS	PER CENT	DAYS	PER CENT
Time in port,	542	30.8	1003	40.9
Time sailing,	99	55.9	1173	47.9
Time lost by bad weather, fog and low water,	6	3.4	*183	7.7
Time lost waiting at Soo Canal and River,	11/2	. 9	31/4	1.3
Time lost by accidents,	16	9.0	51/2	2.2
Total time in commission,	177	100.0	246	100.0
Number of trips made,		18	1	25
Number of cargoes carried,	Market :	20		32

PERCENTAGES OF TIME IN COMMISSION IN PORT.

Season 1901 40.9

Season 1902....38.8

Season 1903....42.3

Season 1904....30.8

Season 1905....40.9

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^{*} This includes 9 days time delayed by heavy ice on Lake Superior first trip Season 1905.

OPERATING ACCOUNT.

RECEIPTS	GROSS TONS	AMOUNT	PER GROSS TON FREIGHT CARRIED
24 cargoes iron ore from Marquette, 1 cargo iron ore from Ashland,	72706 2992	\$50894.20 2244.00	\$.7000 .7500
6 cargoes coal to Marquette: (12136 net tons @ 35 cents) (2528 net tons @ 70 cents)	13093	6017.19	.4595
1 cargo coal to Ashland: (2452 net tons @ 35 cents)	2189	858.25	.3920
32	90980	\$60013.64	\$.6596
DISBURSEMENTS.	A		
Extraordinary and General Repairs,	\$ 1754.63		
Ship Keeping and Winter Dockage,	65.92 523.97		
Fitting Out,	9592.89		
Wages and Captain's Salary,	55.94		
Captain's Expense Account,	348.67		
Tug Service, Handling Cargoes,	15253.40		
Taxes.	463.12		
Marine Insurance,	3072.39		
Freight List Insurance,	57.11	12 BUSAUS	
Mates Supplies,	504.22		
Provisions.	1873.96	S. C.	
Steward's Supplies,	156.61		The second second
Fuel.	5454.67		
Engineer's Lubricants,	109.07	The sales	
Engineer's Supplies,	170.69		
Boiler Repairs,	139.29	100000	
Machinery Repairs,	109.68	700	
Auxiliary Machinery Repairs,	8.01		
General Expenses (Telegrams, Dues L. C. A., &c.)	164.18		
Laying Up,	1037.00	40915.42	.4497
Net earnings,		\$19098.22	\$.2099
Less amount charged to Owners Propn. of Loss,		141.41	
Making total net gain for Season 1905,		\$18956.81	

NOTE: The cost per ton to operate after eliminating Extraordinary and General Repairs Account was \$.4304 in 1905 and \$.4916 in 1904.

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STATEMENT SHOWING ITEMS CHARGED TO OWNERS PROPORTION OF LOSS DURING SEASON 1905.

OOLLISION WITH SAND SCOW AT CLEVELAND, MAY 22, 1905: While coming out of Old River Bed on this date without a tug the CHOCTAW collided with a sand scow owned by Mr. John Stanton, laying on east side main river. About 22 feet of bulwarks were broken and 3 stanchions pulled out of place. The cost of repairing the damage to scow was, ACCIDENT IN ICE, APRIL 17, 1905: \$389.98 Deductible Average, Less amt. allowed by Ins. Co.for wages master, Chief Eng., &c. \$171.20 Less amt. allowed by Ins. Co. for telegrams, 6.12 182.57 207.41

BREAKING BUCKETS ON PROPELLOR WHEEL, OCTOBER 20, 1905:

During heavy gale on this date the CHOCTAW'S stern lapped over the dock at Soo Canal. The force of the wind caused the wheel to strike the pier with such force as to break two blades on wheel. \$143.13 New blades were ordered at a cost of, Less credit received for old propellor blades as scrap iron, 11.31 131.82 (Not amounting to more than a deductible average) TOTAL, \$351.15

STRANDING ON MANITOU ISLAND, SEPTEMBER 7, 1904: CREDITS: 20% rebate received from Great Lakes Towing Co. on account \$374.00 wrecking service, Bill of Upson-Walton Co.for new awning (Bill rendered but goods not purchased), 20.30 34.36 Telegrams and telephones, 40.00 Bill for meals furnished men, Amount allowed for tug service in excess of bill paid (20% 4.13 rebate to us), 101.75 Commission on Disbursements, Interest on Disbursements, 132.54 \$707.08

DEBITS: \$389.91 Less deductible average, Less sundry items in general adjustment, 74.43 18.00 Less amount not allowed for watchman's wages, Less amount not allowed in bill of Upson-Walton Co.

