APPENDIX' A

OPERATING COMPANIES, MINES AND QUARRIES,
AND PREPARATION PLANTS,
BY STATE, BY COUNTY, AND BY INDUSTRY

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ALABAMA

		STATE			BARBOUR			вівв			bloun t			CALHOUN	1		CHEROKE	E
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating comps- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- riss	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- retion plants
All industries, total	282	340	106	2	4	1	12	12	6	14	1.5	4	4	4	2	8	. 11	1
Bituminous coal	202 25	251 32	52 11				11	n	5	10	10 2	1 2	2	2	<u>_</u>	3 4	5 7	<u>1</u>
Bauxite	2	1	1	2	4	1												
Manganese ore	17	zi	15							2	2	1						
Limestone, rough dimension-	1	2			. =													
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Marble, crushed and broken	li	i																
Marble, rough dimension	1	1																
Miscellaneous stone, crushed and broken	1	ı	1	·		l		ــــ					·			·	'	n <u>andhana</u>
Common sand and gravel-	12	17	17 1 1										1	1	1			-
Foundry sand	3	5	<u> </u>	J												1	1	+#340°
Kaolin and ball clay	2	1 4	1							1	<u>-</u>	*****						
Common clay and shale	15	15	5 1 1										~~					
Berite	ب ا	1 1	1					1	· ====									
Native asphalt and bitumens	1 2	1 2	2					1	<u>1</u>									
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		CHILTO	N	Falls	CLARKE	1 : 5		COL BERT			ABOOD		,	RENSHAV	1		CULLMAN	l v
Industry	Oper-	Mines	7.7	Oper-	Mines	, A.A.	Oper-	Mines		Oper-	Mines	T	~~~	Mines	T	Oper-	Mines	The state of the s
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Manganese ore																		
Limestone, crushed and broken																		
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Sandatone, rough dimension— Marble, crushed and broken— Marble, rough dimension— Miscellaneous stone, crushed and broken— Common sand and gravel— Foundry sand— Kaolin and ball clay— Fire clay— Common clay and shale— Bentonite— Barite— Native asphalt and bitumens—	Operating	DALLAS Mines and quar- ries	Preparation	Operating	DE KALE	Preparation	Operating	I 2 ELMORE Mines and quar-	12	Operating compa-	Mines and quar-	Preparation	Operating	ETOWAH Mines and quar-	Preparation	Oper- ating compa-	FAYETTE	Prepa- ration
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Sandatone, rough dimension— Marble, crushed and broken— Marble, rough dimension— Miscellaneous stone, crushed and broken— Common sand and gravel— Foundry sand— Kaclin and ball clay— Fire clay— Common clay and shale— Bentonite— Barite— Native asphalt and bitumens— INDUSTRY Bituminous coal— Iron ore—	Operating companies	DALLAS Mines and quar- ries	Preparation plants	1 Operating companies	I I I I I I I I I I I I I I I I I I I	Preparation	Operating companies	ELMORE Mines and quarries 5	1 2 Preparation plants	Operating companies	Mines and quarries	Preparation	Operating companies	ETOWAR Mines and quarries 10	Preparation plants	Operating companies	FAYETTE Mines and quar- ries 1	Prepa- ration plants
Sandatone, rough dimension— Marble, crushed and broken— Marble, rough dimension— Miscellaneous stone, crushed and broken— Common sand and gravel— Foundry sand— Kaolin and ball clay— Fire clay— Fire clay— Sentonite— Bentonite— Barite— Native asphalt and bitumens— INIUSTRY Bituminous coal— Iron ore— Baurite— Baurites—	Operating companies	DALLAS Mines and quar- ries	Preparation plants	Operating companies	DE KALF	Preparation	Operating companies	1 1 2 ELMORE and quarries 5	Preparation plants	Operating companies	Mines and quar-ries	Preparation	Operating companies	ETOWAR Mines and quarries	Preparation plants	Operating companies	FAXETTE Mines and quarries 1	Preparation plants
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Sandatone, rough dimension— Marble, crushed and broken— Marble, rough dimension— Miscellaneous stone, crushed and broken— Common sand and gravel— Foundry sand— Kaolin and ball clay— Fire clay— INDUSTRY All industries, total— Bituminous coal— Fire ore— Hauxits— Manganese ore— Limestone, rough dimension— Ilmestone, rough dimension—	Operating	DALLAS Mines and quar- ries	Preparation plants	Operating companies	DE KALF	Preparation	Operating companies	1 1 2 ELMORE and quarries 5	Preparation plants	Operating companies	SSCAMEIL Mines and quarries 1	Preparation	Operating companies	ETOWAR Mines and quarries 10	Preparation plants	Operating companies	FAXETTE Mines and quarries 1	Preparation plants
Sandstone, rough dimension— Marble, crushed and broken— Marble, rough dimension— Miscellaneous stone, grushed and broken— Common sand and gravel— Foundry sand— Kaolin and ball clay— Fire clay— Fire clay— Sentonite— Bartie— Native asphalt and bitumens— HINDUSTRY All industries, total— Bituminous coal— Hono ore— Bauxits— Manganese ore— Limestone, crushed and broken— Limestone, crushed and broken— Limestone, crushed and broken— Limestone, crushed and broken—	Operating companies	DALLAS Mines and quar- ries	Preparation plants	Operating companies	DE KALF	Preparation	Operating companies	Il 2 ELMORE and quarries 5	Preparation plants	Operating companies	SSCAMBLI Mines and quar-ries	Preparation	Operating companies	ETOKAR Mines and quarries 10	Preparation plants	Operating companies	FAXETTE Mines and quarries 1	Preparation plants
Sandstone, rough dimension— Marble, crushed and broken— Marble, rough dimension— Miscellaneous stone, grushed and broken— Common sand and gravel— Foundry sand— Kaolin and ball clay— Fire	Operating	DALLAS Mines and quar- ries	Preparation plants	Operating companies	DE KALF	Preparation	Operating companies	ELMORE Mines and quarries	Preparation plants	Operating companies	ZSCAMSII	Preparation	Operating companies 5	ETOKAH Mines and quarries 10 6	Preparation plants	Operating companies	FAYETTE Mines and quarries 1	Preparation plants
Sandatone, rough dimension— Marble, crushed and broken— Marble, rough dimension— Miscellaneous stone, crushed and broken— Common sand and gravel— Foundry sand— Kaclin and ball clay— Fire	Operating companies	DALLAS Mines and quar- ries	Preparation plants	Operating companies	DE KALF	Preparation	Operating companies	ELMONE Mines and quarrier 5	Preparation plants	Operating companies	SSCAMBLI Wines and quar-ries	Preparation	Operating companies	ETOWAR Mines and quarries 10 6	Preparation plants	Operating companies	PAXETTE Mines and quarries 1	Preparation plants
Sandstone, rough dimension— Marble, crushed and broken— Marble, rough dimension— Miscellaneous stone, crushed and broken— Common sand and gravel— Foundry sand— Kaclin and ball clay— Fire	Operating companies	DALLAS Mines adaptives 3	Preparation plants	Operating companies	DE KALE	Preparation	Operating companies	ELMORE Mines and quarries	Preparation plants	Operating companies	ZSCAMSII	Preparation	Operating companies 5	ETOWAR Mines and quarries 10	Preparation plants	Operating companies	FAYETTE Mines and quarries 1	Preparation plants
Sandstone, rough dimension— Marble, crushed and broken— Marble, rough dimension— Miscellaneous stone, grushed and broken— Common sand and gravel— Foundry sand— Kaclin and ball clay— Fire clay— Common clay and shale— Bentonite— Barite— Native asphalt and bitumens— Bituminous coal— Linous ore— Linestone, rough dimension— Sandstone, crushed and broken— Sandstone, crushed and broken— Sandstone, rough dimension— Marble, crushed and broken— Marble, crushed and broken— Marble, crushed and broken— Marble, crushed and broken— Marble, rough dimension— Marble, rough dimensio	Operating companies	DALLAS Mines adaptives 3	Proparation plants	Operating companies	DE KALF	Preparation	Openating companies	ELMORE and quarries 8	Preparation plants	Operating companies	Mines and quartes	Preparation	Operating companies	ETOTAL Mines and quarties 10 6 6	Preparation plants	Operating companies	PAYETTE Mines and quar ries 1	Preparation plants
Sandstone, rough dimension— Marble, crushed and broken— Marble, rough dimension— Miscellaneous stone, grushed and broken— Common sand and gravel— Foundry sand— Kaolin and ball clay— Fire	Operating companies	DALLAS Mines and quar- ries 3	Preparation plants	Operating companies	DE KALF	Preparation	Openating companies	ELMORE and quarries 8	Preparation plants	Operating companies	SSCAMSIII Mines and quar-ries	Preparation	Operating companies	ETOWAR Mines and quarries 10 6	Preparation plants	Operating companies	FAYETTE Mines and quarries 1	Preparation plants
Sandatone, rough dimension— Marble, crushed and broken— Marble, rough dimension— Miscellaneous stone, grushed and broken— Common sand and gravel— Foundry sand— Kaclin and ball clay— Fire	Operating companies	DALLAS Mines and quarries 3	Proparation plants	Operating companies	DE KALF	Preparation	Operating companies	Il	Preparation plants	Operating companies	Mines and quartes	Proparation	Operating companies	ETOTAL Mines and quarties 10 6 6	Preparation plants	Operating companies	PAXETIE Mines and quar- ries 1	Preparation plants
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(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ALABAMA -- Concluded

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INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- riss	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	5	6	3	2	2		67	84	29	3	3	1	1	1	1.	21	20	3
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Marble; rough dimension																		
Common sand and gravel	1	1	1							1	1	1						
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Common clay and shale							4	4	1	1	1							
Barita-																		
Native asphalt and bitumens															<u> </u>			
		MOBILE		ж	N TOOMER	Y		MORGAN			PIKE .			RUSSELL.	•	8	T. CLAI	R
INDUSTRY	Oper-	Mines	Prepa-	Oper- ating	Mines	Prepa-	Oper- ating	Mines	Prepa-	Oper- ating	Mines and	Prepa-	Oper- ating	Mines	Prepa-	Oper-	Mines	Prepa-
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All industries, total	1	5	5	5	3	2	2	2	2	1.	2	1	3	3		6	10	3
Bituminous coal	,										<u>-</u>					3	7	1
Iron ore										1								
Manganese ore-							1	1	1							1	1	1
Limestons, rough dimension																		
Sandstone, rough dimension																		
Marble, rough dimension																	,	
Common sand and gravel		5	 5	2	2	2	1	1	1	1		1						
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Fire clay							'						5			1	1	1
Bentonite																		
Hative asphalt and bitumens																		
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INDUSTRY	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines and	Prepa-	Oper- ating	Mines	rrepa-	Oper- ating	Mines	Preps-
	ating compa- nies	and quar- ries	ration plants	ating compa- niss	and quar- ries	ration plants	ating compa- nies	quar- riss	ration plants	compa- nies	quar- ries	ration plants	compa- nies	quar- ries	ration plants	compa- nies	quar- ries	plants
All industries, total	27	29	8	4	4	1	25	28	5	47	53	15	1	1	1	1	1	
Bituminous coml	.20	22	7.				20	. 21		47	52	1,5				1	1	
Bauxite	1	1		1	1	1,	3	5										
inganese ore			1										1	1	1			
Limestone, rough dimension———————————————————————————————————																		
Sandstone, rough dimension		==		1							===							
Marble, crushed and broken				1	1													
Macellaneous stone, crushed						,			1							=		
Common sand and gravel		=						1										
Kaolin and ball clay		=								1	1							
Common clay and shale-				1	1		1	1	1									
Barite		1	1	I .	1	1		I		I								
Mative asphalt and bitumens																		

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ARIZONA

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INDUSTRY	ating compa-	and 1	repa- ration clants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	ating compa-	ana	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Kines and quar- ries	Prepa ratio plant
All industries, total	164	172	57	1.	2		12	12	3	1	1		17	17	
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cellaneous stone, crushed and broken	2 3	2 3	2	~~~~~					!						-
mon clay and shale	2	2													753
mon sand and gravel	1	2	5	1	2					*****			6	6	- १९६८
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INDUSTRY	Oper- ating	Mines	Prepa-	Oper- ating	Mines	Liebe-	Oper- ating	Mines	Prepa-	Oper- ating	and	LLaba-	ating	and	Pre
	compa-	quar-	ration	compa-	quar-	ration	compa-	quar-	ration plants	compa-	drar-	ration	compa-	quar-	pla
the control of the second of t	nies	rles	plants	nies	ries	PIANCE	nies	ries	,	nies	ries	1	nies	ries	ľ
All industries, total	2	1	2	3	3	2	13	12	6	43	47	10	1	1	-
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tuminous coal							4	4	, 1	34	39	6			1 4
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lybdenum oreingsten ore										1	1	1			- 2 <u>2</u>
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andstone, rough dimension							1	1							2
iscallanaous stone. Crushed And Droken			1												7 8
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ommon clay and shale															1 2
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luorspar				1	1								<u> </u>		
A STATE OF THE STA		PIMA			PINAL		SA	NTA CRU	Z		YAVAPA	1		YUMA	
INDUSTRY	Oper-	Mine	T	Oper-	Mine	s .	Oper-	Mines	Prepa-	Oper-	Mine		Oper-	Mine	
Industria.	ating	and	ration	ating	and			and quar	ration	COMDS	and	ratio	n compa-	and quar	
	compa- nies		- nlants		quar ries		nies	ries	plants	nies	ries		nies	ries	, p.
All industries, total		7 7	4	14	14	5	6	6	2	41	. 42	13		7 7	as T
tituminous coal		_						T	T					B 6	
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and organizations		-		, 1			3	3	2				1	_	1 60
ling ore											-	• ··	.		
Uo Tehdonum Ono				1	_							1 '			3 1 7
Tingeton American concernation		1 1													#\$78
Vanadium and uranium ore		1								1 1	1 2	2 :		i .	
Limestone, crushed and broken		1									2 3				11.1
Marble, rough dimension							4 .				-				
Miscellaneous stone, crushed and broken		1 1									-	-			
Common sand and gravel		1]					.			1				I. :	-36
Rentanita-					1 .								- 1		5.10
Asbestos Feldspar		11	1								-	-			- 10 000 - 10 000
Fluorspar		_									-	-			*

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ARKANSAS

				T		====		$\overline{}$							7			
		STAT	5			BAXTER			BE	NTON			BOONE			C	HICOT	
IMPUSTRY	Oper- ating compa- nies	Mine and quar ries	- ti	are-	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	at:	ing apa- q	and	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Preparation plant	on con	ing ipa- q	ines and uar- ies	Prepa- ration plants
All industries, total	138	14	0	52	1	1			2	3	3	1	1	-	1	1	1	1
Hatural gasoline Bituminous coal Bauxite Hanganese ore Mercury	7 78 9 3		8 8 2 7	9 1 9 2 4				: =										
Titanius ore- Limestone, orushed and broken- Slate, crushed and broken- Harble, rough disension- Hiscelleneous stone, crushed and broken-	1 6 1 4		1	1 7 1	1	1		- -		2	2				- -			
Common sand and gravel	12 1 5 2 1	1	3 2 0 3 1	15 2 1 1				- -	1	1	1	1	1		1 -	1	1	1
		CLARK		0	RAIOHEA	D	С	rawford			CROSS		F	RANKLIN			GARLAND	
INDUSTRI	Oper- ating compa- nies	Mines and quar- riss	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1	1	1	, 1		1	1	1	1	<u> </u>	1	В	В		2	8	1
Matural gasoline Bituminous coal- Beurite Minganess ore Miscrury													8	8		=	=	
Mitanius ors- Limestone, crushed and broken- Slata, trushed and broken- Marble, rough dimension- Kiscellaneous stome, crushed	l ì				=						=			=			=	
and broken Common sand and gravel Class sand Common clay and shale Tripoli Tripoli		1	1	1			1	1	1	1	1	1		=	===	2	= - 8	1
	Н	EMPSTEA	D	H	OT SPRIN	G		HOMARD		T,	NDEPENDE	ICE		· IZARD	<u> </u>		JACKSO	(
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants		- quar-	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants
All industries, total	1	4		4	5	2	1	1	1	6	5	2	2	2	1	1	1	1
Natural gasoline————————————————————————————————————											2	2			===		Ē	
Titanius ore— Limestone, crushed and broken— Slate, crushed and broken— Marble, rough disension— Miscellaneous stone, crushed and broken—				1	1	1	1	 	<u></u>	1 2			1	1			=	
Common sand and gravel Class sand Common olay and shale Matural abrasives Tripoli	1		,	1 2 	3	1					: ==		1 ==	 	1	1	1 = = = = = = = = = = = = = = = = = = =	1

See footnotes at end of table.

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ARKANSAS-Concluded

12.3	JE	FFERSON			Johnson		L	AWRENCE		LIT	TLE RIV	SIR.		LOGAN			MILLER	:
INDUSTRY	Oper- ating compa- nies	and -	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants												
All industries, total	1	1	1	18	17	1	2	2	2	1	1	1	· 18	19		2	ı	
Matural gascline				18	17	 1							 18	19		1		, 0°, , 1°
anganese ore													,					- 18 gr
imestone, crushed and broken							1 	1	1									77.000 77.000 77.000
Wiscellaneous stone, crushed and broken											 1							X
Common sand and gravel	1 		1 				1 	1 	1	1		1				1	1	7 (34) 7 (7) 7 (7)
Tripoli				<u> </u>		<u> </u>	 				POPE			PULASK			r. Franc	TTS.
INDUSTRY	Oper-	Mines	I	Oper-	PIKE	1_	Oper-	Mines		Oper-	Mines	<u> </u>	Oper-	Mines	T	Oper-	Mines	1
Industria	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plant												
All industries, total	1		1	8	7	- 4	1,	. 1	1	3	3	1	8	7	6	1	1	
Natural gasoline Bituminous coal Buxite Manganese ors			1 							2	2		6	4	4			
Mercury Titanium ore Limestone, crushed and broken-														1				
Slate, crushed and broken Marble, rough dimension													1	1	1		-	
Common sand and gravel					==					1	1	1	1	1	1	1	1	
Natural abrasives										<u> </u>			===					
to the part of the second of t	yan)	SALINE	1		SCOTT	,		SEBASTI	AN .		SEVIER	T		UNION	- T		ONTHEAM	TON
INDUSTRY AND	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants	ating	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	retion		Mines and quar- ries	Prepa ratio
All industries, total	- 5	4	5	l.	1		32	32		1	1	1	6		7	1	3	1000 1000 1000 1000 1000 1000 1000 100
Natural gasoline Bituminous coal Bauxite Manganese ore	5	4	5	1	1		31	31					6		7		- 55	
Mercury Titanium ore Limestone, crushed and broken-																1		
Miscellaneous stone, crushed and broken		=																
Common sand and gravel								1		1	1	1						
		1					1 . 1	1 1	,	,			,	1	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	社員の空間

See footnotes at end of table.

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

CALIFORNIA

				T														
		STATE			ALAMETA			AMADOR			BUTTE		0	AFEVALA	.3	ac	NTRA CO	STA
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines And quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- niss	Mines and quar- ries	Prapa- ration plants
All industries, total	707	771	474	14	14	11	29	35	8	19	19	3	34	37	в	20	11	9
Natural gasoline	37 1		96															
Tota sold	205	206	119				10	. 0	8	. 5	5	1	11	11	8			
Placer gold	171 6	199 6					14	14		13	15		21	24				
Copper ore	ľ	li	1															
Chromite Manganese ore	5	2	1	i									1	ı				
Mercary	1 31	30	30													1	1	1
Tungsten ore	10	9	10														-	
Limestone, crushed and broken	21 1	21	17										1	1		1	1	1
Granite, crushed and broken	7	8	ŝ															
Granite, rough dimension	7	7														\ 		
Basalt, orushed and broken	11	11	u	1	1	1										2	2	2
Sandstone, crushed and broken-	7.	В	7	2	2	1										1	1	1
State, crushed and broken	1	1	1 1															
Slate, rough dimension	: 1	1																
Marellaneous stone, amushed	1	1	1 1															
Miscellaneous stone, crushed and broken	1.6	16	ונו	ı	1	. 1				1	ı	1						
Common sand and gravel	75	104	104	6	7	7				1	1	1				1	1	1
Glass sand	5	. 5 5	5 5			~										2 1	2	2
Reolin and ball clay	16	17	10		,		1.	1										
Fire clay	14 26	21 28	2	1 2	1 2		4	9			1					2	2	
Filler's earth	20		1 2	í		1		_								ļ		
Bentonite	6	5	4													i		
Berite	2	2							,					(ļ.	ł	1	
Peldspar	3	3	3															
Суреше	5	1 8	1 1															
Lyunite, and lusite, and	1			Ì	1	1	ì	Ì		1	1	Ì.			Ì	Ì		Ì
imposite and brucite	2	2 2	1															
KI 04	l i	ĺí	1 1															
Mative asphalt and bitumens	2	2	1 1		—						ļ							
Natural abrasives	9	9 5	7 4															
Petash	4	4	3		_										 			
Pyrites	1 1	1	1 1															
Rock salt	1	1	i														·	
Sulfur	- 3	3	1															
Tale and scapatone	7	10	5															
	1	<u> </u>						<u>L</u> _		<u>L</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>
		ELDORAT	ю		Fresno		F	UMBOLD!	!	1	MPERIA I	5		INYO			KXXIN	
Didustry	Oper-	Mines		Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-
	ating compa- nies	- quar- ries	metion	compa- nies	and quar- ries	retion plants	ating compa- nies	quar- ries	ration plants	ating compa- nies	and quar- ries	ration plants	ating compa- nies	quar- ries	ration plants	compa- nies	quar-	ration plants
	 				 	-						 			1		54	40
Ill industries, total	52	51	15	11	8	11	4	5	2	8	8	5	33	54	18	60		40
Natural gasoline				4		4					\ 					9	28	19 12
Lode gold	18	13	9							1	1	3	12	14	5	30	 %B	122
Silver ore-	12	12														1	1	
Chronita	- 2	, 1	1															
Manganese ore-	<u> </u>			1	1	i				1	1	1	<u>-</u>	1	1	1	1	i
Tunzatan ore-	4 ===												5	4	5	1	1	1
Ideatone, crushed and broken	4	4	4										1	1	1	1 1	1 1	1 1
Granite, rough dimension]			1	1													
Slate, crushed and broken	1													:				
Miscellaneous stone, crushed	l		Į		1		l	1		ľ	1		l	i	l	1 .	Ι,	
Common sand and gravel	┥			1	1	1		2	2						,	1 2	1 2	1 2
Kaolin and ball clay-	1 ===			3	3	3	1	2	2							7	7.	4
Common clay and shele] ===							 						-		2	2	1
Fuller's earth Bentonite	 -												1	1		1	1	1
Оуреш	1 ===									1	1					3	3	Ī
Kyanits, andalusite, and	1]			1 -	1.]	Ì]]	1] _	1	:]	1	1
Matural abrasives	 -			<u>-</u>						1	1	1	4	4	5	2	2	2
Matural sodius compounds	 -			1	1	1							2	2	2	1	2	ĩ
			1	1	1	1	1	1		1	1		3	3	1			
Sulfur-		_		~~~									4	4	2			

See footnotes at end of table.

