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TWENTY-THIRD ANNUAL REPORT

OF THE

State Inspector of Coal Mines

1935



1936

TOTAL TOTAL

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THE BRADFORD-ROBINSON PTG. CO., DENVER

CONR M C6 1935 C.2

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LETTER OF TRANSMITTAL

Denver, Colorado, May 7, 1936.

To His Excellency,

ED C. JOHNSON, 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 1935.

Respectfully,

THOMAS ALLEN,
State Inspector of Coal Mines.

PERSONNEL OF THE COAL MINE INSPECTION DEPARTMENT

Ada R. Tibbits, Chief Clerk	Denver, Colo.
Max M. Greenwald, Assistant Clerk	Denver, Colo.
f FIELD FORCE AND DISTR	ICTS

Thomas Allen, Chief Inspector. Denver, Colo.

- Hugo H. Machin, 721 Macon St., Canon City...........District No. 2 All the mines in Elbert, El Paso, Fremont and Huerfano counties except the five mines listed in District No. 1.
- GEORGE C. DALRYMPLE, % La Court Hotel, Grand Junction......

 District No. 4

 All of the mines in Archuleta, Delta, Garfield, Gunnison,
 La Plata, Mesa, Montezuma, Montrose, Ouray, Pitkin, Rio

Blanco and San Miguel counties.

SUMMARY OF THE COAL PRODUCTION OF COLORADO FOR 1935

	0.05
Number of mines operated	367
Number of new and old mines opened—new mines 7, old mines reopened 38; total	45
Number of mines closed 14, abandoned 3; total	17
Tons of sub-bituminous coal produced2	
Tons of semi-bituminous coal produced	
Tons of bituminous coal produced	394.412
Tons of anthracite coal produced	3,764
TOTAL NUMBER OF TONS OF COAL PRODUCED	,
Increase, 1935	
Tons of run of mine coal produced	
Tons of lump coal produced1	
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 hand1	
Tons of coal mined by machine	
Number and kind of machines used-compressed air 48, electric	,,,
364; total	412
Tons of coal mined for shipment—By railroad 4,420,920, by truck	=0.15=0
and wagons 1,373,653; total 5	
Tons of coal used at the mine for power and heat	154,088
Tons of coal shipped out of the state	786,158
Tons of coal made into coke	427,001
Tons of coke made	256,110
Number of days coke ovens were operated	308
Number of coke ovens used	179
Number of men employed at coke ovens	51
Number of miners employed—pick miners 1,818, machine miners 3,174; total	4.992
Number of men employed in and about mines (average)	8,401
Average number of days worked (man-days)	168.3
Daily production per miner, tons	7.1
Annual production per miner, tons	1,191.65
Number and type of safety lamp used—flame 445, electric 6,995;	•
total	7,440
Number of carbide lamps used	2,590
Number of pounds of carbide used (approximate)	93,565
Number of pounds of black powder used	820,214
Number of pounds of permissible powder used	291,380
Number of pounds of dynamite powder used	42,076
Number of men killed—underground 23, surface 3; total	26
Number of men injured	1,114
Number of men killed per thousand employed—actual days worked	3.09
Number of men killed per thousand 300 day workers	5.51
Number of men injured per thousand employed	132.63
Number of tons of coal produced for each life lost	228,793
Number of tons of coal produced for each non-fatal accident	5,340
Number of men killed per million tons of coal produced	4.37
Number of men injured per million tons of coal produced	187.27
Number of men employed per fatal accident	323.11
Number of men employed per non-fatal accident	7.54
Number of widows left Number of children left fatherless	20
Cost of development work done in mines during 1935	51
Mines reporting	121
Attites reporting	141

NOTE—Yearly reports of 8 mines were filed too late to embody their combined production of 3,184 tons of coal in the tables of this Annual Report. However, they are included in the "Mine Directory."

STATEMENT SHOWING RECEIPTS AND DISBURSE-MENTS FROM JANUARY 1 TO DECEMBER 31, 1935

RECEIPTS

Tax collected on coal mined\$	22,476.12	
License to operate coal mines	11,750.00	
Sales of copies of the coal mining laws	96.95	
Refunds	6.92	
Balance brought forward from 1934	1,585.10	
Total		\$35,915.09
DISBURSEMENTS		
Salaries entire department\$	18,904.69	
Fatal accident investigators, per diem and expenses	123.00	
Railroad transportation	197.58	
Automobile mileage and expenses	2,532.36	
Board of Examiners	1,712.98	
Printing	1,823.49	
Postage	635.82	
Stationery and office supplies	802.43	
Telephone service (toll calls entire department)	223.78	
Telegraph service	42.64	
Field equipment	306.13	
Hotel	531.95	
Meals	573.90	
Miscellaneous	1,093.21	
Total		\$29,503.96

Balance on hand December 31, 1935...... \$ 6,411.13

INTRODUCTION

Twenty-third Annual Report OF THE

State Inspector of Coal Mines 1935

The report on the coal industry for Colorado for 1935 is very gratifying as it shows a substantial increase in production over 1934 and a trend towards better times. Colorado produced 5,948,661 tons of coal during the calendar year of 1935, which represents an increase of 697,658 tons over the year of 1934. This tonnage was produced by 367 mines employing an average number of 8,401 miners and other employees who worked 168.3 man-days, an increase of 272 men and 23.4 man-days over 1934. There were 342 companies and individual operators reported, with very few operators working more than one mine.

The 1934 production was approximately 42% of that produced in 1918 which was the peak year in the coal industry of Colorado. Since 1929 the production dropped steadily until this year, which showed an increase as above stated.

The great decrease in production also diminished the revenue which is necessary to maintain this department. To overcome this loss in revenue, new legislation was enacted by the Thirtieth General Assembly requiring all coal mines to take out an annual license. Mines producing 500 tons or less annually pay a \$10.00 fee. Mines producing in excess of 500 tons and less than 1,000 tons pay an annual fee of \$25.00. All mines producing in excess of 1,000 tons annually must procure a \$50.00 license. Three hundred sixty licenses to operate a coal mine were issued to mines producing from 20 tons of coal annually, to the largest which produced 292,368 tons of coal during 1935. Seven mines closed either prior to the law going into effect or were closed for failure to get a license.

Of the 367 mines reporting only 76 have railroad connection, the balance being served by trucks and wagons.

The number killed in and around mines was 26 men, 4 of whom were killed in the Bear Canon mine explosion in Las Animas county. There were 1,114 injuries reported. Detailed ratings of injuries and deaths are recorded in the tables of this report.

A number of new names appear in the list of mines reported herein. They do not all represent new mines. In most cases they are old mines reopened under new names by new operators. However, in cases where the mines have changed hands the old names were retained unless the operator insisted on the change.

For a number of years the classification of coal (sub-bituminous, semibituminous, bituminous, semianthracite and anthracite)

was given as reported by the operator. This year the classification of coal as shown was checked from the reports of the U. S. Geological Survey wherever such reports were available.

Seven new mines were opened up for local trade only. They are as follows:

Canon Imperial Mine, Canon Imperial Coal Co., Florence, Fremont County.

Manley Mine, Manley Coal Co., Canon City, Fremont County. Nugget Mine, Joe Maloney, Walsenburg, Huerfano County. Golden Mine, Golden Mines, Inc., Golden, Jefferson County. Comet Mine, Bracken & Mathews, Galeton, Weld County.

Galeton Mine, Phillips & Roedeffer, Galeton, Weld County.
Graden Mine, Graham & McFadden, Longmont, Weld County.

The equipment installed and the cost of same was not included in the above mentioned mines, excepting the Garden Mine which reported an expenditure of \$16,000.00 for sinking and equipping a shaft 315 feet deep.

Competitive fuels in the market, such as oil and gas, have been partly responsible for the reduction in coal consumption in Colorado and other parts of the United States. To meet this condition, new methods of preparation and selling are being used. Operators and sales agencies are getting together and acting collectively in defending themselves against these intrusions of their markets. Newer methods of mining are being adopted to reduce the costs of mining in order to meet the prices of competitive fuels.

The newer mining methods include mechanization, and several companies in Colorado are now experimenting with mechanical loading machines. Judging from experience and results obtained in other states, there is every possibility that machinery will replace the arduous hand loading of coal.

The introduction of mechanical loading will mean many changes in a great many of our mines with all attention directed to the safety factors of these installations, necessitating new rules and regulations.

EDUCATIONAL PROGRAM

The department was instrumental in inaugurating Safety and Educational work among those employed in our coal mines. More than 300 men were trained in "First Aid to the Injured" through the aid of the State Board of Vocational Training, who paid a large part of the expense and salary of the instructors, the other part being subscribed by the coal mine operators, United Mine Workers of America and industrial concerns selling supplies and equipment to the coal mines. Fifty-six men were trained in Helmet Work, Mine Rescue and Recovery. The cost of this training was borne by the State Board of Vocational Training who paid the salaries of the instructors. The coal companies paid approximately

\$4.50 for supplies for each man and wages for the time spent during his training. The United States Bureau of Mines furnished instructors and the use of their equipment, and I herein express appreciation and thanks to them and to the others, for their valuable assistance.

As result of the educational program conducted, 267 men out of 297 applicants passed the examination for coal mine officials. The examinations were held in September, 1935, at six centrally located places, so those desiring to take the examination would not be put to a large expense or loss of time, as heretofore has been the case.

WORK OF FIELD FORCE

The department acknowledges gratefully the cooperation rendered by both the operators and workers in complying promptly and in a most friendly way with the recommendations made by the inspection staff for the safeguarding of life and property.

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

Total number of inspections made	759
Total number of mines inspected	483
Number of fatal accidents investigated	22
Number of inquests attended	13
Scales inspections	23
Complaints investigated and adjusted	40
Prosecutions	None
Miles traveled by automobile	3,443
Miles traveled by railroad	848

In conclusion, I wish to extend my thanks and appreciation to the field force for their good work and for the loyal support given this department.

In general, there is a feeling of optimism in the industry; coal sales have increased and good will exists between the operators and labor and we are going into 1936 with every hope and expectation that these good conditions will prevail and that our coal industry will continue to have a steady growth.

THOMAS ALLEN,
State Inspector of Coal Mines.



			-					Kimi	of Opening			
Name at Company or Operator	Name of Mine	Социту	Name of Matager or General SuperIntendent	Post Office of Company	Name of Mine Superintendent	Past suffice of Mane	Raifrond to Mine	State State of Shape	<u> </u>	Lenger of Freign	Average Thickness of Scam ————————————————————————————————————	
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Forrid Foal Mining Co. W. A. Roan Conl. Co. Red Ash Poul Co. Black Jinuk Cod M. Co	Torrid No. 3 Spanish Penk No. 2 Lender No. 2 Black Huwk	Huerfane Huerfane Huerfane Huerfane	W. V. Hrom M. J. Judbeck P. H. Jenkies	Agullar Plogo Walsonlineg Walsonburg	T a stone	Aguiller Tloge Walsenburg Walsenburg	D & R. G. W & C & S None None	150 1250 120 130	6. 15.2		3,	3
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Sum George & Sons Jos Malaney Steve Mattist & Son, Bunker Hill Coal Co	George No. 2 Noggett Buoker 160 No. 1 Eggs. 7 HIB No. 2	Huerfano Huerfano Huerfano Huerfano	Sams to argo for Matom y Joe Matthal Arthur Dosto	fas Veta Rogdo Rughy Vantlar		La Vota Rugby Hugby Rugby	None None None	300 300	10%	200	10 4 2 7	10
Som Balardata Spring Canon Coal Co Tessitor & Eaglor Jama Murrell	Spring Camon Blue Rind Murrell	Hucefano Hucefano Hucefano Hucefano	Sam Balardela J. A. McCum Sam P. Paylor	ta Veta Wabienburg Wabienburg Las Veta	latin it is s Jano s Mussell	Let Voln Watsenburg Walsenburg La Vota	None None None None	\$00 %or 1100	20.4	1000	**************************************	2 1
Brown Hros Black, Hills Coul Co. North Park Coul Co. George M. Harm B	Moore Moore	Huerfano Huerfano Huerfano Juckiano	12 12 1599 mp 1 pank Hapal 11 W. Moore	La Vata Wabienburg Coolinoid Wableit	L. Brown	La Veta Wabieshurg Coulmont Walden	None None La N P. & W	No Report Flied	44 %	240	30	B
Loyden Lighte Co. C grack Fuel Co Jefferson Coal Co	Loydon No. I Caprock Virgida	deficients (Flutty 1 Nach S.M. Thompson C.H. Bolling	Walnesdarg Walnesdarg Lattleton	George at Intrinst George Triffs	Leviden eta Golden Walsenburg Littleton	None None None	31 U	12" 68	!	50 6 to A 12 5 to 10	
Non Windo Fool Co Wild 13 Leaving Co Golden Fool Mines, Inc Castle Cool & Mining Corp O IS Cool Co	Van Wlokle Colly Golden Oastle O K	Jefferson Jefferson Jefferwun Im Plata La Plata	G S Van Wickle Walter Michork Boy D Single Tom Owen	tablen Littleten Dooses Torrango Dorango	Henry N. Naff	Little fon Donver Durango Durango	None None None R G S & D & H, O, W None	700 250		550 3000 3400	1 to 2 4	ſ.
Sunshine Cost Co. Morning Star Cost Co. Valley Vis w Cost Co. Durango Cost Co. Huck Damond Cost Co.	Synahim Morning Star Valley View Durango Ulao k Diamond	Las Pinta Las Pinta Las Pinta Las Pinta Las Pinta	T Prese August Platt Farl Hatert Jim Delukio	Ingrango Durango Manore Durango Durango	Pacak Gelecuti Wm. Roberts	Purango Durango Mangos Durango Durango	Note Nute None None	Nut Given	ፍ ባኤ	1700 3000 700 2000	6 4 3	6 1
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	Rable Coal Chi W. A. Rozne Coal Co. Bone Fuel & Supple Co.	Unidi Anchor (Enreka) Howen	Last Authors Last Authors Last Authors	C.W. Meggiron W. A. Heam Ducid Lame	3 rinitod Pluga Trinitad	Phir Pillshard	Teluliful fluoratho Triulded	DARIUM Nine	Worked out to rep	144	1 200 3000	6 h 1 5 ln 7	r, \$
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	Farmer Mulual Cod Co. William Poul Co Mena County Cod Co J. W. Muntell & Son	Furmers No.1 Williams Ny atlag Mumbell	Mest Mest Mest Mest	Lea ther in Margary S. Williams George McMillin	Uruni Jacellan Uruni Jacellan Urulia Grand Jacellan	J W Mandell	Grard Junction Grand Junction Fruita Grand Junction	Notic Notic Notic Nutre	7 100 850	215 159 179	125	1	10
i	dorente Sudja Geo W. Philotor	Handry Peartins Gritis Page Oarbelt	Mana Mera Mera Mesa		frullr Graed Juorlbun Feella Loma	Vincen (Frodshing Jureph Sodin Goor T Pickent Day T Pickert	Grand Junction Fruita	None Note Note None	255 300	12% 17%	100	2 to 10 3	6 10 9
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- 5	Claretine Albeit Dale Skeelt Kunnich Creek Fatrorts	Jarrin Mooger Kairnah Creek	Mess Mess	F II Anderson, Secty	Orand Juri then Prints Whitewater	Clarens Allen Inde Skeds	Braild Junction Profitation	None None None	No Report Filed	3%	715 180	6	4
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2	Krystone Powl Co Frank Pornell W. H. Nelsh, Lester	Kel «Dine Hijfehor länft» Mr Nell Argostulch	Hand Horti Haute Routi	John Conocli Playd II Prol	Herimet Hear River Heavyt Oak (**re+ 8	Budy M left Urstrik Creyell W 11 Nefuly Bentgre [®] Rolfes	Houll Hear Bloom McGitegor Clak Ctook	II & B L II & B L II & B L None	25Un 500 100 1110			4 (r) 13 h h 1 1	ñ
1	Buttern to Court City	Seron Pajalo Erloga Illick Pat		11 Greyini	Phipprhore Boyden Benr Hivet	Inlores Mills	Philipaburg Harden Hrar Illrer	Notio Notic Notic	54a (50	100	\$100	1 3 1 4 4	
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	Clemarks + Heptosent follows			ploper placer		J R Horriso	Nnrivnaii 	Nutre	100			3	