(value old junk), 15.00 497.34 209.74

Balance charged to Owners Proportion of Loss,

Less amt. allowed by Ins. Co. for discount,

\$141.41

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COMPARISONS.

	1904	1 9 0 5
Days in commission,	177	246
Number of miles traveled,	25901	30411
	18	25
Number of trips made,	20	32
Number cargoes freight carried,		90980
Gross tons freight carried,	58033	90980
Average rate freight per gross ton,	\$.6558.	\$.6596
Average cost to carry per gross ton freight,	.5110	.4497
Net earnings per ton freight carried,	\$.1448	\$.2099
Cost per ton to operate after eliminating Ex. & Gen. Rprs.	\$.4916	\$.4304
	\$38058.79	\$60013.64
Gross Receipts,		AND DESCRIPTION OF THE PROPERTY OF THE PROPERT
Gross Expenditures,	29654.66	40915.42
Net Earnings,	\$ 8404.13	\$19098.22
Percentage of operations to earnings,	77.8	68.2
Gross earnings per mile traveled,	\$1.4694	\$1.9734
Operating expenses per mile traveled,	1.1449	1.3454
Net earnings per mile traveled,	\$.3245	\$.6280
	A02 = 00	Anso or
Gross earnings per day,	\$215.02	\$243.96
Operating expenses per day,	167.54	166.32
Net earnings per day,	\$ 47.48	\$ 77.64
Expenses per day excluding cargo handling costs,	\$110.04	\$104.32
Expenses per day exclud. cargo hdlg. costs and Ex. & Gen. Rprs.	\$103.70	\$97.18
Cost provisions per may per day (excluding extra meals)	\$.438	\$.413
Average 1bs. coal consumed per hour steamed,	1461	1607
Average 1bs. coal consumed per mile steamed,	134	149
	\$.1637	\$.1794
Average cost coal consumed per mile steamed,		
Average cost oil consumed per hour steamed,	\$.0388	\$.0386
Average cost oil consumed per mile steamed,	\$. D0357	\$.00358
Average wages paid per day while in commission,	\$34.05	\$33.19
Average ore cargo from Lake Superior,	2974	3028
Average days per trip going up light to Marquette,	8	71
Average days per trip going up light to head Lake Superior,	81/2	
Average number miles per hour - light,	11.88	11.87
Average number miles per hour - loaded	10.22	10.23
General average number miles per hour,	10.89	10.77
		(17'11"Ford
Average draft water on ore cargoes from Lake Superior,	(18'4" Aft	
		(18'6" Aft
Average mean draft water on ore cargoes from Lake Superior,	18'	18'2"

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COMPARISON OF ITEMS OF DISBURSEMENT.