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

CALIFORNIA—Continued

						ALIFO	MATY-	-0111	inuea									
		KINGS			LAKE			LASSEN		LO	3 ANGELI	ss .	1	MADERA	•		MARIN	
INDUSTRY	Oper- ating compa- nies	and	Prepa- ration plants	Oper- ating compa- nies	and	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants									
All industries, total	3		5	Б	5	5	1	1	1	70	52	79	5	5	2	2	2	2
Natural gasoline	3		5							25 1	<u>1</u>	40 1	2	2	 1			77 (1945) - 1946) - 1946)
Placer gold				5	5	5							1					45 TEDRO
Mercury										1	1	1					y	7777
Granite, crushed and broken										1	1		1	1				
Granite, rough dimension																ı		sin mandali.
Sandstone, rough dimension Miscellaneous stone, crushed																1	1	. 1
and broken							1	1	1	6 21	8 29	4 29						7445
Common clay and shale										11	11							7 0.088
Bentonite										1	1 1	1						177.100
Natural abrasives													1	1	1			Page 10 1988
Tale and scapstone										2	1	2						r Las des
<u></u>	ע	iariposa			MERCED	<u> </u>		MONO		,	ONTEREY			NAPA			NEVAD	3.44 4.7 4.43.98 4.43.88
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- rles	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- retion plants									
All industries, total	- 26	25	18	7	30	4	9	9	3	5	6	4	10	10	9	32	33	8
e e e e e e								T .								17	1.8	8
Iode gold	19	17	14	5	6		6	6	2							14	14	1 1.2.1116 F
							1	1,					1	1	1			1000
Mercury	4								<u>-</u>				6	5	5			10 T. S. C.
Tungsten ore Limestone, crushed and broken-		1	1				1	1	1									-
Granite, crushed and broken	I i	ī	î				,											9,5,2%
			Ì	2	2	2							2	2	2			10 / 20 / 10 / 10 / 10 / 10 / 10 / 10 /
Baselt, crushed and broken Sandstone, rough dimension										2	2							5000
Common sand and gravel	1	1	1	2	2	2				2	3	3	1	1	1	1	ī	77.77866
Parita	l	1								1	1	1						F# 55 FF
Distomite										-	-	-		1				40 100
dumortierite							1	1										- 1000
Mica	1	1	1										1	1				TA 500
Natural abrasives			1								1							1 2 2 2 2 2
		ORANGE			PLACER			PLUMAS		+ :	RIVERSI	DE	5	SACRAMEN	i t o		SAN BEN	ITO
INDUSTRI	Oper- ating compa-		Prepa- ration plants	compa-	Mines and quar-	Prepa- ration	compa	Mines and quar-	Prepa- ration	comba-	Mines and quar	Prepa- ration	ROTHE	Mines and quar- ries	ratior	T STILLS	and quar- ries	Frepar
	nies	ries	-	nies	ries	-	117.60	ries	 -	nies	ries	7	17	26	7		+	
All industries, total	20	16	21	57	36	9	9	9	7	15	17	+	4.1	 	+=:			
Natural gasoline	7		10	8	8	7	6		6	5	5	3					785	- 10 TH
Lode gold				23	23		2						9	17			- 15	1 1
Copper ore							1	. 1	1							5		4 353
Mercury										<u>1</u>	1	1				1	1	100,000,000
Limestone, crushed and broken- Granite, crushed and broken- Granite, rough dimension	===	=		1				===	===	1	1						1	
Miscellaneous stone, crushed		1	1	1									.	١,			UP 1 JAN	
and broken	- 2	2	2							1	1	1	1 6		6		700	
Common sand and gravel	⊐	5	5	11				.		i								
Foundry sand								.					1			:		a # 22
Kaolin and ball clay			1		3						1							
Fire clay	5	B	1	4			1 ===	===		3	5	1	. 1	. ב	.	.	·	oli i de Consul
Сурени								-		1	1	-						
Peat	- 2	2	2															(m) (m) (m)

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

CALIFORNIA—Concluded

	SAN	BERNA RID	TNO	Ţ	SAN DIEG	Λ	RAN	FRANCI	aco	T .	N JOAQI	TOV	CAN	T1770 A				
	<u> </u>			ļ					1	ļ		71.71		LUIS OF	ILSPO		SAN MATI	EO
INDUSTRY	Oper-	Mines	Prepa-	Oper- ating	Mines	Prepa-	Oper- ating	Mines	Prepa-	Oper- ating	Mines	Prepa-	Oper-	Mines and	Prepa-	Oper- ating	Mines	Prepa-
	compa-	quar-	ration plants	compa-	quar⊶	ration plants	compa-	quar-	ration plants	compa-	quar-	ration plants	сотра-	quar-	ration plants	combs-	quar-	ration
	nies	ries		nies	ries	•	nies	ries		nies	ries	-	nies	ries	Pimiros	nies	ries	plants
All industries, total	42	45	25	16	17	9	1	1	1	9	10	7	7	5	6	6	6	4
Iron ore	1	1								T							-	
Lode gold	10	10	4	2	2	1												
Placer gold	1 2]]						·		3	3							
Mercury	3	3											4	3	3			
Tungsten ore	2	2	2															
Limestone, crushed and broken Granite, crushed and broken	5	5	4										1	1	1			
Granite, rough dimension				3	3											1	1	1
Basalt, crushed and broken				1	1	1												
Sandstone, crushed and broken Miscellaneous stone, crushed	1	1					1	1	1				1		1	1	1	. 1
and broken				1	1	1										2	2	
Common sand and gravel	6	6	6	4 2	5 2	5				6	7	.7	1	1	1	1	1	1
Kaolin and ball clay	-3	3	2															
Common clay and shale				2	2													
Bentonite	3	2	2	1	1													
Watermal caddom commenced.	1 3	1	1					l										
PeatPotash	1 1	1	1															
Rock salt	1	ı	i						===									
Talc and soapstone	4	5	ī															
Tripoli	1 1	1																
	SAN	TA BARB	ARA	8/	NTA CIA	RA	SA	NTA CRU	Z		SHASTA			SIERRA			SISKIYO	OU
jemer s	Oper-	Mines	Ι	Oper-	Mines		Oper-	Mines		Oper-	Mines	T	Oper-	Mines		Oper-	Mines	T
INDUSTRY	ating	and	Prepa- ration	ating	and	Prepa- ration	ating	and	Prepa- ration	ating	and	Prepa- ration	ating	and	Prepa- ration	ating	and	Prepa- ration
A = 1/2	compa-	quar- ries	plants	compa- nies	quar- ries	plants	nies	quar-	plants	compa- nies	quar- ries	plants	compa- nies	quar- ries	plants	compa- nies	quar- ries	plants
	 			 	 			-		 	-					 		}
All industries, total	10	4	10	7	8	6	- 6	7	4	24	28	8	ņ	9	6	23	23	4
Natural gasoline			7															
Lode goldPlacer gold										8 15	10 16	6	10	. B	6	10 13	10 13	4
Mercury	1	1	ı	3	3	-3												
Limestone, crushed and broken Basalt, crushed and broken				- -		1	2	2	1									
Sandstone, crushed and broken	1	1	1															
Common sand and gravel				1	2	2	2	2	2	1	1	1						
Common clay and shale		1	1	1	1		1	1										
Magnesite and brucite				1	1													
Native asphalt and bitumens	11	1					1 1	1 1	1									
Pyrites										1	1	1						
Section 1	1	soi	ANO		·	SONOMA		7	STAN	ISLAUS			TEHAMA			T	RINITY	
Two was	Oper-	Min			Oper-	Mines	1	100	er- h	lines ,		Oper-	Mines	T_		er-	M.nes	
INDUSTRY	ating	an	I 1	Prepa- ration	ating	and	Prepa	_ at	ing	and ,	Prepa- ration	ating	and	rep	a- at	ing	and	Prepa- ration
A Section 1	compa-		ur- Y	lants	compa-	quar-	plant	. CO:		uar-	lants	compa- nies	ries	plan	+- "		quar- ries	plants
18-7	nies	rie			nies	ries	+			ies '		 		+-				
All industries, total	3		1	1	6	6		5	10	10	4	2	2	2		23	22	5
Lode gold	Г <u></u>							_	T_					.		5	4	4
Placer gold								- -	5	5		2	2			17	17	
Bessit amaked and business			-		3	3		3	-						_ _	1	1	1
Baselt, crushed and broken Sandstone, rough dimension			1 .	1	1	1 1		1						.	_			
Common sand and gravel		.	-		, 1	1	1	1	4	4	4			-	- 1			
Magnesite and brucite									1	1							لــــــــــــــــــــــــــــــــــــــ	
aras to the		TUI	ARE			TUOLUMN	E		VE	N TURA		T	YOLO				YUBA	
INDUSTRY	Oper-	Mir		Prepa-	Oper-	Mines	Prepa			fines ,	Prepa-	Oper-	Mines				Mi.nes	Prepa-
e disper	ating	ar	nd ;	ration	ating	and quar-	ratio	n a		and	ration	ating compa-	and quar-	rat	ion a	ting ompa-	and quar-	ration
	compa- nies	que rie		olants	compa- nies	ries	plant			ries	plents	nies	ries	plar			ries	plants
All industries, total	-	<u> </u>	2	2	21	21		8	17	10	18	2	2	2	2 .	10	10	4
3		_	-				1	_	9 -		11							
Natural gasolins		1	- 1		13	13		6						-		3	3	2
Placer gold		.	-		4	3		1				1			1 -	5	5	
Mercury		:	l ·	1					1.						-			·
Idmestone, crushed and broken		.	-		1	1			1	: 1	1				E			
Granite, crushed and broken Slate, rough dimension					1]]		1										
Marble, crushed and broken		.			1	1		1						.			2	2
Common sand and gravel Kaclin and ball clay]		1 .	1			1		4	4 4	4 2	1			_	2		
Fire clay	1	- 1			1													
Сурвия		·	-					-	. 1	1								