TABLE NO. 1

TABLE SHOWING, BY COMPANY AND INDIVIDUAL OPERATORS, NUMBER OF TONS PRODUCED, NUMBER OF MEN EMPLOYED AND NUMBER OF MEN INJURED FOR THE YEAR 1935

COMPANIES	Total Production	No. of Men Employed	No. of Fatal Accidents	Number of Non-Fatal Accidents
Adair, Ivor	$ \begin{array}{r} 310 \\ 169 \\ 54,919 \\ 54,851 \\ 135 \end{array} $	$\begin{array}{c} 2\\2\\121\\79\\1\end{array}$	1	8 8
Altitude Fuel Co	$\begin{array}{c} 15,877 \\ 12,826 \\ 98,860 \\ 442 \\ 363 \end{array}$	$\begin{array}{c} 26 \\ 27 \\ 132 \\ 10 \\ 3 \end{array}$		11
Aztec Coal Mining Co. Babej, Michael. Babson Coal Co Bachy Coal Co Bald, J., and Co	$13,617\\48\\1,393\\250\\3,223$	$\begin{array}{c} 40 \\ 1 \\ 3 \\ 2 \\ 10 \end{array}$		1
Baldy Coal Co Baldwin Fuel Co Barbour Coal Co Barker Coal Co Barnell, Geo. M	5,451 439 $7,301$ $3,346$ $2,699$	$\begin{array}{c} 7 \\ 1 \\ 125 \\ 4 \\ 3 \end{array}$		1
Batchelor, Chas Battoia, F Bear, Tony Bear Canon Coal Co Bear River Coal Co	136 297 9,863 11,572 71,471	2 12 33 81	4	4 24
Beasley, S. J Belardeta, R Bellino, Frank Bennett Coal Co Bierce, Jas. A	$\begin{array}{r} 462 \\ 437 \\ 150 \\ 496 \\ 526 \end{array}$	1 3 1 1 2		
Black, Earnest R Black Cat Coal Co Black Diamond Coal Co. (Delta) Black Diamond Coal Co. (La Plata) Black Diamond Fuel Co. (Boulder)	$\begin{array}{c} 1,335 \\ 1,044 \\ 489 \\ 1,500 \\ 49,853 \end{array}$	$\begin{array}{c} 4 \\ 2 \\ 2 \\ 4 \\ 50 \end{array}$		1 7
Black Hawk Coal Co Black Hills Coal Co Bluff Springs Leasing Co Boaglio Coal Co Bogliano, Cesare	$\begin{array}{r} 6,162 \\ 34 \\ 10,415 \\ 276 \\ 172 \end{array}$	12 3 24 2 2		6
Bohlender Coal Co Boulder Canon Coal Co Boulder Valley Coal Co Bowman, Guillermo Bracken & Mathews	3,349 $1,958$ $203,323$ 433 244	$ \begin{array}{c} 6 \\ 5 \\ 134 \\ \frac{2}{3} \end{array} $	1	35
Brook Canon Coal Co Brookside (oal (o Brown Bros Brown, Leonard. Buddy Coal Co	5,753 6,353 165 1,413 1,911	12 13 1 2 3		4 2
Bueno, Jose Y Bunker Hill Coal Co Busheff, N. M Busy Bee Coal Co Caddell Coal Co Caldirola Coal Co	70 801 6,538 5,570 1,398 17,034	2 2 10 9 6 28		3 2 3

COMPANIES	Total Production	No. of Men Employed	No. of Fatal Accidents	Number of Non-Fatal Accidents
Caliente Coal Co	42,159 236,318 34,765 1,891 1,441	120 230 42 6 2		3 10 2 1
Canon Imperial Coal Co	239 24,385 1,514 5,774 3,947	3 3 8 4 10 7		1 11 2
Caprock Fuel Co	7,705 475 8,111 20 3,385	9 2 11 1 3		3 7 1
Clayton Coal Co Coal Gulch Coal Co Coats, Milo Colorado Fuel & Iron Co Colo. Springs Coal Co	212,725 352 30 917,978 39,142	$\begin{array}{c} 264 \\ 3 \\ 1 \\ 1,120 \\ 70 \end{array}$	2 5 1	121 13
Colorado & Utah Co Combs, R. E Community Coal Mining Association Consolidated Coal & Coke Co Cooperative Coal Association	$168,982 \\ 1,781 \\ 396 \\ 100,408 \\ 215$	$149 \\ 6 \\ 1 \\ 118 \\ 2$	1	49
Cordray, Orie M Corley Coal Co Coryell, Frank Cox Coal Co Cox, T. L	$\begin{array}{r} 80 \\ 14,445 \\ 8,525 \\ 480 \\ 272 \end{array}$	1 24 9 2		3
Cracker Jack Coal Co Creager, L. W., & Co Crested Butte Coal Co Cribb, E. B Daisy Coal Co	1,438 350 30,415 20,162 1,226	4 2 37 26 3		1 8 3
Dalrymple, J. M Daniels, C. C Danville Coal Co Deboy, Frank Deldosso Coal Co	972 9,062 1,632 319 10,632	$\begin{array}{c} 2 \\ 18 \\ 2 \\ 1 \\ 24 \end{array}$		1 2 2
Deep Creek Coal Co Dent, R. B Diamond Fuel Co Dick Coal Co Di Giacomo, Pasquale	$\begin{array}{c} 200 \\ 384 \\ 1,406 \\ 15,613 \\ 345 \end{array}$	2 4 2 8 2		2 5
Domestic Coal Co Double Dick Coal Co Drennan Coal Co Dufur, Xavier Durango Coal Co	10,691 25,136 491 287 1,701	17 34 2 2 4		4 1 1
Durkan, Jas. L Eagle Coal Co Elder, Gene Eldorado Coal Co Electric Coal Co Empire Coal Co	\$6 800 182 6,301 1,228 1,378	3 2 10 25 55		1

COMPANIES	Total Production	No. of Men Employed	No. of Futal Accidents	Number of Non-Fatal Accidents
Estes, Tedford	1,178 14,690 1,428 3,461 55	$\begin{bmatrix} 2 \\ 35 \\ 2 \\ 10 \\ 1 \end{bmatrix}$		1 1 1
Fishers Peak Coal Co	382 313 1,624 2,216 646	$\begin{array}{c} 1 \\ 4 \\ 3 \\ 15 \\ 2 \end{array}$		
Frisco Coal Co	2,032 866 357 250 478	5 1 2 1 1		2
Garfield Coal Co	5,198 6,458 2,998 1,097 6,888	8 7 6 3 9		1 2 1
Giordano Coal Co	$\begin{array}{r} 1,445 \\ 200 \\ 30,042 \\ 514 \\ 327 \end{array}$	5 2 52 3 3		2
Gorbella, Dominic Gordon Coal Co. Graham & McFadden. Gray, L. J. Green Valley Coal Co.	844 47,018 1,273 274 5,187	70 7 1 4		7 12
Greenwood, Geo. A	7,484 1,989 715 1,492	$\begin{array}{c}1\\13\\3\\2\\4\end{array}$		2
Hawks Nest Coal Co	3,807 139,372 1,009 689 789	161 2 4 3	1	33
Hick, Earnest Hick, J. C High View Coal Co Himes, A. H Home Fuel & Supply Co	2,916 1,474 9,341 300 2,900	3 3 9 2 4		 1
Hopper, A. F	630 1,513 49,295 157,939 1,137	$\begin{array}{c} 3 \\ 23 \\ 104 \\ 135 \\ 3 \end{array}$		2 7 20
James Bros. Jefferson Coal Co Jeffryes Fuel Co Jewel Collieries Corp Johnson, Claude J	463 6,813 2,436 31,881 100	1 10 3 57 1		7 3 2

COMPANIES	Total Production	No. of Men Employed	No. of Fatal Accidents	Number of Non-Fatal Accidents
Jones & Trachta Jones, R. C Jones, Walter L. Jordan, Guy Juanita Coal & Coke Co	51 208 943 475 33,392	1 3 3 2 39		3
Kannah Creek Coal Association Keck, W. R Keota Coal Co Kerr Coal Co Keystone Coal Co	75 732 370 23,907 67,099	$\begin{array}{c} 2\\ 6\\ 5\\ 34\\ 103 \end{array}$		23
Kezele, John King & Mitchell Knez, Joe Knowlton, W. H. Kovac, Martin	362 1,639 2,541 233 1,909	2 2 3 1 3		
Ko-Z Coal Co	5,985 2,648 1,382 113,652 936	$11 \\ 6 \\ 3 \\ 110 \\ 2$	2	22
Little Johnny Coal Co	3,693 1,061 980 94,386 845	7 2 2 102 4	3	15
Lowery, Ray H	100 37 9,886 79,515 424	1 1 8 84 3		1 16 1
Major Coal Co	5,445 981 2,014 1,077 3,289	14 8 6 4 8		9
Marinelli Bros	147 4,287 93 607 5,834	$\begin{array}{c} 2 \\ 7 \\ 1 \\ 2 \\ 11 \end{array}$		2
Mattivi & Sons	390 979 11,270 1,594 1,915	2 2 20 4 2		1
Minnequa Fuel Co	11,987 159,026 1,184 2,367 2,251	21 226 4 4 6	1	38
Mundell, J. W., & Son Murrell, Jas National Fuel Co Neish, Wm. H New Standard Coal Mining Co	$\begin{array}{r} 942 \\ 214 \\ 236,271 \\ 8,188 \\ 12,260 \end{array}$	$\begin{array}{c} 2\\2\\280\\6\\28\end{array}$		42
Niggerhead Mining Co Northern Coal Co North Park Coal Co Nossaman, W. T Oberding, W. J.	1,236 2,442 21,320 111 182	13 5 24 1 2		2
North Park Coal Co Nossaman, W. T Oberding, W. J.	111	24 1		

COMPANIES	Total Production	No. of Men Employed	No. of Fatal Accidents	Number of Non-Fatal Accidents
Ohio Creek Coal Co	1,226 3,449 64,187 173 4,384	2 8 67 2 11		1 5 2
Paonia Farmers Coal Co	3,280 904 256 $1,330$ $13,029$	3 5 2 2 3 4	1	1 3
Peerless Coal Co	1,321 1,517 1,104 1,669 385	2 3 4 2 2		1
Pikes Peak Fuel Co	201,916 114 1,756 1,373 15,684	176 1 5 3 19	1	27
Pollard, C. F. Pollo, John, Jr. Pottorff, Frank Premier Coal Co. Pryor Coal Mining Co.	2,476 550 180 3,032 56,566	3 1 1 6 85		2 6
Rainbow Coal Co	485 1,267 314 14,838 111	$\begin{smallmatrix}2\\3\\2\\81\\1\end{smallmatrix}$	1	8
Red Ash Coal Co	7,800 3,389 1,404 215 1,168	$ \begin{array}{c} 17 \\ 5 \\ 6 \\ 1 \\ 2 \end{array} $		3 1
Rice, Arthur Riggio, Nick Riggs, W. E. Ritchneg, Jno. Riverside Coal Co.	417 2,385 858 568 1,505	2 3 5 2 5		
Riverview Coal Co	2,580 6,241 325 485,403 217	$\begin{array}{c} 2\\10\\2\\650\\4\end{array}$		98
Roderick & Porter	129 483 7,200 154 2,267	1 2 8 1 4		2
Routt County Mining Co	2,496 8,098 66,807 1,134 703	$\begin{array}{c} 4 \\ 21 \\ 61 \\ 2 \\ 2 \end{array}$		1 21
Scruggs, Clyde (no production)	1,488 56,978 1,396 240	75 3 2	1	4