National Property of the Control of	1904	1905	+ OR -	REMARKS
Extraordinary & General Repairs	\$1,122.46	\$1,754.63	+\$ 632.17	In 1905 installed Patent Flue Blowers at a cost of \$392.23
Ship Keeping & Winter Dockage	129.76	65.92	- 63.84	On account shipmasters strike in Spring 1904, steamer layed a longertime at winter dock.
Fitting out	969.98	523.97	- 446.01	Less time required for fitting out in 1905, and less expenditure for repairs.
Wages & Captains Salary	6,937.83	9,592.89	+ 2,655.06	Season 1905 was 69 days longer than 1904. Rate of wages remained the same to th years.
Captains Expense Account	45.62	55.94	+ 10.32	
Tug Services	161.45	348,67	+ 187.22	Steamer made 7 trips more in 1905 than in 1904.
Hendling Cargoes	10,177.40	15,253.40	+ 5,076.00	Carried 22,164 tons more iron ore in 1905. The rate for unloading increased 1 perton in 1905.
Taxes	403.42	463.12	+ 59.70	Rate of taxes increased from \$2.26 in 1904 to \$2.69 in 1905.
Marine Insurance	2,431.66	3,072.39	+ 640.73	Valuation of steamer was the same for both years. The material decreased premium in 1904 is due to rebate received account lay-up returns for short season.
Freight List Insurance	62.15	57.11	- 5.04	is due to repate received account tay-up returns for short season.
Mates Supplies	193.68	504.22	+ 310.54	In 1905 the purchase of rope exceeded 1904 by \$227.24.
Provisions .	1,309.03	1,873.96	- 111.15	Based on decreased cost of \$.025 per man per day.
Stewards Supplies	133.12	156.61	+ 23.49	
Fuel	4,319.31	5,454.67	+ 547.20	Based on increased consumption of 15 lbs. per mile run . Carried 5 cargoes more coal than in season 1904.
Engineers Lubricants	92.37	109.07	+ .30	Based on increased cost of \$.00001 per mile run .
Engineers Supplies	94.59	170.69	+ 76.10	
Boiler Repairs	38.16	139.29	+ 101.13	
Machinery Repairs	57.63	109.68	+ 52.05	
Auxiliary Machinery Repairs	20.19	8.01	- 12.18	
General Expenses	178.19	164.18	- 14.01	
Laying up	776.66	1,037.00	+ 260.34	A longer time laying up in 1905 and a larger expenditure necessary for repairs.

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2/16/06

ANNUAL REPORT STEAMER ANDASTE 1905. andaste

STEAMER ANDASTE. GENERAL OPERATIONS. The Steamer ANDASTE sailed from the port of Ashtabula on first trip of Season 1905 on April 10th, and finished discharging last cargo at Cleveland, December 16th, having therefore been in commission 250 days. On account of the heavy ice encountered on Lake Superior and Soo River, first trip, the ANDASTE was delayed 102 days. This Steamer traveled a total distance of 28,610 miles, carrying 83,056 gross tons of freight. Altogether 23 round trips were made for the season, Steamer traveling up light every time with the exception of six trips, when coal cargoes were taken for delivery at upper lake ports. The average rate of freight received on all cargoes carried during the season was \$.6566 per gross ton as against \$.6603 in preceding year. The average cost per gross ton of freight carried was \$.4816 in 1905 and \$.5327 in 1904, or a decreased cost of \$.0511 per ton in 1905. The ANDASTE was in commission 79 days longer in season 1905 as compared with 1904, which enabled Steamer to carry 26,496 tons more freight. This increase in freight, therefore, makes a more favorable distribution of operating cost per ton in 1905. The average net earnings per gross ton of freight carried are \$.1750 in 1905 and \$.1276 in previous year. LGM THB 2-16-06 Annual Report_Mining_MS86100_2081_1905_2 of 3_155.tif

GENERAL REPAIRS.

The General Repairs on this Steamer were about \$1200.00 larger in 1905 than the previous year. Among the principal items the following may be mentioned.

The original floor ceiling in the ANDASTE consisted of 1" hemlock sheeting with 3" oak planking under the hatchways and 2" oak planking outside the hatchways. The ceiling under the hatches was found to be in a badly worn and splintered condition. In renewing this ceiling the "Z" frames on tank top were found to be badly bent. These were straightened up and an extra support to give strength to the frames of 2 x 6 pine timbers were placed on same. This 2 x 6 pine was covered with 1" hemlock sheeting, and then laid with 3" oak on the outside of hatchways where the ore buckets had broken through the planking. This repair cost \$496.00.

The following four items of repair aggregate a cost of \$76.77:

Bulwarks forward of fueling hatch removed and replaced with new rail;

Coal bunker hatch in 6 sections was renewed; Cornice around pilot house broken by repeated contact with fueling buckets repaired;

Promenade deck in various places had become decayed, and was renewed where necessary.

The old deck in crank room had done service since the Steamer came out. This deck was badly decayed and renewal became absolutely necessary. This work cost \$113.40.

