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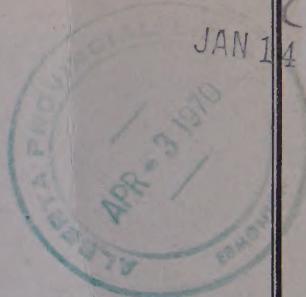
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**ANNUAL REPORT  
OF  
THE MINES DIVISION  
OF THE  
Department of Mines and Minerals  
OF THE  
PROVINCE OF ALBERTA**

**1969**

Edmonton:  
Printed by L. S. Wall, Queen's Printer

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**ANNUAL REPORT  
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Edmonton, Alberta,  
January 28th, 1970.

TO THE HONOURABLE A. RUSSELL PATRICK,  
*Minister of Mines and Minerals.*

Sir:

I have the honour to submit the Annual Report of the Mines Division of the Department of Mines and Minerals for the year ending December 31st, 1969.

Respectfully submitted,  
PHILIP MELSON,  
*Director of Mines.*



**ANNUAL REPORT OF THE MINES DIVISION FOR THE  
YEAR ENDING DECEMBER 31st, 1969**

In this report tonnages are quoted in tons of 2,000 pounds.

The output of coal from the mines in the province was 4,426,060 tons, with a valuation of \$13,483,048. This shows an increase of 500,946 tons, and an increase of \$885,867, compared with the previous year. The low increase in valuation is due to the fact that coal mined by McIntyre Coal Mines Ltd., was stockpiled and no valuation was given.

There were 2,646 tons of coal used to make 2,766 tons of briquettes valued at \$36,054. This shows a decrease of 4,470 tons of briquettes made and a decrease in valuation of \$41,474, compared with the previous year.

The disposition of coal for 1969 and comparison with the previous year follows:

	1969 (Tons)	1968 (Tons)
Sold for consumption in Alberta .....	2,991,312	2,672,852
Sold for consumption in British Columbia .....	143,783	142,589
Sold for consumption in Saskatchewan .....	71,480	175,948
Sold for consumption in Manitoba .....	67,479	73,558
Sold for consumption in Ontario .....	13,430	15,097
Sold for consumption elsewhere .....	349	54
Sold to the United States .....	10,651	9,549
Sold to Japan .....	891,769	809,437
Sold to railway companies .....	2,967	3,201
Put to stock .....	375,402	74,868
Put to waste .....	.....	11,313

The above tonnages include lifted from stock and waste heaps which are not included in the total output.

The Alberta consumption includes coal used under colliery boilers and includes coal making briquettes.

There were 6 underground mines and 23 strip mines making a total of 29 mines producing coal during the year. The mines employed 1,209 persons who worked 274,684 shifts. This shows a decrease of 1 mine, an increase of 106 persons, and an increase of 23,631 shifts, compared with the previous year. There were 23 strip mines employing 296 persons who worked 68,455 shifts and produced 3,334,462 tons. This shows a decrease of 1 strip mine, an increase of 14 persons, an increase of 4,334 shifts, and an increase of 336,294 tons from stripping operations, compared with the previous year.

The number of mines using electrical power during the year was 24. The following table shows the comparison of purchased electrical power in K.W. hrs. by mines for the past ten years:

1960 .....	26,231,225	1965 .....	20,001,530
1961 .....	21,694,596	1966 .....	25,690,710
1962 .....	20,436,598	1967 .....	35,270,464
1963 .....	22,062,185	1968 .....	34,507,138
1964 .....	21,930,976	1969 .....	40,784,932

The total horsepower of electrical motors in use was 37,062 h.p., an increase of 7,961 h.p., in comparison with 1968. The following tables show a breakdown of horsepower in use, both in sub-surface mining operations and strip mining operations.

## THE MINES DIVISION

### SUBSURFACE OPERATIONS

Duty	Above Ground	H.P.	Duty	Below Ground	H.P.
Haulage	1,948		Haulage	3,593	4,042
Ventilation	1,005		Ventilation	319	498
Air Compressing	2,750		Pumping	588	
Preparation Plants	3,102		Mechanical Mining	6,023	
Miscellaneous	1,705		Miscellaneous	712	255
Total	10,510		Total		11,406

### STRIP MINING OPERATIONS

Duty	H.P.
Preparation Plants	3,593
Compressors	122
Pumping	319
Drilling	628
Electric Shovels & Draglines	9,772
Miscellaneous	712
Total	15,146

The following figures show the number of certain types of electrical equipment used underground during the past ten years:

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
Cutting Machines	71	66	56	46	46	36	43	36	28	24
Battery Locomotives	22	25	27	27	22	15	20	16	16	18
Trolley Locomotives	8	10	9	9	7	5	7	2	2	2
Conveyors	30	33	31	30	30	22	25	32	28	38
Coal Drills	56	59	50	53	45	41	49	38	37	30
Continuous Miners	1	1	1	1	1	2	3	5	6	14
Shuttle Cars	0	0	0	0	2	2	3	5	7	11
Face Loaders	15	17	16	16	9	8	9	10	10	13

Twenty-three quarries produced 27,669,622 tons of shale, clay, limestone, building stone, bentonite and oil sands, an increase of 10,521,370 tons compared with the previous year.

The total horsepower of electrical motors used in quarries was 18,957 h.p. The following table shows a breakdown of horsepower in use:

### QUARRYING OPERATIONS

Duty	H.P.
Drilling	305
Electric Shovels & Draglines	675
Excavators	6,000
Miscellaneous	11,977
Total	18,957

Two hundred and twenty-four inspections were made under the terms of The Coal Mines Regulation Act and 61 under The Quarries Regulation Act.

In addition to the above, 55 inspections were made at 43 abandoned mining locations. Remedial work was required and completed at 13 mines. Nine inspections were made for the cancellation of mining leases.

All complaints made to the Division were investigated.

The total number of accidents in coal mines reported was 25. The number of fatal accidents was 3 compared to none in the previous year. There were 2 serious accidents in quarries.

There were no prosecutions for contravention of The Coal Mines Regulation Act.

Written examinations under The Coal Mines Regulation Act were held on May 6th, 7th and 8th at Edmonton and Calgary and on October 31st at Edmonton, with successful candidates as follows: 4 first class, 1 second class, six third class, 1 surveyor (underground mines), 2 first class mine electricians, 2 second

class mine electricians, 2 managers (strip mines), 1 foreman (strip mines), and 1 blaster (strip mines).

Written examinations under The Quarries Regulation Act were held on April 30th, May 6th and May 8th, 1969, with successful candidates as follows: 4 managers, 13 foremen.

Six blasters' certificates were issued to successful candidates on oral examination.

Seven examinations were held for miners' certificates and 78 certificates were issued to successful candidates. Eighteen substitute miners' certificates, 157 miners' provisional certificates and 239 miners' permits were granted, making a total of 492 certificates issued, which is an increase of 368 certificates for the year.

Eleven Mine Rescue certificates were issued during the year. A National Mine Rescue competition was held on June 13th and 14th at Saskatoon and the successful team was from Nova Scotia.

Two new mines were started in 1969. Mine 1768, operated by Cardinal River Coals Ltd., at Luscar and Mine No. 1769, operated by Calgary Power Ltd. (Highvale Mine), Seba Beach. Neither reached the production stage during 1969.

Mine No. 2, operated by The Canmore Mines, Limited, Canmore, renovated the tipple and installed a new washery. A 3,000,000 B.T.U. Flamemaster Mine Air Heater and a 30" Twin Diesel Coal auger were also obtained.

Mine No. 1747, operated by Coleman Collieries Ltd., Coleman, completed a new preparation plant during the year, with a total power installation of 1,846 H.P. Two Joy C.M.6 continuous miners and a Joy 10 SC shuttle car were installed underground. A Flamemaster Mine Air Heater was also put into operation.

Mine No. 1757 (Whitewood Mine), operated by Alberta Coals Ltd., Wabamun, obtained the following during the year: a 7400 Marion 15 cu. yd. dragline, a 4 inch submersible "Flygt" pump and a 600 Amp. Lincoln Welder.

Mine No. 1765, operated by McIntyre Coal Mines Ltd., Grande Cache, installed the following: 2 Joy CM6 and 4 Lee-Norse 45 continuous miners, together with ancillary conveyors and shuttle cars. Two large Mine Air Heaters, two battery operated material cars and a road cleaner. The mine service building and preparation plant are under construction.

Mine No. 1768, operated by Cardinal River Coals Ltd., installed the following: two 300 H.P. P&H 750 H.P. Electric shovels, two 300 H.P. Bucyrus Erie Model 45R Drills and eight 110 ton Lectra Haul Model M 100 trucks. The preparation plant was nearly completed at the end of the year.

