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State Inspector of Coal Mines

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1937



1938

THE BRADFORD-ROBINSON PTG. CO., DENVER

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LETTER OF TRANSMITTAL

Denver, Colorado, April 1, 1938.

To His Excellency, TELLER AMMONS, Governor of Colorado.

Sir: Herewith I have the honor to submit to you, in accordance with Section 3475 of the Compiled Laws of Colorado of an Act entitled "Coal Mining Laws," Annual Report of this department.

The period covered being the calendar year 1937.

Respectfully,

THOMAS ALLEN, State Inspector of Coal Mines.

PERSONNEL OF THE COAL MINE INSPECTION DEPARTMENT

THOMAS ALLEN, Chief Inspector	Denver, Colorado
ADA R. TIBBITS, Chief Clerk	Denver, Colorado
MAX M. GREENWALD, Assistant Clerk	Denver, Colorado
VEDA BURFORD, Safety Director	Denver, Colorado

FIELD FORCE AND DISTRICTS

HUGO H. MACHIN, Boulder	District No. 1
Boulder, Weld, Jefferson, Larimer counties- north of Littleton outcrops to Wyoming line the range. East of Denver to mines east of Li	and east of
George C. DALRYMPLE, Trinidad All mines in Las Animas county.	District No. 2
FINLAY McCallum, Steamboat Springs Routt, Moffat, Garfield excepting Stove Canon Blanco, Pitkin, Jackson (in summer and fall)	n mines, Rio
J. J. RODDY, Montrose Mesa, Delta, Gunnison, Montrose, Ouray, S Dolores, Montezuma, Archuleta, La Plata, an Canon mines in Garfield county.	San Miguel,
GEORGE H. SMITH, Canon City Fremont, El Paso counties, and all mines east Springs, to junction of District No. 1, which point east of Limon, on Kansas road at the last Limon.	of Colorado extends to a
MYRON WILLIAMS, Walsenburg All mines in Huerfano county.	District No. 6

SUMMARY OF THE COAL PRODUCTION OF COLORADO FOR 1937

	382
Number of mines licensed	
Tons of sub-bituminous coal produced	
Tons of semi-bituminous coal produced	
Tons of bituminous coal produced	
Tons of anthracite coal produced	3,717
Total number of tons of coal produced (see additional tonnage in supplement below)	7 1 9 5 2 9 5
Increase, 1937 (see additional tonnage in supplement below)	
Tons of run of mine coal produced	
Tons of lump coal produced	
Tons of egg coal produced	
Tons of nut coal produced	
Tons of pea coal produced	
Tons of slack coal produced	
Percentage of slack coal produced	
Tons of coal mined by hand	
Tons of coal mined by machine	3,608,050
Number and kind of machines used: Compressed air, 26; electric, 382; total	408
Number of mechanical loaders	
Number of tons mined by mechanical loaders	
Tons of coal mined for shipment: By railroad, 5,385,447; by truck	1,100,200
and wagons, 1,627,340; total	7,012,787
Tons of coal used at the mine for power and heat	
Tons of coal shipped out of the state	
Tons of coal made into coke	
Tons of coke made	551,167
Number of days coke ovens operated	365
Number of coke ovens used	311
Number of men employed at coke ovens	82
Number of miners employed: Pick miners, 2,005; machine miners,	
3,968; total	5,973
Number of men employed in and about mines (average): Under- ground, 7,862; surface, 1,587; total	
	9,449
Number of days worked	201.9
Daily production per miner	5.96
Annual production per miner	1,037
Number and type of safety lamp used: Flame, 421; electric, 6,355;	0.070
total	8,876
Number of carbide lamps used	2,688
Number of pounds of carbide used (approximate)	93,340
Number of pounds of black powder used	· •
Number of pounds of permissible powder used	490,982
Number of pounds of dynamite used	30,579
Number of men killed: Underground, 22; surface, 2; total	24
Number of men injured	905
Number of men killed per thousand employed-actual number of	0 70
days worked	2.53
Number of men injured per thousand employed	95.7
Number of tons of coal produced for each life lost	299,808
Number of tons of coal produced for each non-fatal accident	7,950
Number of men employed per fatal accident	393.2
Number of men employed per non-fatal accident	10.4
Number of widows left	10
Number of children left fatherless	25

STATEMENT SHOWING RECEIPTS AND DISBURSE-MENTS FROM JANUARY 1 TO DECEMBER 31, 1937

RECEIPTS

Tax collected on coal mined\$	23,833.45
License to operate coal mines	10,195.00
Sales of copies of the coal mining laws	103.00
Sale of duplicate certificates	2.00
Miscellaneous receipts	21.77
Balance brought forward from 1936	9,768.33
-	
Total	43.923.55

DISBURSEMENTS

Salaries entire department\$	23,021.10
Fatal accident investigators, per diem and expenses	210.04
Railroad transportation	82.88
Automobile mileage and expenses	3,000.49
Board of examiners (rent for grading papers; 1936 mine offi-	
cials' examination)	68.65
Printing	1,299.97
Postage	619.39
Stationery and office supplies	654.77
Telephone service (toll calls entire department)	486.79
Telegraph service	73.12
Hotels	834.81
Meals	577.76
Instruments and appliances	378.55
Office rent	855.04
Express	2.50
Field equipment, training and miscellaneous (truck and equip-	
ment, \$4,400.00)	6,290.61
Total	29 156 17
Total\$	
Balance on hand December 31, 1937\$	5,607.83

INTRODUCTION

Twenty-fifth Annual Report

OF THE

STATE INSPECTOR OF COAL MINES 1937

In 1937 the coal tounage produced was 7.215,916; this is an increase of 370,079 tons over 1936. This tonnage was produced by 382 licensed coal mines, employing an average number of 9,449 miners, who worked 201.9 man-days.

Of the 382 licensed coal mines, only 87 have railroad connection, the balance being served by trucks and wagons.

The number of fatal accidents for 1937 was 24; a reduction of five fatal accidents compared with 1936. The number of non-fatal accidents for 1937 was 905; a reduction of 243 non-fatal accidents compared with 1936.

In 1937 the coal production increased over 1936; a greater number of men worked in the mines; 53 additional coal operators secured licenses to operate coal mines; and a considerable reduction in both fatal and non-fatal accidents, which in a large measure resulted from the cooperation of the miners and the coal operators with this department, in the development of an organized effort to reduce coal mine accidents.

GENERAL FIELD FORCE

During the year 1937 two Deputy Coal Mine Inspectors—Mr. James W. Graham, Sr., and Mr. William M. Laurie—retired from the field force of the Coal Mine Inspection Department.

Mr. Graham served as a Deputy Inspector for twenty-five years and Mr. Laurie held the position of Deputy Inspector for twentyone years. These two men served the State of Colorado faithfully, conscientiously and fearlessly. The Coal Mine Inspection Department regrets the loss of these two loyal men; however, they have earned the privilege of resting after the splendid record left behind them.

In October, 1937, four new Deputy Inspectors joined the field force.

The State was divided into six districts instead of four districts.

The names and addresses of the field force and the districts are included in this publication under the heading of "Personnel of the Coal Mine Inspection Department."

SAFETY ACTIVITIES IN COLORADO DURING 1937

During the past year (1937) a complete file of men and women completing courses in first aid and mine rescue was assembled in the office of the Coal Mine Inspection Department. These men and women may be reached immediately in an emergency, the file giving complete information as to where they may be reached, etc.

Fifteen hundred men received renewal training or original first aid training; 150 men were trained in mine rescue; 150 women received first aid training. These different groups completed their assigned courses and received the State Certificate of Qualification.

The training of all safety groups for this work was carried on through the cooperation of the State Board for Vocational Training and the U. S. Bureau of Mines.

Approximately 2,000 men enrolled in twelve chapters of the Holmes Safety Association. These chapters received assistance from coal operators' and coal miners' organizations in their respective areas. Some chapters organized women's auxiliaries in this work with approximately 600 women in attendance.

Women employed by the State WPA made 500 compresses and possibly 2,000 triangular bandages for practice in first aid instruction. Men employed by the State WPA made splints for first aid practice in coal mining areas.

Six hundred men were trained for official positions in coal mines.

During 1937 many local contests in first aid work were held at different parts of the State. This contest work is a very great incentive to the continuation of practice in this necessary work.

SAFETY EQUIPMENT

The Coal Mine Inspection mine rescue truck. fully equipped, is ready for call at all times. This truck, when not in service, is stored in the garage of the Colorado Courtesy Patrol. The State Courtesy Patrol, in addition to the use of their garage for the mine rescue truck, will provide the following assistance: A driver for the mine rescue truck in case of accident and a right-of-way over all traffic to the scene of the disaster.

The State Highway Department will cooperate in times of disaster, and we are privileged to call upon any district engineer in the State, who will provide trucks and automobiles if it should be necessary to transport men and equipment from one district to another.

The Colorado National Guard will provide, in case of serious accidents, tents for temporary housing and bedding and cooking equipment to handle large rescue crews. Governor Ammons has ordered that in emergencies a National Guard aeroplane or aeroplanes be placed at the disposal of the department.

The Public Service Company of Colorado will lend us any of their equipment. They have among other things, six all-service gas masks and two inhalators.

WORK OF THE FIELD FORCE

The following is a summary of the work done by the field force during the year:

Total number of inspections made	975
Number of fatal accidents investigated	18
Number of inquests attended	19
General investigations and adjustments	53
Total number of miles traveled by field force43	,861

Respectfully submitted,

THOMAS ALLEN,

State Inspector of Coal Mines.



DIRECTORY OF COAL MINES IN THE STATE OF COLORADO FOR THE YEAR ENDING DECEMBER 31, 1937

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L. P. Grai Gene Platt Reek Paul to W. H. Knowlton Brook Nearth Land Co.	teras Elder Hethrick rf. K	Sau Migori Sau Miguel Sau Miguel Sau Miguel	Gpue Lider	Norwood Norwood Norwood Nitriviod	W II Kyck W II Knowfton	Nurwood Norwood Nurwood Nurwood	Noto Noto Noto Noto	Not Reported Not Reported		11 2 11 2 X 1 1 5 10 12
Brocky Mountain Enel Co Brocky Mountain Fuel Co Houlder Victory Coal Co N Attenui Cinel Fo Mountain Coal Co	Columbia Galut Bouhler Valley Puriban	Weld Weld Weld Weld	J. H. Larwson J. H. Larwson P. M. Pelitor T. E. Jenktus	Domen Densor Densor Houser	Let Hodgson Three Glida Wire Andrew Hos Willingto	Solvine Urođerti k Birle Bitle		300 145 170 110		5 10 12 6 Ng (c. 11 11 5 10 2 10 6
Himperial Coal Co (Chystore Ford Co (Chystore Charler (Chystore Charler) Wm (D. Danse (D. Coal Co (Compatible ford Coal A. Coder Co	Imperial Chryton Wortteon Hussell	Weld Weld Weld Weld	dames Dictinin 11 D.C. modell 11 D.C. frandell Win K. Dynsett	Honter Denter Benver Benver	Educer Davis John Sidle John Sidle Andrew Wilson	fytte Hirte Hirte Fredrijke		100 130 140 228 245		4 4 4
Canvallated Could A Poke Co Mex (1109ml Could Shannack Could Co Lar Sulle Ford Co Graden Could Co	Reuna Sterling Shrintoa k La Sofle Granfeir	Wold Wold Wold Wold Wold	Carvon W. Smith Floyd H. Poul	Detover Detover Eric Greeb y Longmunt	Jahn & Hitchnitrin corn II My Nell P. II. Powell Walter Presedunti	- Horano Rely Rely Greeker Longinord	F P F P None None	205 - 30 - 100 		5 E 5 I O
P. Lennes	Holdender Bieldy Come 1	Weld Weld Weld Weld	Gene W. Belrd	La Salle La Salle Falctoir Unictoir	Here Holdender A Hud Early Geo Might (va	La Srife La Salle Exten Fadebu	Nata Nata Nata Nata	- 1 10 1 40 1 50		
Diamond Corl Co White Ash Port Ev American Corl Co Roy Ic Brunda	Planotol White Anh Erate Tanco	Weld Weld Weld Weld	If 1. Hennely	La Selle La Selle Denver Torthiglois Wyo	Anton Behring Poy I ling	La Sulle La Sulle Fysderick Fordølt	None None None Note	130 Mi Not Heporton 210 20		10 10 10
11.) E Confide Reoth Confi Co	With rise Kenn Park (Monroe)	Webi Webi Wydd	Dis Profe	Langlood Keoln Longlood	II 1 Courles	Pit Eripten Reads Langroand	N 400 None None	210 Not Reported	Int	5
			and the second s		-					