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

COLORADO

· · · · · · · · · · · · · · · · · · ·		STA	TE	-		ADAMS	·	T T	ARAPAHOE		T	ARCHULET	A			BOULDER	
INDUSTRY	Oper-	Min		repa-	Oper-	Mines	Prepa-	Oper-	Mines	Ī	Oper-	Mines	T		Oper-	Mines	
	ating compa- nies	an qua rie	r- r	ration plants	ating compa- nies	and quar- ries	ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Preparation plan	on	ating compa- nies	and quar- ries	Prepa- ration plants
All industries, total	473	5	44	107	2	4	5	5	3	3	1	1			63	80	15
Natural gasoline	2			2													
Bituminous coal	197 153		11 66	11 43							1	1	·		18	. 18	
Placar gold	21	. 1	21 -	[]	1	1									33	36	- 20,6
Silver ore	21 1		27	1					***************************************								
Lead ore	6	- 1	6	2													
Zinc ore	5		1 -	1													47.12990)
Molybdenum ore	l	.	1	1													
Vanadium and uranium ore-	8		20	7 3											8	20	a distribution
Limestone, crushed and broken- Granite, rough dimension	9		14 -	4													FILE RELIEF BY
Sandstone, crushed and broken	3		4	1					*****								
Marble, rough dimension	1 2		2 -												1	1	V 200
Common sand and gravel	9	· .	14	14	1	3	3	3	3	3							
Foundry sand Kaolin and ball clay	1		1 -	1										-			70 (07 W. R)
Fire clay	8	:	10	1										- 1			
Common clay and shale	12 1		13	2 1											2	5	7587
BariteFeldsparFluorspar	4	. .	7 -														
Gypsum	4 2		4 2	4											1	1	5
Mica	1		1 -														
Vermiculite	1		1 2	2											1	1	-01°
		CHAF	12mm				<u> </u>			<u> </u>	<u> </u>	J	<u> </u>	-	1		
INDUSTRY	Oper-	Min				LEAR CRE		-	CUSTER	Τ		DELTA				DENVER	
	ating	an	d	Prepa- ration	Oper- ating	Mines and	Prepa- ration	Oper- ating	Mines and	Prepa- ration	Oper- ating	Mines	Prep	a-	Oper- ating	Mines and	Prepa-
	compa-	qua ria		plants	compa- nies	quar- ries	plants	nies	quar- ries	plants	compa- nies	quar- ries	ratio		compa- nies	quar- ries	ration plants
All industries, total	10		10	3	27	26	10	1	. 2	1	8	8				6	6
Bituminous coal			_							-							
Toda mold	2		2		25	24	10				8	B					1000
Placer gold	2		2					1 l	-				1 ==				
							1										
Silver ora	1	.	1		2	2											المعتبيت
Limestone, crushed and broken	1		1	1													
Limestone, crushed and broken— Granite, rough dimension———— Common sand and gravel——————	1		1 1 1	1	2											=======================================	
Limestone, crushed and broken Granite, rough dimension	1		1	1 	2		and the state of t		2						3	6	
Limestone, crushed and broken—Granite, rough dimension———————————————————————————————————	1		1 1 2		5				2		1				5	6	
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorspar—	2	Dolo	1 1 1 2 RES			DOUGLAS		1	2 EAGLE			ELBERT			3	6 EL PASO	
Limestone, crushed and broken—Granite, rough dimension———————————————————————————————————	1 1 1 2 Coperating	DOLO Min an	1 1 2 RES	2 Prepa-	Oper- ating		Prepa-		2	l Prepa-	Oper-	ELBERT Mines	Prep	&~	oper-	Mines	Prepa
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorspar—	1 1 2 Oper-	DOLO	1 1 2 RES	s	Oper-	DOUGLAS		l Oper-	2 EAGLE	1	Oper- ating compa-	ELBERT Mines and quar-	Preprati	on	ating compa-	Mines and quar-	Preparation
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel Barite— Fluorspar—	Oper-ating compa-	DOLO Min an qua rie	1 1 2 RES	Prepa- ration	Oper- ating compa-	DOUGLAS Mines and quar-	Prepa- ration	Oper-ating compa-	EAGLE Mines and quar-	Preparation	Oper- ating	ELBERT Mines	ratio	on ts	ating	Wines and	ration
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorspar INDUSTRY All industries, total———————————————————————————————————	Oper- ating compa- nies	DOLO Min an qua rie	1 1 2 2 RES	Prepa- ration plants	Oper- ating compa- nies	DOUGLAS Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	EAGLE Mines and quar- ries	Preparation	Oper- ating compa- nies	ELBERT Mines and quar- ries	ration plan	on ts	ating compa- nies 12	Mines and quar- ries	ration
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorspar— INDUSTRY All industries, total——— Eituminous coal———— Lode gold————————————————————————————————————	Oper- ating compa- nies	DOLO Min an qua rie	1 1 2 2 RES	Prepa- ration plants	Oper- ating compa- nies	DOUGLAS Mines and quar- ries	Prepa- ration plants	Operating companies	EAGLE Mines and quarries 3	Preparation	Oper- ating compa- nies	ELBERT Mines and quar- ries	ration plan	on ts	ating compa- nies	Mines and quar- ries	ration
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorspar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Silver cre——————————————————————————————————	Oper- ating compa- nies	DOLO:	1 1 2 2 RES	Prepa- ration plants	Oper- ating compa- nies	DOUGLAS Mines and quar- ries	Prepa- ration plants	Operating companies	EAGLE Wines and quar- ries	Preparation	Oper- ating compa- nies	ELBERT Mines and quar- ries	ration plan	on ts	ating compa- nies 12	Mines and quar- ries	ration plants
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorspar— INDUSTRY All industries, total— Eituminous coal— Lode gold— Silver ore— Zinc ore— Limestone, crushed and broken— Sandstone, crushed and broken—	Operating companies	DOLO:	1 1 2 2 RES	Prepa- ration plants	Oper- ating compa- nies	DOUGLAS Mines and quar- ries	Prepa- ration plants	Operating companies	EAGLE Mines and quarries 3	Preparation plants	Oper- ating compa- nies	ELBERT Mines and quar- ries	ration plan	on ts	ating compa- nies	Mines and quar- ries 14	ration plants
All industries, total Baituminous coal Lode gold Silver ore Limestone, crushed and broken— Common sand and gravel Barite— Fluorapar— INDUSTRY All industries, total——— Bituminous coal Lode gold Silver ore—— Limestone, crushed and broken— Sandstone, crushed and broken— Fire clay——	Operating companies	DOLO Minn an qua rie	1 1 1 1 2 2 RES	Prepa- ration plants	Operating companies 3	DOUGLAS Mines and quarries 3	Preparation plants	Operating companies	EAGLE Mines and quarries 3	Preparation	Oper- ating compa- nies	ELBERT Mines and quar- ries	ration plan	on ts	ating companies	Mines and quar- ries 14	ration plants
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorspar— INDUSTRY All industries, total— Eituminous coal— Lode gold— Silver ore— Zinc ore— Limestone, crushed and broken— Sandstone, crushed and broken—	Operating companies	DOLO Minan qua rie	1 1 1 1 2 2 RES	Preparation plants	Operating companies	DOUGLAS Mines and quar- ries 3	Prepa- ration plants	Operating companies	EAGLE Mines and quarries 3	Preparation plants	Oper- ating compa- nies	ELBERT Mines and quar- ries	ration plan	on ts	ating compa- nies	Mines and quar- ries 14	ration plants
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorspar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Silver ore— Zinc ore— Limestone, crushed and broken— Sandstone, crushed and broken— Fire clay— Common clay and shale—	Operating companies	DOLO. Minana an qua rie	1 1 1 1 2 2 RES	Preparation plants	Operating companies 5	DOUGLAS Mines and quarries 3	Preparation plants	Operating companies 3	EAGLE Mines and quar- ries 3	Preparation plants	Operating companies	ELBERT Mines and quarries 3	ration	an on ts	ating companies	Mines and quarries 14 9	ration plants
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorspar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Silver ore— Zinc ore— Limestone, crushed and broken— Sandstone, crushed and broken— Fire clay— Common clay and shale— Feldspar—	Operating companies	DOLO Min an qua rie	1 1 1 1 2 2 RES	Preparation plants	Operating companies 5	DOUGLAS Mines and quarries 5 1 1	Preparation plants	Operating companies 5	EAGLE Mines and quarries 3	Preparation plants	Operating companies	ELBERT Mines and quarries 3	ration plan	an on ts	ating companies	Mines and quar- ries 14	ration plants
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorspar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Silver ore— Zinc ore— Limestone, crushed and broken— Sandstone, crushed and broken— Fire clay— Common clay and shale—	Operating companies 5	DOIO Mine and qua rie	1 1 1 1 2 RES	Preparation plants 1 1 1 Coperation	Operating companies 5	DOUGLAS Mines and quarries 3	Preparation plants 1	Operating companies 3 - 2 1	EAGLE Mines and quarries 3	Preparation plants OUNNISON Mines	Operating companies 3 3	ELBERT Mines and quar- ries 3 3 HI Coper-	ration plan	Prepa	ating companies	Mines and quarries 14 9 4 1 HUERFANC	retion plants 2 11
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorapar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Silver ore— Limestone, crushed and broken— Sandstone, crushed and broken— Fire clay— Common clay and shale— Feldspar— INDUSTRY	Oper-	DOLO Mine an qua rie	1 1 1 2 2 RES	Preparation plants 1 Operating	Operating companies 3	DOUGLAS Mines and quarries 3 1 1 1 Prepa- (ration)	Preparation plants 1 GIII OHIO Operating a some a second a sec	Operating companies 3 2 1 1	EAGLE Wines and quarries 3 1 2 1 Coperate a daing compa	Preparation plants GUNNISON Wines and quar-	Operating companies 3	ELBERT Mines and quarries 3 3 4 Coperating of the state o	ration plan	on ts	ating companies 12 9 1 22 1 Operating companies	Mines and quarries 14 9 4 1 HUERFANC Mines and quarries quarries 14 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ration plants 2 1
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Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorapar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Silver ore— Limestone, crushed and broken— Sandstone, crushed and broken— Fire clay— Common clay and shale— Feldspar— INDUSTRY All industries, total———————————————————————————————————	Operating companies Operating companies S Operating companies 41	DOLO Mine and quarries FREMONT Mines and quarries 48	l l l l l l l l l l l l l l l l l l l	Preparation plants 1 1 Operating companies	Operating companies 5	DOUGLAS Mines and quarries 3 1 1 1 Prepa- (ration)	Preparation plants 1 GII per- tting a quanta printer riches ri	Operating companies 5 2 1 1	EAGLE Mines and quarries 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Preparation plants GUNNISON Mines and quarries 16	Operating companies 3 3 Preparation	ELBERT Mines and quarries 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ration plan	Preparatio	ocompanies 12 9 1 2 1 Operating compgs nies	Mines and quarries 14 9	ration plants 2 1 1 1 Preparation plants
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorspar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Silver ore— Zinc ore— Limestone, crushed and broken— Sendstone, crushed and broken— Fire clay INDUSTRY All industries, total— Bituminous coal— Lode gold— Lode gold— INDUSTRY	Operating companies Operating companies	DOLO Minn an qua rie FREMONT Mines and quar ries 48	l l l l l l l l l l l l l l l l l l l	Preparation plants 1 1 Operating companies	Operating companies 5	DOUGLAS Mines and quarries 3 1 1 1 Prepa- (ration)	Preparation plants 1 GII perating a guidants a guida	Operating companies 3 2 1 1	EAGLE Mines and quarries 3 2 1 Operating compacts nies 6 1.7	Preparation plants GUNNISON Mines and quarries 16	Operating companies 3 3 Preparation plants 3	ELBERT Mines and quarries 3 3 HI Operating companies	NSDALE Mines and quar- ries	Preparation	ating companies 12 9 1 2 1 Operating companies	Mines and quarries 14 9 4 11 HUERFANC Mines and quarries ries 3 25 5 25	ration plants 2 1 1
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorapar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Silver cre— Zinc cre— Zinc ore— Limestone, crushed and broken— Sandstone, crushed and broken— Fire clay— Common clay and shale— Feldspar— INDUSTRY All industries, total———————————————————————————————————	Operating companies 5 Operating companies 5 Operating companies 41	DOLO Minn an qua rie FREMONT Mines and quar ries 48	l l l l l l l l l l l l l l l l l l l	Preparation plants 1 1 Coperating companies 9 7 1	Operating companies 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DOUGLAS Mines and quarries 3 1 1 1 Prepa- (ration)	Preparation plants 1 OHI OHI OHI OHI OHI OHI OHI	Operating companies 3 2 1 1	EAGLE Mines and quarries 3 2 1 a- Cperating compa nies 6 17	Preparation plants GUNNISON Mines and quarries 16 12 2	Operating companies 3 3 Preparation plants	ELBERT Mines and quarries 3 5 HI Operating companies	NSDALE Mines and quarries 2	Preparation	ocompanies 12 9 1 2 1 Operating compgs nies	Mines and quarries 14 9 4 11 HUERFANC Mines and quarries ries 3 25 5 25	ration plants 2 1 1 1 Preparation plants
Ilmestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorapar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Silver ore— Limestone, crushed and broken— Sandstone, crushed and broken— Fire clay— Common clay and shale— Feldspar— INDUSTRY All industries, total— INDUSTRY All industries, total— INDUSTRY All industries, total— INDUSTRY All industries, total— Jedge gold— Placer gold— Silver ore— Lead ore—	Operating companies Operating companies 5 Operating companies 41 28	DOLO Minnan qua rie FREMONT Mines and quar ries 48	l l l l l l l l l l l l l l l l l l l	Preparation plants 1 Operating companies 9	Operating companies 5	DOUGLAS Mines and quarries 3 1 1 1 Prepa- (ration)	Preparation plants 1 GII perating a guidants a guida	Operating companies 3 2 1 1	EAGLE Mines and quarries 3 2 1 Operating compacts nies 6 1.7	Preparation plants GUNNISON Mines and quarries 16 12 2	Operating companies 3 3 Preparation plants 3	ELBERT Mines and quarries 3 5 5 Comparison of the comparison of th	ratiplan NNSDALE Mines and quarries 2	Preparation plant	ating companies 12 9 1 2 1 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2	Mines and quarries 14 9 4 11 HUERFANC Mines and quarries ries 3 25 5 25	ration plants 2 1 1 1 Preparation plants
Limestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorapar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Silver ore— Limestone, crushed and broken— Sandstone, crushed and broken— Fire clay— Common clay and shale— Feldspar— INDUSTRY All industries, total— INDUSTRY Bituminous coal— Lode gold— Silver ore— Limestone, crushed and broken— Feldspar— INDUSTRY All industries, total— Lode gold— Limestone, crushed and broken— Limestone, crushed and broken— Limestone, crushed and broken— Cranite, rough disnession— Cranite, rough disnession— Cranite, rough disnession—	Operating companies 5 Coperating companies 41 28 5	DOLO Mine an qua rie FREMONT Mines and quarries 48	l l l l l l l l l l l l l l l l l l l	Preparation plants 1	Operating companies 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DOUGLAS Mines and quarries 3 1 1 1 Prepa- (ration)	Preparation plants 1 OHI Sperating sompa- quantes ri 21 15 5 1	Operating companies 3 2 1 1	EAGLE Wines and quarries 3	Preparation plants OUNNISON Mines and quarries 16 12 2	Operating companies 3 3	ELBERT Mines and quarries 3 3 The state of the state o	ratic plan NSDALE Mines and quarries 2	Preparation	ating companies 12 9 1 2 1 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2	Mines and quarries 14 9 4 11 HUERFANC Mines and quarries ries 3 25 5 25	ration plants 2 1 1 1 Preparation plants
All industries, total— Eituminous coal— Limestone, crushed and broken— Brituminous coal— Lode gold— Silver cre— Zinc cre— Zinc cre— Zinc cre— Zinc cre— Zinc self— Silver cre— Zinc self— Silver cre— Zinc self— Silver cre— Zinc self— Limestone, crushed and broken— Fire clay— Common clay and shale— Feldspar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Feldspar— Lode gold— Silver cre— Limestone, crushed and broken— Felacer gold— Silver cre— Limestone, crushed and broken— Granite, rough dimension— Sandstone, crushed and broken— Granite, rough dimension— Sandstone, crushed and broken— Granite, rough dimension— Sandstone, crushed and broken—	Operating companies 5 Operating companies 41 28	DOLO Mine and quarie FREMONT Mines and quarries 48 51 51 13	l l l l l l l l l l l l l l l l l l l	Preparation plants 1 1 Operating companies 9 7 1 1	Operating companies 5 CARFIELD Mines and quarries 9 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DOUGLAS Mines and quarries 3 1 1 1 Prepa- (ration)	Preparation plants 1 OHIT Services of the preparation of the prepara	Operating companies 3 2 1 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	EAGLE Mines and quarries 3 2 1 Coperating compacts nies 6 1.7	Preparation plants GUNNISON Mines and quarries 16 12 2	Operating companies 3 3 Preparation plants 3	ELBERT Mines and quarries 3 5 5 Comparison of the comparison of th	ratic plan NSDALE and quarries 1	Preparation plant	ating companies 12 9 1 2 1 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2	Mines and quarries 14 9 4 11 HUERFANC Mines and quarries ries 3 25 5 25	ration plants 2 1 1 1 Preparation plants
All industries, total— Bituminous coal— Limestone, crushed and broken— Briturious coal— Lode gold— Silver ore— Limestone, crushed and broken— Feldspar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Sincore— Limestone, crushed and broken— Feldspar— INDUSTRY All industries, total— Lode gold— INDUSTRY INDUSTRY All industries, total— Lode gold— Feldspar— Lode gold— Silver ore— Limestone, crushed and broken— Granite, rough dimension— Sandstone, crushed and broken— Marble, rough dimension— Fire clay—	Operating companies Operating companies 5 Companies 1 1 1 1 1 1 1 1 1 1 1 1 1	FREMONT Mines and quarries 48 31 5 1 1 1	l l l l l l l l l l l l l l l l l l l	Preparation plants 1 1 Operating companies 9 7 1	Operating companies 5 1 1 1 1 1 1 7 GARFIELD Mines and quarries 9 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DOUGLAS Mines and quarries 3 1 1 1 Prepa- (ration)	Preparation plants 1 OHIT Services of the preparation of the prepara	Operating companies 3 3 2 1 1 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2	EAGLE Wines and quarries 3	Preparation plants GUNNISON Mines and quarries 16 12 2	Operating companies 3 3	ELBERT Mines and quarries 3 3 The state of the state o	ratic plan NSDALE Mines and quarries 1	Preparation plant	ating companies 12 9 1 2 1 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2	Mines and quarries 14 9 4 11 HUERFANC Mines and quarries ries 3 25 5 25	ration plants 2 1 1 1 Preparation plants
All industries, total— Brituminous coal— Limestone, crushed and broken— Brituminous coal— Lode gold— Silver ore— Limestone, crushed and broken— Fire clay— INDUSTRY All industries, total— INDUSTRY INDUSTRY All industries, total— Limestone, crushed and broken— Fire clay— INDUSTRY INDUSTRY All industries, total— Lode gold— Lode gold— Limestone, crushed and broken— Feldspar— INDUSTRY All industries, total— Common clay and shale— Feldspar— Lode gold— Placer gold— Silver ore— Limestone, crushed and broken— Granite, rough dimension— Sandstone, crushed and broken— Granite, rough dimension— Fire clay— Fire clay	Operating companies 5 Operating companies 5 1 2 Operating companies 5 1 1 1 1 1 1 1 1 1 1 1 1	DOLO Mines and quaries FREMONT Mines and quarries 48 31 5 1 1 3	l l l l l l l l l l l l l l l l l l l	Preparation plants 1 Operating companies 9 7 1 1 1 1 1 1 1 1 1 1 1 1	Operating companies 5 CARFIELD Mines and quarries 9 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DOUGLAS Mines and quarries 3 1 1 1 Prepa- (ration)	Preparation plants 1 OHI per- ting a grompa quality states a second states	Operating companies 3 2 1 1	EAGLE Mines and quarries 3 2 1 Coperating compacts nies 6 1.7	Preparation plants GUNNISON Mines and quarries 16 12 2	Operating companies 3 3	ELBERT Mines and quarries 3 3 The state of the state o	ratic plan NSDALE and quarries 1	Preparation plant	ating companies 12 9 1 2 1 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2	Mines and quarries 14 9 4 11 HUERFANC Mines and quarries ries 3 25 5 25	ration plants 2 1 1
Ilmestone, crushed and broken— Granite, rough dimension— Fluorapar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Silver ore— Zinc ore— Limestone, crushed and broken— Fire clay— Common clay and shale— Feldspar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Feldspar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Silver ore— Lead ore— Lead ore— Lead ore— Lead ore— Limestone, crushed and broken— Granite, rough dimension— Sandstone, crushed and broken— Granite, rough dimension— Feldspar— Cypeum— Mica— Mica— Mica— Mica— Mica— Mica— Tendre ord	Operating companies Operating companies 5 Companies 1 1 1 1 1 1 1 1 1 1 1 1 1	DOLO Mine and quarie FREMONT Mines and quarries 48 51 1 1 1 1	l l l l l l l l l l l l l l l l l l l	Preparation plants 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Operating companies 5 CARFIELD Mines and quarries 9 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DOUGLAS Mines and quarries 3 1 1 1 Prepa- (ration)	Preparation plants 1 OHI per- ting a grompa quality states a second states	Operating companies 3 2 1 1	EAGLE Mines and quarries 3 2 1 Coperating compacts nies 6 1.7	Preparation plants GUNNISON Mines and quarries 16 12 2	Operating companies 3 3	ELBERT Mines and quarries 3 3 The state of the state o	ration plan NSDALE and quarries 1 1	Preparation plant	ating companies 12 9 1 2 1 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2	Mines and quarries 14 9	retion plants 2 1 1 1 Preparation plants
Ilmestone, crushed and broken— Granite, rough dimension— Common sand and gravel— Barite— Fluorapar— INDUSTRY All industries, total— Bituminous coal— Lode gold— Silver ore— Limestone, crushed and broken— Fire clay— Common clay and shale— Feldspar— INDUSTRY All industries, total— INDUSTRY All industries, total— INDUSTRY All industries, total— Granite, rough dimension— Sandstone, crushed and broken— Granite, rough dimension— Sandstone, crushed and broken— Granite, rough dimension— Sandstone, crushed and broken— Marble, rough dimension— Fire clay— Feldspar— Cypeum— Feldspar— Feldspar— Cypeum— Feldspar—	Operating companies 5 Operating companies 5 1 2 Operating companies 41 26 1 1 1 1 1 1	DOLO Mine and quarries FREMONT Mines and quarries 48 31 5 1 5 1 5 1	l l l l l l l l l l l l l l l l l l l	Preparation plants 1 Operating companies 9 7 1	Operating companies 5	DOUGLAS Mines and quarries 3 1 1 1 Prepa- (ration)	Preparation plants 1 OHI per- ting a grompa quality states a second states	Operating companies 3 2 1 1	EAGLE Mines and quarries 3 2 1 Coperating compacts nies 6 1.7	Preparation plants OUNNISON Mines and quarries 16 12 2	Operating companies 3 3	ELBERT Mines and quarries 3 3 The state of the state o	ration plan NSDALE and quarries 1 1	Preparation plant	ating companies 12 9 1 2 1 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2	Mines and quarries 14 9 4 11 HUERFANC Mines and quarries ries 3 25 5 25	retion plants 2 11 11 Preparation plants

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

COLORADO-Concluded

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		JACKSOI	N	,	JEFFERS	ON		LAKE	· · · · · · · · · · · · · · · · · · ·		LA PLAT	A		LARINE	R		CINA BA	LAS
INDUSTRY	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Minas and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- sting comps- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prapa- ration plants
All industries, total-	3	5	1	15	19		1.7	18	3	12	12	1	7	6	2	59.	28	4
Matural gasoline— Bituminous coal— Lode gold— Placer gold— Copper ore— Lead ore— Hanganese ore— Molybdemum ore— Limestone, crushed and broken— Kaolin and ball clay— Fire clay— Common clay and shale— Feldspar— Gypsum—	1	1	1	1 3 6 2	1 6 8 3		12 1 1 2 1 1	15 1 2 1 1	2	9 5	9 5	1	1 1 3 1	1 1 1	1	27	27	1
		MESA			MINERAL			MOFFAT		1	ONTEZU	A.A.	ì	10ntrose			QURAY	
Incustry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- riss	Preps- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- riss	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total-	15	15	2	6	12	2	4	4		4	4	1	ı	2	1	6	7	4
Eitwaincus coal————————————————————————————————————	15	18		5	11	1 	4	4		2 2	8 21	1	1	1 1	1	5 5	3	
		PARK			PITKIN		T. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	PUEBLO		RI	O BLANC	xo	RI	O ORAND	3		ROUTT	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Preps- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	15	14	3	3	5	1	7	6	4	1	1		£	2	1	13	1.5	8
Bituminous coal— Lods gold— Placer gold— Silver ors— Grantte, rough dimension— Common sand and gravel— Foundry sand— Firs clay— Gommon clay and shale—	6 9	5 9	3	1 -2 	2	1	1 1 1 3 1	1 1 5 1	1	1	1		1	1	1	15	15	5
	S	AGUACHE		S	an juan		SA	N MIGUE	L		SUMMIT			TELLER			WELD	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- niss	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1		7	7	1	7	7	5	7	7	1	36	47	3	16	19	
Bituminous coal————————————————————————————————————	1	1		2 1	2 1	1	1 2	1 2	 3 1	1 3 2 1	1 3 2 1	1	36	47	5	18	19	

MINERAL INDUSTRIES

APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND PREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 19391—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

CONNECTICUT

		STATE	:			PAIRF	TELD			HART	FORD	
INDUSTRY	Operating companies			earstion ants	Operating companies			sparation plants	Operatin companie			reparation plants
All industries, total-	52		55	44	8		6	8	1	6	20	14
Limestone, orushed and broken————————————————————————————————————	18 18		4 1 4 1B	18	1		2	2		5	7	7
Common sand and gravel————————————————————————————————————	20		20 11 2 1	20			5	5	- 10 de 10 d	6 6	6 6	ě
	r,	TCHFIELD			MIDDLESEX			new haven			NEW TONI	ON
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Kines and quar- ries	Prepa- ration plants
All industries, total	4	4	4	6	6	1	15	19	14	5		8
Limestone, crushed and broken Granite, crushed and broken Granite, rough dimension Basalt, crushed and broken Sandstone, rough dimension	2 2 2	2 2	2 2	1	1		1 6	1 8	8	1 8	3	1
Common sand and gravel————————————————————————————————————				1 1 2 1	1 1 2 1	1	8 4	4	6	====		2

DELAWARE

		STATE			NEW CASTLE			SUSSEX	
INDUSTRY	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	9	9	7	8	В	6	1	1	1
Granite, crushed and broken————————————————————————————————————	1 4	2. 1 4 1	2 4 1	, 2 1 3 1	2 1 3 1	2 5 1	1	1	1

DISTRICT OF COLUMBIA

İNDUSTRY	Operating Companies	Mines and Quarries	Preparation Plants
All industries, total	2	2	
Common clay and shale	2	R	

(Exclusive of the crude-petroleum and natural-gas industry and centract-service and nonproducing operations)

FLORIDA

		s	TATE			ALACH	UA ·			BROWARD			CITRU	3			DADE	
INDUSTRY	Oper- ating		uu j	Prepa- ration	Oper- ating	and	rrepa	<u> </u>	per-	Mines and	Prepa-	Oper-	Mine	Pre	pa~ ∣	Oper- ating	Kines and	Prepa-
÷	compa nies			plants	nies			ی ا م	nies .	quar- ries	plants	compa nies		_	ion nta	compa-	quar- ries	ration plants
All industries, total	- 6	8	85	83	5		5	4	2	3	2	8		В	6	10	13	. 1
Bauxite Limestone, crushed and broken Limestone, rough dimension Miscellaneous stone, crushed	- 2	1 5 5	28 5	25				8 -	1	2	1	1		- 1	1	7	7	
and broken Common sand and gravel Kaolin and ball clay	- 1	5 5 2	5 16 2	16 2		=		- -	1	1			=		_		6	
Common clay and shale————————————————————————————————————		3 2 1	3 5 1	2 1				- -										
Phosphate Rock-	1	9	25	1 84	1		.	i =				6		ā	5			
		ESC	AMBIA			GADSD	ZK		н	SRNANDO		1	TLISBOR	опон		<u>-</u>	LAKE	
INDUSTRY	Oper- ating compa- nies	- qu	ar-	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa-	a	per- ting ompa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	reti	lon	Oper- ating compa-	Mines and quar-	Prepa- ration plants
All industries, total-	 	2 .	2	1	8	4	3		3	8	2	1.	Fies		2	nies	ries l	,
Banrits Limestone, crushed and broken Limestone, rough dimension Wiscellaneous stone, crushed	-				1	===	1	-	5	8	2	==						
and broken— Common sand and gravel— Esolin and ball clay—			1	1	1	1	1								= :			
Common clay and shale Fuller's earth Diatomite			1		1 1	1 2								_	_ :	1		
Phosphate Rock		: =						: =					1	_	2 :			
et une de la companya		Li	:VY			MANATE	E	,	×	ARION			MONROE		1		NASSAU	
INDUSTRY	Oper- ating compa-		id ir	Prepa- ration plants	Oper- ating compa-		Prepa- ration plants	at cc	ing mpa-	Mines and quar-	Prepa- ration plants	Oper- ating compa-	Mines and quar-	rrep	on s	per- ating	Mines and quar-	Prepa- ration
All industries, total-	nies 4	rie	4	4	nies 5	ries 5			10	ries	11	nies 1	ries	ļ <u>.</u>	-	nies	ries 1	plants 1
Bauxite								1_								4	*	
Limestone, crushed and broken Limestone, rough dimension Miscellameous stone, crushed and broken	4	_		4	1 2	l 2	1	_	4	5	5	1	1	-			=	
Common sand and gravel		=						=		2					= -	1	1	1
Common clay and shale————————————————————————————————————						===			1	1	1		===					
Phosphate Rook			.						5	5	5							
																		
raufin Drump Live gr		ORANGE		. 1	PINELLAS		1	POLK			PUTNAM		Si	ARASOTA			Sumter	!
Halling Community	Oper- ating compa- nies	ORANGE Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar-	Preparation plants	Oper- hating compa- c	(ines and quar-	Preparation	COMPR-	Mines and quar-	Prepa- ration plants	Oper- ating compa-	Wines and quar-	Prepa- ration plants	compa-	Mines and quar-	Prepa- ration plants
TNUSTRY	Oper- ating compa-	Mines and quar-	ration	Oper- ating compa-	Mines and	ration	Oper- hating compa- c	(ines	ration	ating	Mines and	ration	Oper- ating compa-	Mines and	Prepa- ration	ating	Mines and quar- ries	Prepa- ration plants
INDUSTRY All industries, total———————————————————————————————————	Oper- ating compa- nies	Nines and quar- ries	ration plants	Oper- ating compa- nies	Mines and quar- ries	ration plants	Oper- ating compa- nies	(ines and quar- ries	ration plants	ating compa- nies	Mines and quar- ries	ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	ating compa- nies	Mines and quar- ries	Prepa- ration plants
INDUSTRY All industries, total lauxite	Oper- ating compa- nies	Mines and quar- ries	ration plants	Oper- ating compa- nies	Mines and quar- ries	ration plants	Oper- ating compa- nies	(ines and quarries	ration plants	ating companies	Mines and quarries	ration plants	Operating companies	Mines and quar- ries	Preparation plants	ating compa- nies	Mines and quarries	Prepa- ration
INJUSTRY All industries, total descent of the stone, crushed and broken descent of the stone, crushed and broken descent of the stone, crushed and broken	Oper- ating compa- nies	Mines and quar- ries	ration plants	Oper-ating companies	Mines and quar- ries	ration plants	Operating companies	(ines and quarries	ration plants	ating companies	Mines and quarries	ration plants	Operating companies	Mines and quar- ries	Preparation plants	ating companies	Mines and quar- ries	Preparation plants