Mine No. 1523, operated by Picardville Coal Co. (1960) Ltd., Picardville and Mine No. 1670, operated by Warburg Coal Co. Ltd., Warburg, each installed coal crushers for preparation of stoker sized coal.

Mr. John D. Shaw was appointed as District Inspector on December 1st.

## THE MINES DIVISION

NUMBER OF MINES PRODUCING, OPENED AND ABANDONED  
DURING THE YEAR ACCORDING TO AREAS AND KIND OF COAL

Director of Mines - P. Melson, Agriculture Building,  
Edmonton 6, Alberta. Telephone 229-4421

Electrical Inspector of Mines - J.S. Watson, Agriculture  
Building, Edmonton 6, Alberta. Telephone 229-4425

Inspection District	Area	Area Number	Character of Coal				Name and Address of District Inspectors of Mines
				No. of Mines producing during the year	No. of Mines opened during the year	No. of Mines abandoned during the year	
Calgary	Carbon	6	Sub-bituminous	1	...	...	J. J. Kubin, 906, John J. Bowlen Bldg., 620 - 7th Ave. S.W., Calgary, Alberta, Tel. 268-8340
	Cascade	7	Bituminous	1	...	...	
	Drumheller	14	Sub-bituminous	3	...	1	
	Sheerness	38	Sub-bituminous	1	...	...	
Edmonton	Ardley	1	Sub-bituminous	2	...	...	M. Aschacker, J. Shaw, 801, Agriculture Bldg., Edmonton 6, Alberta. Tel. 229-4423 229-4424
	Camrose	5	Sub-bituminous	1	...	...	
	Castor	8	Sub-bituminous	3	...	...	
	Coalspur	11	Bituminous	1	...	...	
	Edmonton	15	Bituminous	3	...	...	
	Mountain Park	24	Bituminous	...	1	...	
	Pembina	31	Bituminous	3	1	...	
	Smoky River	10	Bituminous	1	...	...	
	Tofield	42	Sub-bituminous	1	...	...	
	Westlock	45	Sub-bituminous	2	...	...	
Lethbridge	Brooks	3	Sub-bituminous	1	...	...	I. N. Potter, Administration Bldg., 909 - 3rd Ave. North, Lethbridge, Alberta. Tel. 328-4471
	Champion	9	Sub-bituminous	...	1	...	
	Crowsnest	12-13	Bituminous	3	...	...	
	Lethbridge	20	Bituminous	1	...	...	
	Taber	41	Sub-bituminous	1	...	...	
Total.....		...	.....	29	2	2	

PARTICULARS WITH REFERENCE TO THE COAL MINING INDUSTRY IN THE  
PROVINCE OF ALBERTA DURING THE YEAR ENDING DECEMBER 31, 1969.

## SUMMARY OF STATISTICS

Number of tons of coal produced.....	4,426,060
Total valuation of coal produced.....	\$ 13,483,048
Number of tons of briquettes made.....	2,766
Total valuation of briquettes made.....	\$ 36,054
Number of mines in operation.....	29
Number of mines opened.....	2
Number of mines abandoned.....	2
1 mine or 3.4% of the total operating produced	47.8% of the output
3 mines or 10.3% of the total operating produced	10.4% of the output
4 mines or 13.7% of the total operating produced	33.9% of the output
10 mines or 34.4% of the total operating produced	6.4% of the output
11 mines or 37.9% of the total operating produced	1.21% of the output
Average number of persons employed.....	1,209
Average number of persons employed in underground mining.....	913
Average number of persons employed in strip mining.....	296
Average number of days worked.....	227
Total number of manshifts.....	274,684
Number of separate accidents causing loss of life.....	2
Number of fatal accidents above ground.....	..
Number of fatal accidents below ground.....	3
Number of serious accidents above ground.....	1
Number of serious accidents below ground.....	4
Number of slight accidents above ground.....	3
Number of slight accidents below ground.....	14
Total purchased electric power (kilowatt hours).....	40,784,932
Number of trade name certificates issued.....	3
Number of provisional first class certificates issued.....	9
Number of provisional second class certificates issued.....	13
Number of provisional third class certificates issued.....	31
Number of provisional electricians' certificates issued.....	31
Number of provisional surveyors' certificates issued.....	1
Number of provisional strip mine managers' certificates issued.....	..
Number of provisional strip mine foremen's certificates issued.....	10
Number of provisional strip mine blasters' certificates issued.....	3
Number of provisional miners' certificates issued.....	157
Number of miners' permits issued.....	239
Number of first class certificates issued.....	1
Number of second class certificates issued.....	1
Number of third class certificates issued.....	4
Number of mine surveyors' certificates issued.....	1
Number of first class electricians' certificates issued.....	2
Number of second class electricians' certificates issued.....	1
Number of strip mine managers' certificates issued.....	4
Number of first class certificates issued up to Dec. 31/69.....	318
Number of second class certificates issued up to Dec. 31/69.....	626
Number of third class certificates issued up to Dec. 31/69 .....	1,875
Number of surveyors' certificates issued up to Dec. 31/69 .....	253
Number of first class mine electricians' certificates issued up to Dec. 31/69 .....	180
Number of second class mine electricians' certificates issued up to Dec. 31/69 .....	140
Number of strip mine managers' certificates issued up to Dec. 31/69.....	183
Number of strip mine foremen's certificates issued up to Dec. 31/69.....	268
Number of strip mine blasters' certificates issued up to Dec. 31/69.....	29
Number of strip mine surveyors' certificates issued up to Dec. 31/69 .....	2
Number of miners' certificates issued up to Dec. 31/69 .....	21,209

## THE MINES DIVISION

PARTICULARS WITH REFERENCE TO QUARRIES IN THE  
PROVINCE OF ALBERTA DURING THE YEAR ENDING DECEMBER 31, 1969.

## SUMMARY OF STATISTICS

Number of tons of limestone produced.....	1,516,479
Number of tons of bentonite produced.....	13,312
Number of tons of shale and clay produced.....	508,220
Number of tons of building stone produced.....	1,034
Number of tons of oil-sands produced.....	25,630,577
Number of quarries in operation.....	23
Number of quarries opened.....	1
Number of quarries abandoned.....	...
Number of persons employed.....	359
Average number of days worked.....	239
Total number of man-shifts.....	85,890
Number of serious accidents.....	2
Number of pounds of dynamite used.....	122,800
Number of pounds of ammonia nitrate used.....	3,768,650
Number of detonators used.....	7,037
Number of shots fired.....	13,019
Number of primers used.....	4,095
Number of missed fire shots.....	8
Amount of prima cord used (feet).....	200,370
Number of provisional managers' certificates issued.....	4
Number of provisional foremen's certificates issued.....	13
Number of provisional blasters' certificates issued.....	1
Number of managers' certificates issued .....	4
Number of foremen's certificates issued .....	13
Number of blasters' certificates issued.....	6
Number of managers' certificates issued up to December 31st, 1969.....	35
Number of foremen's certificates issued up to December 31st, 1969.....	69
Number of blasters' certificates issued up to December 31st, 1969.....	76

ANNUAL PRODUCTION AND VALUATION OF COAL FROM MINES  
IN THE PROVINCE OF ALBERTA  
For the Years 1950 to 1969 Inclusive

Year	Output Tons	Valuation Dollars
1950.....	8,118,206	\$ 41,631,579
1951.....	7,661,276	41,000,953
1952.....	7,194,472	39,974,318
1953.....	5,917,423	32,158,435
1954.....	4,859,136	26,349,275
1955.....	4,456,578	23,486,399
1956.....	4,329,639	23,283,966
1957.....	3,155,354	17,287,229
1958.....	2,519,939	12,778,111
1959.....	2,549,517	12,892,747
1960.....	2,404,093	11,439,705
1961.....	2,027,826	10,471,217
1962.....	2,087,310	9,983,327
1963.....	2,289,943	9,866,962
1964.....	2,971,133	11,189,087
1965.....	3,413,928	12,172,001
1966.....	3,467,254	12,067,044
1967.....	3,601,559	12,506,450
1968.....	3,925,114	12,597,181
1969.....	4,426,060	13,483,048

PER CAPITA PRODUCTION OF MINES IN THE PROVINCE  
For the Years 1950 to 1969 Inclusive

Year	Gross Tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed
1950.....	8,118,206	7,999	1,015
1951.....	7,661,276	7,339	1,044
1952.....	7,194,472	6,936	1,037
1953.....	5,917,423	5,760	1,027
1954.....	4,859,136	4,719	1,030
1955.....	4,456,578	3,801	1,172
1956.....	4,329,639	3,443	1,258
1957.....	3,155,354	2,795	1,129
1958.....	2,519,939	2,021	1,247
1959.....	2,549,517	1,720	1,482
1960.....	2,404,093	1,729	1,390
1961.....	2,027,826	1,323	1,533
1962.....	2,087,310	1,281	1,629
1963.....	2,289,943	1,151	1,989
1964.....	2,971,133	1,188	2,501
1965.....	3,413,928	1,181	2,891
1966.....	3,467,254	1,146	3,026
1967.....	3,601,559	1,162	3,099
1968.....	3,925,114	1,103	3,559
1969.....	4,426,060	1,209	3,661

