

THE CLEVELAND-CLIFFS IRON COMPANY
MINE DEPARTMENT
COMPARATIVE STATEMENT OF PRODUCTION AND WAGES FOR YEARS 1919, 1918 & 1917, INCLUDING OVERRUNS AS
REPORTED BY SHIPPING DEPARTMENT

MINES	LAKE	WEG- AUNEE	MORRIS LLOYD	MAAS	SALIS- BURY	HOLMES	CLIFFS SHAFT	RE- UBLIC	GWINN	PRINCIP- TON	FRANCIS	SPIES	MEADOW	CROSBY CRUDE	HELMER	WADE	GARDNER MACKINAW	ATHENS
TOTAL PRODUCT:																		
Year 1919	315,119	498,16	282,483	337,030	107,148	133,131	366,773	155,315	137,847	193,228	80,528	70,914	100,081	209,860	71,831	220,477	56,743	140,795
Year 1918	438,114	516,14	289,500	317,009	114,339	121,336	373,734	142,476	155,534	148,265	27,665	123,675	93,389	262,235	216,428	-	-	-
Year 1917	477,964	543,77	267,787	320,356	98,999	68,773	367,595	153,425	161,963	-	-	74,830	103,987	290,795	-	-	-	-
Average per Month 1919	26,260	41,51	23,540	28,085	8,930	11,095	30,565	12,945	11,490	16,100	6,710	11,819	8,334	26,233	5,986	27,560	9,457	11,740
Average per Month 1918	36,510	43,01	24,125	26,415	9,528	10,110	31,140	11,870	12,960	12,350	3,458	10,350	7,782	26,233	24,047	-	-	-
Average per Month 1917	39,835	45,31	22,310	26,750	8,250	7,238	30,630	12,785	13,495	-	-	9,316	8,666	24,230	-	-	-	-
AVERAGE DAILY PRODUCT:																		
Year 1919	1,057	1,666	945	1,127	361	445	1,231	518	459	655	269	473	326	1,009	333	1,055	376	472
Year 1918	1,193	1,732	975	1,071	384	407	1,254	473	522	497	146	413	333	1,079	971	-	-	-
Year 1917	1,584	1,734	887	1,057	328	291	1,217	505	540	-	-	364	337	935	-	-	-	-
TONS PER MAN PER DAY:																		
SURFACE:																		
Year 1919	15.18	29.08	18.30	18.75	12.02	10.07	11.13	8.20	12.36	18.70	10.50	20.26	14.10	21.28	29.69	29.25	12.10	12.56
Year 1918	19.80	29.78	20.41	16.94	13.59	8.90	15.54	7.65	14.61	9.65	5.19	16.79	13.51	20.63	48.20	-	-	-
Year 1917	20.90	30.79	16.47	19.73	9.50	9.02	15.09	7.38	16.33	-	-	16.65	15.95	24.03	-	-	-	-
UNDERGROUND:																		
Year 1919	5.91	5.64	4.45	4.69	3.69	2.88	4.90	2.92	4.65	3.99	4.61	6.87	5.63	14.34	9.92	11.05	4.19	4.20
Year 1918	6.41	6.00	5.05	4.31	4.08	3.67	4.93	2.97	4.16	2.80	2.41	6.46	5.89	12.77	17.08	-	-	-
Year 1917	6.29	5.94	4.29	4.67	3.67	3.93	4.65	2.93	4.44	-	-	5.41	5.78	10.50	-	-	-	-
TOTAL:																		
Year 1919	4.26	4.72	3.58	3.75	2.82	2.24	3.40	2.16	3.38	3.29	3.21	5.13	4.02	8.57	7.43	8.02	3.11	5.15
Year 1918	4.84	4.99	4.05	3.44	3.08	2.60	3.74	2.14	3.24	2.17	1.64	4.51	4.10	7.89	12.61	-	-	-
Year 1917	4.83	4.98	3.48	3.76	2.65	2.74	3.55	2.10	3.49	-	-	4.09	4.23	7.31	-	-	-	-
STOPING:																		
Year 1919	9.38	10.41	9.60	8.52	7.17	5.46	14.23	7.47	10.66	9.12	9.56	15.92	8.77	7.92	17.39	16.89	9.77	8.64
Year 1918	10.28	10.78	10.46	8.05	6.94	6.52	12.60	7.37	9.15	7.56	6.30	16.45	9.63	23.71	32.52	-	-	-
Year 1917	10.20	10.94	9.48	8.99	6.23	7.50	11.80	8.69	8.67	-	-	10.53	10.20	17.65	-	-	-	-
RATE PER DAY - SURFACE:																		
Year 1919	5.00	4.92	5.18	4.95	4.98	4.96	4.95	5.35	5.09	4.69	4.97	4.88	5.42	5.92	5.44	5.73	5.02	5.00
Year 1918	4.24	4.54	4.51	4.15	4.25	4.32	4.21	4.50	4.53	4.33	4.57	4.16	4.55	5.06	4.75	-	-	-
Year 1917	3.25	3.25	3.44	3.28	3.39	3.38	3.31	3.55	3.38	-	-	3.56	3.60	4.00	-	-	-	-
RATE PER DAY - UNDERGROUND:																		
Year 1919	5.98	5.85	6.00	5.76	5.74	5.78	5.98	5.93	6.25	5.94	6.16	5.72	6.42	6.24	5.61	6.45	5.73	6.20
Year 1918	5.36	5.02	5.10	4.89	5.00	5.06	5.10	5.01	5.16	5.06	5.61	4.80	5.50	5.22	5.15	-	-	-
Year 1917	4.15	3.88	3.90	3.91	3.86	4.57	3.81	3.82	4.03	-	-	3.87	4.19	4.06	-	-	-	-
RATE PER DAY - TOTAL:																		
Year 1919	5.71	5.70	5.84	5.60	5.56	5.60	5.66	5.78	5.93	5.72	5.79	5.51	6.14	6.11	5.72	6.25	5.55	5.90
Year 1918	5.09	4.88	4.99	4.56	4.82	4.85	4.88	4.87	4.98	4.90	5.28	4.64	5.21	5.16	5.04	-	-	-
Year 1917	3.94	3.78	3.81	3.79	3.73	3.81	3.70	3.75	3.89	-	-	3.74	4.03	4.04	-	-	-	-
MEMORANDUM:																		
Stockpile overruns 1919	-	-	-	-	-	1,390	-	-	449	-	-	-	-	-	-	-	-	-
Stockpile overruns 1918	-	10,000	-	17,638	3,624	2,081	-	-	3,612	394	-	-	282	4,574	-	-	-	-
Stockpile overruns 1917	-	12,000	2,495	-	392	2,244	-	-	-	-	-	-	3,133	1,906	-	-	-	-