COMPANIES	Total Production	No. of Men Employed	No. of Fatal Accidents	Number of Non-Fatal Accidents
Skeels, Dale Slagle, E. G Sodja, Joseph South Canon Mine Leasing Co Sparks, Lee	$ \begin{array}{r} 129 \\ 350 \\ 542 \\ 14,179 \\ 230 \end{array} $	2 2 2 12 2		1
Spencer, Geo. S	110 292 130 1,292 2,915	1 3 1 3 6		
Steel, Geo., & Co	455 28 3,044 886 1,625	3 1 5 4 3		4
Streeman, John	$\begin{array}{r} 6,792 \\ 371 \\ 2,875 \\ 238 \\ 70,260 \end{array}$	12 2 3 2 118		1 11
Tesiter Taylor Coal Co	242 2,341 8,341 10,307 397	2 3 17 18 2		2 1 3 5
Torrid Coal Co Towner Bros. Triangle Coal Co Trinidad Coal & Supply Co Tri-State Coal Co.	10,366 284 454 448 1,297	19 2 1 2 4		11
Tropic Coal Co	$\begin{array}{r} 486 \\ 19,323 \\ 2,003 \\ 3,928 \\ 56,152 \end{array}$	26 5 3 83		4 2 13
Victor-American Fuel Co	$\begin{array}{r} 452,649 \\ 632 \\ 185 \\ 70 \\ 461 \end{array}$	806 2 1 1 1	1	124
Western Star Coal Co White, L. R White Ash Coal Co White Rose Coal Co Whitlock, E. E	$\begin{array}{c} 606 \\ 25 \\ 742 \\ 339 \\ 100 \end{array}$	1 1 2 2 1		
Whitt, Wade Wild Cat Leasing Co Willden Coal Co Williams Coal Co Williams, John	516 3,897 1,203 1,115 269	2 9 3 3		7
Wilson & Volshin Wilton, Wm. G Winton Coal Co Wisconsin Coal Co Yingling, Chas	$\begin{array}{c} 216 \\ 469 \\ 1,404 \\ 250 \\ 493 \end{array}$	1 1 3 1 2		
Ziesenias, Henry Zimmerman, E. H	$^{1,197}_{242}$	2 2		
Totals	5,948,661	3,401	26	1,114

TABLE NO. 2

NUMBER INJURED IN COAL MINES DURING THE CALENDAR YEARS ENDING DECEMBER 31, 1931-1935

Total CAUSES Inderground: Falls of roof (coal, rook, etc.) Coal Mine cars and locomotives with rook and locomotives w			D	Dormanan	100	+			TEL	(PO)	TEMPORARY		ISAI	DISABILITY	LX		-					
derground: Falls of roof (coal, Falls of face or pillar Coal Mine cars and locomotives tives Falls of see or pillar Coal Mine cars and locomotives face explosions and Falls of face or pillar Coal Mine cars and locomotives Falls of face or pillar	al lity		, 6	Partial Disability	tial	, A	A	Time Lost More Than 14 Days	Time Lost Than 14	Lost	Days		Less	Time Lost s Than 14	Time Lost Less Than 14 Days	Days		T	otalI	Total Injuries	v.	
oof (coal, acc or pillar and locomo-	1934	1932	1861	1933	1934	1932	1881	1932	1933	₹86I	1932	1861		1933	1934	1932	1861	1932	8861	+861		1932
Mine cars and locomotives explored and locomotives captons and home cars with the cars and locomotive cars.	:			- 67				165 12	27 13	30 12	120 11	117 7	72	29	43	00	55	237 1	188	174 1	159	173
tives caplosions and burning each	-	:	:		:	:		99 7	2 02	4	94	89	40	00	47	333	48 1	139 1	1 62	101	27	137
	:	-		-	೯೦	್	1 16	62 130	-	50 13	39 13	32 7	0.2	84	60 4	44 8	80 2	233 21	70	213 1	98	214
: 70			:	=	:	- :		-	6.5			_							ro	2		
(including gas and dust combined)				- 1	1 1	1		<u> </u>	9	167	ec	7 7 7	67		1 1		1-	317	9	600	ಣ	
8. Electricity 9. Animals machines			9	: : : =	1 1 1 1	1111	1 2	1151	201	16 16 16	4231 2231	15 2	2882	18	10 10 16 1	1200	12 36	0000	27 74	126 74	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00 mm
11. Mines fires (burned, suffocated, etc.)	:::	-	. 2	: -	ಣ	: :		95 183	33 160		170 19	93 184		170 18		118 171		382	354	352	290	365
In Shaft: 13. Falling down shafts 14. Objects falling down 15. Cages or skips					; ; ; ; ;	1 1 1 1 1			2 2 2 2 2	: :				67	67		100		0 000	2 11	-	67
Total number in-		67	6	7 1		9	2 2(108 586	10	73 58	589 60	603 41	1 00	22	371 26	266 40	409 1,136	36 1,015	l	955	861 1	1,019

18	23 17	2 6	55 47	101 95	962 1,114
- 67	26		46	87	,042
10	24	೯೦	30	89	1,083 1
13	5 2 3	2	58	102	1,238
Ξ	6	67	29	51	460
9	.00		1.9	3.0	296
7	9	_	25	43	414
23	 ∝	-	14	26	448
9	€J ≪	_	30	4.9	467
1.2	9	₹	1.7	33	642
12	20	-	36	7.1	099
9	17	Ī	21	4.4	617
7	16	62	16	41	627
9	13	_	26	4.9	757
				4	6
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14	:-	:		_	60
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		÷			
		:	- 1		-
On Surface: 17. Mine cars and mine locomotives	18. Electricity 19. Machinery 20. Boiler explosions or	pipes pilway cars and	locomotives 22. Other causes	Total number injured on the surface	Grand Total

PERMANENT TOTAL DISABILITY. Loss of both legs or arms, one leg and one arm, total loss of eyesight, paralysis or other condition permanently incapacitating workman from doing any work of a gainful occupation. Ą.

PERMANENT PARTIAL DISABILITY. Loss of one foot, leg, hand, eye, one or more fingers, one or more toes, and dislocation where ligaments are severed, or any other injury known in surgery to be permanent partial disability. E.

In this column include only accidents which cause a loss of time more than the balance of the day or shift upon which the accident occurred. ن

TABLE NO. 3
MINE FATALITIES BY CAUSES, 1931-1935

	2111272			Years		
	CAUSES	1931	1932	1933	1934	1935
Und	derground:					
1.	Falls of roof (coal, rock, etc.)	4	8	7	8	10
2.	Falls of face or pillar coal	5	4	3	5	1
3.	Mine cars and locomotives	9	9	3	2	3
4. 5.	Gas explosives and burning gas Coal-dust explosions (including	••••	1			4
	gas and dust combined)	1				
6.	Explosives		1			1
7.	Suffocation from mine gases		2	2	1	
8.	Electricity (shock or burns)		1	2	3	
9.	Animals		1			****
10.	Mining machines					1
11.	Mine fires (burned, suffocated, etc.)					
12.	Other causes				1	1
Sha	ft:					
13.	Falling down shafts or slopes		1			2
14.	Objects falling down shafts or slopes					
15.	Cages or skips					
16.	Other causes					
			-			
	Total underground	19	28	17	20	23
Sur	face:					
17.	Mine cars and mine locomotives					1
18.	Electricity (shock or burns)					
19.	Machinery	2		1	1	
20.	Boiler explosions or bursting steam pipes					
21.	Railway cars and locomotives					1
22.	Other causes	****	1	2	****	1
	Total	2	1	3	1	3
	Grand total	22	29	20	21	26



TABLE NO. 4

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 PRODUCED IN 1935, AND CAPACITY OF MINE PER DAY IN TONS.

ARCHULETA COUNTY

Capacity of Mine Per Day, Tons			700 800 800 500 600	$\frac{150}{100}$	150	50 60
Total Num- ber of Tons Produced	272 250 150 111 37 820		95,217 94,386 86,478 54,851 49,853	19,323 15,684	$\begin{array}{c} 12,260 \\ 10,691 \\ 9,341 \end{array}$	6,301 6,5868 5,388 5,988
Average No. of Men Employed			136 102 196 79	26 19	28 17 9	110
Number of Days Worked	139 110 90 75 13 85.4		195.4 162 150.7 261 296	223 250	193 182 250	2222 2334 1844 994
Character of Coal	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	Ϋ́	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	Pagosa Springs	BOULDER COUNTY	Broomfield	LafayetteSuperior	Lafayette	Gorham Gorham Louisville Gorham
Name of Company	T. L. Cox. Dario Gallegos A. Bellino. W. J. Nossaman Chas. McBroom. of Mines operated: 5	B	National Fuel Co Louisville-Lafayette Coal Co Rocky Mountain Fuel Co Bard Allan Black Diamond Fuel Co	- 1 1	New Standard Coal M. Co., Inc. Domestic Coal Co. High View Coal Co.	Eldorado Coal Co. C. C. Daniels Ro-Z Coal Co. N. M. Busheff
Name of Mine	Cox Gallegos Bellino Nossaman McBroom Number		Monarch Hi-Way Industrial Grown Back Diamond No. 2	Vulcan Pluto No. 2	Standard Gorham High View	Eldorado

BOULDER COUNTY—Continued

Sunrise (New Red Ash). Premier. Northern. New Ross. Red Ash No. 2	John D. Matta Premier Coal Co Northern Coal Co Ross Coal Co Pittsburgh Coal Co	Gorham Boulder Gorham Gorham	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	196 236 181 280 199	11 90 40	5,834 2,442 2,267 1,756	
Regal Cracker Jack Pine Cliff Paramount Cactus	Regal Coal Co. Cracker Jack Coal Co. Tri-State Coal Assn. Paramount Coal Co.	Louisville Boulder Lafayelte Boulder	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	151 151 1322 100		1,404 1,438 1,297 514	
Tropic Arrow Coal Creck	Tropic Coal Co. Arrow Coal Co. C. C. Daniels.	Boulder. Gorham Gorham	Sub-bituminous Sub-bituminous Sub-bituminous	91 30 30	10 10	486 442 194	
Number	of Mines operated: 27			193.2	778	497,786	
		DELTA COUNTY					
King. Green Valley. Red Canon. Paonia. States.	Juanita Coal & Coke Co Green Valley Coal Co Red Canon Coal Co Paonia Farmers Coal Co States Hall Coal Co	Bowie Cedaredge Cedaredge Paonia Cedaredge	Bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	12580 12580 1350 1300 1300	24 ross	2000 2000 2000 2000 2000 2000 2000 200	1,000 50 30 25 80
Red Mountain. Winton. Independent	States Hall Coal Co. Winton Coal Co. Independent Coal Co. Western Star Coal Co. Bennett Coal Co.	Cedaredge Austin Cedaredge Cedaredge Hotchkiss	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	186 217 169 147 111	m m m − −	1,221 1,404 1,137 606 496	009 009 009 009 009
Black Diamond Illines (Petcock) Burdick Girling Converse.	Black Diamond Coul Co. A. H. Himes. O. C. Sherman. Louis Owens. Frank Pottorif.	Cedaredge Austin HotchKiss Lazear Paonia	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	122.8 90 60 95 95	21212121-	80 80 80 80 80 80 80 80	0 7 61
Rollins . Gelwick	Rollins O. M. Cordray	Delta	Sub-bituminous	96 20		154	
Number	of Mines operated: 17			205.1	7.6	53,449	

TABLE NO. 4-Continued.

ELBERT COUNTY

Capacity of Mine Per Day, Tons	100
-muN latoT anoT to Ted beouborq	3,396 1,396 1,396 1,396 1,396 1,32 1,32 1,32 1,32 1,32 1,32 1,32 1,32
Average Average Average	46686161 666 8
Number of Days Worked	216 239 150 150 164 200 164 190.6
Character of Coal	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous
Mine Postoffice	Matheson Matheson Matheson Buick Buick Buick Buick Fondis
Name of Company	R. B. Barker. J. O. Shay J. M. Dalrymple Cox Coal Co. Guy Jordan. C. W. Ayers. H. G. Battaia.
Name of Mine	Barker Shay Beaver Valley Cox Buick Buick Fondis

EL PASO COUNTY

1,000 400 200 100	100 100 7 4	
201,916 39,142 15,877 14,445 8,341	6,792 5,570 1,632 4831 424	294,630
176 70 26 24 17	3222	341
202 276 304 301 200	2303 2223 221 221 221 221	234.2
Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	
Olorado Springs Colorado Springs Colorado Springs Colorado Springs Colorado Springs	Colorado Springs Colorado Springs Colorado Springs Colorado Springs Rush	
Pikes Peak Fuel Co Colorado Springs Co Altitude Fuel Co Corley Coal Co Thomas Mining Co.	John Streenan. Busy Bee Coal Co. Danville Coal Co. Drennan Coal Co. Guy McPherson.	of Mines operated: 10
Pikeview City Coal Mine Altitude Corlet No. Jimmy Camp	New Keystone Busy Bee Climax Drennan Rush	Number

FREMONT COUNTY

900 400 210	125 125 125 125 125 125 125 125 125 125	20 20 20 20 20 20 20 20 20 20 20 20 20 2	200	10	3144 IO	-3° 00	
112,366 61,472 34,765 34,765 30,042 25,136	120,162 12,034 12,826 10,415 8,098 6,353	, rough, war, war, rough, war, rough, war, rough, war, war, war, war, war, war, war, war	3,223 1,958 1,891 1,624 1,517	1,514 1,441 1,104 886	00 #48886 00 #48886 00 8820 00 10 10 10 10 10 10 10 10 10 10 10 10	313 239	421,164
00 00 40 00 00 00 00 00 00 00 00 00 00 0	2807 7 7 8 6	122 10 10 10 8	1000000	কথক কঃ	m n−nn:	1 44 to	908
149.7 289.8 302 1302 266 241	202 202 200 200 1120 221 221 201	190 218 211 252 160	240 201 239 214	2003 180 180 83	1 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	87 100	202.1
Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous	Semi-bituminous Semi-bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous	Bituminous Bituminous Semi-bituminous Semi-bituminous Semi-bituminous	Bituminous Bituminous Semi-bituminous	Semi-bituminous Semi-bituminous Semi-bituminous Semi-bituminous	Semi-bituminous	
Chandler————————————————————————————————————	Oal Oreak. Florence Florence Florence Canon City.	Canon City	Florence Florence Canon City Rockvale Florence	Plorence. Coal Greek. Florence	Florence	Florence.	
Victor-American Fuel Co	E. B. Crubb. Caldirola Coal Co American Independent Coal Co Bluff Springs Leasing Co Royal Gorge Coal Co Brookside Coal M. Co	Brook Canon Coal Co	J. Bald & Co. Boulder Carron Coal Co. Carron Black Hawk Coal Co. Pilorence Coal Co. Pilorence Coal Co.	Canon Peacock Coal Co	Largie Coal Co. James Bros. L. W. Creager Pacity of Giacomo.	Florence Canon Coal Co	of Mines operated: 37
Chandler Rockvale No. 3. Canon Black Diamid Cedar Canon Double Dick Canon Monarch	Nushart Caldirola American Independent Bluff Springs Royal Gorge. Griffiths. Brookside.	Brook Canon. Canon Red Arrow Canon Senith Little Johnny Fawn Hollow Manley	Bald Boulder Canon Canon Black Hawk Florence Newlan Creek	Peacock Cunon Ideal Petty Canon Liberty (Strainer)	Fagle Willie No. 2 Bassick No. 2 Di Glacomo	Cuckoo No. 1 Canon Imperfal No. 3	Number