The Local Inspector at Buffalo directed important changes in the boat davits. The old ones were taken down, sent to the blacksmith's shop, heated and bent and braces put on. New iron plates were provided for each davit extending out 3 feet from cabin roof and attached thereto, this being done in order to swing the boats clear of the sides of ship which could not be done before. Knees had to be riveted to boiler house where the boat sockets rested. This work cost \$253.00.

GENERAL REPAIRS - 2.

The boilers on this boat have had to be nursed along for the past four or five years. Repairs were made during the winter in which attention was given to the inner expansion rings starboard furnace at the place where the bridge wall casting rests. The old butterfly patch at this point had to be cut out and replaced with new, carried to a point 6 inches higher on each side than before, which work cost \$126.03.

The lower part of back sheet of combustion chamber port boiler was badly corroded and cracked at the staybolt holes. Same was cut out to a depth of 28 inches from the bottom all the way across the combustion chamber, and a new plate fitted in, it being necessary to renew all staybolts in the way of this plate. This work cost \$349.08.

During the early part of November when the ANDASTE was at Buffalo, the Inspector of that district came aboard and made further examination of the boilers. It was found that all the lower part of combustion chamber in port boiler was badly deteriorated, and the backheads in bad shape. The starboard boiler also showed similar conditions. Numerous patches needed to be gone over, and the Inspector refused to allow the boat to go out until such repairs were made, and then her steam was cut down to 135 lbs. This work cost \$300.00.

A new set of Wilford tarpaulins were put on the boat at a cost of \$197.15

In addition to the general run of work necessary to be done before the Steamer will be fit for operation the coming season, will be the renewal of the hatch covers. These covers evidently have not been renewed since the boat came out and are now in such shape that they will have to be renewed. They will cost about \$50.00 per cover or probably \$350.00 for the seven hatches.

ANDASTE. STEAMER GENERAL REPAIRS - 3. That portion of the bilge ceiling which was repaired the preceding season will have to have attention again in a number of places; also considerable repair to the bilge ceiling, and new covers for manholes. This will cost from \$250.00 to \$300.00. In the inspection of the boilers above referred to the Inspector advised that in his opinion these boilers should Mr. Hynd after making examination of the no longer be used. boilers reports as follows: "Examination of boilers shows furnaces in very bad condition. All the expansion rings are badly cracked and have already been patched, the patches on many of them extending above the gratebars and the cracks now extending further than these patches. In the combustion chambers the throat sheets, back sheets and wrapper sheets are badly corroded and pitted and the backhead badly pitted at turn of the flange on the inside, and considerable deterioration by corrosion on the outside of the head flange; also lower part of frontheads checked on inside at turn of flange. To put these boilers in good condition would require the renewal of furnaces, lower part of combustion chambers, lower part of front and backheads, and the tubes. The local inspector at Buffalo having also taken exception to the shells of the boilers being somewhat pitted, it would be necessary to renew the defective parts of the shells or fit re-informing pieces over them. To make such extensive repairs to the boilers in the proper manner, would require that they be removed from the vessel and taken to boiler shop in any case, and after full consideration it was decided that it would be better to renew the boilers entirely. In considering whether it would be advisable to make any change in the boilers when they were being renewed the following points were considered: That with two boilers of same dimensions as before, the same saddles, breeching and stack, all boiler fittings and pipings replaced as before, while if the dimensions of the boilers were changed all of such parts would require to be renewed, and to use one boiler with forced draft would also require that the bunker bulkheads should be moved forward to give proper width of firehold, and a new firehold floor built, and also some changes on the deck above. The additional cost of renewing the boilers on this plan over replacing them of the original dimensions was estimated at at least \$3000.00, and as the original plant had been a fairly economical one it was finally decided to replace the boilers as before.' Accordingly new boilers will be installed by the American Ship Building Co. at \$12,600.00. Annual Report_Mining_MS86100_2081_1905_2 of 3_158.tif

ACCIDENTS.