TABLE NO. 1

TABLE SHOWING, BY COMPANY AND INDIVIDUAL OPERATORS, NUM-BER OF TONS PRODUCED, NUMBER OF MEN EMPLOYED AND NUMBER OF MEN INJURED FOR THE YEAR 1937

COMPANIES	Total Production	No. of Men Employed	No. of Fatal Accidents	Number of Non-Fatal Accidents
Ainsworth, H. A American Coal Company American Smelting & Ref. Co Anchor Coal Company Ausec, Frank	$764 \\ 25,043 \\ 127,685 \\ 421 \\ 8,785$	$\begin{smallmatrix}&&3\\&3\\170\\&&3\\15\end{smallmatrix}$	 	 22
Aztec Coal Mining Co Babb, John, Jr Babson Coal Co Baione, Joe Bald Coal Co	$12,968 \\921 \\5,006 \\699 \\2,322$	$5\frac{2}{3}$ 4 4 12	······	
Barber Coal Co Barker, R. B Barnell, Geo. M Barnes, S. E Batchelor & Richardson	7,153 3,755 3,807 1,472 177	9 4 4 3	······	2
Bear, Tony Bear Canon Coal Co Bear River Coal Co Beer, Wm. J Beltramo & Sons	$\begin{array}{r} 18,525\\ 28,555\\ 60,602\\ 21,926\\ 3,291\end{array}$	$21 \\ 43 \\ 78 \\ 42 \\ 11$	 	$\begin{array}{c}1\\1\\11\\12\\3\end{array}$
Bennett Coal Co Bierce, Jas. A Black Cat Coal Co Black Diamond Coal Co. (Boulder) Black Diamond Fuel Co. (La Plata)	$53 \\ 428 \\ 2,842 \\ 55,076 \\ 3,778$	$\begin{array}{c}2\\2\\5\\5\\6\end{array}$	······	 8 1
Blackhawk Coal Mining Co Blue Blaze Mining Co Bluff Springs Leasing Co Bohlender Coal Co Boulder Valley Coal Co	$10,735 \\ 1,365 \\ 16,074 \\ 2,521 \\ 272,770$	$29 \\ 10 \\ 33 \\ 6 \\ 244$	······	$\frac{3}{6}$ $\frac{3}{24}$
Bowerman, J. C Brookside Coal Mining Co Brundy, Roy L Buddy Coal Co Burchfield & Clark	2,955 4,595 87 1,937 139	$\begin{smallmatrix}&&3\\14\\&&2\\&4\\&&4\\&2\end{smallmatrix}$	······	1 1
Busheff, N. M Butte Valley Coal Co Caddell, Ed Caldirola Coal Co Caliente Coal Co	$17,532 \\ 16,212 \\ 2,177 \\ 11,706 \\ 47,603$	$26 \\ 101 \\ 9 \\ 27 \\ 149$	 	$\frac{1}{1}$
Calumet Fuel Co Canon Black Diamond Fuel Co Canon Blue Ribbon Coal Co Canon Coal Creek Coal Co Canon Ideal Coal Co	$301,704 \\ 42,456 \\ 1,905 \\ 291 \\ 1,689$	$\begin{array}{r}310\\49\\9\\4\\3\end{array}$		²² 2
Canon Imperial Coal Co Canon King Coal Co Canon Liberty Coal Co Canon Peacock Coal Co Canon Red Arrow Coal Co	2,691 271 1,194 1,582 4,348	9 2 5 8 6	 	
Canon Reliance Fuel Co Caprock Fuel Co Cardone & Rocchio Castle Coal Mining Co Clara Belle Coal Co	$282 \\ 27,014 \\ 2,222 \\ 15,419 \\ 4,416$	$\begin{smallmatrix}4\\1\\4\\2\\0\\2\\0\end{smallmatrix}$	 	3 6

STATE INSPECTOR OF COAL MINES

TABLE NO. 1—Continued

COMPANIES	'Potal Production	No. of Men Employed	No. of Fatal Accidents	Number of Non-Fatal Accidents
Clark Coal Co Clayton Coal Co Coke, Frank Colorado Fuel & Iron Corp City Mine No. 1	2,717 249,689 3,535 1,459,781 51,241	$312 \\ 6 \\ 1,690 \\ 53$	1 	
Coles, W. E Colorado & Utah Coal Co Combs, R. E Comet Coal Co Consolidated Coal & Coke Co	$\begin{array}{r}12,022\\227,216\\360\\296\\110,793\end{array}$	$\begin{array}{r} 6\\229\\8\\2\\114\end{array}$	1	22
Corley Coal Co Cracker Jack Coal Co Crawford, Boyd E Creager, L. W Crested Butte Coal Co	8,711 5,648 305 214 28,332	$\begin{array}{c} 40\\13\\2\\1\\33\end{array}$		
Cuckoo Coal Co Daisy Coal Co Dalrymple, J. M Danville Coal Co De Boy, Frank	3,304 1,263 1,869 2,731 176	$\begin{array}{c}16\\3\\2\\2\\1\end{array}$		3
Deldosso Coal Co Diamond Coal Co Diamond Fuel Co Dick Coal Co Dill & Boglino	$26,421 \\ 1,748 \\ 410 \\ 24,103 \\ 346$	$\begin{array}{c} 42\\ 4\\ 2\\ 28\\ 2\end{array}$	······	3
Domestic Coal Co Duca, Bernard Z Dufur, Xavier Durango Coal Co Durkan, Jas, T	$17,928 \\ 6,653 \\ 156 \\ 459 \\ 354$	$\begin{array}{c} 22\\10\\2\\2\\3\end{array}$		4 2
Eckert, J. Andrew Edwards Coal Mine Co Eldorado Coal Co Estes, Tedford Evans Coal Co	$772 \\ 2,378 \\ 4,854 \\ 705 \\ 2,467$	2 4 8 2 8		
Fabec, Louis	$304 \\ 291 \\ 189 \\ 1,655 \\ 1,067$	3 2 5 6 3	······	
Foreman, Thos. D Franceville Coal Co Frisco Coal Co García, Benito Garfield Coal Co	$259 \\ 2,972 \\ 2,401 \\ 950 \\ 10,337$	$\begin{smallmatrix}&&2\\15\\5\\&&2\\16\end{smallmatrix}$	 	
Gearhart, Ballard George, Sam, & Sons Giordano Coal Co Giuliano-Carpine Coal Co Gorbella, Domenik	5,317 312 1,091 30,311 134	7 2 35 7 2 5 2		2
Gordan Coal Co Graden Coal Co Grand Prize Coal Co Griffiths Coal Co Gunnison Anthracite Coal Co	$39,090 \\ 24,397 \\ 4,304 \\ 11,329 \\ 1,981$	$53 \\ 27 \\ 14 \\ 19 \\ 9$	 1	4 2 3

TABLE NO. 1-Continued

COMPANIES	Total Production	No. of Men Employed	No. of Fatal Accidents	Number of Non-Fatal Accidents
Gwynn, E Halcomb, C. O Hammond, W. C Hansen, D. L Hare, James	449 400 277 15,812 729	2 2 3 4 8 2		6
Hart, G. G., & Sons Hasty, M. M Hawks Nest Coal Co Hayden Coal Co Hayden Valley Mutual Coal Co	$748 \\ 375 \\ 1,597 \\ 162,606 \\ 5,356$	$2 \\ 4 \\ 8 \\ 178 \\ 15$	 4	35
Henry & Coon Hesperus Coal Co Hicks, Ernest High View Coal Co Hiland Coal Mines, Inc	5291,1232,9707,8984,772	$1\\4\\2\\10\\9$	 	
Home Fuel & Supply Co Hopper, A. F. Howells, Thos. H. Huerfano Coal Co Hughes, Wm.	2,7057408,75342,3902,116	4 3 18 81 5	 1	4
Ideal Coal Co Imperial Coal Co Independent Coal Co Ingle-Haas-Ingle James Brothers	1,919183,0561,190337426	$\begin{array}{r}4\\149\\4\\1\\2\end{array}$	1 	
Jefferson Coal Co Jeffryes Fuel Co Jewell Collieries Corp Jimmie Camp Auld Reekie C. C Johnson, Claude L	$7,830 \\ 1,587 \\ 37,056 \\ 3,825 \\ 594$	9 3 65 8 2	 	1 2 4 1
Johnson, John F Jones, R. C Juanita Coal & Coke Co Keck, W. R Kerr Coal Co	$149\\236\\45,479\\567\\31,700$	$\begin{array}{r}1\\2\\60\\36\end{array}$	 	 3 1
Keystone Coal Co King, H. P Klikus, John Klondyke Coal Co Knez, Joe L	72,1483431371,6267,164	117 2 2 4 5	1	4
King & Knowlton Kovac, Martin Ko-Z Coal Co La Salle Coal Co Lawrence & Spohr	$\begin{array}{r} 418 \\ 1,103 \\ 6,019 \\ 2,598 \\ 90 \end{array}$	$\begin{array}{c}2\\2\\1\\0\\7\\2\end{array}$		1
Le Donne, James Leyden Lignite Co Liberty Coal Co Liley & Merlino Little Johnny Coal Co	140,5626777212,974	$\begin{array}{r}2\\114\\2\\13\\8\end{array}$	1 	8 1
Llewellyn Coal Co Louisville-Lafayette Coal Co Majestic Coal Co. Major Coal Co. Maloney, Joe	$204 \\131,004 \\434 \\11,748 \\4,380$	$\begin{array}{r}2\\139\\4\\22\\14\end{array}$	1 1	15 1

STATE INSPECTOR OF COAL MINES

TABLE NO. 1-Continued

COMPANIES	Total Production	No. of Men Employed	No. of Fatal Accidents	Number of Non-Fatal Accidents
Mancos Coal Co Manley, William, Sr Marinelli, Mike Martin Coal Co McBroom, Chas	1,846 7,842 224 4,194 86	$\begin{smallmatrix}&&3\\16\\&&3\\&&3\\1\end{smallmatrix}$		 1
McDowell, John McKillip & Cox	1,526 251 1,561 989 112,854	$\begin{array}{c} 4\\1\\4\\2\\113\end{array}$	······	 7
Medlock, E. O Meggison, E. W Micheli, Pio Midnight Coal Co Minnequa Fuel Co	$162 \\ 12,065 \\ 12,712 \\ 1,639 \\ 28,298$	$\begin{smallmatrix}&1\\16\\21\\&6\\34\end{smallmatrix}$	 	 6
Moffat Coal Co Morasky, Joe Morgan, Wm. L Morning Star Coal Co Mortorano & Son	196,5262,8792753,200 554	336 5 2 5 3	1	29
Moschetti, Domenic Moschetti, Tony Mt. Carbon Anthracite Co Mundell, J. W., & Son Murrell, James	4,008 898 1,736 488 215	5 6 8 4 1		 1
National Fuel Co Nix, J. D Noftsger, Cary Nogo, John North Park Coal Co	$195,281 \\ 162 \\ 266 \\ 443 \\ 20,266$	211 2 2 2 2 2 2 2 2 2 2		29
Nushaft Coal Co., Inc Oberding, W. J Ohio Creek Coal Co Ojo Coal Mines, Inc O. K. Coal Co	32,355 432 844 137 $4,477$	352 222 28	2	7 3
Oliver Coal Co Owen, Louis Palisade Clean Heat Coal Co Paonia Farmers Coal Co Paramount Coal Co	78,8644153,6264,471589	$\begin{array}{c} 65\\2\\8\\3\\4\end{array}$	 	2
Park Coal Co Park, W. J Pasch, Chris Patton, Lloyd L Peachey Coal Co	5,701 316 717 4,441 12,245	$26 \\ 2 \\ 2 \\ 8 \\ 25 \\ 25 \\ $	 	1
Perino Coal Co Phelan, C. G Phillips, E. E Pickard, Frank Pierce, F. E	2,083 3,991 101 2,010 4,613	3 4 1 3 5	1	4
Pierce, Thos. G Pikes Peak Fuel Co Pine Cliff Coal Co Pine Gulch Coal Co Pittsburgh Coal Co	$960 \\ 200,679 \\ 3,565 \\ 3,776 \\ 2,021$	$\begin{array}{c}2\\16\\2\\9\\1\\1\\5\end{array}$	 1	25 1 2 2