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

GEORGIA

			T			ECOLUTA									
		STATE		12.	BALDWIN	r		BARTOW			BIBB			HLECKLEY	
industry	Oper- ating comps- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prapa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total-	92	106	51.	1	1		16	1.5	13	4	4	2	1	1	8 1 18 1 1
Bituminous coal————————————————————————————————————	2 4 1 5 4 6 5 12 1 1 6 19 11 5	2 4 1 5 4 10 5 15 1 1 1 8 21 1 1 1	2 1 3 10 5 1 1 1 				3 4 1 1	2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 3		1	1	
Kyanite, andalusite, and dimortisrite Mica Tale and scapstone	2 1 4	2 1 5			==						,				- 100 miles
		CHEROKEE Dears			CLARKE	1		COLUMBIA			CRAWFORD			DADE	51.63 0 8
Industry	Oper- ating compa- nies	and quar-	Mines and quar-ration plants		Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1		nies 1	1	1	1	1		1	1	1	1	1	1.9 <u>.2008</u>
Rituainous coal— Granite, crushed and broken——— Common sand and gravel———— Kaclin and ball clay————————————————————————————————————		1		i	1	1 ===	0,1	1		1	1	1	1	<u></u>	
	903	DECATUR	r	112	DE KALB		1 1177 3 1 1 1 1 1	ELBERT			FLOYD			FULTON	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1	1	5	5	3	7	9		1	1		1	1	in Arragia Tali Ma sa
Granite, crushed and broken- Granite, rough dimension- Common clay and shale- Fuller's earth-	===	1	1	2 8	3	1	7	9		1	1		1	1 1	
		OILMER			GLASCOCK			GORDON			Hadersha	X		HALL	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total-	1	1	1	1	1		1	1		2	5	2	1	1	- All
Limestons, crushed and broken— Kaolin and ball clay— Common clay and shale— Kymite, andalusite, and dusortierite— Mica—	1		1	1			1	1		 	2 1	2	1.	1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	

APPENDIX A 219

APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND PREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 19391—Continued

(Exclusive of the crude-petroleum and natural-gas industry and centract-service and nonproducing operations)

GEORGIA-Concluded

															
		HANCOCK	,		HENRY			ноизто	ON .	3	COUPFIE	······		MADISON	· · · · · · · · · · · · · · · · · · ·
Yatsuuki	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies		Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	ration	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	2	2		1	1	1	5	4	3	1	1	1	1	1	
Lode gold— Limestone, crushed and broken— Granite, crushed and broken— Granite, rough dimension— Kaolin and ball clay—	1 1	1	=	1	1		2		: ==	1	1	1	1	1	
		MURRAY			MUSCOCKE		0	OLETHOR	PE .		PICKENS			POLK	
INDUSTRY	Oper- ating compa- nias	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies		Prepa- ration plants	Oper- ating compa- nles	Kines and quar- ries	Prepa-	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating ccapa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	5	5	5	1	1	1	l.]		4	4	1	2	2	2
Iron ore Limestone, crushed and broken Granite, rough dimension Marble, rough dimension Miscellameous stone, orushed and broken Common sand and gravel Tale and scapstone	3	3		1	1	 	1	3		1 1 1	1 1 1	1	1	1 1	1
INDUSTRY	Operatin	ε, .	nes	Prepa- ration	Operating		Pre rat	ا مەن	perating companies	TALBOT Wines	Prepa- ration	Opera	ting	AYLOR	Prepa- ration
All industries, total	companie	direr	ries :	plants 2	companies 5	dana	es pla	nts 3	2	quarries 2	plants 2		1 qu	arries	plants 1
Limestons, crushed and broken]		1	1	1 1 3		1 3	1 1	2	, z	2		1	1	1
		THO	MAS			TWICOS				WALKER			7	ARREN	
INDCSTRY	Operatir companie	8	nd	Prepa- ration plants	Operating companies		rat	ion (Operating companies	Mines and quarries	Prepa- ration plants	Opera	ting (lines and arries	Prepa- ration plants
All industries, total			3	3	4		4	4	3	3	3	L	1	1	1
Bituaincus cosl— Iron ore— Limestone, crushed and broken— Granite, crushed and broken— Common sand and gravel— Kaclin and ball clay— Fuller's earth—			3	5	5 1		3 1	5 1	1 1 1	1 1			1	1	1
		WASE	нотон			WHIT	l		1	WHITFIELD			WII	KINSON	
Iniustri	Operati compani	18 (ind	Prepa- ration plants	Operating	Mine e and guarri	rat		Operating companies	Mines and quarries	Prepa- retion plants	Obeta	Ling	lines and marries	Prepa- ration plants
All industries, total		5	3	. 3	3		3		1	1			8	8	4
Flacer gold Kaolin and ball clay Common clay and shale Fuller's earth		5	8	3	5	*********			1	1			7	7	3

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

IDAHO

		STATE			ADA	.		ADAMS			BANNOCK			BLAINE			BOISE	
industry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total-	98	105	48	ı	1	1	ı	1		3.	1	1	5	5	1	9	9	4
Bituminous coal Lode gold Placer gold Silver ore Copper ore Lead ore Zinc ore Mercury Tungsten ore Limestone, crushed and broken Cosmon sand and gravel Fire clay Phosphate rock	1 56 25 9 1 15 9 2 1 5 1 1 1 1	1 35 27 8 1 16 8 1 1 4 1	25 5 9 3 1 1 4 1		1			1					2	1	1	5 4	5 4	
		BONNER		1	OUNDARY			CAMLAS			сундон			CARIBO	U		LEARWAT	TER.
Industr i	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Frepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total-	3	5	2	2	2	1	1	1		1	1_		1	1	1	5	4	
Bituminous coal Lods gold Placer gold Silver ore Copper ore Lead ore Zinc ore Marcury Tungsten ore Limestone, crushed and broken Common sand and gravel Fire clay Phosphate rock	1 2	1 2	2	1	1	1	1			1						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	
		CUSTER	L		ELMORE			CEN			IDAHO			Kootena	ı		LATAH	
industri	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants	a tang	Mines and quar- ries	Preparation		Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa-		Mines and quar- ries	Preparation plants
All industries, total	7	7	1	5	5	2	1	1	1	19	21	7	1	1	1	1	1	
Hituminous coal Lode gold Flacer gold Silver ore Copper ore Lead ore Zinc ore Mercury Tungsten ore Limestone, crushed and broken Common sand and gravel Fire olay Phosphate rock	3 1 1 2 2	1	1	2 5	2 5	2	1	1	1	8 12	8 13	7	1					
	T	LEMH	<u> </u>		OMTHE	:	T	SHOSHO	IE .		TETO)	·		VALLE	T	1	WASHING!	ON
industry	Oper- ating compa nies	and quar	ration	Light	Mines and quar- ries	repa-	a crink	- quar	repa	a carrie	- quar-	ratio	2 SOUTH	and quar	ration	T Service	- quar-	ration
All industries, total-	9	9	6	5	4	1	21	2.5	1,5	1	1		. 2	٤	1	2	1	1
Bituminous coal Lode gold Placer gold Silver ore Copper ore Lead ore Zinc ore- Mercury- Tungsten ore Limestone, crushed and broken- Common sand and gravel Firs clay Phosphate rock-	1	1		2 5	3	1	7 7 7	1 6 .10		1	1		2	2		2	1	

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ILLINOIS

		·				PPTMOK	<i>-</i>								
		STATE			ADAMS			ALEXANDER			BCND			BOONE	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Kines and quar- ries	Prepa- ration plants	Oper- ating compa- nics	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nica	Mines and quar- ries	Prepa- ration plants
All industries, total	749	785	287	6	7	B	4	6	4	2	2	1	1	1	1
Natural gasoline Bitusinous coal Limestone, crushed and broken Limestone, rough dimension Miscellaneous stone, crushed	22 528 65 1	548 71 1	55 45 70	1 4	1 5	5				1	1				
and broken Common sand and gravel Class sand Poundry sand Fire slay	2 61 1 15 8	2 73 1 19 10	2 75 1 17 5	1	1	1	1	1	1 1		1	1			
Common clay and shale————————————————————————————————————	30 2 18 2	36 2 18 4	8 2 15 2				2		2				1	1	1
		BUREAU	<u> </u>		CARROLL			CASS			CHRISTIAN	l i		CLARK	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nics	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	10	10	5	1	1	1	1	1	1	4	7	1	5	5	5
Bituminous coal	5 2 3	5 2 3	2 3		1	1	1	=======================================	1	4	7	1		5	5
		CLINTON			COOK			CRAWFORD		C	UMBERLAND)		DU PAGE	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nics	Mines and quar- ries	Prepa- ration plants
All industries, total	4	4	2	15	17	6	18	2	43	1		1	2	4	4
Natural gasoline Bituminous coal Limestone, grushed and broken Limestone, rough dimension Common sand and gravel Common clay and shale	2 2	2 2	2	 4 1 1 9	5 1 1 10	5 1	16 1 	1 1 1	1	1		1	1 	1 3	1 5
		EDGAR			EDWARDS			FAYETTE			PRANKLIN	<u>,</u>		FULTON	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	3	3		ı	2		4	4	5	6	12	8_	59	80	5
Natural gascline Bituminous coal Common sand and gravel Foundry sand Common clay and shale	5	5		1	2		1 1 1 1	1 2 1	1 · · · · · · · · · · · · · · · · · · ·	6	12	8	58 1	59 1	4 1
		GALLATIN	•		GREENE			CRUNDY			HAMILTON			HANCOCK	
Industry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	5	5	1	4	4	2	7	8	1	1	1	1	٤	£	1
Bituminous coal————————————————————————————————————	4	1	1.	1 2 1	1 2 	2 	1	51	1	1	1	1	1 1	1	1

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ILLINOIS—Continued

							i t muec						···		
		HARDIN		1	ENDERSON			HENRY			JACKSON			EPPERSON	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	19	20	14	4	4	4	1.5	14	1	15	15	3	1	1	
Bituminous coal	2	2	2	2 1 1	2 1 1	2 7	15	14	1	1.5 1.	15	2	1	1	
coundry sand										1	1				
'luorspar	17	18	12								******		***************************************		
		Jersey			JOHNSON			KANE		1	KANKAKEE			KENEALL	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating sompa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	٤	2.	٤	5	5	5	2	2	2	5	5	2	٤	2	2
Limestone, crushed and broken————————————————————————————————————	2	2	2	5	3	8	 		2	1 1 3	1 1 8	1	1 1	1	1
1		KNOX	### ### ###		TYKE	·		LA SALLE	<u> </u>		LAWRENCE	<u> </u>		LEE	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Minss and quar- ries	Prepa- ration plants
All industries, total	10	1.0	1	1	1	2	54	57	21	7	5	9	5	8	2
Natural gasoline Bituminous coal Limestone, crushed and broken- Common sand and gravel Glass sand Foundry sand Fire clay Common clay and shale	9	9	1	1	1	1	18 4 7 1 5 5	12 4 7 1 7 8 5	1 4 7 1 6	3	8	8	2 1	2 1	======================================
		LIVINGSTON	l		LOGÁN			Medonouc	H		MCHENRY	W-110-14		MOLEAN	
Industry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	- 6	6	3	4	4	2	2	4	j	3	3	5	2	٤	2
Bituminous coal. Limestone, crushed and broken- Common sand and gravel Fire clay	8 3	5 8	3	2 1 1	2 1 1	1 1	2	4		1 2	1 2	1 2	2	2	2
		MACON			MACOUPIN			MADISON	1		MARION			WARSHAL	6
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	2	2	ı	10	12	1	22	25	В	3	l	5	1	1	
Natural gasoline Bituminous coal Limestone, crushed and broken- Occmon sand and gravel Fire clay Common clay and shale	1	1	1	10	18	1	18 2 1 1	18 2 1 1	2 2 2 1 1	2 1	1	2 1	1	1	

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

ILL INOIS-Concluded

		MAS	BAC	ĺ		MENARD	,			MERCER		ŀ	MONROE			MOI	TCOMERY	
The state of the s	Oper- ating compa- nies	Min an qua rie	i re	epa- tion ants	Oper- ating compa- nies	Mines and quar- ries	Prep rati plan	on a	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa ratio	n at	ing mpa-	fines and quar- des	Prepa- ration plants
All industries, total	1		1	1	12	12		1	8	8		3	4		4	3	5	
Bitusinous coal————————————————————————————————————	1		1 -	1	10 1	10		i -	7	7		3	4			3	5	
Control of the Contro		MOR	DAN			OGLE				PEORIA	<u></u>		PERRY	·			PIKE	
Industry	Oper- ating compa- nies	Min an qua rie	r- ra	repa- ition ants	Oper- ating compa- nies	Mines and quar- ries	Prepa ratio plant	n a	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Preparation plant	on at	ing mpa-	dines and quar- des	Prepa- ration plants
All industries, total	2		1 -		3	3		8	52	51	7	. 23	22		5	1.	1	1
Rituminous coal————————————————————————————————————	2		1 -		3			3	45 3 4	44 5 4	3 4	22 1	21 1		1		ì	
managara managara		PO	PE			PULASK	I .		1	RANDOLPH			ROCK ISL	AND		st	CLAIR	:
INDUSTRY	Oper- ating compa- nies	Min an qua rie	a re	repa- ation lants	Oper- ating compa- nies	Mines and quar- ries	Prepa ratio plant	n s	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Preprati	on at	ing mpa-	des duar- and dines	Prepa- ration plants
All industries, total	1			1	2	2		2	1.4	14	Б	1.0	11		8	97	58	đ£
Bituminous coal- Limestone, crushed and broken- Common sand and gravel Gomnot alay and shale- Fuller's earth	1			1	2	2		- -	גנ 1 1	12	3 1 1 	5 1 4	5	ı	_ _		51 5 8	9 5
. Ass		SALINE			Sangamon		S	CHUYLE	व्र		SCOTT			SHELBY	-	, ''	STARK	
INDUSTRÝ	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	ratio	on atin	and - quar-	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- rles	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	17	22	3	22	26	2	10	1.0			5 5	1	5	. 5		6	5	
Bituminous coal————————————————————————————————————	16 1	21 1	3	18 2	22 2	 8	10	10		-	1 1 1 1 1	1	5	5		6	5	
William Canada		AZEWELL			NOINU		l	ERUI LI			WABASH	<u> L.</u>		WARREN	 		 	ON
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants		Mines and	Prepa - ration plants	Oper- ating compa- nies	Mines and quar- ries	Preparation	on atin	- Mines g and a- quar-	- <u>r</u>	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepatration plants
All industries, total	10	10	- 6	1.	1	1.	55	54		2	7 6	3	3	5	1	7	7	5
Matural gasoline————————————————————————————————————		4 5 1	5 1	1	= 1 =	1	58 1	51 1 		1	2 2	1 2	2 1	2 1	1	5 2	5 2	1 2
And the second s		WHITE			WHITESID	E		WILL			WILLIAMS	ION	N	INNEBAG	0		WOODFOF	RTD.
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Preparation		Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	ratio	on atin	g and	re til on	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	4	4	3	3	3	5	8	9		7 7	3 69	1.	8	8	6	8	3	1
Bituainous coal————————————————————————————————————	1 8	1 8	3	1 2	1 2	1 2	2 2 2 2 2	2 2 3 2	'	1 7 2 3	3 69	1	5 1	 5 1	5 1	2	2	1
					استنبا									***************************************				

See footnotes at end of table.

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

INDIANA

				INDI	VIAV									
	STATE			ADAMS			ALLEN	· · · · · · · · · · · · · · · · · · ·	BJ	ARTHOLOM	EW		CASS	
Oper- ating compa- nies	Mines and quar- ries	Prepa- retion plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating comps- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- niss	Mines and quar- ries	Prapa- ration plants
408	455	153	3	4	4	2	2	2	2	2	2	3	3	
248 57 14 54	266 70 16 62	16 63 	2	3	<u>-</u>				<u>1</u>	1	1	2	2	
6 19 2	6 9 19 2	1 2												
	CLARK			CLAY			GRAWFORE)		DAVIESS			DEA RBOI	
Oper- ating compa- nies	Mines and quar- ries	Prepa- retion plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating comps- nies	Wines and quar- rics	Prepa- ration plants	Oper- ating compa- nies	Kines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
4	5	4	46	46		1	1	ı	9	9	2	2	2	
4	5	4	42 2 2	42		1	1	1	7 1 1	7 1 	1	2	2	2
	DECATUR			DE KATE	<u> </u>	<u> </u>	T A WA DE			DIROTE	<u> </u>			<u></u>
Oper- ating compa-	Mines and quar-	Prepa- ration plants	Oper- ating compa-	Mines and quar	Prepa- ration	Oper- ating compa-	Wines and quar-	Prepa- ration plants	Oper- ating compa-	Mines and quar-	Prepa- ration	Oper- ating compa-	Mines and quar-	Preparation
В	В	8	1	ļ	1			4					<u> </u>	ļ
8		8	1	1	1	1 3	3	3	5 2 4 1	5 2 4 1	2	1	1	1
	FAYETTE	<u> </u>		FLOYD	<u></u>	F	OUN TAIN	l	,	PRANKLIN			OTRSON	
Oper- sting compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- sting compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration planta	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
1	1	1	1	1	1	1.4	14	1	1	1	1	6	8	
1	1	1	1	1	1	11	11	1		1	1	1	1	1
	GRANT			GREENE		Н	IAMILTON	···		HANCOCK			HARRISO	1.
Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
4	4	4	28	33	6	1	1	1	1	1	1	4	4	4
										1		-		
	sting compa- nies 408 248 57 14 54 6 9 19 2 Oper- ating compa- nies 6 Oper- ating compa- nies 1 Oper- ating compa- nies 1	Operating companies B B TATETTE Operating companies and quarries A 57 70 14 16 54 87 86 9 9 9 19 19 2 2 CIARK Operating companies and quarries B B TATETTE Operating companies B B TATETTE Operating companies A 5 8 TATETTE Operating companies A 1 1 TATETTE Operating companies A B TATETTE Operating companies	Note	Operating companies Add Add	STATE	Operating State Preparation Comparating Comparat	Comparation of the proper of	STATE	Comparison Com	STATE	STATE	Name	Control Cont	

APPENDIX A

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APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND PREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 19391—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

INDIANA—Continued

		HENRY			HOWARD		ни	ntington ·	!		JACKSON		,	JASPER	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines. and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1	ı	ı	1	1	3	3	2	3	3	1	1	1	1
Bituminous coal	1			1	1	1	2 1	2 1	1 1		 		1	1	1
Foundry sand										2	2				
		JAY	<u> </u>	J	EFFERSON		J	ENNINGS			KNOX		ĸ	osciusko)
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	2	2	1	1	1	1	1	1	1	16	1.6	. 4	2	2	2
Bituminous coal	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
		LAKE	L	L	A PORTE	<u></u>	. I	AWRENCE			MADISON			MARION	Artic Landson
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and- quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	4	4	2	2	2		3	4	2	3	4	3	5	7	6
Bituminous coal— Limestone, crushed and broken— Limestone, rough dimension— Common sand and gravel— Foundry sand— Fire clay— Common clay and shale— Natural abrasives—	1 1 2	1 1 2	1 1	2	2		1 2	2 2	2	1 	1 3 	3	4	6	6
	h	iarshall			MA RTIN			MIAMI		1	MONROE			ION TG OME	RY
INDUSTRY	Oper- ating compa- nics	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1		6	в	1	2	2	2	13	14	1	. 2	2	1
Bituminous coal- Limestone, crushed and broken- Limestone, rough dimension- Common sand and gravel- Foundry sand- Fire clay- Common clay and shale- Natural abrasives-	1	1		5 1	5 1	1	2	2	2	1 12	1 13	1	1	1	1
		MORGAN			NEWTON			ORANGE			OWEDN	,		PA RKE	·
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plents	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants		Nines and quar- ries	Prepa- ration plants
All industries, total	4	4,	1	1	1	1	3	3	2	6	6	3	13	18	
Bituminous coal Limestone, crushed and broken Limestone, rough dimension Common sand and gravel Fire clay Common clay and shale Matural abrasives	1 3	1 3	1	1	1	1	2	2	1 1	2 2 1 1	2 2 1 1	1	13	13	

(Exclusive of the crude-patroleum and natural-gas industry and contract-service and nonproducing operations)