TABLE NO. 4—Continued GARFIELD COUNTY

Capacity of Mine Per Day, Tons	150 200 60 10			Ì
Total Num- ber of Tons Produced	14,179 9,886 6,888 1,406 1,382	1,197 1,178 1,061 319	37,939	
Average No, of Men Employed		2000-2	1 46	-
Number of Days Worked	296 177 182 153 211	200 200 159 117	53	
Character of Coal	Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous. Bituminous. Bituminous. Bituminous.	Bituminous	
Mine Postoffice	Glenwood Springs New Castle Carbonera, via Mack Glenwood Springs Silt	Rifle. Rifle. Silt. Glenwood Springs Rifle.	New Castle	
Name of Company	South Canon Mine Leasing Co. W. G. McDonald Co. Glison Asphaltum Co. Diamond Fuel Co.	Henry Zieseniss Estes Bros. Llewellyn Coal Co. Frank De Boy. Rauman Coal Co.	Geo. P. Rodrickof Mines operated: 11	
Name of Mine	South Canon New Castle. Carbonera. Diamond. Harvey Gap.	Zieseniss. Estes. Silt (Llewellyn) Ohkraut Rauman	RodrickNumber	

GUNNISON COUNTY

Crested Butte Somerset Oliver Alpine Kubler	Colorado Fuel & Iron Co Calumet Fuel Co Oliver Coal Co Rocky Mountain Fuel Co	Crested Butte	Bituminous Bituminous Semi-bituminous Semi-bituminous Semi-bituminous	160.8 178.5 192.5 118	215 132 67 61 5	178,167 158,929 64,187 37,619	1,200 1,200 350 350
Bulkley No. 2 Bear Hawks Nest Richardson Horace	Crested Butte Coal Co-Bear Coal & Coke Co-Hawks Nest Coal Co-Mt. Carbon Anthracite Co-Horace Anthracite Co-Horace Anthracite Co-Horace Anthracite Co-Horace Anthracite Co-Horace Anthracite Co-Horace Co-Horac	Crested Butte Somerset Somerset Gunnison	Bituminous Bituminous Bituminous Anthracite	193 164 184 134	132 133	30,415 9,863 3,807 2,251 1,513	200 10 50 42
				0			1

GUNNISON COUNTY—Continued

2001	. 65	
1,226 632 980 516 439	284	191,926
00000H	2 -1	575
169 199.2 108 114 71	90	160.2
Bituminous	BituminousBituminous	
Gunnison	Gunnison	
Ohio Creek Coal Co. Wm. Waugh. Lone Pine Coal Co. Wade Whitt Baldwin Fuel Co.	Towner Bros. S. L. Staples & Sons	Vumber of Mines operated: 17
Ohio Creek Carbon Greek Lone Pine (Edward) Hinkle Star	Castle Rock K. D.	Number

HUERFANO COUNTY

Robinson No. 4 Kebler No. 2 Calumet No. 2 Alamo No. 1 Alamo No. 1	Colorado Fuel & Iron Co Colorado Fuel & Iron Co Calumet Fuel Co Alamo Coal Co Barbour Coal Co	Farr. Tioga. Delcarbon Alamo	Bituminous Bituminous Bituminous Bituminous Bituminous	206.4 182.4 166.4 15	224 148 98 121 125	192,855 110,192 77,389 54,919 7,301	1,000 850 600 1,000 800
Pryor Gordon Ravenwood Maitland Toltec.	Pryor Coal M. Co Gordon Coal Co Caliente Coal Co Aztec Coal M. Co	Pryor Gordon Ravenwood Ravenwood Toltec	Bituminous	187.2 160 112 88 118	887 70 72 448 448	56,566 47,018 30,677 11,482 13,617	500 400 300 150
Ojo Canon. Niggerhead C. O. D. No. 2 Pitch Vein.	Peachey Coal Co. Peachey Coal Co. Peachey Coal Co. Peachey Coal Co. Minnequa Fuel Co.	La Veta La Veta La Veta La Veta Walsenburg	Bituminous. Bituminous. Bituminous. Bituminous. Bituminous.	163 80 77 588 109	22332	12,256 339 284 150 11,987	100 15 150
Torrid No. 3. Spanish Peak No. 2. Leader No. 2. Black Hawk. Major	Torrid Coal M. Co. W. A. Ream Coal Co. Red Ash Coal Co. Black Hawk Coal M. Co. Major Coal Co.	Aguilar Tioga Walsenburg Walsenburg	Bituminous	196 61 201 156 166	124 124 124	10,366 10,003 7,800 6,162 5,445	250 250 37 60 60
StrawberryShamrock	Strawberry Coal Co.	Walsenburg Tioga	Bituminous.	200	62 63	1,625	00

TABLE NO. 4 - Continued

HUERFANO COUNTY—Continued

Capacity of Mine Per Day, Tons	12 10 10 20 8	122	
Total Xum- ber of Tons Produced	1,445 1,398 1,097 981 390	801 2937 242 242 214	165 34 677,417
Average Xo. of Men Employed	ाय के थे ∞ था	20 00 00 00 00	1,238
Number of Days Worked	163 164 122 122 46	200 882 110 55	30
Character of Coal	Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous	Bituminous.
Mine Postoffice	Walsenburg Walsenburg La Veta Rugby	Aguilar La Veta Walsenburg Walsenburg La Veta	La Veta
Name of Company	Giordano Coal Co. Caddell Coal Co. San George & Sons Joo Maloney Steve Mattivi & Son	Bunker Hill Coal Co. Sam Balardeta Spring Cauon Coal Co. Tessiter & Taylor James Murrell.	Brown Bros. Black Hills Coal Coof Mines operated: 34
Name of Mine	Round Oak. Caddell No. 3 George No. 2 Bunker Hill No. 1	Bunker Hill No. 2 C. O. D. Faultless No. 1 Spring Caron Blue Bird Murrell	Brown. Black Hills

JACKSON COUNTY

ore	North Park Coal Co Coalmont Geo. M. Barnell Walden	Coalmont Walden	Sub-bituminous	- 34	24	21,320 2,699	200
Number	Tumber of Mines operated: 2			195.7	2.7	24,019	

JEFFERSON COUNTY

Levden No. 3	Leyden Lignite Co.	Leyden via Golden	Sub-bituminous	198	110	113,652	750
Caprock	<u> </u>	Walsenburg	Sub-bituminous	311	6 O I	7,705	150
Van Winkle		-	Sub-bituminous	212	. era (3,95	2.5
Unity	Wild Cat Leasing Co.		Sub-bituminous	230	D.	3,897	
(Jolden	Golden Coal Mines, Inc.	Denver	Sub-bituminous	251	20	327	
Number	Number of Mines operated: 62			214.7	141	136,322	

LA PLATA COUNTY

Castle O. K. Sunshine Valley View	Castle Coal & Mining Corp. O. K. Coal Co. Sunstine Coal Co. Morning Star Coal Co. Valley View Coal Co.	Durango Durango Durango Mancos	Bituminous Bituminous Bituminous Bituminous Bituminous	21 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 x & + re	8,8,2,2,2, 14,8,8,0 14,8,8,0 1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	150 50 15
Durango Black Diamond Blue Jay Pire Glow	Durango Coal Co. Black Diamond Coal Co. J. C. Hicks Leonard Brown Peerless Coal Co.	Durango	Bituminous. Bituminous. Bituminous. Bituminous.	191 125 2222.6 134.5	파 	1,701 1,500 1,474 1,413 1,321	11 118
Hay Gulch Hunt Henderson Slamrock Morning Glory	H. J. Rasmussen. Hesperus Coal Co. J. B. Henderson. James A. Bierce. Chas. Yingling.	Hesperus. Durango. Hesperus. Bayfield	Bituminous. Bituminous. Bituminous. Bituminous.	199 159 173 148	00 00 TO 01 01	1,267 789 689 683 683 683 683 683 683 683 683 683 683	_ ia ia
Triangle Tripotsch Rt. Lewis. Ellidge Excelsior	Triangle Coul Co. Frank Thotseh. Xavier Dufur. Cestre Boglino. Chas. Batchelor.	Dirrango	Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous	111- 73 1239 111- 70	21 e1 e1 e1	1000 1000 1000 1000 1000 1000 1000 100	15
Pine River Soda Springs Number	Pine River Coal Co	Bayfield Kline	Bituminous. Bituminous.	53 90 174.9	1 3 73	1111 86 31,624	×

TABLE NO. 4 - Continued LARIMER COUNTY

Capacity of Mine Per Day, Tons	2 3 3		1,800 1,000 1,800 1,500 450	500 600 250 175 300	500 150 68 26 45	150
Total Num- snoT to Ted besubord	1,989 845 333 250 173 3,596		292,368 82,924 177,380 98,860 70,260	56,152 49,295 31,881 15,613 11,270	11,572 10,307 8,266 2,366 5,451	4,835 2,900
Average No. of Men Employed	13 2 2 2 2 4 33	7	298 165 301 132 118	88 104 22 20 20	811 100 100 100	36
Number of Days Worked	213 134 100 90 90 133.3		205 93 136.7 99	162 128 144 196	73 153 125 121.2 256	42 179
Character of Coal	Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous Sub-bituminous	YTY .	Bituminous	Bituminous	Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous
Mine Postoffice	Carr Carr Carr Carr	LAS ANIMAS COUNTY	Valdez Morley Delagua Cokedale Brodhead	Rugby Ludlow Aguilar Boncarbo. Rugby	Vallorso. Trinidad Trinidad Trinidad	Boncarbo Trinidad
Name of Company	Hackman Coal Co	LA)	Colorado Fuel & Iron Co Colorado Fuel & Iron Co Victor-American Fuel Co American Smelting & Ref. Co. Temple Fuel Co	Vickers Coal Co Huerfano Coal Co Jewell Collieries Corp Dick Coal Co Pio Micheli	Bear Canon Coal Co. Thor Fuel Co. Deldosso Coal Co. Baldy Coal Co.	W. A. Ream Coal Co
Name of Mine	Hackman No. 1 Benson. White Rose. Bachy. Pioneer Number		Frederick Morley Delagua Boncarbo Brodhead No. 9.	Kenneth Ludlow Creston Dix Rapson	Bear Canon No. 6 Thor Sopris No. 1 Engle Baldy	Anchor (Eureka)

LAS ANIMAS COUNTY—Continued

Gem Coal Co	Agnilar	Bituminous	194	9	2.998	50
Jeffryes Fuel Co.	Trinidad	Bituminous	171	600	2,436	20
Nick Riggio.	Trinidad	Bituminous	245	೯೦	2,385	:
Frisco Coal Co.	Trinidad	Bituminous	177	70	2,032	10
Midnight Coal Co	Walsenburg	Bituminous	170	-	1,594	10
Empire Coal M. Co.	Aguilar	Bituminous	2.5	55	1,378	
Niggerhead Mining Co	Aguilar	Bituminous	2.1	13	1,236	-
Daisy Coal Co.	Aguilar	Bituminous	169	00	1,226	9
Starkville Coal Co.	Trinidad	Bituminous	7.2	00	1,292	10
Joe Morasky	Trinidad	Bituminous	154.5	4	1,184	10
Sanchez Coal Co.	Boncarbo	Bituminous	150	2	1,134	4
Liberty Coal Co.	Aguilar	Bituminous	130	2	936	2
Santa Fe Coal Co.	Trinidad	Bituminous	7.2	2	7.03	10
Martorano & Sons	Sopris	Bituminous	115.3	2	209	
Joe Rogerio	Trinidad	Bituminous	165	2	483	15
Benito Garcia	Boncarbo	Bituminous	200	-	478	ಣ
W. G. Wilton	Trinidad	Bituminous	200	1	469	5
Eugene West	Rugby	Bituminous	80	1	461	-
Trinidad Supply Coal Co	Trinidad	Bituminous	121	2	448	
Guillermo Bowman	Jansen	Bituminous	192	2	433	60
Rainbow Coal Co.	Trinidad	Bituminous	95	23	185	9
W. E. Riggs.	. Trinidad	Bituminous	100	00	124	
W. E. Riggs	Trinidad	Bitumirous	149	5	+34	10
A. D. Tucker	Trinidad	Bituminous	1+1	2	371	
John Kezell & Son	- Trinidad	Bituminous	81	¢1	362	
Fisher Peak Coal Co.	Trinidad	Bituminous	165	1	38 23	
M. Boaglio	Trinidad	Bituminous	110	67	276	10
Arrowhead Coal Co	Western	Bituminous	50	П	93	93
J. Y. Bueno	Trinidad	Bituminous	54	2	2.0	
Gus L. Storz	Weston	Bituminous	1.9	П	\$3 \$0 \$0	2
Number of Mines operated: 47			137.9	1,567	958,538	

TABLE NO. 4—Continued MESA COUNTY

Capacity of Mine Per Day, Tons	600 75 100 100 40	60 50 10 25 20	25 30 20 20 20	15	∞	18	
Total Num- ber of Tone Produced	23 6,450 8,455 8,116 4,288 4,288 4,288 4,288	2,3,3 2,044 2,5916 2,385 440 145 145	1,909 1,915 1,505 1,492 1,428	1,115 979 942 866 542	8888 888 887 8487 7487 7487 7487	135	73,015
Average No. of Men Employed	45 × 17	ಐಡಿಐನಿಐ	භ වෝ FO 4 වෝ	ଉଦାବା ବା	ଅଅଅଅଧ		125
Number of Days Worked	200 150 163 144 244	1148 2559 1259 1887	158 169 146 135.5	149 226 192 120	200 87 120 60 55	35 70 21	175.6
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	BituminousBituminous	
Mine Postoffice	Cameo Palisade Palisade Palisade Palisade	Palisade Fruita Grand Junction Cameo Grand Junction	Fruita Palisade Palisade Palisade Grand Junction	Grand Junction Fruita	Fruita Grand Junction Loma Fruita	Grand Junction Fruita	
Name of Company	Kerr Coal Co. Ballard Gearlart Garfield Coal Co. Palisade Clean Heat Coal Co Martin Coal Co.	Clarke Coal Co. Stove Canon Coal Co. Ernest Hicks. River View Coal Co. Thomas Coal Co.	Martin Korac Midwest Red Arrow Coal Co. Riverside Coal Co. M. M. Hasty Farmers Mutual Coal Co.	Williams Coal Co Mesa County Coal Co J. W. Mundell & Son Vincent Frodsham Joseph Sodja	Geo. T. Pickens. R. B. Dent Coal Gulen Coal Co. Co-operated Coal Ass'n Mike Marinelli	Clarence Allen Dale Skeels Kannah Creek Coal Ass'n	of Mines operated: 28
Name of Mine	Cameo	Winger. Stove-Canon. McGinley. River View. Thomas.	Hidden Treasure. Midwest Riverside Stokes. Farmers No. 1	Williams. Nearing. Mundell. Hunter. Peacock.	Garvy. Anchor. Coal Gulch. Bunniger. Marinelli	Jarvis Monger Forest Service	Number