TABLE NO. 1—Continued

COMPANIES	Total Production	No. of Men Employed	No. of Fatal Accidents	Number of Non-Patal Accidents
Placita Coal Mining Co Pluto Coal Mining Co Pollard, C. F Pollo, John, Jr Premier Coal Co	1,284 18,004 2,319 198 3,561	$\begin{smallmatrix}&&3\\&2&2\\&&2\\&&3\\&5\end{smallmatrix}$		2
Pryor Coal Mining Co Rainbow Coal Co Raymond & Fennell Ream, W. A., Coal Co Red Ash Coal Co	$66,563 \\ 310 \\ 924 \\ 17,132 \\ 10,031$	$\begin{smallmatrix}102\\2\\3\\61\\22\end{smallmatrix}$		6 5
Regal Coal Co Rice, Arthur J. Reinau, R. C Riggio, Nick Riggs, W. E.	$\begin{array}{r} 9,944\\ 260\\ 1,253\\ 1,684\\ 1,171\end{array}$	$\begin{array}{c}14\\3\\2\\3\\4\end{array}$	 	1
Rinehart, C. W Rocchio Coal Co Rocky Mountain Fuel Co Rolfes, George T Ross Coal Co	$6,930 \\ 1,358 \\ 466,051 \\ 4,612 \\ 1,958$	7 9 594 7 5	 	106
Rouse Coal Mining Co Royal Gorge Coal Co Ruiz, Pete Russell, W. E., Coal Co Sacco, Louie	$^{*}_{2,732}$ $^{2,732}_{58,170}$ 216	$\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & &$	2	 1 4
Sanchez, Demetrio Santarelli, Tony Scappucci, Dan Schnicko, John Sevcik & Evanich	$1,450 \\ 26,099 \\ 729 \\ 221 \\ 275$	$\begin{array}{c}2\\2\\8\\6\\1\\2\end{array}$	 	2
Shamrock Coal Co. (Huerfano) Shamrock Coal Co. (Weld) Sneddon, George & Roy South Canon Mine Leasing Co Spencer, George S	${ \begin{array}{c} 1,997 \\ 53,654 \\ 379 \\ 22,176 \\ 100 \end{array} }$	$\begin{smallmatrix}&&3\\&&&2\\&&&2\\&&&2\\&&&1\end{smallmatrix}$		1
Standard Coal Mines, Inc Staples, S. L., & Sons States Hall Coal Co Steele, George Stove Canon Coal Co	$11,562 \\ 349 \\ 2,386 \\ 920 \\ 7,415$	87 1 5 4 6		1
Streenan, John Supancic, Louis Temple Fuel Co Thomas, Adda E Thor Fuel Co	$3,246 \\ 6,314 \\ 60,010 \\ 1,859 \\ 20,323$	$5\\6\\90\\4\\26$	 	10 2
Tipotch, Frank	$\begin{array}{r} 408 \\ 1,845 \\ 6,000 \\ 1,681 \\ 429 \end{array}$	$\begin{array}{c}1\\3\\9\\4\\2\end{array}$		10
U. S. Vanadium Corp Valcoal Mining Co Valley View Coal Co Van Winkle Coal Co Vickers Coal Co	$11,777 \\ 10,533 \\ 1,502 \\ 3,690 \\ 82,149$	$13\\31\\3\\122$		4 1 7

*Supplement.

TABLE NO. 1—Continued

COMPANIES	Total Production	No, of Men Employed	No. of Fatal Accidents	Number of Non-Fatal Accidents
Victor-American Fuel Co Waugh, William Webber, J. E White River Valley Coal Co Wilson, Claude H	$600,221 \\ 642 \\ 870 \\ 600 \\ 515 \\ 208$	767 2 2 5	 	129
Wilton, Wm. G Zieseniss, Henry TOTALS	$ 308 1,464 \overline{7,195,395} $	3 2 9,449	24	905

SUPPLEMENT

(Too late to be included in the above report)

COMPANIES	Total Production	No. of Men Employed	No. of Fatal Accidents	Number of Non-Patal Accidents
Blay, Harry E Clark, H. S Coats, Milo Economy Coal Co. (Jefferson) Electric Coal Co	$25 \\ 595 \\ 22 \\ 243 \\ 936$	$\begin{array}{c} \cdot & 2\\ 2\\ 1\\ 6\\ 2\end{array}$	 	
Frodsham, Vincent Gozzer, Pete Gulliford, Fred Henry & Coon Himes, A. H	$259 \\ 74 \\ 1,181 \\ 528 \\ 26$	2 1 9 1 1	 	
Jackson, J. C Jackson, R. M Jordan, Guy Mandarich, Pete Martin, Gus J	$42 \\ 154 \\ 421 \\ 15 \\ 54$	2 2 3 2 1	······	
Rector, Rosa M Reinau, Fred W Roggero, Joe Stander, Joe Torrid Coal Mining Co. (Huerfano)		2 2 2 2 7	······	
Rouse Coal Mining Co.* White Ash Coal Co. (Weld)	$\substack{11,971\\1,289}$	26 5	2	
GRAND TOTALS	7,215,916	9,532	24	905
Increase Decrease	370,079	527	5	243

*Recorded above.

TABLE NO. 2

MINE FATALITIES BY CAUSES, 1932-1937

				Ye	ars		
	CAUSES	1932	1933	1934	1935	1936	1937
Under	ground:						
	alls of roof (coal, rock,		_				1
	etc.)	8	7	8	10	3	9
	alls of face or pillar coal	4	3	5	1	11	6
	ine cars and locomotives	9	3	2	3	2	3
4. G	as explosives and burn- ing gas	1			4		
5. Co	cluding gas and dust	-					
C 17	combined)			••••		8	
	xplosives	1			1	1	1
1. 51	uffocation from mine gases	2	2	1			1
8. E	lectricity (shock or			-			-
	burns)	1	2	3			2
	nimals	1					
	ining machines				1		
11. M	ine fires (burned, suffo-						
12. O	cated, etc.)			1			
12. 0	ther causes	••••		1	1		
Shaft	:						
13. F	alling down shafts or slopes	1			2		
14. 0	bjects falling down						
15 0	shafts or slopes						
	ages or skips						1
16. O	ther causes						
	Total underground	28	17	20	23	25	23
Surfa	ce:						
	ine cars and mine loco-						
	motives				1		
18. E	lectricity (shock or						1
10 35	burns)					1	
	achinery		1	T	••••	••••	
20. B	oiler explosions or burst- ing steam pipes						
21. R	ailway cars and locomo-						
	tives				1		1
22. O	ther causes	1	2		1	3	
	Total	1	3	1	3	4	
	Grand Total	29	20	21	26	29	24

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SHOWING BY COUNTIES, MINES OPERATED, NAME OF OPERATOR AND ADDRESS OF MINE, CHARACTER OF COAL, NUMBER OF DAYS WORKED, AVERAGE NUMBER OF MEN EMPLOYED, TOTAL NUMBER OF TONS OF COAL PRO-DUCED IN 1937, AND CAPACITY OF MINE PER DAY IN TONS.

ARCHULETA COUNTY

Name of Mine	Name of Company	Mine Postoffice	Character of Coal	Number of Days Worked	Employed No. of Men Average	Total Num- ber of Tona Produced	Capacity of Mine Per Day, Tons
McBroomNumber	Chas McBroom	Dyke	Sub-bituminous	47		86	217

BOULDER COUNTY

Hi-Way Centennial	Louisville-Lafayette Coal Co Boulder Valley Coal Co	Broomfield	Sub-bituminous Sub-bituminous	196 288	139	131,004 85,682	1,000 2,000
Industrial Standard Vulcan	Rocky Mountain Fuel Co Standard Coal Mines, Inc Val Coal Mining Co	Superior Lafayette Lafayette	Sub-bituminous Sub-bituminous Sub-bituminous	134.9 82 82	172 87 41	81,292 11,562 10,533	800
Monarch No. 2 Black Diamond Pluto No. 2 Gorham.	National Fuel Co. Black Diamond Coal Co. Pluto Coal M. Co. M. Busheld Coal Co. Domestic Coal Co.	Broomfield Boulder Boulder Gorham Boulder	Sub-bituminous. Sub-bituminous. Sub-bituminous. Sub-bituminous. Sub-bituminous.	140 2519 211	76230 18221	58,428 55,076 18,004 17,532 10,241	700 150 150
Regal High View Fireside Cracker Jack Eldorado	W. A. Ream Coal Co. High View Coal Co. Ko-Z Coal Co. Cracker Jack Coal Co. Eldorado Coal Co.	Louisville Gorham Louisville Boulder Gorham	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	2267 2125 2122 202	400008	9,944 6,019 8,6419 8,644 8,644 8,644 8,5444 8,5444 8,5444 8,5444 8,5444 8,5444 8,5444 8,5444 8,5444 8,5444 8,5444 8,5444 8,5444 8,5444 8,5444 8,54444 8,54444 8,54444 8,544444 8,54444444444	50 45 70 60

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	BOULD	BOULDER COUNTY-Continued	ntinued				
Pine Cliff. Premier Red Ash No. 2 Northern New Noss.	Pine Cliff Gaal Co. Premier Coal Co. Pittsburgh Coal Co. Northern Gaal Co. Ross Coal Co.	Boulder Boulder Goulder Boulder Gorham	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	2511 250 191 2187	ອເລເຕອເລ	2,565 2,561 2,021 1,958 1,958	50 15 12 12
Liley	Liley & Merlino Paramount Coal Co	Louisville. Lafayette	Sub-bituminous	67 65	13	$\frac{721}{589}$	10
Number	Number of mines operated: 22			175.5	802	528, 142	
		DELTA COUNTY					
King	Juanita Coal & Coke Co	Bowie.	Bituminous. Semi-hituminous	137	99 99	$\begin{array}{c cccc} 45,479 \\ 6,419 \\ 6,419 \\ 50 \\ 50 \end{array}$	1,000

		DELTA COUNTY					
Kling Green Valley Paonia Red Canon Witton	Juanita Coal & Colke Co Green Valley Coal Co Paonia Farmers Coal Co Ried Canon Coal Co Winton Coal Co	Bowie Cedaredge Paonia Cedaredge	Bituminous. Semi-bituminous Bituminous Semi-bituminous Bituminous	137 292 262 260 260	09888	$\begin{array}{c} 45,479\\ 6,419\\ 4,471\\ 4,4471\\ 2,955\end{array}$	$1,000\\50\\50\\75$
States-Red Mountain- Independent Black Diamond Western Star- Owen-	States-Hall Coal Co	Cedaredge Cedaredge Cedaredge Cedaredge Cedaredge	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Bituminous	$151 \\ 151 \\ 179 \\ 124 \\ 150 $	10 7 01 11 01	2,386 1,190 5772 5171 415	45 10 10
Gelwick Bennett	Lawrence & Spohr Bennett Coal Co	Paonia Hotchkiss	Bituminous	$\frac{36}{14}$	¢1 51	90 53	
Number	Number of mines operated: 12			161.3	98	69,182	
	-	THEFT OF MALLE					