HR/LVN
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Holmes Mine - Started on Operating Basis March 14th, 1917
 Spies Mine - Started on Operating Basis May 1st, 1917. Production discontinued June 30th, 1919.
 Gwinn Mine - 1917 Operated double shift 177 days. Single shift 123 days.
 1918 " " " 51 " " 247 "
 Helmer Mine - Production started April-17th, 1918.
 Princeton Mine - Resumed Operating January 2nd, 1918.
 Francis Mine - Started on Operating basis May 1st, 1918 - Product as above 27665 tons.
 Produced in Development 13870 "
 As per Cost Sheet (1918) 41535 tons.
 Crosby Mine - Production ceased October 19th 1918 - Resumed May 2nd, 1919.
 Athens Mine - Started on Operating basis January 1st, 1919.
 Wade Mine - Started on Operating basis May 1st, 1919 - Product as above 220477 tons.
 Produced in Development 12278 "
 As per Cost Sheet (1919) 223455 tons.
 Gardner-Mackinaw - Started on Operating basis July 1st, 1919. Product as above 56743 tons.
 Produced in development 12583 "
 As per Cost Sheet (1919) 69326 tons

WAGES:- The following average rates per day and per cent of increase based on Labor at above mines only including Mining Captains and clerks.
 Average rate per day 12 months 1919, 5.75
 Average rate per day 12 months 1918, 4.92
 Average rate per day 12 months 1917, 3.51
 Increase 12 months 1919 over 12 months 1918 - 16.9%
 Increase 12 months 1918 over 12 months 1917 - 29.1%
 Increase 12 months 1919 over 12 months 1917 - 50.9%