MOFFAT COUNTY

1.3	1 2 10 4	
2,541 1,669 1,330 250	230 216 100 55 25	6,812
	07	15
260 245 170 150	110 40 60 21 5	146.9
Bituminous. Bituminous. Bituminous. Bituminous.	Bituminous	
Craig Axial Axial Craig	Craig Craig Hamilton Craig	
Knez Coal Co Phelan & Shaver Lee H. Pattison Community Coal Co	Lee Sparks. Wilson & Volshin. E. E. Whitlock. L. A. Fields. L. R. White.	Number of Mines operated: 10
Knez	Baker Walker Castor Guleh Pields	Number

MONTEZUMA COUNTY

2,014 1,203 1,077 844	630 169 110 54	7,436
94848		26
197 174 153 201	121 95 45 71	155.8
Bituminous. Bituminous. Bituminous. Bituminous.	Bituminous Bituminous. Bituminous Bituminous	
Mancos Cortez Mancos Mancos Dolores	Cortez Mancos Mancos Lebanon	
Mancos Coal Co- Ernest B. Black Willden Coal Co- Hill Top Coal Co- Dominik Gorbella	A. F. Hopper. H. A. Alnsworth. Geo, S. Spencer. Geo, A. Greenwood	Vumber of Mines operated: 9
Mancos	Cortez Pinos Altos Spencer Sunnyside	Number

MONTROSE COUNTY

	2
	1,639 41.7 2338 1882 488 2,524
	20224
	272 202 79 50 50 40 40
7 7	Bituminous. Bituminous. Bituminous. Bituminous.
THE STANFACTOR	Nucla Redvale Nucla Nucla Nucla
717	King & Mitchell Arthur Rice Sunshine Coal Co. Wm. J. Oberding Michael Babel
	Liberty Bell Rice Sunshine Independence Ute

TABLE NO. 4—Continued OURAY COUNTY

Capacity of Mine Per Day, Tons			i		255 20 20 20	111
Total Num- ber of Tons Produced	462 350 100 1,00 1,012		1,373		2,476 1,228 1,168 1,168 646	310
Average No. of Men Employed	H 60 H H 10		20 20		ଅଧାନାନୀ	1.29
Number of Days Worked	100 90 75 75 86		201		2123 223 223 233 233 233 233 233 233 233	110
Character of Coal	Bituminous Bituminous Bituminous	. X	Bituminous	NTY	Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous
Mine Postoffice	Ridgway. Ridgway. Montrose. Ridgway.	PITKIN COUNTY	Carbondale	RIO BLANCO COUNTY	Meeker Meeker Meeker Meeker Meeker	Rio Blanco Meeker
Name of Company	S. J. Boasley E. Slagle Claude Johnson Lowery & Spence		Placita Coal Mining Co.	RI	C. F. Pollard Electric Goal Go. R. G. Rehnau G. G. G. Hart & Son Thomas D. Foreman	Ivor Adair John Williams
Name of Mine	Kennedy Bright Diamonds Burro Creek. Columbine.		Placita		New Pollard Pollard Reinau Johnny Boy Nine Mile.	Rio BlancoRuckman

RIO BLANCO COUNTY—Continued

Number of Mines operated; 11	Fairfield Rector Douglass Creek Coats	I. F. Reinau Rosa Rector Jones & Trachta Milo Coats	Meeker. Meeker. Rangely. Meeker	Bituminous Bituminous Bituminous Bituminous	125 54 30 60		215 111 51 30	29
					168.5	200	7,219	

ROUT'T COUNTY

1,500 1,500 1,500 1,000	1,000 1,000 35 70 50	50 20 15	15 15 10 10		10	
168,982 159,026 120,372 120,474 120,429	71,471 67,099 8,525 8,188 7,200	2,496 1,393 1,004 1,009	000 4 500 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	18008 1800 1800 1800 1900	20	802,762
149 226 161 150 61	1801 183 183 183	# 52 51 51 53	\$1 \$0 \$1 \$1	июинн	-	988
118.6 172 95.4 164.2 80.1	151 140.2 276 184	1110 1148 171 154 200	64 111 110 66 57	23 60 15 15 15 15	22	1357 27.
Bituminous	Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous Bituminous	Bituminous	Bituminous Bituminous Bituminous Bituminous.	Bituminous Bituminous Bituminous Bituminous	Bituminous	
Mt. Harris. Oak Creek. Haybro. Oak Creek.	Bear River Routt Bear River McGregor Oak Creek	Phippsburg Hayden Bear River Hayden Oak Creek	Bear River Steamboat Springs Oak Creek Milner Oak Creek	Steambout Springs Bear River Doep Greek Pagoda Hayden	Oak Creek	
Colorado & Utah Coal Co	Bear River Coal Co	Routt County Mining Co. Babson Coal Co. Black Cat Coal Co. Hayden Valley Mutual Coal Co. W. L. Jones	John Ritchneg John Pollo, Jr. Geo, Steel Frunk & Micheletti	E. H. Zimmerman R. C. Jones Coal Co. Deep Creek Coal Co. J. E. Webber K. Webberkirch.	Tom Chergo	Number of Mines operated: 26
Harris No. 1 Moffat Nos. 1 and 2 Hayden No. 3 Pinnaele	Bear River Keystone Butcher Knife. McNeil. Argo Gulch	Seven Points Babson Black Cat Hayden Valley Blue Spruce	Little Pinnacle (Ritchneg) Morgan Apex Premium Edna	Block Jones. Deep Creek Webber Fish Creek	Chergo	Number

TABLE NO. 4—Continued SAN MIGUEL COUNTY

Capacity of Mine Per Day, Tons	10		1,800 1,000 2,000 1,200 1,300	1,000 2,000 800 1,000 600	600 20 25	15
Total Num- and Total And besuced	732 274 182 233 1,421		260,960 99,378 203,323 157,939 141,054	129,287 83,438 100,408 79,515 66,807	56,978 14,690 3,349 2,648 2,216	1,911
Average Average	01 1 2 6	ļ	265 123 134 135 144	133 118 118 84 61	35 35 6 15	es 6
Number of Days Worked	100 150 70 1.50		171.7 151 144.5 202 141.6	180 96 198.9 154	71.5 317 266.5	180
Character of Coal	Bituminous Bituminous Bituminous 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	Norwood Norwood Norwood Norwood	WELD COUNTY	Serene Frederick Erie Erie	Brie Erie Dacono Dacono Frederick	Brie. Frederick La Salle La Salle Lafayette.	La SalleFt. Lupton
Name of Company	Keck Coal Co. L. J. Gray. Gene Elder. W. H. Knowlton. of Mines operated: 4		Rocky Mountain Fuel Co- Rocky Mountain Fuel Co- Boulder Vailey Coal Co- Imperial Coal Co- National Fuel Co-	Clayton Coal Co. Clayton Coal Co. Consolidated Coal & Coke Co. McNeil Coal Corp. W. E. Russell Coal Co.	Shamrock Coal Co. Evans Coal M. Co. Bohlender Coal Co. La Salle Coal Co. J. J. Flynn, Trustee.	Buddy Coal CoR. E. Combs
Name of Mine	Keck. Gray. Elder O. K. Number		Columbine. Grant. Boulder Valley Imperial	Clayton Morrison Baum Sterling Russell	Shamrock. Evans (Liley) Bohlender La Salle Monroe.	Buddy

WELLO COUNTY-Continued

Graden White Ash Keota	Graham & McFadden White Ash Coal Co. Keota Coal Co.	Longmont La Salle. Keota	Sub-bituminous Sub-bituminous	75 151 120	P-6712	1,273 742 370	40
Comet	Bracken & Mathews Galeton Coal Co	Galeton Galeton	Sub-bituminous Sub-bituminous	30	०० च	244	4
Number	Number of Mines operated: 22.			155.6	1,495	1,408,528	

STATE OF COLORADO

GRAND TOTAL—	Number of Mines Operated	Number of Man-Days Worked	Average Number of Men Employed in or About Mines,	Total Tons of Coal Produced

367 168.3 8.401 5,948,661

PRODUCTION BY COUNTIES BY MONTHS—1935

Month	Arch- uleta	Boulder	Delta	Elbert	El Paso	Fremont	Garfield
January		63,688	5,593	606	36,662	52,195	3,670
February		52,583	4,563	409	31,754	35,774	3,044
March		42,722	3,623	404	27,864	32,311	2,986
April		32,980	2,690	287	25,787	18,549	2,491
May		32,704	2,952	174	22,194	22,864	2,708
June		17,794	482	635	12,281	14,720	1,828
July		13,657	2,355	57	11,655	11,203	1,092
August		19,307	2,521	70	12,664	23,616	1,627
September		34.826	4.912	314	21,152	35,303	3.274
October		65,572	7,776	763	26,544	63,394	4.251
November		59,165	8,385	977	30,636	55,177	4,632
December	820	62,788	7,597	2,633	35,437	56,058	6,336
Total	820	497,786	53,449	7,329	294,630	421,164	37,939

Month	Gunnison	Huerfano	Jackson	Jefferson	La Plata	Larimer
January	47,161	66,789	2,747	14,382	3,587	508
February	34,736	41,412	2,040	12,468	2,066	399
March	29,157	58,480	1,619	11.894	1,984	338
April	26,257	36,876	2,132	10,001	1,762	232
May	19,227	38,703	2,267	11,023	1,855	67
June	31,100	50,327	616	11,314	1,291	10
July	45,222	45,316	499	7.744	1,230	
August		50,212	904	8.161	1,350	
September	41,921	49,216	2,346	9,921	2,424	213
October	66,950	87.158	2,899	13,166	3,696	244
November	64,742	81,763	3,262	12,039	4,423	362
December	44,578	71,165	2,688	14,209	5,956	1,223
Total	491,926	677,417	24.019	136,322	31,624	3,596

Month	Las Animas	Mesa	Moffat	Monte- zuma	Mont- rose	Ouray
January	85,143	8,222	406	926	320	
February	71,720	5,844	232	558	118	
March	88,057	5,633	277	578	423	
April	45,685	4,150	231	448	128	
May	66,803	3,048	311	348	84	
June	74,447	3,434	238	275	83	
July	71,706	4,875	134	138	54	
August	74,372	2,668	464	129	88	
September	66,824	5,056	603	492	191	
October	114,278	9,142	1,145	934	257	
November	102,841	9,213	870	1,325	342	
December	96,662	11,730	1,901	1,325	436	1,012
Total	958,538	73,015	6,812	7,436	2,524	1,012

Month	Pitkin	Rio Blanco	Routt	San Miguel	Weld	Total
January February March April May June July August September October November December	170 130 78 61 50 49 47 104 109 130 259 186	827 788 798 457 268 232 180 235 489 769 798	78,660 43,670 38,592 26,422 30,952 36,778 22,693 86,448 72,438 130,752 124,034 111,323	1,421	182,174 155,112 133,631 94,570 80,442 50,084 29,134 57,291 111,944 160,544 170,040 183,562	654,436 499,420 481,449 332,196 339,044 308,018 268,991 383,106 463,968 760,364 735,245 722,424
Total	1,373	7,219	802,762	1,421	1,408,528	5,948,661

SHOWING INCREASE AND DECREASE BY COUNTIES 1934-1935

Counties	1934	1935	Increase	Decrease
Adams	421			42
Archuleta	917	820		9
Boulder	462,614	497,786	35,172	
Delta	38,673	53,449	14,776	
Elbert	5,997	7,329	1,332	
El Paso	293,262	294,630	1,368	
Fremont	363,803	421,164	57,361	
Garfield	27,882	37,939	10,057	
Gunnison	447,971	491,926	43,955	
Huerfano	607,624	677,417	69,793	
Jackson	24,658	24,019		6
Jefferson	136,808	136,322		4
La Plata	23,638	31,624	7,986	
Larimer	3,701	3,596		1
Las Animas	863,472	958,538	95,066	
Mesa	62,117	73,015	10,898	
Moffat	3,322	6,812	3,490	
Montezuma	7,447	7,436		:
Montrose	1,444	2,524	1,080	
Ouray	796	1,012	216	
Pitkin	1,093	1,373	280	
Rio Blanco	5,914	7,219	1,305	
Routt	491,881	802,762	310,881	
San Miguel	1,378	1,421	43	
Weld	1,374,170	1,408,528	34,358	
Total	5,251,003	5,948,661		
ncrease for 1935			697,658	

SHOWING BY COUNTIES PRODUCTION OF 1935 IN PREPARED SIZES

Counties	Mine Run	Lump	Nut	Pea	Slack	Total Tons
Archuleta	820					820
Boulder	29,154	99,419	59,312	54,014	255,887	497,786
Delta	3,242	21,851	13,604	1,232	13,520	53,449
Elbert	3,603	2,841	75		810	7,329
El Paso	36,766	48,651	64,168	25,348	119,697	294,630
Fremont	90,218	155,386	65,150	30,774	79,636	421,164
Garfield	20,457	4,803	3,940	499	8,240	37,939
Gunnison	173,106	87,256	21,687	59,070	150,807	491,926
Huerfano	118,442	141,474	74,432	247,906	95,163	677,417
Jackson	4,371	10,014	5,686		3,948	24,019
Jefferson	1,198	40,993	10,383	6,763	76,985	136,322
La Plata	14,686	6,669	2,624	1,352	6,293	31,624
Larimer	893	1,785	325	79	514	3,596
Las Animas	428,839	35,753	32,322	383,265	78,359	958,538
Mesa	34,558	18,782	7,148	2,892	9,635	73,015
Moffat	1,857	3,575	1,222	91	67	6,812
Montezuma	5,199	1,282	743	79	133	7,436
Montrose	1,825	392	162		145	2,524
Ouray	1,012					1,012
Pitkin	1,127					1,127
Rio Blanco	2,704	2,354	1,582	19	560	7,219
Routt	45,105	319,790	123,835	59,880	254,152	802,762
San Miguel	1,081	186	125		29	1,421
Weld	26,382	512,366	138,081	112,148	619,551	1,408,528
Total	1,046,645	1,515,622	626,606	985,411	1,774,377	5,948,661

Note: In the Slack, some mines include Pea and others Nut and Pea coal. The Egg and Grate coal are included in the Nut coal. (The Egg and Grate coal reported are from Boulder, Las Animas, Routt and Weld counties.)