IN LAKE SUPERIOR, APRIL 28, 1905, TRIP 1:

The Steamer had left the port of Marquette the weather being a little hazy. When about half an hour out those navigating the vessel could see only about a mile off. The captain and the mate were both on the pilot house keeping a sharp lookout. Suddenly a bank of fog rolled up in the path of the vessel and after a little time a field of ice showed up. The engines were stopped and backed and the vessel checked to slow speed, when suddenly she struck an iceberg which was projecting up about four feet above the water. The steamer sustained a severe crushing blow on both the port and starboard sides, cracking 7 plates on the port bow, buckling two plates on the starboard bow, cracking 9 frames on the port bow, and 2 frames on the starboard bow. Temporary repairs were made to the vessel at Sault Ste-Marie and the Steamer proceeded on to Buffalo, where, after discharging her cargo, repairs were made. The total amount of the claim made on the underwriters of the vessel on account of this accident was \$3784.14.

IN LAKE HURON, JUNE 18, 1905, TRIP 5:

The Steamer was bound up Lake Huron, being about 12 miles off from Detour, when suddenly her wheel threw one of its buckets, leaving nothing but the stude and nuts on the hub. An extra blade carried on board was put on in place of the lost blade, and a new blade purchased to take the place of the extra blade, the cost of which was \$68.10, which amount becomes chargeable to Owners' Proportion of Loss.

POE LOCK, SAULT STE-MARIE, AUGUST 13, 1905, TRIP 12:

This accident is not of much consequence, but because of its interest a full report is made here.

STEAMER ANDASTE. ACCIDENTS - 2. The Captain's protest reads as follows: "Nothing unusual occurred until the ANDAST# arrived in the Poe Lock of the Soo Canal, on August 13, 1905, at 3:45 P.M. The ANDASTE was made fast on the south side of the lock and when the lock was filled and the upper gates opened, a gateman signalled the captain to come ahead, and the captain signalled his engineer to work the engines ahead. The engine was started and this caused hot water and steam from the condenser to leave the condenser exhaust. This exhaust was just about level with the dock line of the lock, and the hot water and steam from the exhaust poured onto the sidewalk along the edge of the lock. There were several people standing in the vicinity, and two of them, one the lock lineman, and another a woman, were scalded by the steam and hot water. continued working our engine ahead and went out of the lock without further difficulty." Mr. Joseph Ripley, General Superintendent at the Locks, reported the matter to Col. E. L. B. Davis, as follows: "I have the honor to report that on Sunday afternoon, August 13, 1905, when Steamer ANDASTE was ready to leave the Poe Lock upbound, the captain signalled by one short blast of the whistle to let go the lines. Lineman Robt. J. McKee was in the act of releasing her stern line when the engineer let the condenser go. The sudden and violent flow of hot water and steam from the condenser knocked Miss Estelle Bailey over onto the grass, scalding her hand and ankle, and scalded McKee's legs so badly that blisters two or three inches in diameter formed between his knees and ankles. Dr. Le Blanc was called and dressed McKee's wounds, after which he was taken home in an exhausted condition. Lineman Robt. J. McKee is still confined to his house and it will probably be about two weeks before he will be able to resume his duties on the Foe Lock. Mrs. K. A. Bailey under date of August 26, 1905, makes statement relative to injuries sustained by her daughter, and claims \$50.00 in satisfaction therefor. If the captain of the ANDASTE had waited until the boat's lines were released before signalling to go ahead, Lineman McKee would not have been scalded; or if the engineer had started his engine slowly and kept the live steam out of the condenser water neither McKee or Miss Bailey would have been injured, though their clothes might have been damaged somewhat. The stern of the boat was at the east end of Poe Lock on south side, between the gate engine shelters, and the lock wall was flooded with water from the condenser, and the grass was killed 30 feet from the boat by that part of the overflow water that crossed the lock walls. Under the circumstances it would seem to me that the owners of the ANDASTE should pay Mrs. Bailey for the injuries sustained by her daughter, and that Lineman McKee should be paid for expenses of medical attendance and medicine. As McKee has not yet recovered his medical expenses can not be determined. " Supervising Engineer Alexander Hynd advises on this question as follows: "Your favor of September 15th is received with

ACCIDENTS - 3.

enclosed sorrespondence relating to injuries to Robt.McKee and Estelle Bailey, at Sault Ste-Marie, August 13, 1905, and in reply would say that when an engine with attached air pumps has been standing for a little time, under steam, and the injection valve necessarily closed, and the drain valves on they cylinders necessarily open to keep them clear of water, the water which is in the conderser will generally become somewhat heated, and then when steam is turned into the engine and blows from the drain valves into the condenser, before the engine has moved to cause the inflow of cool injection water the temperature will be raised considerably, so that when the engine does move the water first discharged from the air pump is generally of very high temperature and is sometimes accompanied by uncondensed steam until the engine has made a few strokes and the inflow of condensing water has reduced the temperature to the normal point.