ELBERT COUNTY

3,755 1,869 1,869 316	5,940
य 03 63	6
312 120 65	193.1
Sub-bituminous Sub-bituminous Sub-bituminous	
Matheson Agate Matheson	
Barker Coal Co. J. M. Darymple Shea Coal Co.	Number of mines operated: 3
Barker Beaver Valley Shea	Number

STATE INSPECTOR OF COAL MINES

3-Continued	COUNTY
TABLE NO.	EL PASO

Name of Mine	Name of Company	Mine Postoffice	Character of Coal	Vorked of Days Worked	Employed No. of Men Average	Total Num- ber of Tons beoubord	Capacity of Mine Per Day, Tons
Pikeview City Coal Mines Busy Bee Mittude Corley No. 3	Pikes Peak Fuel Co	Pikeview Colorado Springs Colorado Springs Colorado Springs Colorado Springs	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	264 311 252 144 144	162 153 153 178 178 178	$\begin{array}{c} 200,679\\ 51,241\\ 8,753\\ 8,753\\ 6,402 \end{array}$	$1,000 \\ 400 \\ 100 \\ 138 \\ 150$
Clara Belle Jimmy Camp New Keystone Franceville. Climax	Clara Belle Coal Co. Harry Unwin. John Streenan Franceville Coal Co. Danville Coal Co.	Colorado Springs Colorado Springs Colorado Springs Colorado Springs Colorado Springs	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	$\begin{array}{c} 101\\ 255\\ 199\\ 239\\ 239\\ \end{array}$	7 7 7 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8	2,416 3,2825 3,2825 2,946 2,9722 2,731	100 100 50
Cottonwood	Cottonwood Coal Co Number of mines operated: 11	Colorado Springs	Sub-bituminous	$\frac{113}{243}$	317	275 293,325	
	I.J.	FREMONT COUNTY					

850 500 100	150 150 160 63 63
131,50675,32442,45630,311 $26,099$	21,926 18,389 16,074 13,966 13,966 12,587
271 94 257 282 282	4.0100 H 01 01 H 00 4 01
$\begin{array}{c} 172.7 \\ 2559 \\ 264 \\ 152 \\ 216 \end{array}$	2555 2014 185 113 113
Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous Bituminous Bituminous Semi-bituminous Semi-bituminous
Chandler Conn City Florence Florence	Florence. Coal Creek. Plorence. Coal Creek. Florence.
Victor-American Fuel Co- Colorado Fuel & Iron Corp Canon Black Diamond Coal Co. Giuliano & Carnine Coal Co. Double Dick Coal Co.	Canon Monarch Coal Co
Chandler Rockvale No. 3 Canon Black Diamond. Cedar Canon Black Diamond. Double Dick	Canon Monarch Nushaft Bluff Springs Rex Carbon American Independent No. 1

TWENTY-FIFTH ANNUAL REPORT

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Kinniey Coal Co. Manley Coal M. Co. Canon Zenith Coal Co. Enon Zenith Coal Co. Brookside Coal Mines, Inc. Brookside Coal M. Co. Canon Red Arrow Coal Co. Canon Frize Coal Co. Dominic Moschetti Prine Gulch Coal Co. Curron Imperial Coal Co. Little Johnny Coal Co. Little Johnny Coal Co. Canon Imperial Coal Co. J. Bald & Co. J. Bald & Co. Canon Blue Ribbon Coal Co. Canon Blue Ribbon Coal Co. Canon Plue Ribbon Coal Co. Canon Blue Ribbon Coal Co. Canon Pactock Coal Co. Canon Blue Ribbon Coal Co. Canon Liberty Coal Co. Canon Liberty Coal Co. Canon Liberty Coal Co. Canon Coal Co. Canon Coal Co. Canon Coal Co. Canon Blue Ribbon Coal Co. Con Co. Con Con Coal Co. Canon Bros.
Events Coal (b) Coal (b) Coal (b) J. Baid & Co. Florence J. Baid & Co. Florence Perlino Coal Co. Florence Prino Canon Blue Ribbon Coal Co. Florence Canon Blue Ribbon Coal Co. Florence Canon Bleat Coal Co. Florence Canon Blue Ribbon Coal Co. Florence Mountain View Coal Co. Florence Mountain View Coal Co. Canon City Mountain View Coal Co. Florence Joe Baione Canon City Joe Baione Canon City Joe Baione Canon City James Bros. Canon City James Bros. Canon City Florence Canon City Canon City Florence James Bros. Canon City Canon Coal Co. Canon City
Canon Red Arrow Coal Co. Grand Frize Coal Co. Grand Frize Coal Co. Cuckoo Coal Co. Cuckoo Coal Co. Cuckoo Coal Co. Little Johnny Coal Co. Byaans Coal Co. Byaans Coal Co. Corley Coal Co. Corley Coal Co. Corley Coal Co. Canon Blue Ribbon Coal Co. Canon Bue Ribbon Coal Co. Parn Hollow Coal Co. Canon Peacock Coal Co. Ranon Plaety Coal Co. Mountain View Coal Co. Mountain View Coal Co. Joe Baion Joe Baion Liberty Coal Co. Joe Baion Liberty Coal Co. Joe Baion Coal Co. Canon Liberty Coal Co. Mountain View Coal Co. Mountain Coal Co. Canon Liberty Coal Co. Sanon Liberty Coal Co. Mountain Coal Co. Canon Liberty Coal Co. Sanon Liberty Coal Co. Canon Liberty Coal Co. Canon Coal Co. Canon Coal Co. Coanon Liberty Coal Co. Canon Coal Co. Co. Co. Co. Co. Co. Co. Co. Co. Co.

STATE INSPECTOR OF COAL MINES

3-Continued	COUNTY
NQ.	ELD
TABLE	GARFTE

Capacity of Mine Per Day, Tons	76 100 22 20 15 80 53 60 64 30	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	204 176	60
Total Num- ber of Tons Produced	$\begin{array}{c} 22,176\\ 12,022\\ 7,415\\ 7,153\\ 1,464\end{array}$	8F446	17	53,359
Employed No. of Men Average	00000 0	010101 01	172	55
Vorked Morked Worked	318 249.5 279 176 216.5	$222 \\ 139 \\ 61 \\ 140 \\ 96 $	$111 \\ 116$	242
Character of Coal	Bituminous. Bituminous. Bituminous. Bituminous. Bituminous.	Bituminous. Bituminous. Bituminous. Bituminous. Bituminous.	Bituminous	V
Mine Postoffice	Glenwood Springs New Castle Fruita Mack Rifle	Silt Rifle Glenwood Springs Fruita Rifle	Silt Glenwood Springs	
Name of Company	South Canon Mine Leasing Co W. G. McDonald Barbour Coal Co. Henry Zieseniss	James LeDonne. Estes Bros. Diamond Ruel Co. N. H. Tialcomb. R. W. Ingle.	Llewelyn Coal Co Frank DeBoy	of mines operated: 12
Name of Mine	South Canon New Castle Stove Canon Carbonera Zieseniss	Harvey Gap Estes Diamond Monger I. H. L.	Silt Ohkraut	Number

1,4001,4003503502200 200 200 200 200 280,054202,42278,86438,9412,892 $\begin{array}{c} 28,332\\ 18,525\\ 2,378\\ 1,981\\ 1,736\end{array}$ 221 272 172 124 124 124 001 4 0 00 001 4 0 00 208
 193.2
 125
 125
 167193.5 152 171 209 209 Bituminous. Bituminous. Semi-bituminous... Semi-bituminous... Semi-bituminous.. Semi-bituminous. Anthracite...... Crested Butte Somerset Cunnison Crested Butte Coal Co.... Bear Coal & Coke Co. Edwards Coal Co... Gunnison Anthracite Co... Mt. Carbon Anthracite Co.... Lone Pine. Somerset Alpine New Baldwin... Crested Butte. Bulkley No. 3. tichardson. Oliver..... forace..... Bear....

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	1,597 844 729 642 849 349	000,200		$\begin{array}{c} 203,511\\ 190,487\\ 99,282\\ 66,563\\ 39,090 \end{array}$	22,992 14,611 28,298 16,212
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000		194 1355 102 53	91 58 101
	$\begin{array}{c} 117\\124\\82\\211\\124\\124\\124\end{array}$	D C T		$238 \\ 228 \\ 157.5 \\ 176.1 \\ 207$	$175 \\ 139 \\ 179 \\ 34$
	Bituminous Bituminous Semi-bituminous Bituminous Bituminous		X	Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous. Bituminous Bituminous Bituminous
	Somerset. Gunnison. Baldwin. Gunnison.		HUERFANO COUNTY	Farr Toga Delcarbon Aryor Alamo (Star Route)	Ravenwood Ravenwood Walsenburg Walsenburg
	Hawks Nest Coal Co Dhio Creek Coal Co Baldwin Fuel Co Carbon Creek Coal Co K. D. Coal Co K. D. Coal Co		III	Colorado Fuel & Iron Corp Colorado Fuel & Iron Corp Calumet Fuel & Iron Corp Pryor Caal M. Co Gordon Coal Co	Caliente Coal Co Caliente Coal Co Minnequa FNA Co Butte Valley Coal (Co.
	Hawks Nest Ohio Greek Star Carbon Greek K. D. Mumbor	ISCHIM NT		Robinson No. 1 Kebler No. 2 Calumet No. 2 Pryor Ordon	Ravenwood Maitland (Vesta) Morning Glory. Butte Valley (Alamo)

60 200 200100 2220 $250 \\ 250$ $\begin{array}{c} 11,748\\ 10,735\\ 7,709\\ 5,953\\ 5,953\\ \end{array}$ 2,968 $\begin{array}{c}
4,380\\
2,177\\
1,997\\
1,845\\
312
\end{array}$ 1,561 1,561 1,365 1,332 1,332 22 000000 70000 H 040767 r0 113. $161 \\ 127 \\ 100 \\ 172 \\ 130 \\ 130 \\ 130 \\ 122$ 22322223322233322333223332233322333222333222332233322233322233332223333222333332223333222333322233333222333332223 $176 \\ 178 \\ 181 \\ 203 \\ 40 \\ 40 \\$ Bituminous... Bituminous... Bituminous... Bituminous... Bituminous... Bituminous... Bituminous... Bituminous... Bituminous. Bituminous. Bituminous. Bituminous. Bituminous. Bituminous. Bituminous. Bituminous. La Veta (Star Route) Walsenburg..... Walsenburg..... ----0-----Tioga..... Pryor..... La Veta La Veta Walsenburg. Walsenburg. Toltec. Major Coal Co. Black Hawk Coal Co. Red Ash Coal Co. Blue Blaze Coal Co..... på Caddell Shamcek Coal Co. Sam George & Sons Sam George & Sons Joe Maloney Peachey Coal Co. Peachey Coal Co. W. A. Ream Coal Co. Peachey Coal Co. Aztec Coal M. Co. Nugget Caddel No. 3 Leader No. 2. Midnight. Spring Canon Blue Blaze Niggerhead Tompkins Shamrock. George No. 2 George No. 3 Spanish Peak. Ojo Canon..... Major Black Hawk. C YEAR Poltec.