COKE PRODUCED IN 1935 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	88	49,209	Las Animas	88	49,209
Colorado Fuel and Iron Co. Total	91	206,901 256,110	Pueblo	91	206,901 256,110

Remarks:

Average	number	of	days	worked				308	
Average	number	of	men	employed at	the	coke	ovens	51	
Number	of tons	οf	coal	nade into col	ke			427.001	

COAL PRODUCTION IN COLORADO FROM 1873 TO 1935, 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	200,630	1910	12,104,887
1879	322,732	1911	10,197,595
1880	375,000	1912	11,016,948
1881	706,744	1913	9,268,939
1882		1914	8,201,423
1883		1915	8,715,397
1884		1916	10,522,185
1885	_,	1917	12,515,305
1886	 _,,	1918	12,658,055
1887	-,	1919	10,406,543
1888	-,,	1920	12.514.693
1889		1921	9,141,947
1890		1922	10,003,610
1891	 	1923	10,336,735
1892	, ,	1924	10,501,088
1893		1925	10,440,387
1894	 	1926	10.616.760
1895	 	1927	9,781,580
1896	 3,371,633	1928	9,921,585
1897	 3,565,660	1929	9.934,064
1898	 4.174.037	1930	8,238,094
1899	 4.826,939	1931	6.604,063
1900	 5,495,734	1932	6,616,525
1901	 6,021,405	1933	5,284,872
1902	 7,522,923	1934	5,251,003
1903	 7,775,302	1935	5,948,661
1904	 6,776,551		

BEAR CANON NO. 6 MINE EXPLOSION—JULY 9, 1935

This explosion in which four men lost their lives was reported by the Bear Canon Coal Company on the above date at 4:30 P. M. This message was relayed to the United States Bureau of Mines, Denver headquarters, and Mr. E. H. Denny, engineer in charge, assembled rescue equipment and together with Mr. Howard Bird, first aid miner, left by truck for the scene of the explosion.

Governor Johnson placed a National Guard airplane at the disposal of the department and I left the Denver flying field at 6:15 P. M., arriving at the old airport near Ludlow at 7:45 P. M. A little time was lost here, as arrangements were made to have an automobile at the airport in Trinidad, but Major Stone, the aviator, landed at this abandoned field as it was much closer to the mine.

I arrived at the mine at 8:45 P. M. and found the rescue work in progress and in charge of Deputy Inspector W. M. Laurie. Three bodies had been recovered on the main entry about 1,100 feet from the portal. These men apparently were all coming out of the mine on the storage battery locomotive near which they were found. Advance work was held up until a temporary overcast could be built at the eleventh east junction to carry the ventilation of all the east workings directly into the return.

On the morning of July 10th, accompanied by Mr. Denny, Mr. Bird and helpers, we reached a point near the twentieth and twenty-first parting, about 4,200 feet from the portal. A new crew, under Deputy Inspector Hugo H. Machin, came in about 6:00 P. M. and carried on the recovery work and found the body of James MacKeown near the face of the twenty-first west entry. This was the last body and it was found at 2:45 A. M. on July 11.

The investigation revealed that the fan motor was disabled by lightning for a period of about thirty minutes, from 2:45 to 3:15 P. M. The fan was started up and the power turned into the mine. Thirty or forty minutes after the power was turned on, the explosion occurred. This was around 3:45 or 3:55 P. M., which was about the quitting time for the inside workers.

James MacKeown, who lost his life in the explosion, was mine foreman and did the shot firing. He arranged to start blasting after the men had time to get out of the mine. Apparently those men, other than James MacKeown, who lost their lives, were on their way out of the mine when the explosion occurred and had been delayed in starting, as the examination showed that MacKeown had fired the shots in the twentieth and twenty-first west entries. However, there was no indication of damage from these shots.

The force of the explosion appeared to radiate from the twenty-first east (this is the last entry turned off from the main and about 4,200 feet from the portal), where a mining machine was completely buried under a very heavy and long rock fall. This machine has not been recovered so it is not possible to state what happened to it. The violence of the explosion passed throughout the mine, decreasing along the main entries where they were rock dusted.

From the examination of the mine after the explosion and evidence submitted at the inquest it would appear that the stoppage of the fan caused by the lightning, stopped the circulation of the air current, thus increasing the explosive gas percentage in the mine workings. This also caused dust created by the machine cuttings to remain suspended at or near the faces. Ignition may have been caused from the fuse igniters used to fire shots, but the violence radiating from the machine location would indicate that a short on the machine or cable started the explosion.

The Bear Canon mine produces a bituminous coal of a coking quality. The mine is gaseous, generally dry, but rock dusting had been done on the main lines before the explosion, but it was not carried up to the working faces. No sprinkling or watering was practiced. Coal cutting was done dry. Shots were fired by fuse igniters. Only permissible electric lamps and flame safety lamps were used. Work was very irregular due to the small demand for coal of any kind.

- RECOMMENDED: (1) That the mine be thoroughly rock dusted.
 - (2) That all shots be fired with an electric battery.
 - (3) That shotfiring shall not start until after all employees excepting the shotfirers are out of the mine.

Respectfully yours,

(Signed) THOMAS ALLEN, State Inspector of Coal Mines.

BRIEF DESCRIPTION OF FATAL ACCIDENTS WHICH OCCURRED IN THE COAL MINES OF COLORADO DURING THE CALENDAR YEAR 1935

January 10—PAUL KOPACZ, Polish, company man, experience 28 years, age 52 years, married, six children, employed by the Colorado Fuel & Iron Co., at the Rockvale No. 3 mine, Fremont county, was killed by an explosion of dynamite. Deceased was assisting the shotfirer in brushing the top of the main parting of the north entry. One foot brushing was being taken down. It is a hard sand rock top and had to be drilled and shot. Eleven holes had been drilled, charged and shot. All had fired according to the statement of the shotfirer. Kopacz was then left alone to clean up the rock that had been down. The shotfirer had been gone about an hour and returned to the main slope, about 300 feet from the north entry, when he heard a shot. When he reached the parting, he met two machine men coming out of the tenth north who told him that Kopacz was lying on the track with both legs shot off. They had been about 50 feet from the place of accident but had not noticed him until after the flash and noise from the blast. There was a hole in the roadbed of the loaded track about eight inches deep and a foot in diameter. Deceased must have been directly over the charge. There is not sufficient evidence to place any responsibility and it is not known how or why any powder should be at this point as all holes had been drilled and fired. RECOM-MENDED: That all powder taken into the mine for company use be kept in a closed and locked box so that only those lawfully qualified to handle it will have access to it.

February 18—WILLIAM BALDWIN, American, machine helper, experience 20 years, age 34 years, married, five children, employed by the Louisville-Lafayette Coal Co., at the Hi-Way mine, Boulder county and his partner;

February 18—MORTON LYONS, American, machine man, experience 30 years, age 44 years, married, two children, were both fatally injured in a cage while it was being hoisted out of the mine by a sheave wheel falling down the shaft and on the top of the cage. The sheave wheel had been making a thumping noise for several days and was ordered repaired. On the afternoon of February 18, the blacksmith and engineer went to work on this sheave wheel. They had taken the upper part of the boxing off and found that the key which holds wheel to axle was loose, and had some trouble in getting the wheel around so they could get at the key. While doing this work the two deceased signaled to be hoisted. The engineer asked the blacksmith if it would be safe to raise the men with the boxing off, to which he replied it would be. When the cage had been raised ten or twelve feet from the bottom of shaft, the sheave wheel, which weighs approximately 1,500 pounds, fell from the open boxings, dropped down the shaft and crashed through the cage, killing Morton Lyons instantly and injuring William Baldwin so severely that he died on the 21st. This accident could have been avoided had the boxing been replaced before attempting to move the cage or had the west cage been used to hoist the men. The deceased came to their death through no fault of their own and the company is therefore held responsible for this accident.

March 6—JOHN PENCA, Austrian, timberman, experience 25 years, age 45 years, married, two children, employed by the Leyden Lignite Co., at the Leyden No. 3 mine, Jefferson county, was injured by a fall of roof on the fifth of March and died on the above date. Deceased and his partner were preparing to remove a fall of rock in an entry and while in the act of taking down some loose rock, a piece from the roof fell on him, causing such injuries that he died the following day. Deceased was a competent and practical workman. Neither he or the management can be charged with any responsibility for the accident. It was due to the hazard of the occupation and is classed as unavoidable.

March 8—CARLOS CARIA, Spanish-American, pick miner, experience 15 years, age 35 years, married, five children, employed by the City Coal Mines at the City mine, El Paso county, was killed by a fall of rock. Deceased and his partner were working a panel off some pillar workings. The roof here is very uncertain and to make it safer it was decided to set another prop as the face was about four or four and one-half feet from the last prop. While kneeling down preparing a place on the bottom to set a prop and cap, a rock fell from between two damp slips, which were invisible, until exposed by the fall. Before starting to work they had sounded the roof and it seemed solid. The accident was unforeseen and is classed as unavoidable.

March 9—WM. M. JONES, American, driver, experience 22 years, age 40 years, married, one child, employed by David Allan at the Crown mine, Boulder county, was injured by being crushed between a car and brushing on March 29, 1934, and died almost one year afterwards, on the above date. The accident was caused by his passing through a canvas and losing his balance, stepped off or fell in front of a car, receiving such injuries that he did not recover. Owing to the difference in statements it is not possible at this late date to place the responsibility for the accident. One witness stated that the clearance between the flare of the car and the brushing was not sufficient for safety, and the other statement is to the effect that deceased in passing through the canvas lost his cap and lamp. If the former statement is true then the management is responsible; if the latter, then the accident was unavoidable.

March 26—JAMES FIORI, Italian-American, shop man, experience 19 years, age 65 years, married, five children, employed by the Consolidated Coal & Coke Co. at the Baum mine, Weld county, was injured on March 20 by being jammed between railroad car and leg frame of pea coal bin and died on above date. Fiori was picking up coal, filling a small bucket to take into the shop. He

was between the outside rail of the railroad track and the leg frames of the pea coal bin. The outside foreman let down an empty open railroad car from the storage tracks, proposing to set the car under the tipple for loading. He was riding the rear end. He could not see Fiori until the car passed the point of accident. He then saw Fiori partly supporting himself by one hand on a leg of the underframe about ten feet down the track from the point of accident. Fiori told the foreman that he had been squeezed between the railroad car and coal bin. The area is all open and why deceased did not see the car coming or hear it is not known, as the car was coming slowly under the brakes set and there is no doubt that the car was making some noise with the brakes being applied. The accident is classed as a misadventure for which no one could be held responsible.

April 8—JOE TOTH, Hungarian, machine miner, experience 1½ years, age 41 years, single, employed by the Clayton Coal Co. at the Clayton mine, Weld county, was killed by a fall of rock. The accident occurred in a barrier pillar. The mine foreman had visited the place 35 minutes prior to the accident. Deceased was loading coal on the rear end of car which was on the track running parallel with the pillar being extracted. Timbers were set 3½ feet apart on each side of track and 2½ feet from the rail. A piece of rock feel from between the props on the left-hand side of the track, squeezing Toth against the car, crushing his abdomen so severely that he died. The place was well timbered and in a good workmanlike manner. The accident is classed as inherent to the danger of the work for which no one could be held responsible.

May 8—LAWRENCE SHAW, American, rope rider, experience 14 years, age 37 years, married, no children, employed by the Colorado Fuel & Iron Company at the Robinson No. 4 mine, Huerfano county, died from overexertion in polluted air. The head frame of the Glove shaft, one of the intakes for the air current of the mine took fire, puffing out a body of smoke polluting the air. Men were working in the affected district and the mine officials organized a crew of willing workers to assist in the withdrawal of all men. Deceased was directing the withdrawal through the polluted zone of 600 feet and made about fourteen trips when he collapsed and did not revive. The fire was a mishap for which no one could be held responsible.

June 14—EDWARD CASSAI, American, pick miner, experience 11 years, age 34 years, single, employed by the Peachey Coal Company at the Ojo Canon mine, Huerfano county, was killed by a fall of rock. The accident occurred at the face of a room, the mine foreman had visited the place 30 minutes prior to the accident and sounded the roof, examined it for slips and found props well set and so far as he observed the place was safe. Deceased was shoveling coal at the face of the room when a large piece of rock fell on him, killing him instantly. The rock gave way from an invisible slip, too thick to detect by sounding any looseness. The

place being well timbered and the danger apparently unforeseen, the accident is classed as unavoidable.

July 9—JAMES McKEOWN, Scotch, mine superintendent, experience not given, age 60 years, married, no children;

July 9—JOE MEDINA, American, motor man, experience not given, age 38 years, widower, five children;

July 9—LEO MARTINEZ, American, machine runner, experience not given, age 27 years, married, three children; and

July 9—CHARLES SMITH, American (colored), machine helper, experience not given, age 38 years, married, no children; all employed by the Bear Canon Coal Company at the Bear Canon No. 6 mine, Las Animas county, were killed by a mine explosion. A bolt of lightning struck the motor operating the ventilating fan, putting it out of commission, cutting both the ventilation and electricity off the mine for a period of thirty minutes. This stoppage may have caused an accumulation of explosive gas and when the electricity was turned on again into the mine, a short circuit on some of the wire systems probably ignited this mixture, causing the explosion. RECOMMENDED: (1) That the mine be cleaned up and thoroughly rock-dusted; (2) That all shots be fired by an electric battery; (3) That shotfiring shall not start until after all employees excepting the shotfirers are out of the mine.

July 20—JAY M. HODGES, American, top laborer, experience 4½ years, age 49 years, married, eight children, employed by the Leyden Lignite Company at the Leyden No. 3 mine, Jefferson county, was killed by falling off an open car. Deceased was arranging the coal on the car when he lost his balance and fell over the edge, a distance of 10 feet, fracturing the third and fourth vertebra and fracturing the 1, 3, 4 and 5 ribs on the right side, which resulted in his death ten and one-half hours after the accident. The accident was a misadventure for which no one could be held responsible.