## THE MINES DIVISION

CLASSIFICATION OF OUTPUT IN TONS DURING THE YEARS 1950 to 1969 INCLUSIVE

Year	Bituminous	Sub-bituminous	Coal used in Coke Production	Tons of Briquettes Made	Tons of Coke Made
1950.....	4,793,020	3,325,186	23,079	409,855	16,637
1951.....	4,659,289	3,001,987	6,957	345,768	3,959
1952.....	4,378,622	2,815,650	3,474	661,862	574
1953.....	3,237,459	2,399,424	...	665,556	...
1954.....	2,402,185	2,426,951	...	635,501	...
1955.....	2,116,892	2,341,686	...	635,785	...
1956.....	2,066,723	2,264,916	...	525,202	...
1957.....	1,265,884	1,889,510	...	265,645	...
1958.....	831,256	1,685,683	...	128,512	...
1959.....	811,819	1,734,698	...	99,499	...
1960.....	863,517	1,540,576	*	2,352	1,216
1961.....	666,226	1,361,600	*	44,111	...
1962.....	590,139	1,497,171	*	34,534	491
1963.....	635,650	1,654,293	*	28,631	410
1964.....	866,221	2,104,922	*	37,358	11,677
1965.....	859,176	2,534,752	*	38,230	15,971
1966.....	879,369	2,587,752	*	34,658	38,804
1967.....	937,836	2,663,723	*	27,904	11,387
1968.....	948,480	2,976,634	*	21,503	7,430
1969.....	1,231,108	3,194,922	1,658	7,236	1,261
			...	2,766	...

\* Char

AMOUNT OF COAL SOLD IN TONS DURING THE YEARS 1950 TO 1969 INCLUSIVE FOR CONSUMPTION IN:

Year	Railways	Alberta	B.C.	Sask.	Manitoba	Ontario	Quebec	U.S.A.	China and Japan	Total
1950.....	2,308,365	1,672,519	873,558	1,366,723	586,920	312,563	...	105,765	44,317	7,226,413
1951.....	2,443,326	1,427,114	898,533	1,322,62	492,737	382,753	...	80,270	6,891,212	
1952.....	2,065,365	1,021,484	859,385	1,034,594	384,726	126,381	...	71,817	6,147,582	
1953.....	1,625,783	1,045,482	859,385	1,034,594	274,738	73,117	...	47,119	1,588	
1954.....	743,743	1,064,817	891,194	995,882	292,455	85,816	...	33,124	...	4,107,051
1955.....	431,639	1,080,379	932,764	893,377	297,719	90,727	...	32,941	...	3,755,546
1956.....	385,388	1,020,538	860,329	871,719	304,918	75,029	...	120	4,592	3,563,733
1957.....	152,693	876,395	672,527	680,297	247,480	68,379	...	165	46,079	40,745
1958.....	56,420	838,535	532,911	584,025	226,302	54,887	...	122	37,154	21,952
1959.....	39,122	874,622	437,118	549,663	239,503	52,828	...	80	33,455	124,719
1960.....	1,045	845,806	379,668	362,383	201,372	40,205	...	157	30,983	2,222,355
1961.....	51,128	791,631	321,999	232,848	155,744	35,466	...	115	18,666	343,720
1962.....	32,003	90,107	289,651	34,012	153,561	29,952	...	75	9,219	1,954,627
1963.....	16,001	1,073,606	262,433	343,634	131,471	29,309	...	118	5,583	2,073,367
1964.....	14,451	1,620,893	261,990	279,171	122,590	32,261	x	86	410,558	2,272,713
1965.....	10,798	1,928,684	276,608	388,796	130,861	31,733	...	85	14,805	612,544
1966.....	6,631	2,034,814	197,521	376,589	115,771	24,893	*	8	14,123	614,801
1967.....	3,960	2,019,076	165,668	203,296	162,926	...	...	12,206	3,96,489	
1968.....	3,201	2,672,892	142,589	175,948	73,598	15,097	...	54	9,549	773,505
1969.....	2,967	2,991,312	143,783	71,480	67,479	13,430	...	349	10,651	891,769
										4,193,220

x Includes 16 tons to N.W.T.

\* Includes 8 tons to West Germany

## THE MINES DIVISION

## COAL PRODUCED BY YEARS FROM 1965 to 1969

## BITUMINOUS COAL FIELD

Areas	1965	1966	1967	1968	1969
Group 1:					
Cascade.....	243,084	245,469	288,954	283,719	267,266
Group 2:					
Crowsnest.....	609,408	632,974	620,962	660,780	769,489
Mountain Park....	...	...	...	...	...
Smoky River.....	...	...	24,835	1,265	193,522
Group 3:					
Coalspur.....	194	...	...	...	199
Lethbridge.....	6,490	1,126	3,085	2,716	632
Total.....	859,176	879,569	937,836	948,480	1,231,108

## SUB-BITUMINOUS COAL FIELD

Group 4:					
Ardley.....	32,034	30,358	25,130	23,366	24,186
Brooks.....	6,783	6,384	5,160	4,946	4,856
Carbon.....	11,731	9,028	7,457	4,883	4,271
Champion.....	3,028	1,507	458	...	...
Drumheller.....	285,175	231,893	185,037	162,018	150,336
Edmonton.....	92,277	80,288	63,123	47,892	47,007
Gleichen.....	223	...	...	...	...
Pembina.....	968,488	1,133,180	1,196,637	1,945,467	2,135,158
Taber.....	104,398	60,670	9,929	4,713	3,926
Wetaskiwin.....	1,750	1,372	114	...	...
Group 5:					
Camrose.....	26,400	17,808	16,842	15,408	15,398
Castor.....	768,181	774,339	859,694	636,349	750,748
Redcliff.....	2,016	1,856	541	...	...
Sheerness.....	210,746	199,248	259,720	100,115	29,302
Tofield.....	17,370	15,504	12,026	9,629	8,616
Westlock.....	24,152	24,250	21,855	21,848	21,148
Total.....	2,554,752	2,587,685	2,663,723	2,976,634	3,194,952

THE TOTAL TONNAGE OF BITUMINOUS COAL FROM THE PROVINCE WAS DISPOSED OF BY AREAS DURING 1969

## THE MINES DIVISION

HOW THE TOTAL TONNAGE OF SUB-BITUMINOUS COAL FROM THE PROVINCE WAS DISPOSED OF BY AREAS DURING 1969

## HOW THE TOTAL TONNAGE OF COAL FROM THE PROVINCE WAS DISPOSED OF BY MONTHS DURING 1969

Months	Sold for Consumption in:						Total Disposition Stock	Stock from Disposition	Total Tonnage
	Alberta	Sask.	Manitoba	Ontario	Quebec	United States			
Sold to Brimley Companies									
January	407	241088	23526	131463	15656	2792	...	638	57820
February	174	284144	15137	5876	8218	1985	...	827	68069
March	121	285159	11810	2658	3760	1291	...	1029	89705
April	66	247302	8635	1355	667	416	...	1029	395533
May	184	213360	7926	967	157	...	349	9344	350814
June	79	110504	5234	658	...	381	...	903	69833
July	...	118737	4902	296	79	...	...	693	112901
August	77	167553	2154	817	131	52	...	585	95964
September	517	242069	12705	3896	5673	1199	...	777	44522
October	890	307241	23520	16615	14720	1813	...	131	66968
November	411	317954	14058	9041	9874	1561	...	1054	333804
December	41	326201	13832	16158	8524	1940	...	944	119664
Total:	2967	2993132	143783	71480	674779	13430	349	10651	891769
% of Total Disposition:	.07	71.33	3.43	1.71	1.61	.32	.01	.25	21.27

How the total tonnage of BRIGUETTES from the Province was disposed of during 1969

Briquettes:	2055	590	450	...	...	...	...	...	3095	318	647	2766
Char:	...	...	...	...	...	...	...	...	...	...	...	...