STATE INSPECTOR OF COAL MINES

NO. 3—Continued	COUNTY-Continued
TABLE NO.	HUERFANO COUNTY

Capacity of Mine Per Day, Tons					250 50		
Total Num- ber of Tons Produced	$1,067 \\ 275 \\ 275 \\ 215 \\ 206 \\ 206 \\$	137 189 137	770,515		20,266	24,073	
Average No. of Men Employed	00 H 10 10 00	60 LO CI	1,247		29	33	
Norked of Days Worked	185 148 580 5380 5380	$\begin{smallmatrix}53\\46\\150\end{smallmatrix}$	177		$212 \\ 200$	210	
Character of Coal	Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous Bituminous Bituminous		Z	Sub-bituminous Sub-bituminous		Y
Mine Postoffice	Walsenburg. La Veta La Veta La Veta La Veta La Veta	La Veta. La Veta. La Veta.		JACKSON COUNTY	Coalmont Walden		JEFFERSON COUNTY
Name of Company	Strawberry Coal Co. Geo. and Roy Sneddon New Oaltylew Coal Co. James Murrell Peachey Coal Co.	Peachey Coal Co. Faultless Coal Co. Ojo Coal Mines, Inc.	Number of mines operated: 33	ſſ		of mines operated: 2	JE
Name of Mine	Strawberry Sun New Oak View Murrell Occidental	Occidental No. 2 Fern C. O. D. No. 2	Number		Moore	Number	

TWENTY-FIFTH ANNUAL REPORT

 $\begin{array}{c} 700\\ 200\\ 100\\ 25\end{array}$

140,56227,0147,8303,690

 $234 \\ 243 \\ 283 \\ 283 \\ 260 \\ 260 \\ 283$

Sub-bituminous...... Sub-bituminous...... Sub-bituminous...... Sub-bituminous......

Leyden Lignite Co... Caprock Fuel Co... Jefferson Coal Co... Van Winkle Coal Co...

Leyden No. 3 Caprock. Virginia. Van Winkle. of mines operated: 4.

Number

179,096

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15,419 4,613 4,477 3,778 3,778 3,200	1,681 1,626 1,502 1,472 1,123	0220 0224 0228 0228 0228 0288 0 0 0 0	354 3554 3554 1777 1577 1577 2577 255 355
910 0 0 0 0 0	<u>क</u> क छ क क	0-02-	0000001
$294 \\ 231 \\ 183 \\ 183 \\ 179 \\ 179 $	120 197 194 101 114	$144 \\ 183 \\ 137 \\ 122 $	$ \begin{array}{c} 129 \\ 129 \\ 101 \\ 180 \\ 180 \\ \end{array} $
Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous. Bituminous. Bituminous. Bituminous. Bituminous.	Bituminous. Bituminous. Bituminous. Bituminous.	Bituminous Bituminous Bituminous Bituminous Bituminous
Durango Durango Durango Durango Durango	Durango Hesperus Mancos Hesperus	Durango Durango Durango Bayfield Hesperus	Kline Durango Basperus Kline Kline
Castle Coal M. Corporation. Sunshine Coal Co. O. K. Coal Co. Black Diamond Coal Co. Morning Star Coal Co.	Triangle Coal Co. Klondyke Coal Co. Valley View Coal Co. J. B. Henderson. Wm. Hunt.	Peerless Coal Co. Fire Glow Coal Co. Durango Coal Co. James A. Blerce. Frank Tipotseli.	Jas. T. Durkan Dill & Borglino. Dillus Hammond Excelsior Coal Co. Xavier Dufur of mines operated: 20
Castle Sunshine O. K. Black Diamond Morning Star	Trlangle. Klondyke. Valley View. Peadook (Henderson). Hunt.	Peerless Fire Glow Durango Shamrock Tipotsch	Soda Springs Elledge Dill Hay Oulch Excelsion FL, Lewis

LARIMER COUNTY

Ideal White Rose		Carr, Carr, Carr,	Sub-bituminous Sub-bituminous	$200 \\ 90$	4 51	$1,919 \\ 443$	20 3
3enson	Lowe Coal Co.	Carr	Sub-bituminous	55	¢1	162	
Number	nber of mines operated: 3			136	20	2,524	

tinued
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NO.
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IAS ANIMAS COUNTY

Capacity of Mine Per Day, Tons	$ \begin{array}{c} 2,500\\ 1,500\\ 1,500\\ 1,500\\ 250 \end{array} $	$ \begin{array}{c} 400\\ 500\\ 100\\ 100 \end{array} $	$150 \\ 300 \\ 150 $	$\begin{array}{c} 75\\10\\20\\14\end{array}$	6 7 7 6
Total Num- ber of Tons Produced	$\begin{array}{c} 545,801\\ 164,604\\ 197,688\\ 127,688\\ 82,249\end{array}$	$\begin{array}{c} 64,010\\ 42,390\\ 37,056\\ 28,555\\ 26,421\\ \end{array}$	24,103 20,323 12,712 112,065 11,179	$\begin{array}{c} 6,000\\ 3,535\\ 2,705\\ 2,705\\ 2,401 \end{array}$	$\begin{array}{c} 2,372\\ 1,5687\\ 1,45887\\ 2,2587\\ 1,2650\\ 3,2650\\$
Average No. of Men Employed	632 270 189 122	$ \begin{array}{c} 90 \\ 655 \\ 423 \\ 4$	41226 1161 256	o 010410	4.00.00 61.00
Number of Days Worked	$234 \\ 157.6 \\ 151 \\ 200 \\ 200 $	220 112 152 105 205.2	$ \begin{array}{c} 156\\ 160\\ 204\\ 91\\ \end{array} $	$\begin{array}{c} 189\\ 118\\ 254\\ 2331\\ 175\end{array}$	207 162 197 197
Character of Coal	Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous Bituminous Bituminous Bituminous Bituminous
Mine Postoffice	Valdez Morley Delagua Cokedale Rugby	Brodhead Ludlow Aguilar Vallorso Sopris	Boncarbo Trinidad (Rte. No. 2). Rugby Trinidad Trinidad	Rugby Trinidad Trinidad Trinidad	Trinidad Trinidad Trinidad Boncarbo Aguilar
Name of Company	Colorado Fuel & Iron Corp. Colorado Fuel & Iron Corp. Victor-American Fuel Co American Smelting & Ref. Co Vickers Coal Co.	Temple Fuel Co. Huerfano Coal Co. Jewell Collieries Corp. Bear Canon Coal Co. Deldosso Coal Co.	Dick Coal Co Thor Fuel Co Meggison & Littleton W. A. Ream Coal Co	Torrid Coal Co. Aguilar Black Diamond Coal Co. Joe Morasky Home Fuel & Supply Co. Alex Abeyta	Starkville Coal Go. Nick Riggio Juffryes huel Co. Dementrio Sanchez Daisy Coal Go.
Name of Mine	Frederick Morley Delagua Boncarbo Kenneth	Brodhead No. 9. Ludlow. Creston Bear Canon No. 6 Sopris No. 1	Dix. Thor. Rapson. Baldy. Anchor.	Torrid Aguilar Black Diamond. Morasky Bowen Frisco	Starkville Lakeriew Jeffryes Sanchez Dalsy

TWENTY-FIFTH ANNUAL REPORT

STATE INSPECTOR OF COAL MINES

	10 F		500 100 100 100 100 100 100 100
	$\begin{array}{c} 1,091\\ 950\\ 754\\ 729\\ 729\\ 856\\ 729\\ 810\\ 308\\ 308\\ 308\\ 304\\ 1,429,531\\ 1,429,531\end{array}$		101 101 101 101 101 101 101 101
	1 000000000000000000000000000000000000		00001-00 0000000 4004000 4004000
	$\begin{array}{c} 1335\\ 1335\\ 2322\\ 1335\\ 1335\\ 1335\\ 66\\ 72\\ 66\\ 88\\ 66\\ 88\\ 140\\ 140\\ 140\\ 140\\ 140\\ 140\\ 140\\ 140$		2215220 111112 1222 1222 1
Jontinued	Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous		Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous
LAS ANIMAS COUNTY-Continued	Trinidad Boncarloo Trinidad Aguilar Aguilar Aguilar Sopris Copris Trinidad Trinidad Trinidad	MESA COUNTY	Cameo Palisade Palisade Palisade Palisade Palisade Palisade Palisade Palisade Palisade Palisade Palisade Palisade Palisade Fruita Fruita Fruita Fruita Fruita Fruita Fruita Fruita Fruita Fruita Fruita Fruita Fruita Fruita Fruita
INA ZAU	Giordano Coal Co Benito Garcia W. B. Riggs. W. B. Riggs. Dan Scappucci Liberty Coal Co Martorano & Sons Martorano & Sons Santa Pe Coal Co Rainbow Coal Co W. G. Wilton W. G. Wilton W. G. Wilton Of mines operated: 37		Kerr Coal Co. Garrield Coal Co. Garrield Coal Co. B. Gearhart. Martin Coal Co. Palisade Clean Heat Coal Co. Prairade Clean Heat Coal Co. Midwest Red Arrow Coal Co. Arthur R. Huthman. Arthur R. Huthman. Arthur R. Huthman. Arthur R. Huthman. J. W. Mudell & Son Monarch Coal Co. Monarch Coal Co.
	Gem Garcia Forbes No. 9 Highway.o. 10 Liberty Martorano Santa Fe Reshoar Sunrise Bloom Number		Cameo Garfield River View Mt. Garfield Mt. Garfield Blue Flame Palisade Miconley Miconley Wingers Von 1 Midwest Vingers Riverside Midden Treasure Vinden Mundell Mundell Mundell Marinelli Marinelli

29

79,638

122

181

of mines operated: 20.

Number

TABLE NO. 3—Continued

ABILITOD IN PRIO

			20		25 10		2,000
	$\begin{array}{c} 11,777\\ 11,777\\ 343\\ 343\\ 260\\ 12,812\\ \end{array}$		$\frac{1,284}{1,284}$		$\begin{array}{c} 2,319\\ 1,253\\ 600\\ 305\\ 259\\ 5,484 \end{array}$	-	227,216
	13 22 33 20		~ ~ ~		000000 0 0	-	229
	235 120 115 90 190		132 132		2339 256 200 90 90 167		143.5
Υ	Sub-bituminous. Sub-bituminous. Sub-bituminous. Sub-bituminous.		Bituminous	ΓΥ	Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous	_	Bituminous
MONTROSE COUNTY	Uravan Nucla Naturita Montrose	PITKIN COUNTY	Carbondale	RIO BLANCO COUNTY	Meeker Meeker Meeker Meeker Meeker Meeker	ROUTT COUNTY	Mt. Harris
MO	U. S. Vanadium Corp. Wm. J. Oberding King & Mitchell Arthur J. Rice	I	Number of mines operated: 1	RIO	C. F. Pollard R. C. Reinau G. G. Hart & Sons G. G. Hart & Sons Mite River Valley Coal Co. White River Valley Coal Co. Thos. D. Foreman Number of mines operated: 6.		Colorado & Utah Coal Co
	U. S. Vanadium. Independence. Liberty Bell. Rice. Number		Placita Number		New Pollard Reinau Pollard McKee Johnny Boy Nine Mile Number		Harris

	4,000 300		1,000
227,216	190,045 6.481	162,606	195,429
229	285 515	178	e / 1
143.5	173		101.3
Bituminous	Bituminous.		Buummous
Mt. Harris	Oak Creek Oak Creek		Oak Creekman.
Colorado & Utah Coal Co.	Moffat Coal Co. Oak Creek. Moffat Coal Co. Oak Creek.	Hayden Coal Co	Victor-American Fuel Co
larris	Moffat Nos. 1 and 2 Dale Hills No. 2	Hayden No. 3	mnacte

STATE INSPECTOR OF COAL MINES

3-Continued	Y-Continued
N0.	COUNTY
TABLE	ROUTT (

Capacity o Mine Per Day, Tons 50 50 10 2012 000 800 800 300 10 $\begin{array}{c} 117,598\\ 72,148\\ 60,602\\ 9,652\\ 5,006\end{array}$ $\begin{array}{c}
 4,191 \\
 2,842 \\
 1,165 \\
 \end{array}$ $\frac{342}{270}$ $\begin{array}{c}
 2266 \\
 1236 \\
 149 \\
 139 \\
 139 \\
 \end{array}$ 1.022.131 Total Num-ber of Tons Produced 4. $^{1132}_{98}$ 4010101 20100100 Average No. of Men Employed 1,310Number of Days Worked $140 \\ 50 \\ 120 \\$ 155 192
 153
 142 $193 \\ 240$ 243 $155 \\ 120$ $\begin{array}{c}
 22 \\
 65 \\
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 75 \\$ Character of Coal Bituminous.... Bituminous..... Bituminous... Bituminous. Bituminous. Bituminous. Bituminous. Mt. Harris Steamboat Springs. Dunkley Postoffice Bear River..... Pagoda Oak Creek Mine McGregor Oak Creek..... Oak Creek..... toutt Oak Creek.... Phippsburg Hayden..... Bear River. Bear River. Bear River Bear River. Hayden.... Hayden..... Oak Creek. George T. Rolfes George T. Rolfes Hayden Valley Mutual Coal Co. Back Cat Coal Co. Frank Coryell Victor-American Fuel Co..... Bear River Coal Co. Keystone Coal Co. Geo. Steel Co... J. 12. Webber J. M. Childress. J. M. Childress. B. Gwynn Name of Company of mines operated: 25. McNeil Coal Corp. Noftsger & Chavis... R. C. Jones John Pollo, Jr. J. F. Johnson Burchfield & Clark... 3abson Coal Co Gwynn.... Number Name of Mine Argo Gulch No. 2. Hayden Valley.... Butcher Knife Apex. Webber Walter Bruce Big Mack. Seven Points. Argo Gulch. Bear River. **Powe** Creek Jones Black Cat. Keystone. Johnson. 3abson.. Morgan. Wadge. McNeil Edna....