In reply to the second question I would say that live steam is not turned into the condenser except as indicated above as necessary in the operation of the engine."

The correspondence was then sent to Messrs. Hoyt, Dustin &

Kelley, who made the following reply:

"Your letter of Sept.12th enclosing correspondence in connection with the above matter, duly received. It is difficult to give any definite opinion upon the question of liability, without knowing two facts which do not appear among the papers submitted.

1st: Was it necessary or usual on this or other steamers, in starting the engines, to throw out water in the manner in which it was thrown out on this occasion?

2nd: Was the water thus thrown out of the condenser hot in the first instance, or was it heated by the engineer throwing in live steam when he started his engines?

If the throwing out of water was a necessary incident to starting the engines, and the water was already heated in the condenser, and this temperature was also a thing which might have been expected in starting the engines, then I do not see how any possible liability should attach to the boat. I do not think that the mere signalling of the engines to go ahead as soon as the lines were let go would make a case of negligence, because, if the expulsion of hat water was to be expected, the lineman should certainly have looked out for himself and the canal officials should have kept strangers out of danger.

If, on the other hand, the expulsion of hot water was not usual or necessary, but only occasional under such circumstances, or, if the engineer unnecessarily turned live steam into the condenser, and then let it go, knowing that it would throw hot water over such a public place as the locks at the Soo, I am inclined to think there would be a case of liability.

Between these two extremes there are circumstances which might make the company liable as to one of the claimants, and not the other. For instance, McKee, being familiar with the liability of such expulsion of water might be held to a higher degree of care than the stranger. On the other hand, the stranger, if not warned of the danger by the canal officials, and if plainly in sight of those in charge of the steamer, might possibly have a ground for complaint which would not lie in the mouth of a man familiar with such conditions.

STEAMER ANDASTE. ACCIDENTS - 4. My own idea is that the amount involved is really too small to warrant any contest. This is particularly the case with McKee. As a lineman around the locks at the Soo, he undoubtedly has it in his power both individually and through fellow members of the canal force who will sympathize with him, to cause some embarrassment to your vessels in locking through. It is certainly better to have the good will of the canal officials than their ill will, and I should be inclined to recommend that some kind of an adjustment of McKee's claim be made on the basis of paying his doctor's bills, etc. I feel more doubt in the case of Miss Bailey, especially as to the injury to her clothing. Even in her case, however, if the matter can be gotten out of the way for a small sum I should be inclined to advise a settlement." Acting on their advice a settlement was made with Mrs. K. A. Bailey for \$50.00, and with Robt. J. McKee for \$93.00, which items together with the cost of protest, \$15.00, makes a total of \$158.00, which becomes a claim on the Steamer's underwriters under Protection & Indemnity Clause. SOO CANAL, SEPTEM BER 11, 1905, TRIP 15: The Steamer bound up was entering the American Canal, intending to take the Poe Lock. The Captain received orders to take the Wetzel Lock, which necessitated the putting of the wheel hard astarboard crossing the channel. A steamer was coming out of the lock at the time, and the current of her wheel caught the ANDASTE throwing her bow around against the sharp end of the "V" shaped pier which divides the new and the old locks. This slight collision caused a small dent on the starboard bow, 15 frames aft from stem and at the bottom of the sixth plate from top, slightly cracking the 15th frame for 2 The cost of repairing this slight damage will be inches. included in the cost of minor hull repairs. SOO RIVER, SEPTEMBER 14, 1905, TRIP 15: The Steamer was bound down and on account of fog had laid at anchor at the foot of Sugar Island, off Raines Dock, in the Soo River, September 14th. At about 4:30 in the morning the fog cleared up and the Steamer got under way. While