How the total tonnage of CHAR from the Province was disposed of during 1969

## THE MINES DIVISION

## HOW THE TOTAL TONNAGE OF BITUMINOUS COAL WAS DISPOSED OF BY MONTHS DURING 1969

HOW THE TOTAL TONNAGE OF SUB-BITUMINOUS COAL WAS DISPOSED OF BY MONTHS DURING 1969

Months	Sold for Consumption in:						Total Disposition:
	Alberta	British Columbia	Sask.	Manitoba	Ontario	Quebec	
January	339,983	183,49	131,13	1,565,6	246	...	387,253
February	282,631	82,13	587,6	848	171	...	20,570
March	77	28,447	26,98	376,0	37	...	29,526
April	66	24,659	17,54	135,5	667	...	250,034
May	184	21,321	17,01	967	157	...	21,625
June	79	13,978	6,10	6,58	**	...	14,115
July	***	11,867	3,02	2,96	79	...	11,935
August	77	16,754	9,96	817	131	...	16,956
September	517	24,184	6,46	3,896	567,3	380	25,773
October	890	30,677	7,623	16,615	14,720	510	34,712
November	411	31,761	6,496	9,041	9,874	...	34,226
December	41	32,586	6,496	16,158	8,514	171	35,724
Total:	274,9	2,984,560	61,278	71,480	67,479	1,902	31,894,448
% of Total Disposition:	.09	93.57	1.92	2.24	2.12	.06	31.94952

## THE MINES DIVISION

PER CAPITA PRODUCTION OF MINES BY AREAS  
BITUMINOUS COAL FIELD

Area	Strip and Underground Mining					Strip Mining					Underground Mining				
	Gross tons of coal mined	Total average of coal No. of men employed	Total No. of man-shifts per man employed	Tons of coal mined per eight hour man-shift	Gross tons of Coal mined	Total average No. of men employed	Total No. of man-shifts per man employed	Tons of coal mined per eight hour man-shift	Gross tons of coal mined	Total average No. of men employed	Total No. of man-shifts per man employed	Tons of coal mined per eight hour man-shift	Gross tons of coal mined	Total average No. of men employed	Total No. of man-shifts per man employed
Group 1:															
Cascade.....	267,266	251	1,065	59,701	4,448	37,852	8	4,731	1,855	20,40	229,415	243	944	57,846	3.97
Group 2:															
Crownest....	769,489	454	1,695	105,950	7.26	222,501	30	7,417	7,975	27.90	546,988	124	1,290	97,975	5.58
Smoky River..	193,322	147	1,216	31,747	6.10	...	...	...	...	...	193,522	147	1,316	31,747	6.10
Group 3:															
Coalpar....	199	4	50	250	0.80	199	4	50	250	0.80	...	...	...	...	...
Lethbridge...	632	4	158	178	3.55	632	4	158	178	3.55	...	...	...	...	...
Total.....	1,231,108	860	1,432	197,826	6.22	261,183	46	5,678	10,258	25.46	969,925	814	1,192	187,568	5.17

PER CAPITA PRODUCTION OF MINES BY AREAS  
SUB-BITUMINOUS COAL FIELD

	Total.....	3,194,952	349	9,155	76,858	41.57	3,073,279	250	12,299	58,197	52.81	121,673	99	1,229	18,661	6.32
Group 4:																
Ardley.....	24,186	6	4,031	1,336	18.10	24,186	6	4,031	1,236	18.10	24,186	6	4,031	1,236	18.10	24,186
Brooks.....	4,856	6	809	1,369	3.35	4,856	6	809	1,269	3.55	4,856	6	809	1,269	3.55	4,856
Carbon.....	4,271	3	1,424	617	6.92	4,271	3	1,424	6.92	4,271	617	6	4,271	6.92	4,271	617
Drumheller....	150,336	71	2,117	12,281	12.24	64,733	10	6,473	1,988	32.56	85,603	61	1,403	10,293	8,322	8,322
Edmonton.....	47,007	12	1,119	3,308	5.05	10,977	4	2,734	2,734	11,64	36,070	38	94.9	8,368	4,311	4,311
Fort Saskatchewan.....	2,135,158	113	18,895	26,828	79.58	2,135,158	113	18,895	26,828	79.58	2,135,158	113	18,895	26,828	79.58	2,135,158
Grande Prairie.....	3,926	3	1,309	764	5.14	3,926	3	1,309	764	5.14	3,926	3	1,309	764	5.14	3,926
Group 5:																
Calmar.....	15,398	4	3,850	812	18.96	15,398	4	3,850	812	18.96	15,398	4	3,850	812	18.96	15,398
Canton.....	750,748	86	8,730	20,114	27.33	750,748	86	8,730	20,114	37.33	750,748	86	8,730	20,114	37.33	750,748
Sheerness....	29,302	5	5,860	1,289	22.73	29,302	5	5,860	1,289	22.73	29,302	5	5,860	1,289	22.73	29,302
Totfield.....	8,616	3	2,872	724	11.90	8,616	3	2,872	724	11.90	8,616	3	2,872	724	11.90	8,616
Westlock....	21,148	7	3,021	1,416	14.94	21,148	7	3,021	1,416	14.94	21,148	7	3,021	1,416	14.94	21,148
Total.....	3,194,952	349	9,155	76,858	41.57	3,073,279	250	12,299	58,197	52.81	121,673	99	1,229	18,661	6.32	

## SUMMARY

Bituminous.....	1,231,108	860	1,432	197,826	6.22	261,183	46	5,678	10,258	25.46	969,925	814	1,192	187,568	5.17
Sub-Bituminous..	3,194,952	349	9,155	76,858	41.57	3,073,279	250	12,299	58,197	52.81	121,673	99	1,229	18,661	6.32
Total.....	4,426,060	1,209	3,661	274,684	16.11	3,334,462	296	11,265	68,455	48.71	1,091,598	913	1,196	206,229	5.29

## THE MINES DIVISION

OUTPUT AND NUMBER OF MINES PRODUCING

Kind of Coal	Under 1,000 Tons		1,000 to 5,000 Tons		5,000 to 10,000 Tons		10,000 to 50,000 Tons		50,000 to 100,000 Tons		100,000 to 150,000 Tons		150,000 to 200,000 Tons		200,000 to 300,000 Tons		Over 300,000 Tons		Total		
	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.
Bituminous....	2	831	**	***	...	...	...	...	2	269,567	1	193,522	1	267,266	1	499,922	7	1,231,108			
Sub-bituminous.	..	***	4	14,406	5	38,281	9	190,319	1	96,709	**	...	...	...	1	265,226	2	2,590,011	22	3,194,952	
Total.....	2	831	4	14,406	5	38,281	9	190,319	1	96,709	2	269,567	1	193,522	2	532,492	3	3,089,933	29	4,426,060	

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DISPOSITION OF ALBERTA COAL

	SOLD TO			USED MAKING			FOR COLLIERY BOILERS, RAILROADS, ETC.	TOTAL
	INDUSTRIAL CONSUMERS	DEALERS FOR RE-SALE	DOMESTIC CONSUMERS	EMPLOYEES	BRIQUETTES	CHAR		
JANUARY	260961	24,328	54,660	4,03	4,96	...	240	341088
FEBRUARY	230139	11,018	41,729	317	767	...	174	284,144
MARCH	250344	7870	26354	142	237	...	212	285,159
APRIL	240585	713	5304	58	495	...	147	247,302
MAY	211855	70	1345	44	45	...	1	213,360
JUNE	138745	59	1,002	32	606	...	60	110,504
JULY	117827	179	730	1	...	...	...	118,737
AUGUST	165661	574	1,300	8	...	...	10	167,553
SEPTEMBER	221879	3942	13,095	107	...	...	46	242,069
OCTOBER	261493	8324	37054	278	...	...	92	307,241
NOVEMBER	267136	7524	42972	196	...	...	126	317,954
DECEMBER	279401	6148	40232	272	...	...	148	326,201
TOTAL	264,9026	70749	26,5777	1858	2646	...	1256	299,1312

## THE MINES DIVISION

PRODUCTION OF COAL PER EIGHT-HOUR MAN-SHIFT  
For the Years 1950 to 1969 Inclusive

Year	Gross tons of coal mined	Total No. of Eight-hour Man-shifts	Average No. of tons of coal mined per Eight-hour shift
1950.....	8,118,206	1,735,316	4.678
1951.....	7,661,276	1,683,061	4.552
1952.....	7,194,472	1,522,264	4.726
1953.....	9,917,423	1,141,531	5.184
1954.....	4,859,136	943,558	5.150
1955.....	4,456,578	783,239	5.690
1956.....	4,329,639	750,318	5.770
1957.....	3,155,354	535,346	5.894
1958.....	2,519,939	386,636	6.517
1959.....	2,549,517	377,870	6.747
1960.....	2,404,093	366,970	6.551
1961.....	2,027,826	285,142	7.112
1962.....	2,087,310	277,198	7.530
1963.....	2,289,943	254,671	8.992
1964.....	2,971,133	285,039	10.423
1965.....	3,413,928	288,871	11.820
1966.....	3,467,254	275,195	12.590
1967.....	3,601,559	263,969	13.643
1968.....	3,925,114	251,053	15.634
1969.....	4,426,060	274,684	16.113

## AMOUNT OF MINE TIMBER USED DURING THE YEAR

## BITUMINOUS COAL FIELD

Area	Timber lineal feet	Lumber B.M. feet	Lagging lineal feet	Ties lineal feet	Sprags lineal feet
Group 1: Cascade.....	135,212	69,899	...	9,992	16,639
Group 2: Crowsnest.....	596,080	677,600	50,000	1,113	19,364
Smoky River.....	9,950	...	96,000	...	40,200
Group 3: Coalspur.....	...	...	...	750	...
Total.....	741,242	747,499	146,000	11,855	76,203

## SUB-BITUMINOUS COAL FIELD

Group 4: Drumheller..... Edmonton.....	82,621 93,800	13,700	8,000	2,894 5,000	...
Total.....	176,421	13,700	8,000	7,894	...