August 12—JOHN BARTOLO, American, machine miner, experience 4 years, age 21 years, married, no children, employed by the Victor-American Fuel Co. at the Delagua mine, Las Animas county, was instantly killed by a fall of rock. Deceased and partner had set up timbers at the neck of a room and then tested the roof and considered it safe. While loading their fourth car, a rock 8x5x2 gave way from a slip. Owing to the dimensions of the slip it had been difficult to determine whether the rock was loose or not. The mine foreman had visited the place an hour before the accident. It is classed as unforeseen and unavoidable.

August 15—GEORGE A. BARTON, American, machine man. experience 10 years, age 48 years, single, employed by the Pikes Peak Fuel Co. at the Pikeview mine, El Paso county, was injured while handling a loading machine. His ring finger was crushed. After the first joint was amputated it was discovered that he was

suffering from diabetes and consequently developed diabetic gangrene from the effects of which he died. Owing to the fact that his death resulted from a coal mine injury it is charged to the industry.

August 24—CLYDE SCRUGGS. American, pick miner, experience 16 years, age 29 years, married, five children, was operating the Prospect mine in Las Animas county under a lease, was killed by a fall of rock. The day of the accident deceased and his partner entered the mine and went to their working place, but before starting to work sat down at the inby end of a chain pillar, the partner then went to the skip to get an ax when the rock gave way and killed Scruggs instantly. When the roof was examined it was discovered that several slips were running across at different angles, causing a dangerous condition. It is not known whether the roof had been tested before starting work. The accident is classed as unforeseen and unavoidable. RECOMMENDED: That all working places in this district be cross-barred.

August 26—JOHN BORTMAN, American, machine loader, experience 42 years, age 55 years, married, three children, employed by the Colorado Fuel & Iron Co. at the Robinson No. 4 mine. Huerfano county, was killed by a fall of rock. Deceased and his partner were making a hitch to secure a cross bar in the left-hand rib of a cross cut when a large rock fell from an invisible slip off at face of coal. There is a drawslate over the coal in this district and it is taken down in the rooms, but left in the cross cuts with an average thickness of eight inches to one foot and has a tendency to cover slips from being visible and is therefore dangerous. The accident was unforeseen and classed as unavoidable. Mine foreman visited the place five hours prior to the accident. RECOMMENDED: That all cross cuts be cross barred or the drawslate be taken down.

August 29—JOHN GIORZELLI, Italian, machine miner, experience 30 years, age 48 years, single, employed by the Louisville-Lafayette Coal Co. at the Hi-Way mine, Boulder county, was killed by a fall of rock. The mine foreman had visited the place of accident an hour before it occurred and found the place in a workman-like condition. There were three temporary props across the face and one supporting the rock that fell. Deceased and his partner were preparing their hitch holes for the cross bars when the rock fell. The accident was unforeseen and is classed as unavoidable.

October 10—UMBERTO TONNELLI, Italian, machine miner, experience 25 years, age 58 years, married, one child, employed by the W. A. Ream Coal Co. at the Spanish Peak No. 2 mine, Huerfano county, was injured by a fall of rock on the ninth and died on the following day. Deceased and his partner were preparing to machine cut their working place. The timbers were set to within 7 feet of the face. The partner was drilling a hole in the face and deceased was cleaning up loose coal when a large slab of rock snapped from the roof between the timber and the face and struck with fatal results and injuring deceased's partner. The roof had

been tested by both workers and the assistant mine foreman a short time before the accident and found solid. Deceased was considered a good workman and the accident is classed as unforeseen and unavoidable.

October 12—KENNETH McFEE, American, trapper, experience 2 years, age 20 years, employed by the Boulder Valley Coal Co. at the Boulder Valley mine, Weld county, was run over by a motor and so seriously injured that he died a few hours later. Deceased was riding on front end of motor attached to a ten-car man-trip. The motor slowed down as it reached the point where the men got off but deceased stepped off while the trip was still moving and in some way fell in front of it and was caught and dragged a distance. The nipper was riding with him and tried to pull him away from the motor but failed. The superintendent stated that he frequently gave orders to allow no one to ride on the front end of motor except the one assigned to it. The order in this case was disregarded. Accident would have been avoided had the orders been obeyed or had deceased waited until the motor stopped.

November 7—LEE WALLACE, American, outside laborer, experience 2 years, age 24 years, married, no children, employed by the Hayden Coal Co. at Hayden No. 3 mine, Routt county, was killed by being struck by a tram bucket. He was operating an aerial tram, hauling rock from the tipple. Apparently he had just sent out a loaded bucket, before it had gone far the clamps which fasten the rope to the bucket gave way and it moved back, striking deceased so severely that he died a few hours later. There were no eyewitnesses to the accident, therefore, it is difficult to say how it happened. He may have stepped away from the controller and his back turned to the descending bucket and he was unaware of its return as he was struck in the back and the controller was on in full force after the accident. The responsibility may be charged to negligence of deceased in leaving the controller and partly to the management in not properly inspecting their machinery.

November 13—WARREN E. BANKS, American, assistant mine foreman, experience 45 years, age 62 years, married, no children, employed by the Colorado Fuel & Iron Co. at the Frederick mine, Las Animas county, was injured on November 7th by a fall of rock and died on above date. Deceased was making his second round examining the working faces when he reached a chain pillar where a miner was working; he tested a small stab of draw-state between timbers close to the face. According to evidence, he was preparing to take it down when it suddenly gave way and fell on him, injuring him so severly as to cause his death. The place was well timbered, about three feet apart. Deceased was a good workman and very careful in timbering the places in his district. The accident was unforeseen and no one can be held responsible for it.

December 13—ALBERTO CONTONI, American, pick miner, experience 20 years, age 41 years, married, no children, employed

by the Colorado Fuel & Iron Company at the Cameron (Robinson No. 4) mine, Huerfano county, was injured by a fall of rock on November 8th and died on the above date. He and his partner had loaded one car which made space for another prop which was to be set close to the face. While digging a hole to set the foot of the prop, a rock gave way from the face, striking deceased on his head, causing injuries which caused his death. The place was well timbered and the accident is classed as unforeseen and a mine hazard.

December 16—ALEX BACA, American, driver, experience 28 years, age 50 years, married, four children, employed by the Clayton Coal Company at the Clayton mine, Weld county, was killed by falling under a car which he was driving. There were no eye witnesses to the accident and the track was in good order. No holes between ties and sufficient clearance between rib and cars. The accident was a misadventure for which no cause can be given.

SUCCESSFUL CANDIDATES IN THE EXAMINATION FOR MINE OFFICIALS, 1935.

MINE FOREMAN

	Lefevotto
Alexander D. Burton	
Jack W. Allen	Denver, 720 So. Gaylord St.
	_Colorado Springs, 316 N. 25th St.
L. E. Battiste	_Farr
R. J. Benton	_Canon City, 431 Myrtle St.
Hayden Bodycomb	
Steve Bokan	
Trevor Canton	
Douglas C. Clark	_Oak Creek
Collister, F. C	_Delagua
Stewart Conners	_ Γrinidad, 117 State St.
Chas. Lerov Conway	_Lafayette, Box 145
Kelly Costa	
Christ Cunico	
Robt. Dalrymple	
Steve Despod	_Mt. Harris
Thos. Dodds	
Geo. Eadie	_Walsenburg, Box 83
Vinton Edwards	Chandler
Jas. A. Farris	
Roy Freeman	
Louis Gaspar	
Edgar W. Gibboney	
Jas. Gilmour	
Glen H. Godfrey	_Florence, R. D. No. 1
Jas. W. Graham	Lafavette, Box 372
Jno. W. Harmon	Steamhoat Springs
Frank W. Harris	
Mark Harrison	
Jas. W. Hay	
Jas. Roy Holt	_Haybro
Alex Jacobs	_Trinidad, 900 Oak St.
Robt. Johnson	
Edward Kitto	
Levi Knox	
Carl Kusick	_Dacono
Raymond Lee	_Colorado Springs, 804 E. Fontanero St.
Bob Llewellyn	_Trinidad, 1516 Garfield St.
Bob Llewellyn	_Trinidad, 1516 Garfield St.
Bob Llewellyn Joe Marley	_Trinidad, 1516 Garfield St. _Bayfield
Bob Llewellyn Joe Marley Jno. Mathews	_Trinidad, 1516 Garfield St. _Bayfield _Oak Creek
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero	Trinidad, 1516 Garfield St. Bayfield Oak Creek Delagua, Box 343
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan	Trinidad, 1516 Garfield St. _Bayfield _Oak Creek _Delagua, Box 343 _Superior
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell	Trinidad, 1516 Garfield St. _Bayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch	Trinidad, 1516 Garfield St. _Bayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C, Philp	Trinidad, 1516 Garfield St. _Bayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _Erie, % Clayton Mine
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch	Trinidad, 1516 Garfield St. _Bayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _Erie, % Clayton Mine
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich	Trinidad, 1516 Garfield StBayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _Erie, % Clayton Mine _Crested Butte
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund	_Trinidad, 1516 Garfield St. _Bayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _ Erie, % Clayton Mine _Crested Butte _Boulder, 1527 5th St.
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W. H. Richards	Trinidad, 1516 Garfield StBayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _Erie, % Clayton Mine _Crested Butte _Boulder, 1527 5th StDelagua, Box 387
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W. H. Richards Emil Richter	Trinidad, 1516 Garfield StBayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _Erie, % Clayton Mine _Crested Butte _Boulder, 1527 5th StDelagua, Box 387 _Ravenwood
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W. H. Richards Emil Richter Frank E. Rocchio	_Trinidad, 1516 Garfield StBayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _Erie, % Clayton Mine _Crested Butte _Boulder, 1527 5th StDelagua, Box 387 _Ravenwood _Florence
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W. H. Richards Emil Richter Frank E. Rocchio Newton E. Rockley	Trinidad, 1516 Garfield StBayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _Erie, % Clayton Mine _Crested Butte _Boulder, 1527 5th StDelagua, Box 387 _Ravenwood _Florence _Louisville
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W, H. Richards Emil Richter Frank E. Rockley Ed C. Shipley	_Trinidad, 1516 Garfield StBayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _Erie, % Clayton Mine _Crested Butte _Boulder, 1527 5th StDelagua, Box 387 _Ravenwood _Florence _Louisville _Longmont, 543 Baker
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W. H. Richards Emil Richter Frank E. Rocchio Newton E. Rockley Ed C. Shipley Mike Skavarda	_Trinidad, 1516 Garfield StBayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _Erie, % Clayton Mine _Crested Butte _Boulder, 1527 5th StDelagua, Box 387 _Ravenwood _Florence _Louisville _Longmont, 543 Baker _Janon City, Elm and Birch
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W. H. Richards Emil Richter Frank E. Rocchio Newton E. Rockley Ed C. Shipley Mike Skavarda	_Trinidad, 1516 Garfield StBayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _Erie, % Clayton Mine _Crested Butte _Boulder, 1527 5th StDelagua, Box 387 _Ravenwood _Florence _Louisville _Longmont, 543 Baker _Janon City, Elm and Birch
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W, H. Richards Emil Richter Frank E. Rocchio Newton E. Rockley Ed C. Shipley Mike Skavarda M. J. Slate	Trinidad, 1516 Garfield StBayfieldOak CreekDelagua, Box 343SuperiorLa VetaBaldwinErie, % Clayton MineCrested ButteBoulder, 1527 5th StDelagua, Box 387RavenwoodFlorenceLouisvilleLouisvilleLongmont, 543 BakerJanon City, Elm and BirchColorado Springs
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W. H. Richards Emil Richter Frank E. Rockley Ed C. Shipley Mike Skavarda M. J. Slate Alex R. Sneddon	_Trinidad, 1516 Garfield StBayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _Erie, % Clayton Mine _Crested Butte _Boulder, 1527 5th StDelagua, Box 387 _Ravenwood _Florence _Louisville _Longmont, 543 Baker _Canon City, Elm and Birch _Colorado Springs _Jhandler, Box 444
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W. H. Richards Emil Richter Frank E. Rocchio Newton E. Rockley Ed C. Shipley Mike Skavarda M. J. Slate Alex R. Sneddon Wm. Sneddon	_Trinidad, 1516 Garfield StBayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _Erie, % Clayton Mine _Crested Butte _Boulder, 1527 5th StDelagua, Box 387 _Ravenwood _Florence _Louisville _Longmont, 543 Baker _Janon City, Elm and Birch _Colorado Springs _Jhandler, Box 444 _La Veta
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W, H. Richards Emil Richter Frank E. Rocchio Newton E. Rockley Ed C. Shipley Mike Skavarda M. J. Slate Alex R. Sneddon Wm. Sneddon John Wm. Thomas	_Trinidad, 1516 Garfield StBayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _Erie, % Clayton Mine _Crested Butte _Boulder, 1527 5th StDelagua, Box 387 _Ravenwood _Florence _Louisville _Longmont, 543 Baker _Janon City, Elm and Birch _Colorado Springs _Jhandler, Box 444 _La Veta _Louisville, Box 444 _La Veta _Louisville, Box 43
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W. H. Richards Emil Richter Frank E. Rocchio Newton E. Rockley Ed C. Shipley Mike Skavarda M. J. Slate Alex R. Sneddon Wm. Sneddon John Wm. Thomas Geo. Todd	_Trinidad, 1516 Garfield StBayfield _Oak Creek _Delagua, Box 343 _Superior _La Veta _Baldwin _Erie, % Clayton Mine _Crested Butte _Boulder, 1527 5th StDelagua, Box 387 _Ravenwood _Florence _Louisville _Longmont, 543 Baker _Janon City, Elm and Birch _Colorado Springs _Thandler, Box 444 _La Veta _Louisville, Box 43 _Coak Creek, Box 504
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W. H. Richards Emil Richter Frank E. Rocchio Newton E. Rockley Ed C. Shipley Mike Skavarda M. J. Slate Alex R. Sneddon John Wm. Thomas Geo. Todd Roy Watts	Trinidad, 1516 Garfield StBayfieldOak CreekDelagua, Box 343SuperiorLa VetaBaldwinErie, % Clayton MineCrested ButteBoulder, 1527 5th StDelagua, Box 387RavenwoodFlorenceLouisvilleLongmont, 543 BakerZanon City, Elm and BirchColorado SpringsJhandler, Box 444La VetaLouisville, Box 43Dak Creek, Box 504Oak Creek, Box 261
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W. H. Richards Emil Richter Frank E. Rocchio Newton E. Rockley Ed C. Shipley Mike Skavarda M. J. Slate Alex R. Sneddon Wm. Sneddon John Wm. Thomas Geo. Todd	Trinidad, 1516 Garfield StBayfieldOak CreekDelagua, Box 343SuperiorLa VetaBaldwinErie, % Clayton MineCrested ButteBoulder, 1527 5th StDelagua, Box 387RavenwoodFlorenceLouisvilleLongmont, 543 BakerZanon City, Elm and BirchColorado SpringsJhandler, Box 444La VetaLouisville, Box 43Dak Creek, Box 504Oak Creek, Box 261
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W. H. Richards Emil Richter Frank E. Rocchio Newton E. Rockley Ed C. Shipley Mike Skavarda M. J. Slate Alex R. Sneddon Wm. Sneddon John Wm. Thomas Geo. Todd Roy Watts Henry R. Williams	Trinidad, 1516 Garfield StBayfieldOak CreekDelagua, Box 343SuperiorLa VetaBaldwinErie, % Clayton MineCrested ButteBoulder, 1527 5th StDelagua, Box 387RavenwoodFlorenceLouisvilleLongmont, 543 BakerJanon City, Elm and BirchColorado SpringsDhandler, Box 444La VetaLouisville, Box 43Oak Creek, Box 504Oak Creek, Box 504Oak Creek, Box 261Erie
Bob Llewellyn Joe Marley Jno. Mathews Jno. Montero Ted Morgan Jas. Murrell Jos. E. Partch David C. Philp Dan R. Ratkovich Hugo Renlund W. H. Richards Emil Richter Frank E. Rocchio Newton E. Rockley Ed C. Shipley Mike Skavarda M. J. Slate Alex R. Sneddon John Wm. Thomas Geo. Todd Roy Watts	. Trinidad, 1516 Garfield St Bayfield . Oak Creek . Delagua, Box 343 . Superior . La Veta . Baldwin . Erie, % Clayton Mine . Crested Butte . Boulder, 1527 5th St Delagua, Box 387 . Ravenwood . Florence . Louisville . Longmont, 543 Baker . Janon City, Elm and Birch . Colorado Springs . Shandler, Box 444 . La Veta . Louisville, Box 43 . Oak Creek, Box 504 . Oak Creek, Box 504 . Trinidad, 421 N. Commercial St.