SAN MIGUEL COUNTY

10 10	
567 418	985
eo e1	20
$133 \\ 130$	131
Bituminous. Bituminous.	
Norwood. Norwood	
Keck Coal Co. W. H. Knowlton	of mines operated: 2
Keck O. K	Number

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Capacity of Mine Per Day, Tons	1,200 1,200 1,200 1,200	1,000 1,500 1,000 600	700 150 100	50	10	
Total Num- per of Tons besubord	234,209 108,717 187,088 183,056 136,853	$129,406\\120,283\\110,793\\103,202\\58,170$	253,654 245,043 54,397 2,598 2,598	2,521 1,748 1,748 260 296	101 87	1,490,220
Average Xo. of Men Employed	257 1170 141	165 147 104 89	26777 2677 2677	94400	- 61	1,630
Number of Days Worked	$244 \\ 206.8 \\ 161.5 \\ 203 \\ 133.7 $	168 157 191 124	$ \begin{array}{c} 116.9 \\ 162 \\ 221 \\ 93.5 \\ 223 \\ \end{array} $	$211 \\ 177 \\ 168.5 \\ 78 \\ 111 \\ 111$	23 70	177
Character of Coal	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	Sub-bituminous	
Mine Postoffice	Serene Frederick Brie Brie Brie	Brie Brie Dacono Frederick	Brie Frederick Frederick Longmont Greeley	La Salle La Salle La Salle FL Lupton Eaton	Galeton Cornish	
Name of Company	Rocky Mountain Fuel Co Rocky Mountain Fuel Co Boulder Valley Coal Co Imperial Coal Co National Fuel Co	Clayton Coal Co Clayton Coal Co Consolidated Coal & Coke Co Moneli Coal Corp Russell Coal Co	Shamrock Coal Co. American Fuel Co. Graden Coal Co. La Salle Coal Co.	Bohlender Coal Co Buddy Coal Co Diamond Coal Co Witherbee Coal Co Comet Coal Co	Galeton Coal Co Tamoc Coal Co	of mines operated: 22
Name of Mine	Columbine Grant Boulder Valley Imperial Puritan	Clayton Morrison Baum Sterling Russell	Shamrock Evans Graden Monroe La Salle	Bohlender Buddy Diamond Witherbee Comet	Galeton Tannoc	Number

GRAND TOTAL

313	201.9	9,449	,195,395
Number of mines operated.	Number of man-days worked	Average number of employed in and about mines	Total tons of coal produced7,

PRODUCTION BY COUNTIES BY MONTHS-1937

Month	Archuleta	Boulder	Delta	Elbert	El Paso	Fremont
January		77,340	9,704	936	42,882	73,881
February		60,994	8,782	761	33,882	60,947
March		58,474	7,073	635	38,398	50,457
April		17,788	3,036	251	20,238	19,781
May		14,611	2,956	80	14,440	13,287
June		16,647	2,732	43	13,144	15,030
July		14,570	1,982	25	11,565	14,019
August		19,031	3,431	38	11,315	24,653
September		45,573	4,971	193	17,350	45,053
October		56,692	7,192	846	22,867	55,939
November		62,675	7,970	889	30,107	54,464
December	117	83,747	9,353	1,243	37,137	72,060
Total	117	528,142	69,182	5,940	293,325	499,571

Month	Garfield	Gunnison	Huerfano	Jackson	Jefferson	La Plata
January February March June June August September October November December	$\begin{array}{c} 6,597\\ 5,871\\ 4,981\\ 2,862\\ 2,333\\ 1,991\\ 1,910\\ 2,701\\ 4,433\\ 5,681\\ 6,285\\ 7,714 \end{array}$	$\begin{array}{c} 73,629\\ 68,774\\ 58,470\\ 33,095\\ 51,608\\ 34,645\\ 25,271\\ 57,499\\ 63,357\\ 65,378\\ 61,953\\ 66,607\end{array}$	$\begin{array}{c} 91,851\\ 91,051\\ 97,148\\ 22,946\\ 43,119\\ 41,236\\ 51,525\\ 50,666\\ 60,398\\ 73,907\\ 72,086\\ 74,582\end{array}$	3,120 2,550 2,335 726 565 694 529 668 2,117 3,928 3,350 3,491	$\begin{array}{c} 20,713\\ 17,918\\ 19,264\\ 10,403\\ 11,642\\ 9,343\\ 10,841\\ 12,485\\ 12,164\\ 15,442\\ 18,497\\ 20,334\\ \end{array}$	5,557 4,562 4,288 2,838 1,736 1,265 1,511 1,868 2,635 4,952 4,654 7,119
Total	53,359	660,286	770,515	24,073	179,046	42,985

Month	Larimer	Las Animas	Mesa	Moffat	Monte- zuma	Montrose
January February March April June June July August September October November December	502 323 251 99 279 307 319 444	$143,081\\140,033\\155,664\\90,143\\109,634\\134,447\\123,498\\111,986\\113,774\\100,186\\107,904\\99,181$	$10,699 \\ 11,800 \\ 11,129 \\ 3,421 \\ 2,631 \\ 2,532 \\ 2,001 \\ 3,910 \\ 5,940 \\ 7,216 \\ 8,506 \\ 9,853 \\ \end{cases}$	$1,698 \\ 1,357 \\ 1,016 \\ 767 \\ 226 \\ 451 \\ 454 \\ 871 \\ 2,229 \\ 2,745 \\ 3,239 \\ 5,093 \\ 5,093 \\ 1,357 $	$\begin{array}{r} 492\\ 483\\ 230\\ 76\\ 163\\ 256\\ 161\\ 147\\ 299\\ 503\\ 456\\ 833\end{array}$	$198\\128\\139\\1,140\\1,170\\1,113\\1,117\\1,454\\1,252\\1,286\\1,503\\2,312$
Total	2,524	1,429,531	79,638	20,146	4,099	12,812

Month	Pitkin	Rio Blanco	Routt	San Miguel	Weld	Total
January February April June July September October Docember December	$ \begin{array}{r} 162\\ 206\\ 146\\\\ 92\\ 108\\ 40\\ 120\\ 130\\ 130\\ 150\\ \end{array} $	1,059 620 360 313 177 204 108 185 268 437 353 1,400	$\begin{array}{c} 146,750\\ 139,647\\ 86,856\\ 23,219\\ 44,547\\ 33,788\\ 24,332\\ 47,813\\ 91,504\\ 128,448\\ 116,883\\ 138,344\end{array}$	$\begin{array}{c} 167\\ 141\\ 96\\ 81\\ 39\\ 31\\ 6\\ 29\\ 74\\ 124\\ 125\\ 72\\ \end{array}$	$\begin{array}{c} 239,696\\ 176,185\\ 174,487\\ 50,634\\ 50,021\\ 54,986\\ 51,183\\ 57,014\\ 114,894\\ 150,875\\ 172,441\\ 197,804 \end{array}$	$\begin{array}{c} 950,714\\ 827,015\\ 771,897\\ 303,857\\ 364,985\\ 364,670\\ 336,716\\ 407,804\\ 588,877\\ 705,081\\ 734,789\\ 838,990 \end{array}$
Total	1,284	5,484	1,022,131	985	1,490,220	7,195,395

SHOWING INCREASE AND DECREASE OF COAL PRODUCTION BY COUNTIES—1936-1937

Counties	1936	1937	Increase	Decrease
Archuleta	217	117		100
Boulder	498,406	528,142	29,736	
Delta	66,308	69,182	2,874	
Elbert	4,766	5,940	1,174	
El Paso	291,751	293,325	1,574	
Fremont	497,296	499,571	2,275	
Garfield	46,906	53,359	6,453	
Gunnison	628,932	660,286	31,354	
Huerfano	777,021	770,515		6,506
Jackson	25,440	24,073		1,367
Jefferson	168,124	179,046	10,922	
La Plata	36,901	42,985	6,084	
Larimer	3,177	2,524		653
Las Animas	1,226,426	1,429,531	203,105	
Mesa	68,216	79,638	11,422	
Moffat	10,059	20,146	10,087	
Montezuma	5,157	4,099		1,058
Montrose	1,388	12,812	11,424	
Ouray	333			333
Pitkin	1,652	1,284		363
Rio Blanco	6,703	5,484		1,219
Routt	1,002,416	1,022,131	19,715	
San Miguel	1,565	985		580
Weld	1,476,677	1,490,220	13,543	
Total	6,845,837	7,195,395	349,558	
Increase for 1937			349,558	

Counties	Mine Run	Lump	Egg	Nut	Pea	Slack	Total
Archuleta	117						117
Boulder	64,564	129,222	30,176	29,394	13,766	261,020	528,142
Delta	6,742	29,758	9	15,992		16,681	69,182
Elbert	1,394	2,251	160	1,239	602	294	5,940
El Paso	27,405	52,320	31,316	21,220	20,767	140,297	293,325
Fremont	88,779	183,378	3,480	82,955	7,350	133,629	499,571
Garfield	23,879	11,306	291	5,865	420	11,598	53,359
Gunnison	195,264	95,049	4,368	36,858	25,507	303,240	660,286
Huerfano	147,138	102,138	16,583	78,887	13,071	412,698	770,515
Jackson	6,407	7,520		6,339		3,807	24,073
Jefferson	19,780	37,485	7,328	6,701	8,466	99,286	179,046
La Plata	19,473	9,606	30	3,802	2,875	7,199	42,985
Larimer	443	1,322		83	403	273	2,524
Las Animas	580,762	29,027	5,624	36,088	6,869	771,161	1,429,531
Mesa	31,523	21,091	218	11,093	3,159	12,554	79,638
Moffat	628	13,157	38	3,558	146	2,619	20,146
Montezuma	4,099						4,099
Montrose	3,958	721		92		8,041	12,812
Pitkin	1,284						1,284
Rio Blanco	627	3,261		976	45	575	5,484
Routt	38,019	403,061	51,103	168,031	10,527	351,390	1,022,131
San Miguel	257	422		93		213	985
Weld	38,069	502,814	78,782	36,874	107,757	725,924	1,490,220
Total	1,300,611	1,634,909	229,506	546,140	221,730	3,262,499	7,195,395

SHOWING BY COUNTIES PRODUCTION OF 1937 IN PREPARED SIZES

STATE INSPECTOR OF COAL MINES

COKE PRODUCED IN 1937 BY COMPANIES AND COUNTIES

Companies	Total No. of Ovens Used	Total Tonnage	Counties	Total No. of Ovens Used	Total Tonnage	
American Smelting and Refining Co	160	64,222	Las Animas	160	64,222	
Colorado Fuel and Iron Co.	151	486,945	Pueblo	151	486,945	
Total	311	551,167		311	551,167	