abreast of Black Buoy No. 19, in Middle Neebish Channel, the vessel went aground in apparently soft bottom, some 60 feet from the buoy. It was found necessary to telephone to the Soo for assistance, and the Tug General was sent, arriving at 8:37. The General pulled on the ANDASTE in an attempt to move her but without success, and at 11:15 A.M. the General went back At 2:30 the Tug Schenck arrived to the Soo for a lighter. with the Lighter Rescue, and shortly afterwards commenced lightering the cargo, taking off in the neighborhood of 100 tons, and then at 5:00 P.M. the Schenck pulled on the ANDASTE, and succeeded in releasing her. The Steamer then proceeded to the Sailors Encampment, dropped anchor, and took on again the lightered cargo, and at 9:20 P.M. got under way again and proceeded on her voyage. An examination of the waterbottom indicated that no damage had been done. General Average claim arising from this accident amounted to \$913.86 which amount has been paid by the underwriters of the vessel. In connection with this case we have the following certificate from F. D. Root, Local Manager at the Soo: "The captain of your Steamer ANDASTE is in no way at fault for the stranding of his vessel, as we found he was in the staked channel and full 60 feet from the Black Stake supposed to mark the outer edge of the channel, and I claim the stake has either been moved or never was placed in the proper place. When we took the Steamer ANDASTE off the shoal spot there was nothing but sand and no rock, and could not do any damage to Steamer's bottom. Think this shoal was formed by the dredges working above the Dyke as it is a new one to me." Also the following certificate from Allen Raines, the Light Keeper:
"This is to certify that the Str. ANDASTE ran aground from the black stake marking." in the staked channel fully 60 feet from the black stake marking the edge of the channel and in the direct course of vessels navigating the Soo River. This shoal must have been recently formed as it is directly in front of my house and always found good water there, and think your Captain in no way to blame for the stranding of the Steamer." Annual Report_Mining_MS86100_2081_1905_2 of 3_163.tif

STEAMER ANDASTE.

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endsavoring to turn around to head down the river, and when

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CLEVELAND, OCTOBER 2, 1905, TRIP 17:

ANDASTE in passing their Steamer H.R.JAMES, at that time tied up at their dock located directly opposite to the entrance to the old river bed, struck their steamer, causing her to swing out from the dock and drop gangplank on which a mass was passing with a truck of bolts and nuts. The man was thrown into the river, the kegs and truck following him. The hospital people advised them that the man had three ribs fractured. They lost 2 kegs of nuts. These facts were transmitted to the captain of the ANDASTE, who replied:

"Would say neither myself nor my crew have any knowledge of the accident, and the crew, which comprise all except the second engineer and oiler who were below at the time, will make affidavits that we at no time were nearer to the Rutland Line Steamer JAMES than 20 feet. If such an accident occurred it must have been because the JAMES was not properly fastened to the dock and that she surged away. At any rate the only knowledge I have of the Steamer JAMES is as follows:

On Trip 17, October 2nd, at 3:00 F.M. we arrived at

Cleveland and tied up at Custom House Pier awaiting orders. At 5:00 P.M. we got orders to proceed to Ashtabula. We then went into the river bed at the forks of the river and turned around. The Rutland Line Steamer JAMES was lying at their freight dock, and I was cautious in not touching her, and there is no doubt that we did not touch her, for it was daylight and we could plainly see all.

Having no further explanation to make on this matter, I hope I have explained our position clearly to you, and should you desire the affidavits of the crew they will be at your service. I am sorry that you are bothered with matters of this kind when we are not at fault."

We advised Mr. B. C. Tucker under date of October 17th that as our Steamer apparently did not touch the JAMES, the only contention being that she was in the neighborhood at the time and turning around carefully, we thought the prospects of a claim pretty remote, since which time nothing further has been heard about the matter, and we assume nothing further will be heard about it.

ASHTABULA, OCTOBER 3, 1905, TRIP 17:

While the ANDASTE was unloading at Ashtabula Harbor, the clam shell bucket which was working in No. 5 Hatch came

ACCIDENTS - 7.

in contact with stanchion at the after side of hatch, breaking same. The cost of this repair was \$78.60 which the Ashtabula Dock Co. will assume.