INDIANA-Concluded

				INDIAN	IACo	nclude	ed								
		FERRY			PIKE			PORTER			POSEY			PUTNAM	
INDUSTRY	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nics	Mines and quar- ries	Prepa- ration plants
All industries, total	8	8	1	19	20	2	1	1	1	2	2	2	3	3	3
ituminous coal	6	6		19	20	2									
imsstone, crushed and brokenimsstone, rough dimension	1	1	1							1	1	1	3	5	3
comon sand and gravel			`				1	1	1	1	1	1			
oundry sand	1	1													
common clay and shale															
					<u> </u>			<u> </u>	<u></u>			<u> </u>	<u> </u>	<u></u>	
	R	ANDOLPH			RIPLEY			RUSH		ST	. Josefi	ī		SCOTT	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prapa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Preps- ration plants
All industries, total	2	2	2	4	4	4	ı	1	1	2	2	2	1	1]
Bituminous coel								;							
Limestone, crushed and broken	2	2	2	4	4	4		1	1				1	1	
Common sand and gravel										2	2	2			
Foundry Sand															
Common clay and shaleYatural abrasiyes															
			<u> </u>		<u> </u>			\	<u></u>		<u> </u>	<u> </u>		<u> </u>	<u> </u>
	SHELBY Oper- Nines D				SPENCER			STARKE	·	8	BULLIVAN	·	1	TPPECANO	OE .
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants												
All industries, total	2	2	2	6	6	2	1.	1	2	24	24	3	1	1	1
Bituminous coal-			T	4	4					25	23	2			
Limestone, crushed and broken															
Common sand and gravel	2	2	2				1	1	1	1	1	1	1	1	
Fire clay				2	2	2									
Common clay and shaleNatural abrasives															
	V	NDERBUR	 DH	v	ERMILLIO	<u></u>	-	AIGO	<u> </u>		WABASH	<u> </u>		WARREN	
TINIOTOY	ļ .	y	T	 	Ţ	·	ļ	· · · ·	γ		1	1		1	1
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prapa- ration plants	Oper- ating compa- nies	Mines and quar- riss	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants
All industries, total	5	. 5	3	17	18	4	37	36	5	4	4	2	7	Б	
Bituminous coal	1	1		12	13		33	32	2				5	3	
Limestone, crushed and broken										4	4	2		*****	
Common sand and gravel	3	3	3	3	3	3	3	3	3				2	2	
Fire clay				2	2	1									
Common clay and shale	1	1					1	1							
		WARRICK		W	ASHINGTO	n		WAYNE		1	WELLS			WHITE	
Industry	Oper-	Lines	T	Oper-	Kines	T	Onex	Mines	T	Open		1	Oper-	Vines.	
	ating compa- nies	and	Prepa- ration plants	ating compa- nies	and	Prepa- ration plants	Oper- ating compa- nies	and quar- ries	Frepa- ration plants	oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	ating	and	Prepa- ration plants
All industries, total	29	29	1	2	2	1	4	4	4	2	2	2	2	2	
Bituminous coal	29	29	1												
Limestone, crushed and broken				2	2	1				2	2	2	2	2	i i i i i i i i i i i i i i i i i i i
Common sand and gravel	·						4	4	4						
Fire clay-	1														
Common clay and shale	1														
	1									1	1				عتسا

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

IOWA

						1												
		STA TE			ADAMS		1	PPAN OOS	E		BENTON		BI	ACK HAV	K		BOONE	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	365	383	91	10	10	1	55	57		1	1	1	4	4	4	15	14	1
Bituminous coal- Limestone, crushed and broken- Common sand and gravel- Foundry sand Cowmon clay and shale- Cypsum- Feat-	264 38 33 1 20 9	271 38 43 1 20 8	35 43 1 5 5	9 	9	1	1	56 1		1 	1	1	1 8	1 8 	1 3 	14	13	1
		BREMER			BUTLER			CARROLL		C	erro gof	DO		HEROKEE)		CLARKE	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Frepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1	1	1	1	1	1	1	1	6	7	. 6	2	2	2	1	ı	1
Bituminous coal— Limestone, crushed and broken— Common sand and gravel— Foundry sand— Common clay and shale— Common Peat— Peat— Bituminous coal— Bitumino		1	1	1	1	1	1		1	2	3 2 2	3 2	2	2	2	1	1	1
		CLAYTO	1		CLINTON			DALLAS			DAVIS		DE	S MOINE	s	Г	ICKINSC	N
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	2	2	1	2	2	2	7	7	l	1	1		1	1	1	1	1	1
Bituminous coal— Limestone, crushed and broken— Common sand and gravel— Foundry sand— Common clay and shale— Oppsum— Feat—	1	1 1	1	2	2	2	3 1 3	3 1 3	1	1			1		1	1	111111111111111111111111111111111111111	1
		DUBUQU	<u> </u>		EMMET			FAYETTE			FLOYD		F	RANKLIN			OREENE	
All surgery and the surgery an	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	2	2	2	1	1	1	1	1	1	1	1	1	1	1		5	.5	
Bituminous coal— Linestone, crushed and broken— Common sand and gravel————— Foundry sand————————————————————————————————————	1 1 	1 1 	1 1	1	1 ====================================	1	1	1	1	1	1 	1	1	1		5	5	200
The second secon		GUTHRI	3		HARDIN		H	UMBOLDT			IOWA			JACKSON			JASPER	
IN DUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	4	4		3	3	3	1	1	1	1	1		4	4	4	5	5	
Bituminous coal Linestone, crushed and broken— Common sand and gravel— Foundry sand Common clay and shale— Coppeum— Peat————————————————————————————————————	4	4		2 1 	2 1 	2 1	i	1	1	1	1		2 2 2	2 2	2 2	5	5	

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

IOWA-Concluded

						LOW	A—Co	nerua	ea									
	JI	FFERSON			JOHNSON			JONES			KEOKUK			LINN			LUCAS	-
Industry	Oper- ating compa- nics	OUAT-	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating comps- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Cper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1		3	3	3	3	3	2	2	2.	ı	S	6	5	6	6	
Hituminous coal	1 	1		1 2	1 2	1 2	3	 3 	2	1	1	1	4 2	 4 2	3 2	5	6	
Foundry sand]		1	1							
Cypeum																		
		LYON			MADISON			KAHASKA	<u> </u>		MARION		<u> </u>	ARSHALI			CTCHEL:	<u> </u>
Industry	Oper-	Mines		Oper-	Wines	T	Oper-	Mines	T	Oper-	Mines	1	Oper-	Mines	<u> </u>	Oper-	Mines	
INDUIN	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants
All industries, total	1.	1	1	1	ı	1	26	: 26	2	59	59		4	5	5	1	1	1
Bituminous coal-							23	, 23		59	59	;						
Limestone, crushed and broken Common sand and gravel		1	<u>_</u>	1	1	11	. 1	1	1 1				2 2	3	3	1	1	1
Foundry sand							1	1										
Oypaus-Peat-	}	'															*	
Past		<u> </u>			<u> </u>			<u> </u>										
		MONROE			MUSCA TE	NE		OSCEOL	ı		PAGE			POLK			SAC	
indus t ry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	wortig	Mines and quar- ries	Prepa- ration plants												
All industries, total	16	16		4	4	4	1	1 1	1	5	В		20	20	4	2	2	2
Bituminous coel Limestone, cruehed and broken— Common sand and gravel— Foundry sand Common clay and shale— Gypaus— Gypaus— Feat— Fea		16		1 3 	1 3 	1 3	1	1	1	5	8		15 4 5	13 -4 -3 	4	2	2	2
764.7		L					<u> </u>						ļ					
		SCOTT			SIOUX	:		TAYA			TAYLOR			VAN BUR	JEN		WAPELL	0
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	W.TUB	Mines and quar- ries	ration		Mines and quar- ries	ration	acing	Mines and quar- ries	retion		Mines and quar- ries	ration	LONDS-	Mines and quar- ries	Prepa- ration plants
All industries, total-	- 2	2	2	1	1	1	1	1.	1	3	3		7	8	2	29	29	2
Bituminous coal- Idmestone, crushed and broken- Common sand and gravel-		5	2						1	3	3		5 1 1	6 1 1	1	27 1	27 1 1	
Foundry sand	1																	
Peat														:				
	1	WARREN		╁═╴	WASHING!	אסא	†	WA YN	<u></u>	-	WEBSTE		1	WOODBUI	<u></u>	+	WCRT	
		1	1		Τ.	· · · · · · ·						1		Т			- T	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	nomne.	Mines and quar ries	ratio	1 COMDS	- quer-	retion	1 COMPA	- quar-	retion	T WOTHE	Mines and quar- ries	ratio	u gombe	- quar-	Prejan
All industries, total	6	6		1	1	1	5	5		18	17	9	2	2		3	5	
Bituminous coal- Limestone, crushed and broken- Common sand and gravel- Foundry sand- Common clay and shale- Gypeum- Pest-		6		1	1	1	5			4 1 4 9	4	3	2			1		
			L	. 1			1	_ i		_l								

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

KANSAS

		STATE ²			ALLEN			NDERSON			ATCHISON			BARBER	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Kines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	210	212	124	3	3	2	1	ı	1	1	1	1	2	1	
Natural gasoline Etuminous coal Zinc ore Limestone, crushed and broken Limestone, rough dimension Sandstone, crushed and broken Common and and gravel Common clay and shale	11 91 26 25 7 1 35	98 26 27 7 1 38 8	18 6 20 24 2 1 38	2	2	2	1	1	1	1	1	1	1		
Oypeum- Mative asphalt and bitumens Natural abrasives Pyrites Rock salt Tripoli	2 1 3 1 5	3 	2 1 3 1 5 1										1	1	
and the second s		BARTON			BOURBON			BUTLER		(HEROKEE			CLOUD	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- rles	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total-	. 2	2	2	5	5	2	3	3	3	40	39	24	1	1	
Bituminous coal— Zinc ore Limestone, crushed and broken— Common and and gravel— Common clay and shale Pyrites— Tripoli—	2	2	2	1	1 = = = = = = = = = = = = = = = = = = =	1	3	3	 3	11 26 1 1	11 26 1	20	1	1	
The state of the s		COWILIEX			RAWFORD		D	ONIPHAN			DOUGLAS			ELK	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total-	7	4	4	43	43	5	2	2	1	1	1	1	1	1	
Natural gasoline— Bituminous coal— Limestone, crushed and broken————————————————————————————————————	3 3 1	 8 1	3 1 	42	1	3	1 1 1	1	1 	1	1	1	1	1	#
an a	E	LLSWORT	H	F	RAN KIIN	. 10-		GEARY.		·	REENWOOD)		HARPER	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	2	2	2	5	5	1	1	1	1	2		4	1	1	
Naturel gasoline————————————————————————————————————	2			4 1	4 1 	1	1	1	1	2		4	1	1	
		HARVET			JEWELL			JOHNSON			KINGMAN			LABETTE	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nnies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1	1	1	1		5	5	4	1		1	5	5	
Natural gasoline Bituminous coml Limestone, crushed and broken Limestone, rough dimension Common sand and gravel		=======================================		1	1		1 2 2	1 2 2	1 1 2	1		1 	4	4 1	

MINERAL INDUSTRIES

APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND PREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 19391—Continued

(Exclusive of the orude-petroleum and natural-gas industry and contract-service and nonproducing operations)

KANSAS-Concluded

						L'UND!	rsco	MICI U	1ea									
	LE	A A EM A O B	тн		LINCOLN			IINN			LYON		ע	oPHERSC	N		Marshal	L
INDUSTRY	Oper- ating comps- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants												
All industries, total	2	2		1	1	1	9	9	1	1	1	1	2		2	5	3	3
Natural gasoline Bitualnous scal Limestone, prushed and broken— Sandstone, prushed and broken— Common sand and gravel Oyssum— Native asphalt and bitusens—	1 1	1 1	49 7444	1	1	1	9	8 1	1	1	1	1	5		2	2 1	2 1	2
		MEADE		МС	NTOOMER	ar a		OHEOSIN		ļ	NORTON	İ		OSAGE			PAWNEE	: 2 ⁷³
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nids	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants									
All industries, total	2	2	2	3	8	2	2	3	2	1	1	1	18	19		1	1	1
Bitumincus coal————————————————————————————————————	2	2	2	1 2	1 2 	1 -1 1	1	2 -1	2	1	1		18 	19 		1	1	1
	,	PHILLIPS	3		RENO			RIGE			HI LEY			SALINE			SEEXIWI	OK .
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1		В	4	7	5	4	4	1	1	1	1	1	1	7	6	7
Natural gasoline Limestone, crushed and broken Common sand and gravel Rock salt	1	1 ==		2 	3 1	3 3 1	2 3	2 2	2 2	1	1	1	1	1	1	6	6	6
•		SEWARD			SHAWNE	E		STEVENS	3		SUMMER			WILSON			TYANDOT:	TE
INDUSTRY	Oper- ating compa- nies	Mines and quar- riss	Frepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Frepa- ration plants	Oper- ating compa- nies	Wines and quer- riss	Prepa- ration plants
All industries, total-	1		1	7	8	В	- 1		1	3	2	3	2	3	2	В	9	9
Natural gasoline Liseatone, crushed and broken- Common sand and gravel- Common clay and shale-	1		1	4 4	4 4	4 4	1		<u>1</u>	1 2	2	1 2	1 2	 1 	1 1	3 5	5 6	3 6

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

KENTUCKY

						NTUCKI									
		STATE			ALLEN			anderson			BARREN			BELL	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total-	544	613	126	1	1	1	1	1	1	1	1	1	49	43	1
Natural gasoline	4		6												
Bituminous coal Zinc ore Limestone, crushed and broken	424 1 45	478 1 56	12 1 56	1	1	1	1	<u>-</u>	1	1	1	1	49	49	1
limestone, rough dimension	1 2	1 2													
Common sand and gravel	10 3	12 3	12 1												
Kaolin and ball clay-	10	14	R												
Common clay and shale Fluorspar Native asphalt and bitumens	30 30	9 30 3	2 32 2									~~~~			
											<u> </u>		I		
Timbony		Boyp	1		BOYLE	r—أ		BREATHITT			BECKINRIDO	DE .		BUTLER	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration planta	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total-	11	10	1	1	1	1.	4	4		2	R	5	в	6	
Natural gasoline	1 9	8	. 1												
Limestone, crushed and broken	1			1	1	1	4	4		2	2	2	8	6	
		CALDWELL			CAMPBELL	<u> </u>		CARROLL			CARTER	<u> </u>		CHRISTIAN	
INDUSTRY	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Minea	Prepa-	Oper-	Mines	Prepa-
endigen en egener en egene	ating compa- nies	and quar- ries	ration plants	ating compa- nies	and quar- ries	ration plants	ating compa- nics	and quar- ries	ration plants	ating compa- nies	and quar- ries	ration plants	ating compa- nies	and quar- ries	ration plants
All industries, total	6	5	5	1	1		1	1	1	14	18	4	8	5	2
Dituminous coal-	i	1								5	5			3	
Limestone, crushed and broken	1	1	1	7			i	1	1	2	<u> </u>	. 8	2	2	2
Foundry sand Fire clay Fluorspar		3		1	1					1 8	11	1			
	*		<u> </u>												
		CLARK			CLAY	,		CLINTON	,	0	RITTENDEN			PAVIESS	
INDUSTRY	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar~ ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	. 2	1	2	9	9		1	1	1	22	19	20	17	18	1
Natural gasoline	1		, 1												********
Bituminous coal Limestone, crushed and broken Common clay and shale	1	1	1	9	9		1	ī	1	1	1	1	16	17	
Fluorspar										21	18	19	1	1	1
		EDMONSON			ELLIOTT	,		FAYETTE			FLEMING			FLOYD	ing e type
2000 INDUSTRY	Oper- ating	Mines and	Prepa- ration	Oper- ating	Mines and	Prepa-	Oper- ating	Mines	Prepa-	Oper- ating	Mines and	Prepa-	Oper-	Mines and	Prepa-
製作品、0人上、17	compa- nies	quar- ries	plants	compa- nies	quar- ries	ration plants	compa- nies	quar- ries	ration plants	compa- nies	quar- ries	ration plants	compa- nies	quar- ries	ration plants
All industries, total-	2	2	2	1	1		3	8	2	l	1	J	20	23	3
Bituminous coal Limestone, crushed and broken-		التحصيا		1	1		 2	<u>2</u>		<u>-</u>	<u>-</u>		20	23	3
Limestone, rough dimension	2	2	2					<u>1</u>				1			
Manager and the second				·	<u> </u>		L	<u> </u>		L	ــــــــــــــــــــــــــــــــــــــ	L	للتنسنا	لحنسا	

See footnotes at end of table.

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

KENTUCKY-Continued

		FRANKLIN			FULTON			GRAVES			CERAYSON			GREENUP	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	idines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	2	2	2	1	3	3	4	4	2	2	2	1	5	5	
Bituminous coal————————————————————————————————————	2	2	2	1	3	. 3	4	4	2	1		1	5	3	
		HANGOCK			HARDIN		The last of the la	HARLAN		7	HARRISON			HENDERSON	-
Industry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- sting compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	3	8	1	2	3	2	42	52	3	1	1	1	13	15	1
Bituminous coal Limestone, crushed and broken Common sand and gravel Common clay and shale	1 1 1	1 1 1	1	1	2 1	<u> </u>	42	52		1	1 ===	1	12		1
		HOPKINS			JACKSON			JEFFERSON	l		JESSAMINI	3		COHNSON	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Frepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	48	52	1	9	9	1	10	10	7	1	1	1	4	4	
Bituminous coal Limestone, crushed and broken— Common eand and gravel— Foundry sand— Common clay and shale——————	48	52	1	8 1	8 1 	1	4 3 1 2	4 5 2	4 3	1	1	1	4	4	
		KNOTT	<u> </u>		KNOX	<u></u>		IAUREL	I		LAWRENCE	<u>L</u>		LEE	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nice	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	4	4	1	9	9	1	12	15		1	1		9	8	2
Natural gasoline————————————————————————————————————	4	4	1	8	8 1	1	12	13		1			1 7 1	7 1	1
		LETCHER			LIVINGSTO	N		LOGAN			Mooracke	n		Mocreary	
INDUSTRY	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	15	20	1	8	9	9	2	2	5	2	2	2	5	8	
Bituminous coal- Limestone, orushed and broken- Common sand and gravel- Fluorapar-	15	20	1	1 7	1 8	1 8	2	2	2	2	2	2	5	8	
-		Molean			MAGOFFIN			MARION			MARTIN			MEADE	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	4	4		1	1		1	l	1	4	8	1	1	1	
Natural gasoline Eituminous coal Limestone, crushed and broken	4	4		<u>i</u>	1		1			1 5		1	1	1	

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

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		MENI	FEE			MERCER				MORGAN			MUHLENBE	RG				
INDUSTRY	Oper- ating compa- nies	Min an qua rie	d r-	repa- ation lants	Oper- ating compa- nies	Mines and quar- ries	Prepa ratio plant	n a	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Preparation plant	on a	per- ting ompa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1		1	1	ĸ	1		2	1	1		28	31		1	ì	1	1
Bituminous coal	1.		1	1	1	1		- 1 1	1	1		27	30		1 -	i 1	1	1
		NICH	OLAS			OHIO				OLDHAM			OWSLEY				PERRY	
INDUSTRY	Oper- ating compa- nies	Min an qua rie	d r	repa- ation lants	Oper- ating compa- nies	Wines and quar- ries	Prepa ratio plant	n a	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa ratio	on a	per- ting ompa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1		1	1	14	13		4	1	1	1	2	2			26	32	
Natural gasoline	: 1		1	i	1 11, 2	11 2		2 -	1	1		2	2		-	26	52	
		PI	KE			POWELL	1			PULASKI		, . 1	ROCKCASTI	LE			ROWAN	
INDUSTRY	Oper- ating compa- nies	Min an qua	d r	repa- ation lants	Oper- ating compa- nies	Mines and quar- ries	Prepa ratio plant	n s	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa ratio plant	n a	ing mpa-	Mines and quar- ries	Frepa- ration plants
All industries, total	31		35	1	ñ	2		1	4	4		9	10		3	5	5	
Bituminous coal————————————————————————————————————	31			1	<u>1</u>	1		1 -	4	4		7 2 	7 3 		5 -	2 3	2 3	Makes wit separat will see directs with the market diff were seen to see that the makes are seen part and see that the see that you are put
		SCOTT		T	SIMPSON			TODD			TRI OG			UNION			WARRE	N
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	ratio	on ating	- quar-	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa nies	and - quar-	Prepa- ration plants
All industries, total	1	1	1	1	1	1	1	1.		1 3	. 1	1	6	6		3	3	8
Bituminous coal	<u>-</u>	1	1	1:	1	1	1	- <u>-</u>		<u>.</u>	1	1	6	8		8	3	5
	WAS	BHINGTO	N		WAYNE			Websti	er.		WHITLE	[WOLFE			WOODFO	RD
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	ratif.	on autre	and quar-	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa nies	and - quar-	Prepa- ration plants
'All inqustries, total	1	ı	1	1	1	1	14	16		- 10	10	1	ĸ	2		1	1	1
Bituminous coal Limestone, crushed and broken Common clay and shale Fluorspar	1		1	1	1	1	14	18		-	.	1	2	£				1

(Exlusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

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Things'r Y	Oper- aling compa- nick	Mine and quar ries	rat		Oper- ating compa- nies	Minem and quar- ries	Preparation plant	a ti	ing ma- q	anu	Prepa- ration plants	oper- ating compa- nies	Mines and quar- ries	Prep rati plan	on son	ing q	ines and tar- les	Prepa- ration plants
All insustries, total	52	4	10	62	2	1		2		gg on sir the second	1	14	2		14	2	1	
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Industry	Oper- ating compa- nles	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Minos and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Preparation plant
All industries, total	1	1	1	5	***	6	1.	1	1	5	2	3	1	1	1	4	4	
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ommon clay and shale wiler's earth				Striction theoretics Street ending	Marine and		Street or or	growt on short on short on						=======================================		1 3 	1 -5 	=
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Indistry	Sper- ating compa- ntes	Mines and quar- ries	Prepa- ration plants	Oper- ating comps- nies	Mines and quar- riss	Prepa- ration plants	Oper- sting compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies		Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- rles	Prepa ratio plant
All industries, total	1	****	1	1	p.p.e.	1	1		1	2	2	2	1	1		3	3	
istural gapolins Inner tone, crushed and broken- common sand and gravel- (solin and ball clay-		Street and	1	1	20 mm	1	1		1	2	2	2				3	 	
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INDSTRY	Oper- sting comps- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	STATE	- quar-	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prep rati
All impostries, total	6	9	Б	8	3	2	2	2	2	2	3	3	7	4	7	2	2	
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(Exclusive of the crude-petroleum and natural-gan industry and contract-service and nonproducing operations;

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INDUSTRY	Oper- ating comps- nies	- Gra	nq ar-	epara- tion Lants	Oper atin comp	g e.	rei LP	repara- tion plants	AT LOST AT LOST LOSSEA- DIES	Klime and gar- 7200	Prepar tim pian	n (at) n 30/	igal.	Elmon and quar- ries	Propera tion plants
All industries, total-	3.	5	34	11		3 :	5	2				1	* · · · · · · · · · · · · · · · · · · ·	2	
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INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ratios plants	erres erres erres	Mines and quar- ries	i	.per-	Mines and quar- ries	Prepa- ration plants	per-	PERCE SO Mines and quar- ries	· · · · · · · · · · · · · · · · · · ·
All industries, total	2	2		1	1	1	6	E	. 5	3	5		-	ž	
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All industries, total	2	2		6	· 6		1	1		3		2	2	. 2	*************
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See footnotes at end of table.