## PARTICULARS OF LAMPS IN THE BITUMINOUS AND SUB-BITUMINOUS COAL FIELDS DURING THE YEARS 1968 and 1969.

BITUMINOUS COAL FIELD

	<u>1968</u>	<u>1969</u>
Portable Electric Lamps, Edison Cap Type.....	496	745
Wolfe Flame Type.....	34	65
Total.....	530	810

SUB-BITUMINOUS COAL FIELD

Portable Electric Lamps, Edison Cap Type.....	214	212
Wolfe Flame Type.....	10	9
Total.....	224	221

## THE MINES DIVISION

QUANTITY OF EXPLOSIVES USED IN POUNDS FOR BLASTING COAL  
BITUMINOUS COAL FIELD

Area	Name of Explosives							Total
	Stumping Powder	Monobel	BL-100	CXL-ite	Airdox	Amex	Forcite	
Group 1: Cascade.....	...	27,850	...	...	...	495	75	28,420
Group 2: Crowsnest.....	...	1,050	...	...	...	850	900	2,800
Group 3: Coalspur.....	...	...	...	...	...	...	100	100
Total.....	...	28,900	...	...	...	1,345	1,075	31,320

## SUB-BITUMINOUS COAL FIELD

Group 4: Ardley.....	...	2,200	...	...	...	...	...	2,200
Brooks.....	...	2,030	...	...	...	...	...	2,030
Carbon.....	50	...	...	...	...	...	100	150
Drumheller.....	...	...	...	...	9,000	...	...	9,000
Edmonton.....	...	7,139	...	...	...	...	...	7,139
Pembina.....	840	...	...	...	...	...	2,000	2,840
Group 5: Camrose.....	...	...	...	...	...	...	140	140
Castor.....	700	4,575	...	...	...	2,700	...	7,975
Tofield.....	...	...	...	...	...	...	1,880	1,880
Total.....	1,590	13,914	2,030	...	9,000	2,700	4,120	33,354

## ESTIMATED NUMBER OF SHOTS FIRED FOR BLASTING COAL

## BITUMINOUS COAL FIELD

Area	Electric Detonators	Prima cord	Airdox	Total
Group 1: Cascade.....	23,636	...	...	23,636
Group 2: Crowsnest.....	1,223	...	...	1,223
Group 3: Coalspur.....	75	...	...	75
<b>Total.....</b>	<b>24,934</b>	...	...	<b>24,934</b>

## SUB-BITUMINOUS COAL FIELD

Group 4: Ariley..... Brooks..... Carbon..... Drumheller..... Edmonton..... Pembina.....	2,200 1,368 123 ... 7,548 4,013	...	...	2,200 1,368 123 9,000 9,000 7,548 4,013
Group 5: Camrose..... Castor..... Tofield.....	490 5,379 280	...	...	490 5,379 280
<b>Total.....</b>	<b>21,401</b>	...	<b>9,000</b>	<b>30,401</b>

There were no missed fire shots blasting coal in mines during 1969.

## THE MINES DIVISION

NUMBER OF TONS OF COAL PRODUCED PER POUND OF  
EXPLOSIVES USED

## BITUMINOUS COAL FIELD

Area	Number of tons of coal mined	Number of pounds of explosives used	Tons of coal mined per pound of explosives used
Group 1:			
Cascade.....	267,266	28,420	9.40
Group 2:			
Crowsnest.....	769,489	2,800	274.82
Smokey River....	193,522	...	...
Group 3:			
Coalspur.....	199	100	1.99
Lethbridge.....	632	...	...
Total.....	1,231,108	31,320	39.31

## SUB-BITUMINOUS COAL FIELD

Group 4:			
Ardley.....	24,186	2,200	10.99
Brooks.....	4,856	2,030	2.39
Carbon.....	4,271	150	28.47
Drumheller....	150,336	9,000	16.70
Edmonton.....	47,007	7,139	6.58
Fembina.....	2,135,158	2,840	751.82
Taber.....	3,926	...	...
Group 5:			
Camrose.....	15,398	140	109.98
Castor.....	750,748	7,975	94.14
Sheerness.....	29,302	...	...
Tofield.....	8,616	1,380	4.58
Westlock.....	21,148	...	...
Total.....	3,194,952	33,354	95.79

QUANTITY OF EXPLOSIVES USED IN POUNDS FOR BLASTING ROCK  
IN COAL MINES

BITUMINOUS COAL FIELD

Area	Pellet	Monobel	Gilgel	CXL-ite	Amex	Cardox	Forcite	Total
Group 1: Cascade.....	...	...	...	7,400	1,155	...	175	8,730
Group 2: Crowsnest...	...	...	...	2,152	150,700	...	30,158	183,010
Smoky River.	...	17	...	...	...	...	...	17
<b>Total.....</b>	<b>...</b>	<b>17</b>	<b>...</b>	<b>9,552</b>	<b>151,855</b>	<b>...</b>	<b>30,333</b>	<b>191,757</b>

SUB-BITUMINOUS COAL FIELD

Group 4: Brooks.....	...	...	...	...	...	...	3,050	3,050
Drumheller.	...	...	...	5	...	...	...	5
<b>Total.....</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>5</b>	<b>...</b>	<b>...</b>	<b>3,050</b>	<b>3,055</b>

## THE MINES DIVISION

ESTIMATED NUMBER OF SHOTS FIRED FOR BLASTING ROCK  
IN COAL MINES

## BITUMINOUS COAL FIELD

Area	Electric Detonators	Prima cord	Total
Group 1:			
Cascade.....	6,839	...	6,839
Group 2:			
Crowsnest.....	4,425	...	4,425
Smoky River.....	62	...	62
Total.....	11,326	...	11,326

## SUB-BITUMINOUS COAL FIELD

Group 4:			
Brooks.....	62	...	62
Drumheller.....	2	...	2
Total.....	64	...	64

There were no missed fire shots blasting rock in coal mines

## ELECTRICITY

Area	Number of Mines using Electricity	Horsepower of Electrical Equipment in Use		Total Horsepower	Purchased Power
		Above Ground	Below Ground		
Ardley.....	1	4	...	4	18,726
Brooks.....	1	22	...	22	41,000
Camrose.....	1	4	...	4	6,000
Carbon.....	1	19		19	4,452
Cascade.....	1	4,771	1,591	6,362	11,204,000
Castor.....	3	3,749	...	3,749	4,282,697
Crowsnest.....	1	3,268	2,280	5,548	12,500,000
Drumheller.....	3	1,402	802	2,204	803,122
Edmonton.....	3	395	696	1,091	328,045
** Mountain Park...	1	2,130	...	2,130	...
Pembina.....	2	7,442	...	7,442	8,473,000
Sheerness.....	1	1,271	...	1,271	225,000
Smoky River.....	1	1,100	5,764	6,864	2,820,350
Taber.....	1	10	...	10	10,200
Tofield.....	1	65	...	65	41,880
Westlock.....	2	30	...	30	26,460
Total.....	23	25,682	11,133	36,815	40,784,932

\*\* Did not produce coal in 1969.

## COAL-CUTTING MACHINERY

Area	No. of Machines Operated by:			Tons of Coal Mined by:	
	Electricity	Compressed Air		Electricity	Compressed Air
		Picks	Machines		
Cascade.....	3	8	...	150,404	39,630
Crowsnest.....	3	100	...	272,244	210,000
Drumheller.....	4	...	...	85,603	...
Edmonton.....	8	...	...	36,000	...
Smoky River.....	6	...	...	192,724	...
Total.....	24	180	...	736,975	249,630

## THE MINES DIVISION

ACCIDENTS DURING 1969\*, CLASSIFIED ACCORDING TO THE MINES  
IN WHICH THEY OCCURRED

Name of Operator	Area	Above Ground		Below Ground		Total Above and Below Ground	
		Total	Silicate	Total	Silicate	Serious	Total
<b>Bituminous</b>							
The Cammore Mines, Limited (2).....							
Coleman Collieries Ltd. (1747).....		..	1	2	..	1	6
McIntyre Coal Mines Ltd. (1765).....		..	..	..	..	1	9
Story River.		..	..	1	1	3	2
						5	10
							11
<b>Sub-Bituminous</b>							
Alberta Coal Ltd. (1046).....		..	1	1	..	..	1
Star-Key Mines Limited (1626).....		..	..	..	..	3	3
		..	1	3	4	3	4
						4	14
							21
							25
Total....							