ASSISTANT MINE FOREMAN

Frank Ausec Wm, Cosgrove	
	Colorado Springs, Box 141, R. D. No. 1
Robt. Dirkes	
Calvin L. Pierce	Durango
Tony Scufca	Mt. Harris, Box 35
Walter Skinner	
W. C. Thomas	Cameo

SUCCESSFUL CANDIDATES IN THE EXAMINATION FOR MINE OFFICIALS, 1935—Continued.

FIRE BOSS

Jack Allen	Alma
Thos. Allen. Jr.	Colorado Springs, 308 N. Institute
Theodore Angeloff	Frederick
Abel Audin	.Somerset
Harry S. Bennett, Jr.	Colorado Springs, R. D. No. 1, Box 149 Crested Butte
Alfred E. Bensen	Crested Butte
Jno. Beres	Walsenburg
Clarence Bergerin Everette Billington	Lafavette
Chas. Lao Blair	Somerset
Chas. Lao BlairNello Bonicelli	Tioga
Angelo Joe Boscio Lee Boscia	Walsenburg
Lee Boscia	Walsenburg
Lee Boscia Wm. Brack Jno. Brelsford, Jr. Ira A. Brown Mungo C. Brown Louis Brugger Jno. R. Bujoci Gunnar S. Carlson	Erie
Ino A Prown	Eort Lunton Poy 12
Mungo C Brown	Dacono. Box 74
Louis Brugger	Lafayette
Jno. R. Bujoci	Erie
Gunnar S. Carlson	Oak Creek
Gunnar S. Carison Joe Carman Edmund P. Carter Lawrence J. Chiri	Colorado Springs, 1818 N. Webber
Edmund P. Carter	Frederick, % Grant No. 1
Bani Paul Cimina	Colorado Springe R D No 1
Jno Coan	Rear River
Benj. Paul Cimino Jno. Coan Ted Colanelli	Canon City, Elm and Locust
Anton Colnar	Del Carbon
Wm. Cominotti	Walsenburg, 234 W. 7th St.
Harris Courtier	Lafayette
Jas. Courtney	Walsenburg, 411 Rita
Wesley M. Cregger	.Cameo
Wm. DalyAlbert Daniels	Frederick Havbro
Wm Daniels	Haybro
Wm. Daniels Geo. Wm. Davies	Coal Creek
Jno. Daugherty	Haybro, Box 54
Wm. Dier	Firestone
Antonio Di Giacomo	
Frank Dowling	Bear River
Robt, D. Elwell Chester Evans	Florence 109 W 4th
Roy Evans	Coal Creek
Frank Faris	Fruita
Jas. Fenolia Paul Fickle	Louisville
Paul Fickle	Clifton
Arthur Gasperetti Jos. E. Gaymay	Ludlow
Chas P Cillegnia	Tioga Por 84
Chas. R. Gillespie	Louisville
Joe Giorzelli	Bear River
Chas. Guadagnoli John Guadagnoli Lloyd Louis Hager Paul Hahn Wm. Harris	Louisville
Chas. Guadagnoli	Trinidad, 1217 San Pedro
John Guadagnoli	Trinidad, 1217 San Pedro
Lloyd Louis Hager	Firestone
Wm Honnia	Louisvilla
Donald Haske	Walsenburg 212 E Cedar St
J. E. Hatcher	disconsulg, =1= =: Coddi Doi
	Tioga
W. H. Hathaway	Tioga Florence, 117 So. Frazier
W. H. Hathaway Maurice Haynes	Tioga Florence, 117 So. Frazier Palisade
W. H. Hathaway Maurice Haynes Elwin A. Hedden	_Tioga Florence, 117 So. Frazier Palisade Leyden
W. H. Hathaway Maurice Haynes Elwin A. Hedden W. H. Heddey	Tioga Florence, 117 So. Frazier Palisade Leyden Gunnison
W. H. Hathaway Maurice Haynes Elwin A. Hedden W. H. Hedley Elmer Hodgson	Tioga Florence, 117 So. Frazier Palisade Leyden Gunnison Longmont
W. H. Hathaway Maurice Haynes. Elwin A. Hedden W. H. Hedley. Elmer Hodgson Jos. Hollak. Jas. H. Hood Jr	Tioga Florence, 117 So. Frazier Palisade Leyden Gunnison Longmont Chandler Louisville
W. H. Hathaway Maurice Haynes Elwin A. Hedden W. H. Hedley Elmer Hodgson Jos. Hollak Jas. H. Hood, Jr. Elwood Horton	Tioga Florence, 117 So. Frazier Palisade Leyden Gunnison Longmont Chandler Louisville Bear River
Wm. Harris	Tioga Florence, 117 So. Frazier Palisade Leyden Gunnison Longmont Chandler Louisville Bear River Delagua
W. H. Hathaway Maurice Haynes Elwin A. Hedden W. H. Hedley Elmer Hodgson Jos. Hollak. Jas. H. Hood, Jr. Elwood Horton David Hughes Jesse L. Hurd	Tioga Florence, 117 So. Frazier Palisade Leyden Gunnison Longmont Condler Louisville Bear River Delagua Lafayette
W. H. Hathaway Maurice Haynes Elwin A. Hedden W. H. Hedley Elmer Hodgson Jos. Hollak Jas. H. Hood, Jr. Elwood Horton David Hughes Jesse L. Hurd Fred M. Ivey	Tioga Florence, 117 So. Frazier Palisade Leyden Gunnison Longmont Chandler Louisville Bear River Delagua Lafayette Walsenburg, 219 W. 3rd
W. H. Hathaway Maurice Haynes Elwin A. Hedden W. H. Hedley Elmer Hodgson Jos. Hollak Jas. H. Hood, Jr. Elwood Horton David Hughes Jesse L. Hurd Fred M. Ivey Albert James	Tioga Florence, 117 So. Frazier Palisade Leyden Gunnison Longmont Chandler Louisville Bear River Delagua Lafayette Walsenburg, 219 W. 3rd Lafayette, Box 423
Jesse L. Hurd Fred M. Ivey Albert James Jimmie James	Lafayette Walsenburg, 219 W. 3rd Lafayette, Box 423 Lafayette
Jesse L. Hurd Fred M. Ivey Albert James Jimmie James T. E. Jenkins	Lafayette Walsenburg, 219 W. 3rd Lafayette, Box 423 Lafayette Gunnison, Box 452
Jesse L. Hurd Fred M. Ivey Albert James Jimmie James	Lafayette Walsenburg, 219 W. 3rd Lafayette, Box 423 Lafayette Gunnison, Box 452 Louisville, Box 155 Louisville, Box 166

SUCCESSFUL CANDIDATES IN THE EXAMINATION FOR MINE OFFICIALS, 1935—Continued.

FIRE BOSS—Continued

C. R. Knapp	Colorado Springs, 221 E. Brookside
Frank Kolar, Jr.	Erie
Joe F. Krist	Walsenburg 1013 W 7th
Tony Krizmanich	Crosted Rutte
Tony Largo Jas. Lastoka	Louisville
Wm. Leslie	
Barney Lira	Larayette, Box 101
Cornelio Lucero	walsenburg
Grant McConnell	Larayette
Chas, Raymond McElhinney	Oak Creek
Andrew T. McLaughlin Jno. R. McNeil Anton V. Madonna Mitchell Mahaffey	Denver, 4459 Grove
Jno. R. McNeil	_Dacono
Anton V. Madonna	Florence, 208 W. 2nd
Mitchell Mahaffey	_Mt. Harris
Frank Malovich Richard C. Martin Jack N. Matheson Jas. Meikle, Jr. Donald Mitchell	Boncarbo
Richard C. Martin	_Palisade, Box 43
Jack N. Matheson	Frederick, % Russell Mine
Jas. Meikle, Jr	_Dacono
Donald Mitchell	_Del Carbon
E. M. MorganPaul Moschetto	_Palisade
Paul Moschetto	_Canon City, 428 River St.
Tony MoschettiJno. J. Mulvihill	_Coal Creek, Box 34
Jno. J. Mulvihill	_ Palisade
Raymond Munn	_Gorham
Raymond Munn Theodore N. Naff Wm. A. Naff Koy L. Nelson Albert W. Newcomb	Durango
Wm. A. Naff	Durango
Roy L. Nelson	Mount Harris
Albert W. Newcomb	Fort Lupton
Earl G. Octava	Erie
Lowe Octava	Erie. % Clayton Mine
Ronald C. Oliver	Somerset
Vince Oprandi	Baldwin
Jno. Palmgren	Crested Butte
Ford F Potton	Cadaradge
End E Piores	Durango 616 5th Ave
Fred D. Tierce	Frie Roy 211
Jno. Palmgren Earl E. Patton Fred E. Pierce Fred Platzek Kemp Rand Henry Ribacchi Dan Richards Jos. M. Rizzi Eugene Rosetta Jno. Rotar Nick Ruscetti Wm. F. Ryan Frank Sabatino Casto F. Schultz	Roulder
Hemp Rand	Dol Carbon
neary kioaccai	Longmont 791 Emony St
Dan Richards	Louisville Rev 622
Jos. M. Rizzi	Charted Butto
Eugene Rosetta	_Crested Dutte
Jno. Rotar	_Louisville, Box 196
Nick Ruscetti	_Trinidad, 1210 San Fedro
Pete N. Ruscetti	Trinidad, 1210 San Pedro
Wm. F. Ryan	_Alamo, Box 24
Frank Sabatino	_Brookside, Box 285
Casto F. Schultz	Somerset
Wm. Chas. Scott	_Ludlow
Harry Sherratt	Lafayette
Harry SherrattFrank Silengo	_Canon City
Cleo Smith	_Florence, 126 W. 4th
Everette R Smith	Frederick
Wilfred H. Smith	_Frederick
Wm Snoddon	La Veta
Thos. L. Somerville Jno. Stevens Tom Stevens	_Palisade, Box 15
Jno. Stevens	_Louisville
Tom Stevens	_Louisville
Chas. J. Stiers	Palisade
Lester L. Stoper	Del Carbon
Geo. Sudar	Walsenburg, 915 W. 7th
Tony E. Sudo	Rockvale
Quentin Cecil Thomas	Louisville, Box 43
Arthur F Thompson	T 211
Gerald Thorne	_Louisville Superior
Gerald Thorne	_Louisville _Superior _Coal_Creek
Gerald Thorne Verlingia, Jno.	_Louisville _Superior _Coal Creek
Gerald Thorne Verlingia, Jno. Frank J. Walker	_Louisville _Superior _Coal Creek _Florence, 617 W. 3rd _Florence, 823 W. 2nd
Gerald Thorne Verlingia, Jno. Frank J. Walker Leroy W. Walker	_Louisville _Superior _Coal Creek _Florence, 617 W. 3rd _Florence, 823 W. 2nd
Gerald Thorne Verlingia, Jno. Frank J. Walker Leroy W. Walker Robt. Wallace	Louisville Superior Coal Creek Florence, 6!7 W. 3rd Firestone Frederick R. D. No. 1
Gerald Thorne Verlingia, Jno. Frank J. Walker Leroy W. Walker Robt. Wallace Jno. Walsh	_Louisville _Superior _Coal Creek _Florence, 617 W. 3rd _Florence, 823 W. 2nd _Firestone _Frederick, R. D. No. 1
Lester L. Stoper Geo. Sudar Tony E. Sudo Quentin Cecil Thomas Arthur E. Thompson Gerald Thorne Verlingia, Jno. Frank J. Walker Leroy W. Walker Robt. Wallace Jno. Walsh Andrew Wilson	Louisville Superior Coal Creek Florence, 617 W. 3rd Florence, 823 W. 2nd Firestone Frederick, R. D. No. 1 Frederick, R. Wissell Mine
Adam Young	_Frederick, Box 93
Adam Young Joe Zabardac	_Frederick, Box 93 _Frederick
Adam Young	_Frederick, Box 93 _Frederick Rockvale