Remarks :

Average	number	of	days	worked						 	 . 365
Average	number	of	men	employed	at t	the d	coke	over	ns	 	 . 82
Number	of tons	\mathbf{of}	coal 1	nade into	coke	2				 	 922,134

COAL PRODUCTION IN COLORADO FROM 1873 TO 1937, INCLUSIVE

Year	Tons	Year	Tons
1873	69,977	1905	8,989,631
1874	87,372	1906	10,308,421
1875	98,838	1907	10,965,640
1876	117.666	1908	9,773,007
1877	160,000	1909	10,722,490
1878	· · ·	1910	12,104,887
1879	.,	1911	
1880		1912	
1881		1913	, ,
1882		1914	
1883		1915	
1884		1916	
		1917	
1885		1918	
1886		1919	
1888		1920	
1889		1921	
		1922	
1890 1891		1923	
1892		1924	
1892		1925	
1893		1926	
1894		1927	
1895	- / / /	1928	, ,
1897		1929	9,934,064
1897	, , .	1930	8,238,094
1898	-,	1931	6,604,063
1900		1932	6,616,525
		1933	5,284,872
1901		1934	5,251,003
1902		1935	5,948,661
1903	, ,	1936	6,845,837
1904	6,776,551	1937	7,215,916

MECHANICAL CLEANING IN COLORADO IN 1937

County	Company	Mine	Total Pro- duction 1937	Total Tonnage Washed Before Shipment
Fremont	Victor-American Fuel Co	Chandler	131,509.10	37,602.15
Gunnison	Mount Carbon Anthra- cite Co	Richardson	1,739.81	1,390.35
Huerfano	Colorado Fuel and Iron Corp.	Robinson No. 4.	203,515	21,311
Huerfano	Gordon Coal Co	Gordon	39,148	7,368
Huerfano	Caliente Coal Co	Ravenwood	32,993.25	5,258
Las Animas	American Smelting & Refining Co	Boncarbo	127,689	115,278
Routt	Victor-American Fuel Co.	Wadge	117,603.25	16,843.80
Routt	Victor-American Fuel Co.	Pinnacle	153,734.65	28,104.70
	Total		807,932.06	233,156.00

Compiled by:

Edward J. Smith and John Tierney, National Bituninous Coal Commission. April 11, 1938. Source of data:

1937 Yearly Coal Mine Reports submitted to the Colorado State Inspector of Mines. MECHANICAL LOADING IN COLORADO IN 1937

Boulder County Black Diamond Fuel Company Black Diamond Mine No. 2 Boulder County Boulder County Boulder County Boulder County Buider County Boulder County Houlder County	Zumber of Jechanical Loaders	— 2 ДАВС	Track Type Ylobile or	Chain Con- veyors, Shor Face Type	Conveyors	Conveyors Entry Conveyors	Belt Convey-	Power Shovels, Xo. and Type	Other Types of Mechanica Loaders	Contraction of the second seco	LetoT Protection Production eniMit o
Louis Ville-Lafayette Coal Co. Hi-Way Mine. Boulder County National Fuel Company Monarch Mine.	ь п	e is	k - 1				- :		1 1	78,600 58,842	131,004 58,842
El Paso County Pikes Peak Fuel Company Division of Golden Cycle Corp. Pike View Mine Tremont County Canon Monarch Fuel Company Canon Monarch Line	- 00	c3 —	-				1	1		82,319 680	200,682 22,158

STATE INSPECTOR OF COAL MINES

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TWENTY-FIFTH ANNUAL REPORT

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Commercial Commercial Commercial Commercial Commercial Marker Type Conveyors, Short Fact Type Conveyors Shorels, Short Fact Type Conveyors Conveyors Belt Conveyors Conveyors Brity Conveyors Brity Conveyors Shorels, Short Read Fore Conveyors Shorels, Short Fore Conveyors Conveyors Shorels, Short Fore Conveyors Conveyors Shorels, Short Shorels, Short Conveyors Conveyors Conveyors Shorels, Short Shorels, Short Short Shorels, Short Shorels, Short Shorels, Short Shorels, Short Shorels, Short Shorels, Short	son County North Park Coal Company Moore Mine 1 1 1	Las Animas County Victor-American Fuel Company Delagua Mine 2000 3 2000 3 2000 3	tt County Colorado & Utah Coal Company Harris Mine 9 2* 1† 6‡	tt County Hayden Caal Company Hayden Mine No. 3 2 1	tt County Keystone Coal Company Keystone Mine	tt County Moffatt Coal Commany
Other Types of Mechanical Loaders Total Ton- nage Loaded by Mechan- ical Devices		34,018,54	181,061	6,436.60	28,609	
Total Production of Mine (Tons)	20,272.06	197,693.45	227,221	162,610.75	72,153	

*Jeffrey 44 C. †Face conveyor. ‡Goodman Hydro-electric. §Total tonnage loaded by mechanical devices not given on report to Mine Inspector.

STATE INSPECTOR OF COAL MINES

County, Company, Mine	Yedmber of Mechanical Loaders	Type Type	Mobile or Track Type	Chain Con- veyors, Short Face Type	Conveyors Room	Mainline or Entry Conveyors	Belt Convey- ors, Number and Type	Power Shovels, Xo. and Type	Other Types of Mechanica Loaders	-noT Isjor bəbsol əzsu -nshəəlt yü zəsiyəd Issi	Total Production Mine (enoT)
Routt County Victor-American Fuel Company Pinnacle Mine	16	, i	i.	ŧ	16	1	Ē		:	120,102.60	153,734.65
Routt County Victor-American Fuel Company Wadge Mine	11				11		;		1	117,603.25	117,603.25
Weld County McNeil Coal Corporation Sterling Mine	63	¢3	ī	1	:	:	:	:	:	19,183	103,202
Weld County Rocky Mountain Fuel Company Columbine Atine	-	T		:	i	:	:	;	•		234,209
weld County Wm. B. Russell Company Russell Mine	4	4	1	:	:	:	:		!	28,058	67,672
Weld County The Shamrock Coal Company Shamrock Mine GRAND TOTAT.	1	1 1	1	=	322	:	*:	و	:	8,674	53,665 2,665 2,603,486,24

MECHANICAL LOADING IN COLORADO IN 1937-Continued

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Source: 1937 Yearly Coal Mine Reports submitted to the Colorado State Inspector of Mines. Compiled by: Edward J. Smith and John Tierney, National Bituminous Coal Comm., April 11, 1938.

BRIEF DESCRIPTION OF FATAL ACCIDENTS WHICH OCCURRED IN THE COAL MINES OF COLORADO DURING THE CALENDAR YEAR 1937

January 16—JOE MAJOR, American, machine runner, experience 14 years, age 34 years, married, two children, employed by the Imperial Coal Co. at the Imperial mine, Weld county, was instantly killed by a piece of coal falling down the shaft. Deceased was riding on cage from which a portion of the bonnet was off. The cager claimed that he was not aware of this defect, being busy caging cars. The mine foreman stated that he told the cager that bonnet was off, but the cager said he was not aware of such warning. The accident was due to a defective cage and had proper precaution been taken by the mine officials the accident would have been avoided.

January 26—ELOY SANCHEZ, American, machine miner, experience four months, married, five children, employed by the Perino Coal Co. at the Newlan Creek mine, Fremont county, was killed by a fall of rock. Deceased was throwing coal from the gob side of mine to the car when a large piece of rock gave way from an invisible slip, falling on him and killing him almost instantly. The superintendent had examined the roof a short time prior to the accident and found no evidence of slips or looseness. The place was well timbered and three additional props had been set in line, three feet back from face. The accident was unforeseen and is classed as unavoidable.

February 2—CECIL SLOAS, American, miner, age 37, experience 5 years, single, employed by the Moffat Coal Co., Moffat No. 2 mine, Routt county, was killed by a fall of coal caused by a bump. The place had been visited by the mine foreman 15 minutes prior to the accident. The place was found to be in a workable condition and timbers set according to the timbering agreement. The bump which caused the accident was due to the hazards of the industry and therefore is classed as unavoidable.

February 6—JOHN STRITCHKO, Slavish, loader, age 69 years, experience 32 years, married, no minor children, employed by the Louisville-Lafayette Coal Co., Hi-Way mine, Boulder county, was injured by a fall of rock from the roof at face and died 17 hours later. The accident occurred at 9:30 a. m. and the place had been visited by the mine foreman at 11:00 a. m. the day prior to the accident. Deceased was making preparations to put in a crossbar after approximately half the coal had been loaded from a cut which had been shot down the night before. On the road side of room a cross-bar had been set six feet from face of broken coal with only one prop under cross-bar. On gob side of room, cross-bar is about 10 feet from face of broken coal. After the rock fell it showed a slickened side and was about eight feet in length and varying in thickness from 10 to 15 inches and about five feet wide. The place had not been visited by the superintendent for two days prior to the accident. The accident might have been avoided had the place been timbered according to the timbering agreement and it is the duty of the mine officials to see that the timbering agreement is complied with.

February 23—JESUS PEDEROSA, Mexican, rope rider, age 29 years, experience 10 years, single, employed by Joe Maloney at the Nugget mine, Huerfano county, was injured on February 13 by being caught between car and prop and incurred a fractured skull which resulted in his death on February 23. A loaded car was derailed on a curve. It was jacked up and when deceased went to push the car towards the track, the jack slipped and in some manner catching deceased's head between the car and mine prop. The accident is classed as unforeseen and therefore unavoidable.

February 24-JOHN STRAZISCAR, American, machine miner, age 19 years, experience two years, single, employed by the Nushaft Canon Coal Co. at the Rex Carbon mine, Fremont county, was injured on February 15 by a fall of rock and died on February 24. The mine foreman had visited the place one hour and forty-five minutes prior to the accident and was unable to test the roof due to coal being piled up to the roof as a result of coal being shot down the night before. There is a draw slate varying from two to six inches throughout the mine and it is the custom to take this down as the coal is extracted. The mine foreman instructed deceased to take care of the draw slate as soon as sufficient coal was extracted and then left the mine, going to another mine operated by this company but before leaving deputized a non-certified man to act in his place during his absence. This man visited the place where deceased was injured and again warned him to take care of the draw slate. Deceased had carried out the instructions, except that a piece of draw slate about four feet long and two feet wide was left up, it being keyed in a tight corner. Deceased had set the post drilling machine under this draw slate and drilled a hole about two feet deep when apparently the pressure of the post caused by drilling the hole resulted in the draw slate giving way and striking deceased on the head, fracturing his skull with the above mentioned result. The place was well timbered when examined by the mine officials after the accident and as there were no eye witnesses to the accident no statement could be obtained. Deceased also was unable to make a statement. The accident is classed as unavoidable due to the hazard of the industry.

February 25—JAMES C. ROBERTS. American, miner, age 25 years, experience two years, single, employed by the Victor-American Fuel Co. at the Wadge mine, Routt county, was killed by a fall of rock. The place had been visited by the mine foreman one hour prior to the accident. Deceased was working on a Vulcan conveyor when the rock fell, crushing his head. The place was in fair condition except that at the face, which was short of props on account of cutting machine or that some of the timbers had been knocked down by the falling rock. From the inquest it was found that one prop had been removed for pulling the cutting machine out and same had not been replaced. Had this prop been replaced in all probability this rock would not have become loose and caused the accident.

March 5—JOE CIMINO, Italian, miner, age 60 years, experience 30 years, single, employed by the Rouse Coal Mining Co. at the Rouse mine, Huerfano county, was injured by a fall of rock and died therefrom approximately 12 hours later. The place had been visited by the mine foreman 45 minutes prior to the accident. The place was well timbered and the timbering agreement was complied with. Deceased and partner were loading a car of coal when a large rock seven feet long, three feet wide and two feet thick fell from a slip between the timbers. Upon examination of the roof it was found that a slip paralleling the room and breaking off at the face of coal was the cause of accident. The accident is classed as unforeseen. RECOMMENDED: That in all working places where slips are visible, that cross-bars be used and gob props be set closer, regardless of the timbering agreement.