## ACCIDENTS AS THEY OCCURRED BY MONTHS DURING THE YEAR 1969

Months	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
January.....	..	..	1	1	..	..	1	1	2
February.....	..	..	1	1	..	..	1	1	3
March.....	..	..	..	..	..	..	1	1	1
April.....	..	..	..	..	..	1	..	1	1
May.....	..	..	..	..	..	..	2	2	2
June.....	..	..	..	..	..	..	..	..	..
July.....	..	..	..	..	2	..	1	1	4
August.....	..	..	..	..	1	..	1	1	2
September.....	..	..	..	..	..	..	2	2	2
October.....	..	..	..	..	..	..	1	1	1
November.....	..	..	..	..	..	2	3	3	3
December.....	..	1	1	2	..	2	..	2	4
Total.....	..	1	3	4	3	4	14	21	25

ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND BELOW GROUND  
DURING THE YEAR 1969

Causes	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Fall of roof or sides.....	..	..	..	..	3	4	5	12	12
Haulage.....	..	1	..	1	..	4	4	4	4
Machinery.....	..	..	1	1	..	..	1	1	2
Miscellaneous.....	..	..	2	2	..	..	1	1	2
Slipped and Fell.....	..	..	..	..	..	3	3	3	5
Total.....	..	1	3	4	3	4	14	21	25

## THE MINES DIVISION

ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND BELOW GROUND FOR THE YEAR 1969, CLASSIFIED ACCORDING TO THE AREA IN WHICH THEY OCCURRED

## BITUMINOUS

Area	Above Ground			Below Ground			Total Above and Below Ground	
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	
Cascade.....	..	1	1	2	..	1	6	7
Crowsnest.....	..	..	..	..	..	1	..	1
Smoky River.....	..	..	1	1	3	2	5	10
<b>Total.....</b>	<b>..</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>11</b>	<b>18</b>
								<b>21</b>

## SUB-BITUMINOUS

Edmonton.....	..	..	..	..	..	..	3	3	3
Gastor.....	..	..	1	1	..	..	..	..	1
<b>Total.....</b>	<b>..</b>	<b>..</b>	<b>1</b>	<b>1</b>	<b>..</b>	<b>..</b>	<b>3</b>	<b>3</b>	<b>4</b>

FATAL ACCIDENTS IN MINES

Erwin Jankowski, Miner, 34, on July 30th, 1969, at the mine operated by McIntyre Coal Mines Limited, Grande Cache. A fall of rock and debris occurred, striking workman and causing fatal injuries.

Roderick McLeod, Miner, 56, on July 30th, 1969, at the mine operated by McIntyre Coal Mines Limited, Grande Cache. A fall of rock and debris occurred, striking workman and causing fatal injuries.

Donald Fowler, Machine Operator, 37, on August 7th, 1969, at the mine operated by McIntyre Coal Mines Limited, Grande Cache. Workman was testing the exposed roof at No. 2 Mine, prior to roof bolting, when a large piece of coal slipped from the face knocking him on to the cutting bits of the Joy Continuous Miner, causing fatal injuries.

## THE MINES DIVISION

## NUMBER OF TONS PRODUCED PER ACCIDENT

## BITUMINOUS COAL FIELD

Area	Output	No. of Tons Produced Per Accident			
		Fatal	Serious	Slight	Total
Group 1:					
Cascade.....	267,266	...	133,633	38,181	29,696
Group 2:					
Crowsnest.....	769,489	...	769,489	...	769,489
Smoky River.....	193,522	64,507	96,761	32,254	17,593
Group 3:					
Coalspur.....	199	...	...	...	...
Lethbridge.....	632	...	...	...	...
Total.....	1,231,108	410,369	246,222	94,700	58,624

## SUB-BITUMINOUS COAL FIELD

Group 4:					
Ardley.....	24,186	...	...	...	...
Brooks.....	4,856	...	...	...	...
Carbon.....	4,271	...	...	...	...
Drumheller.....	150,336	...	...	...	...
Edmonton.....	47,007	...	...	15,669	15,669
Pembina.....	2,135,158	...	...	...	...
Taber.....	3,926	...	...	...	...
Group 5:					
Camrose.....	15,398	...	...	...	...
Castor.....	750,748	...	...	750,748	750,748
Sheerness.....	29,302	...	...	...	...
Tofield.....	8,616	...	...	...	...
Westlock.....	21,148	...	...	...	...
Total.....	3,194,952	...	...	798,738	798,738

## SUMMARY

Bituminous.....	1,231,108	410,369	246,222	94,700	58,624
Sub-bituminous.....	3,194,952	...	...	798,738	798,738
Total.....	4,426,060	1,475,353	885,212	260,356	177,042

CLASSIFICATION OF ACCIDENTS ACCORDING TO OUTPUT OF MINES WHICH PRODUCED DURING THE YEAR 1969

Accidents	Under 1,000 tons	1,000 to 5,000 tons	5,000 to 10,000 tons	10,000 to 50,000 tons	50,000 to 100,000 tons	100,000 to 150,000 tons	150,000 to 200,000 tons	200,000 to 300,000 tons	Over 300,000 tons	Total
Fatal.....	...	...	...	...	...	...	...	3	...	...
Serious.....	...	...	...	...	...	...	...	2	2	1
Slight.....	...	...	...	3	...	...	...	6	8	...
Total.....	...	...	...	3	...	...	...	11	10	1
										25

TONS OF COAL PRODUCED PER ACCIDENT

Fatal.....	...	...	...	...	...	...	64,507	...	...	1,475,353
Serious.....	...	...	...	...	...	...	96,761	266,246	3,089,933	885,212
Slight.....	...	...	...	63,439	...	...	32,254	66,562	...	260,396
Total.....	...	...	...	63,439	...	...	17,593	53,249	3,089,933	177,012

## THE MINES DIVISION

## ACCIDENTS

SUMMARY TABLE SHOWING ACCIDENTS OCCURRING IN THE MINES FROM 1950 TO 1969  
INCLUSIVE, REPORTABLE UNDER THE COAL MINES REGULATION ACT.

Year	Output	Accidents			Tons of Coal Mined Per Accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1950.....	8,118,206	20	86	97	405,910	94,398	83,693
1951.....	7,661,276	9	85	53	851,253	90,133	144,552
1952.....	7,194,472	7	79	79	1,027,782	91,069	91,069
1953.....	5,917,423	10	59	60	591,742	100,295	98,623
1954.....	4,859,136	8	51	41	607,392	95,277	118,516
1955.....	4,456,578	3	54	52	1,485,526	82,529	85,703
1956.....	4,329,639	6	34	33	721,607	127,342	131,201
1957.....	3,155,354	2	25	15	1,577,677	126,214	210,357
1958.....	2,519,939	6	19	8	419,990	132,628	314,992
1959.....	2,549,517	1	18	10	2,549,517	141,639	254,952
1960.....	2,404,093	2	16	21	1,202,047	150,256	114,481
1961.....	2,027,826	1	9	11	2,027,826	225,314	184,348
1962.....	2,087,310	4	5	23	521,827	417,462	90,753
1963.....	2,289,943	1	3	11	2,289,943	763,314	208,177
1964.....	2,971,133	1	3	20	2,971,133	990,378	148,557
1965.....	3,413,928	6	3	13	568,988	1,137,976	262,610
1966.....	3,467,254	1	4	28	3,467,254	866,814	123,830
1967.....	3,601,559	...	4	17	...	900,390	211,856
1968.....	3,925,114	...	4	30	...	981,278	130,837
1969.....	4,426,060	3	5	17	1,475,353	885,212	260,356

COMPARISON OF PROTECTIVE CLOTHING USED FOR THE YEARS  
1967, 1968 and 1969.