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MINERAL INDUSTRIES

APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND PREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 19392—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

MARYLAND

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industry	Oper- ating compa- nice	Mines and quar- riss	Prepa- ration plants	Oper- eting compa- nics	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating comps- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prep rati plan
All industries, total	142	169	58	5/8	65	4	5	5	3	19	23	14	7	8	
itusinous coal	76	65	1	51	56			**~~*							
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scellaneous stone, crusted	8	35	1							2	2	1			
omeon sand and gravel	17	28	zė i	2	2	2	2	3	3	4	4	4	3	3	-
				_		_							-		
solin and ball clay	2	2	1	3	4		1	1		2	2				
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indistry	Oper-	Mines		Oper-	Mines	I	Oper-	Mines	1.	Oper-	Mines	T	Oper-	Mines	<u> </u>
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All industries, total	1	1	1	3	5	2	4	6	5	6	6	2	25	27	
ituminous coal															
imestone, crushed and broken-				1	1	1	-	*****		4	4	2	25	27	
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imestone, crushed and troken- renite, Franked and broken- renite, crushed and broken- andit, crushed and broken- late, crushed and broken- artic crushed and broken-	genter an virologie month na presence Abelle byrope of out 19 47 artisti souvitals an 28	tratings in the control of the contr	An incidence of the second of	1	1	offer the Joseph dip	Section and response								-
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(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

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MINERAL INDUSTRIES

APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND PREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 19391—Continued (Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

MICHIGAN

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(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nemproducing operations)

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All industries, total	16	16	15	1	1	1	8	3	2	1	1	1	7	8	1	5	4	4
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	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nics	Mines and quar- ries	Prepa- retion plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Pr ra pl
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and broken		Ministrative company	Annual value of the Party												-
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and broken- common and and gravel- common and common clay and shale atural abrasives ext INDUSTRY All industries, total- cron pre-	Cperating Companies	COCONUE Mines and quarries	Preparation	Operating companies	HEDWEPIN Mines and quarries 12	Preparation plants	Oper- ating compa- nies	ITASCA Mines and quar- ries	Preparation plants	Oper- ating compa- nies	XANABEC Mines and quar- ries	Preparation plants	Oper- ating compa- nies	Mines and quar- ries	P
and broken- common and and gravel- common and and gravel- common clay and shale stural abrasives- est INDUSTRY All industries, total	Cperating Companies	COODSUE Mines and Quarries	Preparation	Operating companies	HEDNEPIN Mines and quarries 12	Preparation plants	Operating companies	ITASCA Mines and quarries 25	Preparation plants	Operating companies	XAMADEC Mines and quar- ries 1	Preparation plants	Oper- ating compa- nies	Mines and quar- ries	P
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All industries, total-	ating compa- nies	Kines and quar- ries	ration plants	ating compa- nies	Minos and quar- ries	ration plants	Oper- ating compa- nies	Mines and quar- ries	ration plants	ating	Mines and quar- ries 2	PATION PRANTE	Oper- aling usepa- nies 25	Mines and quar- ries 42	Preparation
All industries, total	ating compa- nies	Kines and quar- ries	ration plants	ating compa- nies	Minos and quar- ries	ration plants	Oper- ating compa- nies	Mines and quar- ries	plents	ating	Mines and quar- ries 2	ration plants	Oper- ating USAPA- nies	Mines and quar- ries	Preparation
All industries, total- From ere- Disestone, crushed and broken- Hasstone, rough dimension- Grantie, crushed and broken-	ating compa- nies	Mines and quar- ries	ration plants	ating compa- nies	Mines and quar- ries	ration plants	Operating companies	Mines and quar- ries	retion plants	ating	Mines and quar- ries 2	ration plants	Oper- ating usapa- nies 25	Mines and quar- ries 42	Prepa
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All industries, total———————————————————————————————————	ating compa- nies	Mines and quar- ries	ration plants	ating compa- nies	Mines and quar- ries	ration plants	Operating companies	Mines and quar- ries	retion plants	ating companies	Mines and quar- ries 2	ration plants	Oper- ating vome- nies 25	Mines and quar- ries 42	Preparation
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All industries, total— Trum are— Illusatome, crushed and broken— Illusatome, rough dimension— Illusatome, rough dimension— Illusatome, crushed and broken— Sanatt, crushed and broken— Illusatome and and gravel— Foundry sand— Foundry sand— Foundry sand— Foundry sand— Foundry sand— Foundry sand— Foundry sand— Foundry sand— Foundry sand— Foundry sand— IMDUSTRY All industries, total— Foundry— Fattural abresiven— Fattural abresiven— IMDUSTRY All industries, total— Foundry— F	ating companies 5	kines and quarries 5 1 STEARS Wines and quarries 12	Preparation plants 5 1	ating companies 4 S 1 Operating companies 5	Mines and quarries 4 STERIE Mines and quarries 5 1 2	Preparation plants	Operating companies Description Description 1	Mines and quarries 3 3 4 SHINGTO	Preparation plants	ating companies 2 1 1 Cuperating companies 1	Mines and quarries 2	Preparation plants	Operating unique standard stan	Mines and guar-ries 42 55 5 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Preparation plant Preparation plant
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All industries, total	20		45	57	1		5	3		1	1			1	1	
Common sand and gravel Kaclin and ball clay Common clay and shale	20 1 6 3		84 1 6 4	84 1 2	1		5	3	-	1	1			1	1	
	and the same of th	COP	TAR			FORRES	ST.		Ī	P	RANKLIN			ع لىدىد ا	ANCOCK	
INDUSTRY	Operatin sempanie	::	nd r	repa- ation lants	Operating companies			Prepa- ration plants		eating manies	Mines and quarries	Prepa- ration plants) Obers		Mines and quarries	Frepa- ration plants
All industries, total-	1		1	1	5		4	3		1	1			1	1	
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		Iw I			HOLMES			ITAW	LMBA		1	LAWRENCE			LINCOL	
Industry	Oper- ating comps- nies	per- Mines Prepring and rationpa- quar-		Oper- sting compa	- quar-	Prepa- ration plants	Ope ati com ni	ng a	ar-	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa	and - quar-	Prepa- ration plants
All industries, total-	1	1		1	10	10		1	1		1.	1	1		-	-
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		LOWNERS			MONECE	<u> </u>		PAN	DIA		PE	CARL RIVE	r.		PERKY	1
Incorpey	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- sting compa- nies	- quar-	Prepa- ration plants	Ope ati com ni	ng ar pa- qu	ad ar-	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa	and - quar-	Prepa- ration plants
All industries, total	5	5	4	5	5	5		1	1	1	ı	1	1	1	. 1	
Common sand and gravel Esolin and ball clay Common clay and shels Bentonite		1	4	<u>-4</u>		1		1 =	1	<u>1</u>	1	1	1	3	1	
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INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- mies	- quar-	Prepa- ration plants	Oper ati eom ni	ng a	ar-	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating comps	and - quar-	Prepa- ration plants
All industries, total	1	1.	1	1	1			1	1	1	2	2	2	,	. 1	
Common sand and gravel Exacts and ball clay Common clay and shale Destoutte	1	1	=======================================	1	= 1	**************************************		1 =	1	1	2	2	2]	= 1	

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

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		STATE	·		ADAIR			MIAMUSA			BARTON			BATES	
IHUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Propa- ration plants	Oper- ating compa- mies	Mines and quar- ries	Prepa- retion plants
All industries, total	380	456	157	8	8		6	6	1	1.0	9	2	32	12	
Bitusinous coal	179	780	10	8	8			1	1					Valuation in the	1
Iton ots	4	6							******	8	8	1	32	12	1
7/84 DP4	20	19	11						****						
Limestone, crushed and broken-	- 54	80	65				1	1	1			B1 100 (0.1)			
Linestone, rough dimension- firante, crushed and broken-	2 1	5	1									-	*******		
frontia rmich dimension	- 2	2						W-00-1000				Minister on		(P) (P = 14)	
Slate, crushed and broken	1 1	1 5	1 1		****					****					
Wiscellaneous stone, crushed and broken	1	ľ	1										Bros y 1994		
Common sand and gravel	27	50	30										Change Man		****
2 mades and	i	1	1												-
Mrs. clay	- 40	68	2				5	5	W-money				and the second		P
Common clay and shale	15	17 25	5 17						-						60 PH (1874)
Mative sachelt and bitumens	- 2	1	i							£	1	1		2000,000	
Pyrites	5	5	1 1									-		Marie Control	
Tripali		4	2							*****		-			
							 		1	Manual Contract of the Contrac	<u> </u>				1
		BEN TON	·	1	OLL INGRE	<u>. </u>		BOONE		1	BUCHANAN			BUTLER	
Industry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- sting compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plante	Oper- ating compa- mics	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	<u> </u>	1	1	1	1	1 1	11	11	5	4	4		1	1	
•							<u> </u>					-			
Bituminous coal-							6	6						-	
Lisestone, crushed and broken	1			1			4	4	5	. 2	2	2	\$1000000		
Common clay and shale] ==					1	1	1		1	1 1	1	1	1	
Barita	1	1	1							******	1		-		-
	T 7	CALLAWAY			CAMIDEN		CAPI	GIRANIZ	au	e e e e e e e e e e e e e e e e e e e	CASS		P. P. L. T. L. P. L. L. L. L. L. L. L. L. L. L. L. L. L.	CHARITON	(
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INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nied	Mines and quar- ries	Prepa- ration plants	Sper- ating ocmpa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nics	fines and quar- ries	Prepa- ration plants
All industries, total-	10	18		3	4	2	6	6	4	2	2	1	E	8	1
Bituainous coal															
Limstone, crushed and broken-	4	4			****		4	4	3	1	1	1	2	2	
Common sand and gravel							i	i	ī						
Fire clay-	6	14					1	1			1	****			*
larite				5	4	2		******		-	-			E-10-10-4-	
	 				<u> </u>				<u> </u>	<u> </u>	1				
	1	MITEIRH	R		CLARK			CLAY			CTIMIOR			ME	
INDUSTRY	Oper- atin- compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and ower- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plonts	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants
All industries, total-	1	1	1	Z	ź		9	9	2	1	1	1	4	4	4
95 èconé e a cara de														The state of the s	
Etwalness coal	1	1	1	2	2		6	6	Mariner at	****		97 (m) (000) 37 (M) (100)	**************************************	ARTONIA III	
**************************************							8	3	2	1	1	1	***************************************	*******	men constituent
Common sand and gravel							military.			TWO OUT	50-0	Marketon de Marketon	1	1	1
MITIO							# 10 mm			Martin Co. Co.	MAGA ON NO.	****	2	1 2	2
						-					L				
		COOPER		c	RAMFORD			DADE			em vzeme			DESIT	
IMIDSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Nimes and mar- ries	Prope- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- retion plants	Oper- ating suspe- nies	Kines and quar- ries	Prepar- retion plants	Oper- ating compa- nies	Kines and mar- ries	Prepa- ration plants
		 	2	2	4		2	2	B) 945+19-	1	1		1	1	4-4
All industries, total		.5	1												and converted to the second
'		3			2004.30 (32.0)					-	_		Company of the Compan	ANNARAM MARKATAN	1
Estations coal	3				5		2	2	Ge to Ala II	1	1		<u>-</u>	1	Marrier Marrier
lituations coal	2	2	1	1	5		100 20 100 100 100 100 100 100 100 100 1	60 311 West 187 61 40 407	State of the state	distance on the	*****	Martin and the second	mq-4-11-74	1	-
Estations coal					5		-	60.217 Work	Sign of the same o	alatanap er e	-				1

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(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

MISSOURI -- Continued

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The second section is a second of the second	I	TAPELIN	Pypopolarini & Company Dep	(HAROORAG	\$		OREENE			GRUNDY			HARRISON	л Л
Indutri	Oper- ating ecops- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating comps- nies	Kines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nias	Mines and quar- ries	Prepa ratio plant
All industries, total	4	6	1	11	16	1	8	6	7	1	1		5	5	
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Iron ore	1	1											5	5	-
Limestone, grushed and broken							7	7	7				2	2	
Class sand	1	1	1											-	
Pire clay	1	1			16	1									=
And the second contract of the second contrac	en et allegen to terrene et en en europe et l'étantement avec de les les et en entre de	PETRY			HOLT	1		HOWARD			IRON	1		JACKSON	
INDETRY	Oper-	Mines	T	Oper-	Mines		Oper	Mines		Oper-	Mines			ſ	T
	ating compa- nies	and quar- ries	Frepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa ratio plant
All industries, total	15	12	3	2	2		5	6	2	3	3	2	9	10	
iii bira iswaa oorl	1.5	1.2	8				1	1							
Limestone, crushed and broken				1	1		1	2		1	1	1			
Limestone, rough dimension-	 			i	1	==	i	i				==	8		
Granite, rough dimension———————————————————————————————————	1 ====						*******			1	1	1			-
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	nles	ries	plants	nies	ries	plants	nies	ries	plants	compa- nies	quar- ries	plants	compa- nies	quer- ries	plant
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All industries, total	ating compa-	and quar-	ration	Oper- ating	Mines and quar-	ration	ating compa-	Mines and quar-	ration	Oper- ating comps-	Mines and quar-	Prepa- ration	ating compa-	Mines and quar-	retar
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(Exclusive of the crude-petroleum and natural-gas industry and contract-service and managraducing operations)

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all industries, total		5	4		2	2		2	4	4	1	2			2	5	3	2
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semmon sand and gravel							~~~			7		7	4	4	4			
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- Control of the Cont	ating compa- nies	and quar- ries	ration plants	ating compa- nies	and quar- rles	ration plants	ating compa- nies	and quar- ries	l rette	a manage	- quar-	ration plants	ating compa- mies	and quar- ries	ratio	W North	- cour-	ration plants
All industries, total	2	2	1	1	1	1	10	9		3	8	ABOUT BY MY	8	1.0	7	1	1	
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(Exclusive of the erade-petroleum and materal-gas industry and contract-service and nonproducing operations)

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Industry	Oper- Ating compa- miss	Mines and quar- ries	Propa- ration plants	Oper- ating compa- nies	Minos and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quer- rise	Prepa- ration plants
All industries, total	275	296	70	12	12	2	2	2		14	15	5	8	9	
da turel gasoline ituminous cosl ignite cots gold Ellour ore	1 58 17 109 29 29	59 17 106 50 28	1 2 42 8	5 1	5 1	2	2	2	40 15 Jacob 10 10 10 10 10 10 10 10 10 10 10 10 10	11 2	10 2	5	6	7	
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Industry	Oper- ating compa- nies	Minos and quar- ries	Prepa- ration plants	oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa ratio plant
all industries, total-	19	19	6	4	4		3	4	**********	6	6	3	7	7	
Hituminous coal- lignite- Lode gold- Silver ore crushed and broken- brandte, rough disension- Common aand and gravel- Common clay and shale Gypous-	11 5 1	11 5 1 1	4	1	1	pp 50 min h d ou pp 100 min h	\$ 1.	1	Production by the second of th	4 1 1	4 1 1 1	2	1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 1 1 2	
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Industry	Oper- sting compa- ples	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- rles	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Preprati
All industries, total	\$	3	1	3	3	1	1		1	18	28	4	4	4	
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AIR industries, total-	20	19	5	2	2		30	29	9	4	5	2	2	2	
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(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

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indestry	Oper- ating compa- nies	Min as qua rie	a r	repa- rtion lants	Oper- sting compa- nies	Mines and quar- ries	Prepa- ratios plants	at co.	ing mpa- q		Prepa- ration plants	Oper- sting compa- nies	Mines and quar- ries	Preparation plant	na st	ing i	ines and ar- ies	Prepa- ration plants
All industries, total-	1		1	1	1	2		2	4	4	4	4	5		5	1	8	1
Limestone, crushed and broken— Limestone, rough dimension———————————————————————————————————	1		1	1	1	2			4	4	4	\$ 1	1		4		3	1
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Industry	Oper- ating compa- nios	Mines and mar- ries	Prepa- retion plants	Oper- ating compa- niss	Mines and quar- ries	Prepa- retion plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	2	2	2	1	1	1	6	6	3	2	5	5	1	1	1	2	2	2
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See footnotes at end of table.

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

NEW HAMPSHIRE

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industry	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plents
All industries, total	24	26	18	1	1	1	5	4	
Granite, crushed and broken- Granite, rough dimension- Common mend and gravel- Common mend and apparel- Common mend	8	4 8 5 3 1 5	1 1			1	1 1 1 1	1	
	de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta	GRAPTON			HILLSBORO			MERRIMACK	
Industri	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Proparation plants
All industries, total	4	4	4	8	6	1	8	3	
Granite, crushed and broken Granite, rough discusion Common sand and gravel Common slay and shale Disconte	1	1	1	5 1	5 1	1	2 1	2 1	
		ROCKINGHAM	•		STRAFFORD			SULLIVAN	
December	Operating companies	Mines and	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	3	3	2	3	8	1	2	2	
Granite, crushed and broken Granite, rough dimension Common sand and gravel Common clay and shale Diatomites Feldspar Ratural abrasives	1 1 1 1	1 1 1	1	1 8	1 2 2	1	2	2	

See feetnetes at end of table.