March 14-CARL ORVAL WEAVER, American, coal loader, age 41 years, experience 20 years, married, four children, employed by Herman West at the Pine Gulch mine, Fremont county, was injured by a fall of rock from the face on March 12 and died from said injuries on the above mentioned date. He incurred a fracture of the leg six inches above the knee, fractured pelvis with back and hip injuries. The mine foreman had visited the place about 15 minutes prior to the accident. Approximately 1,500 pounds of rock fell from face of coal over a car the deceased was loading, 500 pounds of which caught deceased causing the aforesaid injuries which created a blood clot and was one of the causes of his death. A draw slat running from four to 10 inches in thickness is between the four-foot seam of coal and a 10-inch seam of rotten top coal which is left for roof. There were no props on hand as they are ordered as needed. The place had been cleared and timbers reset when investigation was made. Witness claimed that there was a center prop between car and face which was swung out when coal was removed, prop being under face of rock. There were two props about 10 feet apart standing four feet from face, the next row being eight feet from face. Room was cross-barred to about 14 feet from face. Rock could have easily been removed. It appeared that deceased wanted to load coal out first. Coroner's verdict, "Unavoidable accident."

March 16—ALBERT OLGUIN, Spanish-American, pick miner, age 22 years, experience six years, married, no children, employed by the Huerfano Coal Company, Ludlow No. 2 mine, Las Animas county, was killed by a fall of rock in a room pillar. The place had been visited by the mine foreman six hours prior to the accident. There was a sufficient supply of props on hand and the place was well timbered as props were only two and one-half feet apart, thus complying with the timbering agreement. Deceased and his partner were loading a car of coal when a rock fell from a pot slip from between the props. Upon examination of roof it was found that two slips and the pot rock broke off at the face of the coal. The roof was tested prior to the accident and seemed to be in good condition. The accident is classed as unforeseen.

March 31—WM. GEORGE ABLETT, Welch, machine miner, age 51 years, experience 42 years, married, no minor children, employed by the Griffiths Coal Company, Griffiths mine, Fremont county, came to his death by suffocation and seared lungs caused by an explosion of firedamp ignited at face of cross-cut by an electric spark from cutting machine. Mine foreman and machine runner working at face were seriously burned.

May 7—ANTONIO PUGA, Mexican, car dropper, age 52 years, experience 17 years, married, five children, employed by the Bear Canon Coal Co., Bear Canon No. 6 mine, Las Animas county, came to his death by being run over by a loaded railway coal car (surface accident). Deceased was setting the brake on the car when the brake rod suddenly broke causing him to lose his balance and he fell directly in front of the moving car, the wheels of which passed over him and severed both legs from his body causing his death a few minutes later. The accident was caused by a defective brake staff and neither the company or deceased can be held responsible for the accident.

May 15-ALEX ZANGANOS, Greek, machine and pick miner, age 42 years, experience 17 years, single, employed by the Leyden Lignite Co. at the Leyden No. 3 mine, Jefferson county, was killed by a fall of rock and coal overhanging at rib. At time of accident deceased was at work making preparation to take another lift across the pillar when the overhang of rock and coal fell from the roof, hitting him and causing such injuries that he died a short time after the accident. A day prior to the accident, deceased was warned by the assistant mine foreman to work the inby end of the hangover where it was safe. He was again warned to do so by the mine foreman one hour prior to the accident. After the accident deceased was found at the outby end and directly under the overhang. Apparently deceased had disregarded the instructions of both the mine foreman and the assistant mine foreman. The places where deceased and his partner were working were well timbered and evidence shows that deceased was a practical workman and usually complied with the instructions of the mine officials. The accident might have been avoided had deceased complied with the instructions of the mine officials.

May 21—LOUIS POZZI, Italian, rock miner, age 44 years, experience 20 years, single, employed by the Keystone Coal Co. at the Keystone mine, Routt county, came to his death by being hit with rocks caused by shots going off before he was able to leave the place. From evidence given at coroner's inquest by deceased's partner, they had just finished drilling and loading 10 shots when deceased asked his partner to leave the place while he fired the shots. All shots were fired by a fuse about four feet long. The partner testified that he heard seven shots go off in succession. The mine foreman testified that the place had been cleaned up and only two unexploded shots had been found. One witness testified that the first five shots went off right in order and then there was a pause of about one-half minute between the fifth and sixth shots. Evidently deceased may have had some trouble in lighting the fuse of the sixth shot, thus delaying him so as to have one of the shots go off before he had completed lighting all of the fuses. Apparently deceased had tried to escape as soon as the first shot went off as he was found about 24 feet from where the shots were placed. Deceased was employed to do rock work and was considered experienced in that line of work. Perhaps his long experience in rock work made him a little careless in handling of shots as it was the custom to fire the shots as soon as possible after the shots were tamped. Deceased was dead when found from the multiple injuries received from the flying rock. Had longer fuses been used, or fewer holes loaded. deceased could have completed igniting all shots and got to a place of safety before the first shot went off.

June 2-FRANK BLAZONIK, Austrian, machine miner, age 47 years, experience 12 years, single, employed by the Juanita Coal & Coke Co. at the King mine, Delta county, came to his death by being electrocuted. Deceased upon entering his place picked up the shooting line and laid it in a pile in the cross-cut thinking that it had been disconnected from the jumper power line which is used to fire the shots and also to connect with the cutting machine. Jumper power line is connected to main power line carrying 440 v. AC. Deceased, hearing the cutting machine coming, stepped into the cross-cut to get out of the way of the machine. The machine men, not knowing that the firing line had not been disconnected from the jumper power line, turned the power onto the jumper line so they could start cutting, thereby turning the same power into the firing line. Deceased's feet were tangled in the firing line, the ground being damp and immediately upon turning on the power deceased met instant death by electrocution. The shot firer was instructed by the management to disconnect the firing line from the power line immediately after firing shots. The fire boss had instructions to check on the shot firer to see that the power wires were disconnected; this he failed to do. Had either the fire boss or the shot firer followed their orders the accident would have been prevented.

June 4—DAIZO HONGYO, Japanese. miner, age 57 years. experience 14 years, single, employed by the Hayden Coal Corp. at the Hayden No. 3 mine, Routt county, was injured by a fall of coal on June 2 and died on the above date. Deceased was working in a pillar between 17th and 18th of the upper 4th south when a bump of coal fell on him injuring him so severely as to cause his death. The place was found to be well timbered and in a good working condition and had been visited by the mine foreman two hours prior to the accident. No one can be held responsible for the accident as same was due to the hazards of the industry.

July 22-GEORGE OTAVA, Rumanian, track layer, age 55 years, experience 41 years, married, four minor step-children, employed by the Clayton Coal Co. at the Clayton mine, Weld county, was injured by a fall of rock on the new motor road, 4th East, on July 15, 1937, and died on the above date. Deceased was pulling spikes preparatory to taking up rails in order to lay heavier rails when a piece of rock fell from the roof causing injuries which resulted in his death. The mine foreman had visited the place one hour and 20 minutes prior to the accident and claimed that the conditions at that time appeared to be safe but instructed the men to take down all loose rock and to timber places. Two of deceased's co-workers tried to take down this rock by using a pick and bar and, failing in their efforts, left the rock up without making provisions to make it safe. This rock fell on deceased with the above mentioned result. Deceased came to his death through no fault of his own but, rather, due to the neglect of his co-workers, who failed to make the rock safe by timbering it. It is very poor mining practice to allow anyone to work near a loose rock, especially after an attempt had been made to take it down and without first making it safe by timbering.

August 2—ANDREW WILLIAM PANIAN, Austrian, driver, age 21 years, experience 14 months, single, employed by the Colorado Fuel & Iron Corp. at the Crested Butte mine, Gunnison county, came to his death by being run over by a loaded mine car. Deceased was driving a mule in the 10th north entry. The accident occurred betweens rooms 13 and 14 after deceased had come out of room 15 with a loaded car. A power line crosses the track through a cross-cut on the lower side of the entry and goes into room 14, which is six feet above the frog. The wire was found to be burned in two places which had been previously spliced. Two other drivers who were on the parting said that they saw a flash and heard deceased say "whoa" to his mule. When they did not hear him coming they went up the entry and found him under the loaded car, laving facing up the entry, the car was off the track and he was still alive. The lineman said that he examined all the lines in the mine the day before as the mine had been idle a month. Apparently moisture had seeped through the tape on the splice, causing the wire to arc; this probably frightened the mule, causing deceased to lose his footing and fall under the car. The wire was heavily insulated between the splices and therefore the accident would be classed as unforeseen, arising from the hazards of the industry.

August 30—JOSE B. TORRES, American, pick miner, age 48 years, experience 10 years, widower, three children, employed by the Colorado Fuel & Iron Corp. at the Frederick mine, Las Animas county, was instantly killed by a fall of rock. Deceased and his partner were working in pillar No. 7, 25th east off 6th south. The place had been examined by the fire boss about four hours prior to the accident and found to be safe. It was well timbered and plenty of props were on hand. According to deceased's partner, they had loaded one car of coal and had gone after an empty to bring same to the face. When they returned the roof gave way on the roadhead, the large rock resting on the car with part of the rock breaking off the outer edge and falling on deceased's head with the above mentioned result. The accident is classed as unforeseen.

September 12—BURTON BURNS, American, machine runner, age 27 years, experience 11 years, married, two children, employed by the Colorado & Utah Coal Co. at the Harris mine, Routt county. came to his death by being electrocuted. Deceased and his partner had completed cutting and drilling of a cross-cut at the face of F panel, room 26. The machine, which is an undercut type, had been loaded and the feed cable which extends from the truck to the machine had been coiled over the motor. Upon first examination it was decided that drill column which was placed over the cable upon a place which was spliced caused the electrocution but upon further examination of the machine in the underground machine shop it was found to be very badly grounded in the stator. Several of the coils were badly shorted. This machine had not been in use for some time and evidently the motor had absorbed some moisture to cause this condition. When it was last used it had been in safe. workable condition. It is found that whenever any electrical equipment stands for any length of time it should be inspected to determine whether it is safe to be used and if this had been done the accident would have been avoided.

November 9-NACARIO PATINO, Mexican. miner, age 42 years, experience 15 years, single; and

FRANK A. SHARP, American, acting mine foreman, age 41 years, experience 15 years, married, three children, employed by the Hayden Coal Company at the Hayden No. 3 mine, Routt county, came to their death by being crushed by a fall of top coal and rock. Deceased, Nacario Patino, and his partner were working in a pillar loading coal when acting mine foreman Sharp and Supt. Thos. Greenhalgh came to the place on their regular inspection visit. The superintendent and foreman had been in the place only about one minute when the fall occurred, killing Sharp and Patino instantly and injuring Greenhalgh and Patino's partner. At the coroner's inquest it was brought out that the place had not been visited from the time of the fire boss inspection at 4:30 a.m. until the accident at 1:30 p.m. of the same day. The place was well timbered and as the assistant mine foreman and the superintendent did not have sufficient time to make a thorough inspection of the place before the accident, same is classed as unavoidable, due to the hazards of the industry. RECOMMENDATION: That all pillar places be visited more frequently by the mine foreman or some other certified official familiar with pillar extraction in this district.

December 15—ALFRED MOREAU, American, miner, age 51 years, experience 30 years, married, employed by the Hayden Coal Co. at the Hayden No. 3 mine, Routt county, was injured by a fall of top coal on November 26 and died on the above date as a result of said injuries.

December 31—AUGUST MATTIVI, Italian, loader, age 53 years, experience not known but he was an old coal miner, single, employed by the Rouse Mining Co. at the Rouse mine, Huerfano county, came to his death by being crushed by run away empty car on the main slope.



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