Clothing	1967	1968	1969
Hard Hats.....	1,114	1,030	994
Safety Shoes, pairs....	746	691	905
Goggles, pairs.....	179	160	226
Knee Pads, pairs.....	2	...	36

COMPARISON OF ACCIDENTS PER 1,000,000 TCNS AND PER 1,000 MEN EMPLOYED, 1950 - 1969

Year	Tonnage	Total No. of men employed	Fatal Accidents			Serious Accidents			Slight Accidents			Total		
			Per 1,000,000 tons	Per 1,000,000 men	Per 1,000,000 employed									
1950.....	8,118,206	7,999	2.46	2.50	86	10.59	10.75	97	11.95	12.13	203	25.01	25.38	
1951.....	7,661,276	7,339	9	1.17	1.23	85	11.09	11.58	53	6.32	7.22	147	19.19	20.03
1952.....	7,194,472	6,326	7	0.97	1.01	79	10.98	11.39	53	10.98	11.39	165	22.93	23.79
1953.....	5,917,423	5,760	10	1.69	1.74	59	9.97	10.24	60	10.42	129	21.80	22.40	
1954.....	4,859,136	4,719	8	1.65	1.70	51	10.49	10.81	41	8.43	8.69	100	20.50	21.19
1955.....	4,456,578	3,801	3	0.67	0.79	54	12.12	14.21	52	11.67	13.68	109	24.46	28.68
1956.....	4,329,639	3,443	6	1.39	1.74	34	9.88	9.88	33	7.62	9.58	73	16.86	21.20
1957.....	2,155,324	2,795	2	0.63	0.72	25	7.92	8.94	15	4.75	5.37	42	13.31	15.03
1958.....	2,519,539	2,021	1	0.38	2.97	19	7.24	9.40	8	3.17	3.96	33	13.10	16.33
1959.....	2,549,517	1,720	1	0.39	0.58	18	7.07	10.46	10	3.12	3.82	29	13.17	16.86
1960.....	2,404,093	1,729	2	0.83	1.16	16	6.66	9.25	21	8.74	12.14	39	16.22	22.55
1961.....	2,027,826	1,323	1	0.49	0.76	9	4.44	6.80	5	5.42	8.31	21	10.36	15.87
1962.....	2,087,310	1,281	4	1.92	3.12	5	2.39	3.90	23	11.02	17.95	32	15.33	24.98
1963.....	2,289,943	1,151	1	0.44	0.87	3	1.21	2.61	11	4.80	6.55	15	11.05	13.03
1964.....	2,971,133	1,188	1	0.34	0.84	3	1.01	2.52	20	6.73	16.83	24	8.08	20.20
1965.....	3,413,928	1,181	6	1.76	5.08	3	0.88	2.54	28	3.81	11.01	6	4.44	18.63
1966.....	3,487,254	1,146	1	0.29	0.87	4	1.15	3.49	28	8.07	24.43	33	9.52	28.79
1967.....	3,601,559	1,162	***	***	***	4	1.11	3.44	17	4.72	14.63	21	5.83	18.07
1968.....	3,925,114	1,103	3	0.68	1.02	4	1.02	3.63	30	7.64	27.20	34	8.66	20.83
1969.....	4,426,060	1,209	1	0.68	2.48	5	1.13	4.13	17	3.84	14.06	25	5.65	20.68

## THE MINES DIVISION

## BOARD OF EXAMINERS

The Board of Examiners during the year consisted of the following:

As representing:

The Mine Inspectorate: P. Melson, Director of Mines.  
 Managers: H. Crawford and E. J. Panchyshyn.  
 Underground Miners: S. Liska.  
 Strip Mine Workers: K. D. Wiltse.  
 Secretary: M. B. Rasmussen.

Examinations for the following classes of certificates were held in Edmonton and Calgary on May 6th, 7th and 8th and in Edmonton on October 31st, 1969.

Five candidates presented themselves for examination for First Class (Underground) Certificates, and four were successful.

One candidate presented himself for examination for Second Class (Underground) Certificate, and was successful.

Ten candidates presented themselves for examination for Third Class (Underground) Certificates, and six were successful.

Two candidates presented themselves for examination for Surveyors' (Underground) Certificates, and one was successful.

Two candidates presented themselves for examination for First Class Mine Electricians' Certificates, and both were successful.

Two candidates presented themselves for examination for Second Class Mine Electricians' Certificates, and both were successful.

Six candidates presented themselves for examination for Managers' (Strip Mine) Certificates, and two were successful.

Six candidates presented themselves for examination for Foremen's (Strip Mine) Certificates, and one was successful.

One candidate presented himself for examination for Blaster's (Strip Mine) Certificate, and he was successful.

The following list gives the names of successful candidates.

## UNDERGROUND MINES

## FIRST CLASS

Name	Address	Cert. No.	Date of Certificate
Shaw, John D.	Edmonton	5	14-11-69
** Cook, Gordon	Edmonton		
** Hartley, Gerald	Edmonton		
** Parkes, David M.	Edmonton		

## SECOND CLASS

Lowther, William B.	Canmore	9	4- 6-69
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## THIRD CLASS

Grainger, Kenneth J.	Canmore	35	5- 6-69
Michalsky, Edgar	Coleman	36	11- 6-69
Squarek, John	Bellevue	37	8-10-69
Skrzyzala, Ludwik	Coleman	38	9-10-69
** Gray, Gilbert L.	Coleman		
** Brady, Ralph G.	Hillcrest Mines		

## SURVEYOR

Crawford, Hugh	East Coulee	8	9- 6-69
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## FIRST CLASS MINE ELECTRICIAN

Thomson, Donald W.	Halkirk	19	3- 6-69
Claxton, Russell L.	Edmonton	20	24- 6-69

## SECOND CLASS MINE ELECTRICIAN

** Comin, Louis	Canmore	8	11- 6-69
** Souvie, Ronald T.	Canmore		

## STRIP MINES

## MANAGER

Carriere, Louis H.	Estevan, Sask.	24	5- 6-69
Wasson, Waldo B.	Calgary	25	15- 7-69

## FOREMAN

** Doerr, Kenneth C.	Calgary
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## BLASTER

** Emblau, Archibald A.	Canmore
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\*\* Certificate not issued as at December 31st, 1969.

In addition to the foregoing, the following certificates as Manager (Strip Mine) were issued, without examination, under Section 74 (2) of The Coal Mines Regulation Act.

Strickland, Antony	Coleman	23	27- 2-69
Shaw, John D.	Edmonton	26	14-11-69

The following substitute First Class Mine Electrician's Certificate was issued.

Roome, Ronald	Edson	18	17- 2-69
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## THE MINES DIVISION

## EXAMINATIONS UNDER THE QUARRIES REGULATION ACT

Written examinations for certificates under the above Act were held during the year, on April 30th, May 6th and May 8th.

Eight candidates presented themselves for examination for Managers' Certificates, and four were successful.

Eighteen candidates presented themselves for examination for Foremen's Certificates, and thirteen were successful.

The following list gives the names of successful candidates.

## QUARRIES

## MANAGER

Name	Address	Cert.	Date of Certificate
Love, Dennis E.	Fort McMurray	34	20- 5-69
Fenton, James B.	Exshaw	35	20- 5-69
Coast, Ronald L.	Cadomin	36	23- 5-69
Weston, Peter S.	Exshaw	37	23- 5-69

## FOREMAN

Rasmussen, Jens A.	St. Albert	58	20- 5-69
Sheillan, Andrew F.	Canmore	59	20- 5-69
Bjur, Edward E.	Fort McMurray	60	20- 5-69
Herman, Alexander A.	Fort McMurray	61	20- 5-69
Hopfner, Donald	Fort McMurray	62	20- 5-69
Mazurenko, Bohdan	Fort McMurray	63	20- 5-69
Taylor, Arthur E.	Fort McMurray	64	20- 5-69
Medwid, Michael E.	Fort McMurray	65	23- 5-69
Barnes, Ronald D.	Fort McMurray	67	23- 5-69
Cameron, Arthur D.	Fort McMurray	68	23- 5-69
Czernick, Wilfred M.	Edmonton	69	23- 5-69
Hoffmann, Frank G.	Exshaw	70	23- 5-69
Higdon, Augustus A.	Fort McMurray	71	23- 5-69

The following list gives the names of successful candidates, by oral examination, for Quarry Blasters' Certificates.