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and comproducing operations)

NEW JERSEY

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Industry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nica	Mines and quer- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- ples	Mines and quar- ries	Prepa- ration plants	Oper- sting compa- miss	Mines and quar- ries	Prepa- ration plants
All industries, total	117	185	106	1	1	1	6	6	4	12	12	8	8	8	6
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(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

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(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonpreducing operations)

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(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

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(Exclusive of the crude-petroleum and natural-gas industry and contract-aervice and nonproducing eperations)

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INDUSTRY	Oper- ating compa- nies	Mine and quar- ries	ration	Uper- ating rompa- nies	Wines and quar- ries	Prepa- ration plants	Oper- sting compa- sies	Mines and quar- ries	Prepa- retion plants	Oper- ating compa- nico	Mines and quar- ries	Prepa- ration plants	Oper eting sompa- nics	Mines and quar- ries	Prepa- ration plants
All industries, total-	1	4		1	1		1	1			1		1	1	
Granite, rough dimension				1	-:		1	1	******	1	1		1	1	
		PORSY	TH .		GASTON			OUT LFORM			BLIMI			NA BUETT	-
INDUSTRY	Oper- ating compa- nies	Mine and quar ries	ration		Kines and quar- ries	Prepa- ration plants		Minos and quar- rins	Prepa- retion plants	eling comps- nies	Mines and quar- ries	Prepa- retion plants	eling scape nies	Mines and quar- ries	Prepa- ration plants
All industries, total-	1]	1 1	2	2		2	2	1	2	2	1	2	2	
Granite, crushed and broken Oranite, rough dimension Common sand and gravel Common clay and shale	1		1 = 1	1 1			1 1	1	1000,0440	1	1	1	1	1	
	+	HA YWO	<u></u>		HENDORS	ON .		IBROKI	1		LEX			LDMOD	
INDUSTRY	Oper- ating compa	- qua:	d retion	a comma	and quar	FI GPA	Et augustus	less Lessys	rrega-		blines and quar- ries	wast fam.		Miner and quar- ries	Prepa- ration plants
All industries, total	1		1	2	1	1	3		1	3	2	manus de dans	1 Consumeror	1	
Linestone, crushed and broken		1	1	1					1 1	2	oerrose he prosessors 2	mar FARANGE (MISS) page (Massive Aux maje (Miss) (Aux Aux page (Miss) (Aux page	1	1	***************************************

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

NORTH CAROLINA—Continued

								,									- Albanan -	-
		McDOWE	L			MACON			MAI	DISON		1	MITCHELL			МО	TOMERY	
Industry	Oper- ating compa- nies	Mines and quar- ries	76	tion	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Open atin com	ıg s xa⊷ qı	ind j	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa ratio plant	n con	ng ipa-	mar-	Prepe ratio
All industries, total	2		2	1	5	5	3		3	5	5	13	16		7	1	1	
nganese ore- nestone, crushed and broken- nuite, crushed and broken- men sand and gravel- clin and ball clay- ldspar- ca- lc and seapstone	1		1	1	1	1	1	=	1	1	1	1 2 7 5	1 3 9 3		8	1	1	
rmiculite					2	2	2		- -						-			
		MOORE	:			NASH			RAN	DOLPH		F	OCKINGHA	×			ROWAN	
industri	Oper- ating compa- nies	Mine and quar ries	r	repa- tion Lants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Ope ati com ni	ng pe- q	and	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Preper ratio	n at	ing mpa-	Mines and quar- ries	Prep rati plan
All industries, total	3		3	3	1	1		-	1	1	1	1	1	-	1	9	9	
ranite, crushed and broken ranite, rough dimension smaon sand and gravel tural abrasives tle and scapatone	1 2		1	1 2	1	1			-	1	1	1	1		1	1 1	1 1	
		RUTHER	PORCD			STANLY			51	OKES			SURRY				SWAIN	
industry	Oper- ating compa- nies	Mine and quar ries	- -	repa- stion lants	oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	con	ng pa- c	and	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- rles	Prep rati	on co	er- ing mpa- ies	Mines and quar- riss	Prep rati plan
All industries, total			3	2	5	2			1	1		2	2		2	3	3	
inestone, crushed and broken- irunite, crushed and broken- irunite, rough dimension common mend and gravel- common clay and shale-	1 1 1		1 -	1	2	2				1		1 1	1		1	1 1	1	
	TRA	naylyanı	A		VANCE			WA KE			WAYNE			YADKIN			YANCE	Y
Industri	Oper- ating comps- nies	and	Prepa- ration plants	Oper- sting comps- nies	Mines and quar- ries	Prepa- ration plants	ating compa-	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	- quar-	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	- quar~	Pre rati
All industries, total	1	1	1	1	1	1	1	2	2	2	3	2	1	1	1	10	11	Jum
Granite, crushed and broken	1	1	1	1	1	1	1	2	2	1	2	2	1	1	1			=

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nongreducing operations)

NORTH DAKOTA

							111 L		•									
		STA	TE			A DAMS			l	TLLINGS			EMAN			None Con	BURKE	
industri	Oper- ating compa- nies	Min an qua rie	d ra	epa- tion ants	Oper- ating compa- nies	Nines and quar- ries	Prepa- ration plants	8	per- ting umpa- nies	Mines and quar- ries	Prope- ration plants	Oper- sting comps- nies	Fined and quar- ries	Pres rati	400	int- ting mpa-	Wines and quar- ries	Prepa- retion plants
All industries, total	105	1	06	4	8	7			1	1	Al Mary policy	2	2			5	6	M-control octobros
Lignite	101 3 1		02 -	s 1		7			1	Annonyment of the second		2	S. Service of the ser	00-10-10 80-11-14 30-10-16		b	6	MATERIAL PROPERTY AND AND AND AND AND AND AND AND AND AND
		BURL	etch			DIVIE				DOWN		9	olenn va	LLEY		120 120	ani pan	3
INDUSTRY	Oper- ating compa- nies	Min an qua rie	d r-	repa- ation lants	Oper- ating compa- nies	Mines and quar- ries	Preparation plants	a	per- ting omps- nies	Minos and quar- ries	Prope- ration plants	Oper- sting compa- mies	Kines and quar- ries	Prepreti	602 E	per- ting supa- nies	Mines And quar- ries	Prepa- retion plants
All industries, total	5		5 -		4	4		-	1	1		8	3			1	1	1
Lignite Common sand and gravel-	5		5			=		-	1	1	All relatives the Name All relatives and All relatives All relatives and Olse	3	3		***	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	The state of the s
		GRA	NT			HETTINGE	R		y	I-KENZLE			Mol Pan				MENCER	
Industry	Oper- ating compa- nies	Min an qua rie	d r	repa- ation lants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ratios plants	a	per- ting omps- nies	Nines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prep reti plan	64 64 64	per- Ling cope- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	5		5 -		4	4			1	1		1:0	10			6	6	
Lignite Common sand and gravel Fire clay	5				4	=			1	1	aranana arandakan zerinjan	10		=	-	8	£	
		MORTON			MOUNTRALI		(LIVER			STARK			WARE			WILLIW	ıs
INDUSTRI	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	rrepa-	Oper- sting compa- nies	Mines and quar- ries	Prepa ratio plant	THE REAL PROPERTY.	- CHET-	Prepa- ration plants	Oper- sting compe- miss	Mines and quar- ries	Prepa- retion plants	Sper- eting compe miss	and mar-	Prepa- ration plants
All industries, total	7	7	2	3	3		2	2			4	no mag	23	2.3	1	11	11	
Lignite Common sand and gravel-	5 1 1	5 1 1	 1 1		5	=	2	2		. 5	4 =		22 1	22 1	1	11		de construction de la constructi

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

OH10

					OHIO										
engelekster depondation by die voor gewone van de bester van de voor d		STATE			ADANS			ALLEN			ASHLAND			SHTABUL	\ \
INDUSTRY	Oper~ ating compa- niss	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating comps- nies	Mines and quar- ries	Prepa- ration plants
All industries, total-	970	1,100	554	2	2	2	9	9	9	1	1	1	1		
intural gasoline ilturinous coal- intertone, crushed and brokez dasetone, rough dimension	7 614 115 2	656 139 2	12 7 184	1	1	1	9	9	9						
landstone, rough dimension [iseellaneous stone, crushed and breken [common sand and gravel [isee asyd [oundry sand	110 2	7 2 130 2	2 151 2	1	1	1				1	1	1			_
Foundry sand- Pour clay and shale Typous	14 56 75	19 46 88 2	15 11 12			=		=					1		
Stive apphalt and bitumens	1 4 2	1 6 2	1 5 2				******			******				=	
		ATHEMS		ı	UOLAIZE			BELMONT			BROWN	<u></u>		BUTLER	1
INDUSTRY	Oper- ating compa- mies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- mics	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa ratio plant
All industries, total	29	29	5	4	5	5	40	44	3	1	1	1	10	10	
Hituminous coal Jasetone, crushed and brokes Common sand and gravel Country sand Country sand	26 2	25 2	2	1 3	1 4	1	59 1	45 1	1	1		1	 8 2	 8 2	
CHARLES TAN MER STALLS	1 1	1	1												
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Lines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Preparation plant
All industries, total	29	52	8	1	1	1	8	3	5	6	6	6	2	5	ļ
Atuminous coal- Amostone, crushed and broken- Common sand and gravel- Tire clay- Common slay and shale-	25	27 ————————————————————————————————————	2	1	= 1 = 1	<u>-</u>	1 2		1 2	4 2	4 2	4 2 	2 1	2 1	
	o	CLUMBIAN	A	<u> </u>	OSHOCTOR	1	C	RAWFORD	<u> </u>		ADOHAYU	<u> </u>	***************************************	DARKE	<u></u>
INDUSTRI	Oper- ating compa- nics	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prope ratio plant
All industries, total	28	64	7	46	47	\$	2	2	2	17	19	12	1	1	
Satural gasoline dituatinous coal Limestone, crushed and broken landstone, rough dimension common sand and gravel foundry and fire clay common clay and shale fatural abrasives	41	51 7 8	1 4 2	1 2 1	43	2 1	2	And community of the co	2	1 9 6 1	1 9	9	1	1 = = = = = = = = = = = = = = = = = = =	
and an analysis of the second description of		DELAWARE			erie		P	AIRFIELE)	***************************************	FAYETTE		***************************************	PRANKLIN	
Industry	Oper- ating compa- nies	Mines and quar- ries	Preparation plants	Oper- ating compa- nies	Kines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa ratio plant
All industries, total	10	11	9	7	11	6	5	4	8	4	4	4	10	10	1000
istural gaseline inectone, crushed and broken inectone, rough dimension inectone, rough dimension idealianeous stone, crushed and broken	7	8	8	8 1	3	2	1		1	4	-4		2 2	2 2 2	

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonpreducing operations)

OHIO-Continued

				7-11-12-11-11-11-11-11-11-11-11-11-11-11-		OHIA		i i i i i i i i	rQ.									
		GALLTA		(MADOA	* A Territory and August 1995	1	OKREVE		0	o Doniei		<u>l</u>	an Il Ten		gado un solicidado	Pancick	theory manuel
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nics	Mines And quar- ries	Prepa- ration plants	Oper- ating compa- miss	Mines and quar- ries	Prepa- ration plants	Oper- ating comps- nies	Minos and guar- ries	Properation	Spec- ating cospa- nies	Mines and quar- ries	Preja- ration plants
All industries, total	9	9	8	1	1	1	5	8	2	21	21	1	15	16	15	5	8	6
Eiteminous coal- Limestone, crushed and broken- Common sand and gravel- Foundry sand Common clay and shale	8 1 1	6 1 1 1 1	1 1 1 —		= 1	<u> </u>	5		2	20 1	20 1 =	1	1 11 1 2	15 1 2	1 25 1	4	5	S management of the latest and the l
		HARDIN		B	arrison		И	TGHLAND			HOCKING	and the second		MILMES	Avanova divirozana		MURCH	nterior operating personal
Industri	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quer- ries	Prepa- ration plants	Oper- ating compa- nico	Mites end quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- rice	Prepa- ration plants	Oper- ating compa- nies	Minos and quar- ries	Prepa- ration plants
All industries, total-	6	6	6	22	22	2	6	6	\$	28	28		9	1.0		2	2	1
Mituminous coal Idustions, crushed and broken— Common clay and shale Hative asphalt and bitumens— Peat—		- -		20 1 1	20 1 1		 4 1 1	1 1	4 1	25	25 5		1	1 =	The state of the s	1	1 1	Marie Service
		JACKSON	<u> </u>		JEPPERSON			KONOX			LAKE		3	Lawereci			LICKIE	
Industry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating comps- nice	Mines and quar- ries	Propa- ration plants	Oper- ating compa- nies	Minos and quar- ries	Frepa- ration plants	Oper- ating compa- nice	Mines and quar- ries	Prepa- retien plants	Oper- ating compa- nies	Mines and quar- ries	Propa- ration plants
All industries, total-	29	50	4	68	65	5	5	3	8	8	8	1	25	2-7	3	8	4	4
Matural gasoline————————————————————————————————————	25 1 1 4	25 1 2 4	1 2 1	55 8 8 4	55 3 	1 8 	 - - - -	- 2 1 -	2 1	1 2	1 - 2	Management of the second of th	14 8	14 8 8 2	1	2 1	2 1	Total Control
\$ Comment of the contract of t		LOGAN	<u> </u>		LORAIN			lucas			MADISO	u bezezeze en H		manonin	6 6		MARIO	N
industry	Oper- ating comps- nies	Mines and quar- ries	Preparation plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	STIER	Mines and quar- ries	Prepa- ration plants		Vines and quar- ries	Prepa- ration plants		Wines and quar- ries	Propa- ration plants
All industries, total	5	5	5	2	2		6	7	6	2	5	1	20	22	1	5	6	6
hituations coal— Limestone, crushed and broken— Sandstone, rough dimension— Miscellaneous stone, crushed and broken— Common sand and gravel—	5 1	- 8 - 1 1	- 5 1	=	=	=		- - - -		= -1	= -		19	20		1	5	5
Fire clay Common clay and shale	1=	=	=	=	=	=	1	1		1	1	_	1	1	200000000000000000000000000000000000000			
		MEDINA			M EIGS			MERCER			KI AKI			MORROR	anage phone in the second		MONTGON	
IMDUSTRX	Oper- ating compa- nies	Mines and quar- ries	Prepa-		Mines and quar- ries	Links	eneme.	Mines and quar- ries	Links.	distant.	Minos and quar- ries	retion.	D. COMPANY		Fregu-	enterpring.	• daes.	ratios plants
All industries, total-	7	7	4	24	24		2	2	2	5	6	8	6	C market delicate	entra de la composition della	7	4	7
Natural gasoline— Ritualnous coal— Ritualnous coal— Liasetons, crushed and broken— Demons sand and gravel— Common clay and shalls— Peet——————————————————————————————————	1 8 		= 1 = 3	24	 		- 2 - 2 	R	2	1 1		4		-	2000 Marcha 4 Marchandria (1997)	3	1 6 man	Tenterminime of the Control of the C



MINERAL INDUSTRIES

APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND PREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 19391—Continued

(Exclusive of the grade-petroleum and natural-gas industry and contract-service and nonproducing operations)

OHIO—Concluded

						OHIO)—Cor	craa	ea									
		MORCAN		М	USKINGU	v		NOELE			AWATTO	PROFIL 1,44011	Р	AULDING	'UT: UM:		PERRY	
industry	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	7	8	5	89	41	6	5	4	2	4	5	8	1	1	1	74	78	4
Natural gaseline Eituminous coal Linestone, crushed and broken Common sand and gravel Glass sand Poundry sand Common clay and shale	S 4 directions and a second an		Southern St. St. St. St. St. St. St. St. St. St.	2 2 1	35 2 8 1	2 8	1	1	1	3	8	3	1	1	1 =====================================	1 2 2 5	65 1 2 2 5	1 2
and the second s	1	PIOKAWAY			PIKE			PORTAGE			Preble			PUTNAM			RICHLAN	ID
indestry	Oper- ating compa- nies	Winea and quar- riss	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- riss	Prepa- ration plants
All industries, total	1	1	1	2	2	2	7	8	4	5	3	5	6	7	6	6	5	8
Natural gasoline Bituminous coal Limestone, crushed and broken Common sand and gravel Foundry sand Common clay and shale	1	= = = = = = = = = = = = = = = = = = = =	1	2	2	2	3 	3 -3 1 1	5 1	1 2	1 2	1 2	5 1	6	6	1 2 3	2 5	1
		ROSS			DIEUTUA			scioto			SENECA			BHELBY			STARK	1
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- retion plants	Oper- eting compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Nines and quar- ries	Prepa- ration plants	Oper- sting compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating comps- nies	Mines and quar- ries	Prepa- ration plants
All industries, total-	4	4	8	7	7	7	7	7	3	4	5	4	1	1	1	48	54	8
Bituminous coal Limestone, crushed and broken Sandstone, rough dimension Common sand and gravel Foundry sand Fire elsy Common clay and shale	3	5 1	5 	Management Appropriate Control of th	7	7	2 1 5 1	2 1 	1 2	5	4	4	1	1	1	51 2 4 1 2 8	54 2 6 1 3 B	8
		SCHALLT	r	1	LIDENGE	·	TV.	SCARAWA			UNION		V	AN WERT			VINTON	
INDESTRY	Oper- ating compa- nice	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	8	8	5	1	1	1	112	125	17	3	8	8	2	3	5	17	21	4
Bituminous poal Limestone, cruehed and broken Common sand and gravel Foundry sand Fire elay Common elay and shale	5	5 5	5	1	1	1	88 2 7 1 10 13	85 2 7 2 15 16	1 7 2 2 5	2 1 	2 1 —	2 1	2	3	3	14 3 	15 4	4
		Warren		WA	SHIMOTO	ĸ		WAYNE		1	VILLIAMS			MOOD	·		WYANDOT	
ISIDSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	2 1000-00-00-0	2	2	8	7	6	6	5	2	2	2	1	5	6	6	6	6	5
Hatural gaseline Hituminous coal Linestone, crushed and broken Common sand and gravel Common clay and shale Netural abrantyee	2	2	energy	2 2	2	2	1 1 1		1	1 1	=	1	5		6	5 2 1	3 2 1	3 2

(Exclusive of the crude-petroleum and natural-gus industry and contract-cervice and nonproducing operations)

OKLAHOMA

					-	Trepostron	Transaction								
Till pro-		STATE ⁶			alfalfa			ATORA			eravee,			N. T. Ak	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and over- ries	Prepa- ration plants	Oper- allng compa- nles	Hines and quar- ries	Props- ration plants	iper Aling Turpe Nice	Nines and quar- ries	Prepa- ration plants
All industries, total	248	235	223	1	1	1	1	1	1	1	1	1	1	A -mon-r	1
Satural gasoline Situminous coal Lead ore	55 86 4	88 5	139	*****		##### #####	17******** miles de st	Marie Ar y C	***	Andrew or a	Mar-14-40-145	90-100-0-100 50-100-0-100	Mario (e-M-so	Marian Marian Microsoftware Microsoftware	1 monotomeros
Zinc ore- Limestone, crushed and broken Granite, rough dimension Miscellaneous stone, crushed and broken	59 14 2 1 18	81 19 2 1 21	35 19 1	1			1	generation 2 2 20 20 20 20 20 20 20 20	1	de est est equipe gen a tradition du syn dermet en en en en de en en en en en de en en en en en en 'en en en en en en	Topinds, playin. Topinds day day Topinds day day Topinds day Topin	Managarier White-origin Managarie (A)	Talphage verificity of the state of the stat	March Consum March Consum March Consum March Consum March Consum	Strain or skylled out
Common sand and gravel- Common clay and shale Bentonite- Cypsum Battre asphalt and bitumens	2 7 1 3	2 9 1 3	21 1 1 2 1			****	galetik karabik kag gagatik banya alik galetik karabikan galetik karabikan	All the conflict All the factors whose review	SERVICES AND CONTRACT SERVICES SERVICES SERVICES	er er er er er er er er er er er er er e		Salander on Gentle et all Salander on	delette vir tre ve Weigenfriche ve redennis verbrich	Spillate out our spillate stands skillate out our spillate stands	salarida Maray ara di Mara harasanda mi dalarin ha mpida mi Maranga para ara di
Natural abrasives	2	2	i			******		pro-tracking to		1	1	1	plane as reference on a		
		elaine			CARTER		c	HENOREE	,		COAL		page and the second second second second second second second second second second second second second second	COMANCHE	government tagen, or
Industry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Nines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and ownr- ries	Prepa- ration plants	iger- eling compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- eting compa- nies	Minee and quar- ries	Preparration plants
All industries, total	3	3	2	3		4	1	l	1	6		1	1	1	1
Natural gasoline		=======================================		3		4	1	more a	1	7	7			,	1 decrease and the second
		CRAIG	<u> </u>		CREEK		inducidit excendir con	Cater		en proposod	elewane	discount control	<u>bquang, aing as a</u>	PANEL	destangen en en en
INTUSTRY	Oper- ating compa- nies	Mines and ouer- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating sumpa- nies	Himos and quar- ries	Prepa- ration plants	oper- siing compa nksi	Kines and out- ries	Properation plants	Just- eting compe- nies	Mines and quar- ries	Prepa- ration plants
All industries, total-	3	3		23	1	26	2	1	1	1	1	1	2	2	2
Batural gasoline————————————————————————————————————	3	3 ===		22	1	26	1	1	1	Should shoul	1	100 (100 (100 (100 (100 (100 (100 (100	2	2	Alberton
Account of the property of the state of the	G	arpield)		GREER			HARMON			Habkull			HANNEL	ngggattionen (kan tilskolden yn a denn
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- niss	Mines and quar- ries	Prepa- ration plants	Oper- aling compa- nles	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nice	Mines and mar- ries	Propa- ration plants	aring comes nies	kines and quar- riss	Prepa- ration plants
All industries, total	2		2	1	1		1		1	4 Interpresentation	3	Parent III	3 horemoveen	i personan	alessos some
Netural gasoline————————————————————————————————————	2	 		= 1	1	****	1	Marine and all the state of the	1	4	3	pare o es	2	1	
NOSSA MARIE DE LA CONTRACTOR DE LA CONTR		JOHNSTON	1		KAY			KLOWA		1	LATIMEN	A COLUMN TO THE PERSON OF		LI VLON	ž
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and east- ries	Prepa- ration plants	Cper- ating campa- nies	Mines and quar- ries	Prepa- ration plants	Oper- aling compa- nies	Rines and seer- ries	Frapa- ration plants		Elnes Sid OMAT- Fins	Prepa- ration plemts
All industries, total-	1	1	1	2.		2	1	1		3	S Cartesian Company	myt	29	29	and the state of t
	Programmer St.	1	-	2		2	1	1 -	10.30-2-10	*****		QLD1-179F	physical contracts	-	Makes 24770
All industries, total———————————————————————————————————	ating companies	Mines and quarries	Preparation	sting companies 1 1 Operating companies	and quarries 1 1 KAY Kines and cuer-	Preparation plants	ating companies	KIOWA Kines and quar- ries	Preparation plants	aling companies	EATIMENT SANGER	Preparation plants	ating comparate and a second an	end quar- ries i li Fiom Rines and quar- ries	P) Pr

(Exclusive of the crude-petrolsum and natural-gas industry and contract-service and nonproducing operations)