BUFFALO, NOVEMBER 2, 1905, TRIP 20:

The Steamer was proceeding up Buffalo Creek with the assistance of a tug, at about 3:45 A.M., when she grounded on a rocky bottom in mid channel, opposite the Bennett Elevator. The tug attempted to pull the Steamer off without success, and she lay on the bottom until 6:10 A.M., when the water having risen she floated off. On examination it was found that on the bottom at the port bow four plates were more or less severely dented, necessitating the renewal of one entire plate, and the removal of two to be furnaced and re-rolled. The vessel will be drydocked during the winter and the repair made. The cost will become a claim on the Steamer's underwriters.

CLEVELAND, NOVEMBER 14, 1905, TRIP 21:

The Steamer was being towed up to the Valley Dock by the Tug Kennedy. The Steamer NEOSHO of the Gilchrist Line met the ANDASTE, and in passing her port quarter swung ever and struck the ANDASTE, bending the boat davit support. The cost of the repair was only \$1.00. No claim was made on the NEOSHO.

CLEVELAND, NOVEMBER 15, 1906, TRIP 21:

While unloading at the Valley Dock a swinging ore bucket hit the port end of No. 6 hatch coaming, taking a piece out 3 feet long. The dock company repaired the damage.

	1	9 0 4	1 9 0 5	
	DAYS	PER CENT	DAYS	PER CENT
Time in port,	571	33.6	106	42.4
Time sailing,	99	57.9	1104	44.1
Time lost by bad weather, fog and low water,	123	7.5	*162	6.6
Time lost waiting at Soo Canal and River,	11/2	. 9	21/2	1.0
Time lost by accidents,	1/4	.1	143	5.9
Total time in commission,	171	100.0	250	100.0
Number of trips made,		18		23
Number of cargoes carried,		19		29

PERCENTAGES OF TIME IN COMMISSION IN PORT.

Season 1901 44.9

Season 1902....36.7

Season 1903....42.4

Season 1904....33.6

Season 1905 42.4

LGM THB 2-16-06

^{*} This includes $10\frac{1}{2}$ days time delayed by heavy ice on Lake Superior first trip of Season 1905.

OFERATING ACCOUNT.

RECEIPTS	GROSS TONS	AMOUNT	PER GROSS TON FREIGHT CARRIED
22 cargoes iron ore from Marquette,	66964	\$46874.80	\$.7000
l cargo iron ore from Escanaba, 5 cargoes coal to Marquette:	2717	1630.20	.6000
(12718 net tons @ 35 cents)	11355	4451.13	.3920
1 cargo coal to Escanaba (2263 net tons @ 70 cents)	2020	1584.07	.7842
29	83056	\$54540.20	\$ 6 56 6
DIS BURS EM ENTS.			
Extraordinary and General Repairs,	\$ 2874.94		
Ship Keeping and Winter Dockage,	65.91	Marie San	
Fitting Out,	357.59		
Wages and Captain's Salary,	9357.11		
Captain's Expense Account,	50.08	100	
Tug Services,	371.12	Carlotte 1	
Handling Cargoes,	14126.70	11.00	
Taxes,	463.12		
Marine Insurance,	3418.92		
Freight List Insurance,	51.84		
Mates Supplies,	437.53		
Provisions,	1577.24	The same of the sa	
Steward's Supplies,	100.01		
Fuel,	5223.97		
Engineer's Lubricants,	84.95		
Engineer's Supplies,	124.74		
Boiler Repairs,	251.69		
Machinery Repairs,	45.27		
Auxiliary Machinery Repairs,	20.78		
General Expenses (Telegrams, Dues L. C. A., &c.)	260.36		
Laying Up,	741.75	40005.62	.4816
Net earnings,		\$14534.58	\$.1750
Less amt.charged to Owners Propn.of Loss,		91.83	
Making total net gain for Season 1905,		\$14442.75	

NOTE: The cost per ton to operate after eliminating Extraordinary and General Repairs Account is \$.4470 in 1905 and \$.5030 in 1904.

LGM THB 2-16-06