## BLASTER

Rice, Douglas A.	Fort McMurray	73	2- 5-69
Skakun, William A.	Fort McMurray	74	2- 5-69
Peters, Rodney W.	Canmore	75	30- 5-69
Routledge, Kenneth A.	Calgary	76	2- 6-69
Ray, Leonel Y.	Fort McMurray	77	23-10-69
Sartorius, Glenn W.	Fort McMurray	78	23-10-69

LIST OF MINES PRODUCING DURING  
The Year 1969  
Character of Coal:- Bituminous

MINE NO.	OPERATOR	MINE OFFICE ADDRESS	MINE LOCATION L.S. S. T. R. M.	REGISTERED TRADE NAME	DATE OF OPENING
2	The Canmore Mines Limited... Cascade Area	Canmore..... Parts	24-10-5	Canmore Smokeless Coal, Canmore Briquette.....	1891
1695	Coleman Collieries Ltd..... Coleman Collieries Ltd..... Coleman Collieries Ltd..... Coalspur Area	Coleman..... Coleman..... Coleman..... Robb.....	12- 7- 6-5 16-19- 9- 4-5 586-10- 4-5	Coleman Coal..... Vicary Creek Coal..... Vicary Creek Coal..... King Coal.....	1949 1957 1966
1747	Lethbridge Area	Lethbridge.....	7-21-10-21-4	Bridge.....	1968
1764	Bridge Mining Corporation Ltd. Smoky River Area	Edmonton.....	57- 8-6 & 58- 9	.....	1967
1762	McIntyre Coal Mines Ltd.....				
1765					

## THE MINES DIVISION

## LIST OF MINES PRODUCING DURING

The Year 1969

## Character of Coal:- Sub-bituminous

MINE NO.	OPERATOR	MINE OFFICE ADDRESS	MINE LOCATION L.S. S. T. R. M.	REGISTERED TRADE NAME	DATE OF OPENING
809 1734	Ardley Area Sisson's Mine..... John Lyrass.....	Alix..... Delburne.....	S.W. $\frac{1}{4}$ of 7-20-38-23-4	Sisson's Coal..... Lyraas Coal.....	1919 1955
1404	Kleenburn Collieries Ltd.....	Bow City.....	pts. of 15-17-17-4	Birmeel Coal.....	1922
724	Brooks Area Camrose Area Burnstad Coal Ltd.....	Round Hill.....	N. $\frac{1}{2}$ of 6-14-48-18-4	Burnstad's Coal.....	1917
194	Carbon Area New Ghost Pine Coal Co., Ltd.. Castor Area	Three Hills..... Halkirk.....	4&9-31-22-4 1,5816-20-40-15-4	New Ghost Pine Coal..... Cordel Coal, Vesta Coal, Sterling, Victory Coal, Blue Flame Coal,..... Diplomat Coal, Ambassador,..... All-Fire Coal,.....	1909 1922 1941 1943
1046	Alberta Coal Ltd.....	Forestburg.....	N.W. $\frac{1}{4}$ of 6-41-15-4		
1578 1614	Forestsburg Collieries Ltd..... Settler Coal Co., Ltd.....	Halkirk.....	11-25-40-16-4		
1666	Drimmeller Area Subway Coal Company..... Century Coals Limited.....	Rosedale..... East Coulee.....	13-16-28-19-4 14- 6-27-18-4	Subway Coal..... Atlas Coal, Commander Coal, New Wild Fire Coal, New Murray Coal, Western Gem, Hy-Grade, Purity Hard,..... Utility Coal,.....	1947 1996 1950
1742	Fox Coulee Coal Co. Ltd.....	Drimmeller.....	2-17-29-20-4		
1756					

## LIST OF MINES PRODUCING DURING

The Year 1969

## Character of Coal:- Sub-bituminous

MINE NO.	OPERATOR	MINE OFFICE ADDRESS	MINE LOCATION I.S. S. T. R. M.	REGISTERED TRADE NAME	DATE OF OPENING
1582	Edmonton Area	Morinville..... St. Albert..... Edmonton.....	W. $\frac{1}{2}$ of 36-56-26-4 16, 10&11-35-54-25-4 S.W. $\frac{1}{4}$ of 13-52-25-4	Egg Lake Coal..... Star-Key Coal..... Red Hot Coal.....	1941 1945 1952
1626	Egg Lake Coal Co., Ltd.....				
1727	Star-Key Mines Limited..... Whitemud Creek Coal Co., Ltd..				
1670	Pembina Area	Warburg..... Evansburg..... Wabamun.....	S.W. $\frac{1}{4}$ of 12-13-49-3-5 10-54-7-5 16&15-53-4-5	Pinter Coal..... Pembina Peerless Coal..... Whitemud.....	1948 1954 1962
1729	Warburg Coal Co., Ltd.....				
1757	Charles Obertag..... Alberta Coal Ltd.....				
443	Sheerness Area	Sheerness.....	S.E. $\frac{1}{4}$ of 13-29-13-4	Roslyn, Berry Creek, Volcano.....	1915
1766	Alberta Coal Ltd..... Taber Area	Taber..... Henry Miller (Taber Ax.)....	4, 10&11-10-17-4	Taber Ax.....	1968
215	Tofield Area				
1523	Dodds Coal Mining Co., Ltd..... Westlock Area	Ryley..... Picardville..... North Point Coal Co., Ltd..... Thorhild.....	S. $\frac{1}{2}$ of 14-4-9-18-4	Dodds Coal..... Picardville Coal..... North Point Coal.....	1909
1562	Picardville Coal Co. (1960) Ltd.				
	North Point Coal Co., Ltd.....		16-35-58-27-4 1-11-60-21-4		

## THE MINES DIVISION

LIST OF QUARRIES PRODUCING DURING  
The Year 1969

QUARRY NO.	OPERATOR	QUARRY OFFICE ADDRESS	PRODUCT	QUARRY LOCATION L. S. S. T. R. M.	DATE OF OPENING
Q 38	Athabasca Valley Development Corporation Ltd. Brule Area Cascade Area	Calgary.....	Limestone.....	5811-13-4-9-27-5	1958
Q 2	Canada Cement Company Limited.....	Exshaw.....	Limestone.....	Pts. of	27428-24-9-5
Q 27	Canada Cement Company Limited.....	Exshaw.....	Shale.....	Pts. Secs.	7-2-8-5
Q 28	Rundle Rock Building Stone Co., Ltd.....	Calgary.....	Building Stone.....	Pts. Secs.	17,18819-2-9-10-5
Q 47	Ladders, Lime Division.....	Exshaw.....	Limestone.....	Pts. Sec.	24-2-10-5
Q 58	Thunderstone Quarries Ltd.....	Garnmore.....	Building Stone.....	N.E. 1/4	12-7-2L-9-5
Q 70	Cascade Builders Limited.....	Calgary.....	Limestone.....		8-28-22-6-5
Q 37	Dresser Industries Inc.....	Rossland.....	Bentonite.....		19416-31-4-2-17-4
Q 8	Summit Lime Works Ltd.....	Crownest, B.C.....	Limestone.....	Pts. of	7- 8- 5-5
Q 5	Edmonton Area	Edmonton.....			1920
Q 22	Northwest Brick and Tile.....	Edmonton.....	Clay.....	N.E. 1/4 of	21-3-25-5
	Inland Cement Industries Limited.....	Edmonton.....	Clay.....	Pts. of	154223-33-25-4
	Mountain Park Area				1955
Q 21	Inland Cement Industries Limited.....	Cadomin.....	Limestone.....		13-30-4-6-23-5

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LIST OF QUARRIES PRODUCING DURING  
The Year 1969

QUARRY NO.	OPERATOR	QUARRY OFFICE ADDRESS	PRODUCT	QUARRY LOCATION L.S. S. T. R. M.	DATE OF OPENING
Q 64	Sunalta Oyster Shell Mines Ltd.*****	Cardston.....	Limestone.....	5- 3- 4-27-4	1964
Q 34	Medicine Hat Brick & Tile Company, Limited.	Medicine Hat.....	Shale.....	5,6,11&12-20- 8-3-4	1957
Q 39	Medicine Hat Brick & Tile Company, Limited.	Medicine Hat.....	Shale.....	20- 8- 4-4	1959
Q 45	Medicine Hat Brick & Tile Company, Limited.	Medicine Hat.....	Shale.....	10&15- 9- 8- 4-4	1959
Q 66	Medicine Hat Brick & Tile Company, Limited.	Medicine Hat.....	Shale.....	6-11- 7- 2-4	1967
Q 7	Medicine Hat Brick & Tile Company, Limited.	Medicine Hat.....	S. W. $\frac{1}{2}$ of Shale.....	9-13- 6-4	1933
Q 14	Medicine Hat Brick & Tile Company, Limited.	Medicine Hat.....	Shale.....	1&2-31-12- 4-4	1951
Q 24	Consolidated Concrete Industries Ltd.*****	No Area	Calgary.....	3,4&5-32-21-29-4	1956
Q 36	Northwest Brick and Tile.....	Edmonton.....	Shale.....	N.E. $\frac{1}{4}$ of 9	
Q 41	Syncrete Canada Ltd.*****	Edmonton.....	Oil-Sands....	5&6-16-66-22-4	1958
Q 65	Great Canadian Oil Sands Limited.....	Edmonton.....	Oil-Sands....	15-34-92-10-4	1959
				23-92-10-4	1964

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