OKLAHOMA-Concluded

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Iniustry	Oper- ating compa- nies	Periode Mines and ration plants ries ries ries ries ries ries ries rie			Mines and quar- ries	Prepa- ration plants	Oper- sting compa- nies	Mines and quar- riss	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	3	*******	3	1		1	1	1	1	3	4	4	9	8	
Natural gasoline Etimainous coal Limeetone, crushed and broken Common, sand and gravel Mative asphalt and bitimens	5		3	1		1 =	1	1	= 1	1 1 1	2 1 1	2 1 1	1 4 -4		=
B - Commission of the second o		NOMLE			ATAWOM		(KFUSKE	E	o	KTAHOMA			ORMIGE	£
indus try	Oper- ating compa- nics	and quar-	ration	Oper- ating compa- nies	Wines and quar- ries	Frepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Preparation plants
All industries, total	2		3	3	1	5	2		3	10	4	16	11	9	2
Natural gasoline Bituminous coal Limestone, crushed and broken Common sand and gravel Common clay and shale	2			1	1	1	2		5	2 2 2	2 2	14 2	9	9 ==	2
		OSAGE			OTTAWA			PAWNEE			PAYNE			PITTSBUR	9
incustry	Oper- ating compa- nics	and quar-	ration	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- rles	Prepa-	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	11	1	1.8	63	67	36	3	1	. 4	5	1	5	18	19	1
Natural gaseline Situmineus coal Lead ore Zinc ore Limestone, crushed and broken Common sand and gravel	**************************************			4 59 1	5 80 1	35	2 =====================================		3	1	1	1	17	10 	1
And the second section for any control to the second section of the second section of the section of the second section of the section of the second section of the second section of the section of th	,	ontotoc		PO	MOTAWATT	IE		ROCKERS)		SEMINOLE			SEQUOTA	X
Ingustry	Oper- ating sompa- nics	and quar-	ration	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa-	Oper- sting compa- nies	Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Preparation plants
All industries, total-	6	4	5	4		4	3		1	15	3	23	2	2	1
Matural gasoline Bituminous coal Limestone, crushed and broken Class sand Common clay and shale	1 1	1 1 2	-	4		4	1 2		1	10 2 1		20	1 1		1
		TJI.	BA			WAGON	er		W	ASHINOTON			W	O DWARD	
Indistry	Operating and resion plants COSAGE C	repa- ration plants	Oper- ating compa- nies	Mine and quar	ra	ipa-	Oper- ating compa- nies	Mines and quar- ries	Prepa ratio plant	n at	ing	Mines and quar- ries	Proper ration plants		
All industries, total	Operation plants ries with the plants ries of the plants ries ries of the plants ries of the plants ries of the plants ries of		22	5		4	5	4	1		4	1	1	1	
Natural gasoline Mituminous coal Limestone, crushed and broken Common sand and gravel Common clay and shale Bestonite		6 5 8	2	11 5 8	2 2 2		3 -	2 1	1	1		8	= :	1	1

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

OREGON

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		STATE				BAKER	19 marting and 19 may 1	I	Bor	DOM:		ang madhagan sakhan dipa agka balipan n mito again jadigan (jamarahan ka	CLACKANA.	3 3		(Z.	A TOLEP	
industry	Oper- ating compa- nies	Mines and quar- ries	Pre	ion s	per- iting compa- nies	Mines and quar- ries	Prepa- ration plants	Oper atio comp nic	s s	ar- r	rapa- atles Lambs	Oper- ating compa- nios	kines and quar- ries	Prepa ratio plant	23 0000	ng Da o	ines and ag-	Prepa- ratios plants
All industries, total	114	123		80	17	16	4		8	3	2	4	4		4	2	2	2
Riturinous coal- lode gold- Placer gold-	1 20 30	11 11 28	1	12			5				eniman.	Margaretta	MARINE AND					dave openskippydette daverspropensendheld daverskippydeshede
Limestone, crushed and broken Basalt, crushed and broken Basalt, rough dimension Sandstone, crushed and broken	8 3 16 1	22		8 5 21	1	1	1 ==			1	1	1	1		1	2	2	TO THE CONTRACT OF THE CONTRAC
Sandstons, rough dimension— Niscellaneous stone, crushed and broken— Common sand and gravel— Common slay and shale—	1 29 5	3 33		1 31					1 -	1	1	\$ 	3		5 min		artenante artenante artenante artenante	Ministration of the Control of the C
Distomite Ratural abrasives	2 1	3	1	1				=	- -	=					= =	= :	_	Married Street, Street
		COLUM	XIA			0005	An en en en en en en en en en en en en en		a	eka	221 (S) (S = 1) (S)	Transfit Localed	183 CHUTH			D0	Mias	2000 (2000) (//22.
INTUSTRY	Oper- sting compa- nies	Mine: and quar- ries	re	epa- ition ants	Uper- ating compa- nies	Nines and quar- rles	Prepa- ration plants	Oper ati	18 18 18 19	1	Propa- retion plants	Oper- eting compa- mics	Hines and quar- ries	Prepa ratio	1000 1000	ng pa- q	ines and ver- ies	Prepa- ratios plants
All industries, total	1		1	1	4	4	5	+	5	В	8	ž	4		4	4	4	3
Bituminous coal- Mercury- Basalt, crushed and broken- Sandstone, rough dimension- Common sand and gravel- Bitumites	1		1	1	1 1 2	1 2	1 2		3 -			1			5	1 2	1 2 2	1
NATORI Ve		GRAN	r			OOD RIVE	l R	+	JA	erson Ekson			jerrens	erikanomen Ma		.700	epicine	anigovinos viikla
INDUSTRY	Oper- ating compa-	Mine and quar	Pr	repa- ation	Oper- ating compa-	Mines and quar-	Prepa- ration plants	208	og o	2 87 -	Prepa- ration plants	Sper- saing sompe- sies	Mines and grar- ries	Prepretti	out con	ing mpa-	lines and mar-	Prepa- ration plants
All industries, total-	nies 11	ries	10	3	nies 2	ries 5			16	15	9	2	2	1	8	9	9	3
Lode gold	3 8		3 7 -	3	****	*****			6 7 1	5 7 1		1			1		1 6	1
Limestone, crushed and broken- Basalt, crushed and broken- Sandstone, crushed and broken- Miscellaneous stone, crushed and broken-			-		1 2	1				1	1	1	1		1 -	1	1	
Common sand and gravel					2	2	1		1	<u> 1 </u>	1		1				MALHEN	
Industry	Oper-	Mines		Oper-	LAKE Mines		Oper-	LANE	Prepa-	Oper-	Linux	Prepa-	Oper-	LINN Minos	Propa-	Oper	Wines	Prepa
	ating compa- nies	and	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	eting compa- nies	and quar- ries	retion plants	sting compa- nies	end car- ries	ration plants	ating compa- nies	und quer- ries	ration plants	ating compa- nies	quer- ries	ration plants
All industries, total	4	4	4	1	2	2	4	4	3 	3	3	3	2	2	2	4	5	2
Lode gold————————————————————————————————————		=			=		1	1	1		=	workers.			Management of the same of the	2 1	1 1	1
Easelt, srushed and broken- Common send and gravel- Distante	3	3		1	2	2	2	2	2	3	-		2	2	2	1	1	1
Natural abrasives]]	1	1											deput state			TARRETT	1
		MARION		1	RULTNON	e T		POLK		0	SWEW.	1	Oper-	Mines	7	Oper-	Mine	
indestri	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- mies	Mines and quar- rios	Prepa- ration plants		- pand	Lanbar	sting	end quer- ries	Prepa- ration plants	40.000	guar ries	ration plants
All industries, total	- 5	5	4	9	n	8	3	3	2	1	2	2	2	2	2	2	2	1
limestone, crushed and broken- Basalt, crushed and broken- hasalt, rough dimension- Common sand and gravel-	2 3	 2 3	1 3	=======================================	1 8		2 1	2	1 -1	3	*	2	*	2	Manufacture III	1	1	Secretarians
Common clay and shale	<u> </u>			1	<u> </u>								1	4			- Income	en descentancemen

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

PENNSYLVANIA

		STATE			ADAMS		A	TTEO HEN A		Α	RMSTRONG			BEAVER	- And Andrews
Industry	Oper- ating compa- nies	Kines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Preparation plant
All industries, total	1,066	2,271	658	р	9	8	156	167	28	38	41	9	46	48	
atural gaseline		. ==	107				6		9	1		1	1		
enneylvania anthrocite		1,258	52 192				138	155	8	28	29	5	28	25	
TOS OF CONTRACTOR OF THE PROPERTY OF THE PROPE	2	4	2	****											
Americae, grushed and broken		194	162	4	4	4				2	5	5			7
Assetone, rough dimension-		4 6	1 6												F-00-04
branite, rough dimension-	10	10													770
mealt, crushed and broken-	9 2	10	10	1	1	1									
madetone, crushed and broken	30	35	24	2	2	2									****
late, crushed and broken	1	6	1										1	1	
Slate, rough dimension	- 24	24													=
Miscellaneous stone, crushed and broken	48	- 8 - 53	7 53	1	1	1	2	2	2						
Class sand	4	5	5												-
Maolin and ball clay	-12	12	5				3		2						-
Pire clay	4.5	76	11	-						6	6	2	11	11	
Common clay and shale	53	59 1	11	1	1		7	7	2	3			5	5	_
Tipoli	1		1											***	-
	Tata constitute	BEDFORT		-d:::	BERKS	terroren en		BIAIR		В	RADFORD			BUCKS	
INCHO TRY	Oper- ating	Mines	Prepa-	Oper- ating	Mines	Prepa-	Oper- ating	Vines and	Prepa-	Oper-	Mines and	Prepa-	Oper-	Mines	Prep
	compa- nies	quar-	ration plants	compa- nies	quar- ries	ration plants	compa- nies	quar-	ration plants	compa-	quar- ries	ration plants	ating compa- nies	and quar- ries	reti- plan
All industries, total	- 25	25	6	17	20	17	26	\$0	9	2	2		18	18	
Bituminens coal-	17	18	1				n	14		2	2				_
Pennsylvania anthracite	3	4	3	2 9	3 10	3 9									
Imostone, rough dimension]				10		8	8					3	5 1	
branite, crushed and broken				1	1	1							1	1	
Masalt, crushed and broken		-		2	2	2							3 1	. š	
Sandstone, crushed and broken	2	2	1	1	1	1	4	5	1				2		
Common sand and gravel	******			1	1	1							5	2 5	
Class sand	1	1	1										1	1	
Pire clay							. 5	5							
		- Landerson		*	2							L	1	1	
		BUTLER	7	Programme and a common account	CAMBRIA			CAMERON	7	TOTO A TOTO A MANAGEMENT OF THE PARTY OF THE	CARBON			CENTRE	·
industry	Oper- ating	Mines	1	Oper-	Mines	i ·	Oper-	Mines	Prepa-	Oper- ating	Mines	Prepa-	Oper-	Mines	Prep
	compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	sting compa- nies	and quar- ries	ration plants	compa- nies	quar- ries	ration plants	ating compa- nies	and quar- ries	rati plan
All industries, total	nies	quar-	ration	ating compa-	and quar-	ration	cempa-	quar-		compa-	quar-	ration	ating compa-	dast-	reti
Matural gasoline	77	quar- ries 67	retion plants 24	ating compa- nies 148	and quar- ries 183	ration plants	nies 2	quar- ries 2		compa- nies	quar- ries	ration plants	ating compa- nies	quar- ries 46	ret
Satural gasoline	77	quar- ries 67	ration plants 24	ating compa- nies	and quar- ries	ration plants	nies	quar- ries	plants	compa- nies	quar- ries 16	ration plants	ating compa- nies	quar- ries	ret
Satural gaseline Eltuminous coal Femmaylvania mothracita	nies 77 13 55	quar- ries 67	retion plants 24 19	ating compa- nies 148	and quar- ries 183	ration plants	nies 2	quarries 2	plants	compa- nies	quar- ries	ration plants	ating companies 44 36	quar- ries 46	ret
Natural gasoline Situminous cosl Semmajivania mathracite Lines ore Linestone, Gruched and broken	77 13 55	quar- ries 67	ration plants 24	ating compa- nies 148	and quarries	ration plants	nies 2	quar- ries 2	plants	nies 16	quar- ries 16	ration plants	ating compa- nies	quar- ries 46	ret
Natural gasoline Rituminous cosl Pennaylvania anthracite Linestone, crushed and broken Sandstone, crushed and broken Sandstone, rough dimension	77 13 55	quar- ries 67	retion plants 24 19	ating compa- nies 148	and quarries	ration plants	nies 2	quarries 2	plants	16	quar-ries 18 12 1	ration plants	ating companies	quar- ries 46	ret
Satural gaseline Eltaminous coal Fennsylvania anthracite Linestone, crushed and broken Sandatone, crushed and broken Sandatone, crushed and broken Sandatone, rough dimension Miscellaneous stone, crushed and kroken Common sand and grayel	77 13 55	epar- ries 67 57	retion plants 24 19	ating compa- nies 148	and quarries	ration plants	nies 2	quarries 2	plants	nies 16	quar- ries 18 12 1	ration plants 11 7 11 1	ating companies	quar- ries 46	ret
Natural gasoline Rituminous cosl Femnayivania makkracite Lines ore Lines tone, crushed and broken Sandatune, crushed and broken Sandatune, rough dimension Hiscallamenus stone, crushed and broken Common sand and gravel	nies 77 13 55	guar-ries 67 57 5	ration plants 24 19 4	eting compa- nies 148	and quarries 183	ration plants	nies 2	quarries 2	plants	tompa- nies 16	quar-ries 18 12 1	ration plants	ating comps- nies 44 36 41	### ##################################	ret
Natural gascline Rituminous cosl Femmaylvanik anthracite Linestone, crushed and broken Sandatone, crushed and broken Sandatone, rough dimension Miscellaneous stone, crushed and broken Common sand and gravel Foundry sand Frire clay- Common clay and stale-	nies 77 13 55	57 57 1	ration plants 24 19	ating compa- nies 148	and quarries	ration plants	nies 2	quarries 2	plants	16 12 1 1 1 1 1	quar- ries 16 12 1 1 1	ration plants 11 7 11 1	ating companies 44 36 41	46	ret
Natural gascline Rituminous cosl Femmaylvanik anthracite Linestone, crushed and broken Sandatone, crushed and broken Sandatone, rough dimension Miscellaneous stone, crushed and broken Common sand and gravel Foundry sand Frire clay- Common clay and stale-	nies 77 13 55 - 4 1 1 - 1	suarries 67 57 1	ration plants 24 19 1	eting companies 148 145	and quarries 183 177	ration plants	companies 2	quarries 2	plants	16	quar-ries 16	ration plants 11 7 11 1	ating companies 44 56 41 22	### ##################################	plan
Satural gaseline Eltaminous cosl Fennaylvania anthracite Linestone, crushed and broken Sandatone, crushed and broken Sandatone, crushed and broken Sandatone, rough dimension Miscellaneous stone, crushed and broken Common sand and gravel Foundry sand Fire clay- Common clay and stale	nies 77 135 55 11 1 1 1 1 1 Operating compa-	tuarries 67 57 5 1 1 CHESTER Mines and quar	ration plants 24 19 4 1 Preparation	ating companies 148 145 145 10per-ating compa-compa-compa-compa-	and quarries IBS 177 187 CLARICE Mines and quar	ration plants	companies 2 2 Cl Operating tomps.	quarries 2 2 2	plants	companies 16 12 1 1 1 1 1 Operating compa	quarries 16 12 1 1 1 1 1 CLINTON Mines and quar-	ration plants 11 7 11 1	ating companies 44 36 41 12 Operating companing	the second secon	Prey
Natural gasoline Eltuminous cosl Pennaylvania mathracite Linestone, crushed and broken Sandstone, crushed and broken Sandstone, crushed and broken Cambon servent of the crushed and kroken Common sand and gravel Poundry sand Fire clay Common clay and shale	nies 77 18 55 55 1 1 1 5 Operating companies	thar-ries 67 57 1 1 1 CHELTES	ration plants 24 19 4 1 Preparation	ating companies 148 145 5 1	and quarries 183 177 5 1 CLARICE Mines and	ration plants 15 15	companies 2 2 2 Columnia Colum	quarries 2 2 2	Preparation	companies 16 12 11 11 11 Operating companies	quarries 16 12 1 1 1 1 1 CLINTON Mines and quarries	ration plants 11	ating companies 44	thines and	Prey
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(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nemproducing operations)

PENNSYLVANIA -- Continued

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All industries, total	19	15	7	21	22	11	38	47	8	43	43	8	2	2	1	127	146	56
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All industries, total	30	81	30	1.6	18	8	11	14	n	1.6	19	6	112	153	58	17	17	8
Bituminous coal— Pennsylvania anthracite— Iron ore— Copper ore— Linestone, crushed and broken— Linestone, rough dimension— Sandatone, crushed and broken— Linestone, crushed and broken— Linestone, crushed and broken— and broken— Cesson sand and gravel— Poundry sand— Bodin and ball clay Fire slay—	25	26 1	26 	7 7 1 2	7 7 7	7	1 1 1 8 1 1	1 5	ANTONIO PARTICIPATO DE LA CONTRACTOR DE	5 1	1 9	I desired to the second to the	An account 1995 and provided in the contract of the contract o	Antenore DA4 Antenore process spread a	Secretary and the secretary an	To desirable the second of the	and relatives and an artist and a second and	Government of the Particle of

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

PENNSYLVANIA - Concluded

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All industries, total	21	3	21	79	87	9	3	3	2	101	118	6	2	2	2	13	15	
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(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

RHODE ISLAND

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INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nios	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Frepa- retion plants	Oper- ating comps- sies	Milnes and quar- ries	Prepa- ration plants
All industries, total-	20	21	1.6	2	2	1	2	2	1	5	3	3	9	1.0	10	4	4	1
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(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

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industry	Oper- ating compa- mies	Mine and quar ries	rat	epa- tion ants	Oper- ating compa- nies	Mines and quar- ries	Preparation plant	on l	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	ats	ng pa~	Mines and quar- ries	Prepa- ration plants
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104	Oper- ating compa-	Mines and quar-	ration	ating compa-	wines and quar-	ration	Oper- ating compa-	Mines and quar-	Prepa- ration	Oper- ating compa-	Mines and quar-	Prepa- ration	ating compa-	Mines and quar- riss	Prep ration
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See fectactes at end of table.

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

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	perbie, rough dimension	1						-			Spring.	History	*****	1	1	1	Anth-un-ri Establisher	Augustia Barteria	Appropriate on the
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(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

TENNESSEE—Concluded

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All industries, total	8	2	2	1	1		1.5	15	3	1	1	1	12	13	15	1	3	
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Industry	Oper- ating compa- nies	Nines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- sting comps- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants
All ladustries, total	2	2	2	9	9	1	3	5	1	1	2	1	4	4	1	3	3	
Bituminous coal— Copper ore Linestone, crushed and broken— Common sand and gravel— Common clay and shale	1 1	1 1 1	1 1	9	9	1	1	1 	1	1	2	1	1	3 1 —	1	2	- - 1	
gang and consider the color of the state of		RCANE			SCOTT		s	equatch	IE		Shelba			SULLIVA	N		UNION	
Industri	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Wines and quar- ries	Prepa- ration plants
All industries, total	2	2	1	10	10		4	4		5	5	3	2	3	2	1.	1	
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All industries, total	3	3.		2	3	2	2	4		9	9	4	1	1	1	1	1	
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(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

TEXAS

					4 TOTAL	-									
		STATE			adasa			ariners		ı	Poeltea			aranga s	
INDUSTRI	Oper- sting comps- nies	Mines and quar- ries	Prepa- retion plants	Oper- ating compa- nies	Mines and quer- ries	Preparation plants	Oper- ating comps- miss	Winee and quar- ries	Prepa- retion plants	Oper- aling compa- mies	Mines and quar- ries	Prepa- retion plants	Oper- eting compa- nies	Mines and quar- riss	Prepa- sation plants
All industries, total	246	192	282	4		5	1	1	1	1	1	1	1		1
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Irea are	2	1	1	-		=			-	-	*******		Standard Amilia	40-45-90 (E	
Silver orden	2 2	2 2	1 2				10-10-10-10-10-10-10-10-10-10-10-10-10-1		-	-		******	in the same	STORY OF	********
Linestone, crushed and broken	21	24	1 77					-		*******		Markette Markette	inn in elitarios		
Linestone, rough dimension		3	1				*****	*****				-	****	(Dynamica) (Debroom)	
Granite, rough dimension	7	7				######################################		-				Brugor or	drawistics	-	
Basalt, crushed and broken	1	1	1 1									MC249-9771	*******	*******	******
Marble, erushed and broken	1	1	i					Marian Marian		enter de service	Chrostoch (No chrotelle	Water in	to topicide do	20/Fau	
Miscellaneous stone, crushed and broken		5 54	3								SOUTH THE SAME	distance.	7900-au 18194.		
Slass sand	2	2	2				******	-			Marketon	######################################	off the specific to	******	
Foundry sand	2 8	2 6	2							~~~	201 111 111 122	wan	-		-
Pire clay	. 5	5	1				1	1	1	1	1	1	arabanahan	minus Confessor	*****
Common vlay and shale	26 9	52	1				1	=		********		.00.000	and sections and		
Bestonite	5	10	7 5						******	******	Special specia	www.ds Dydawn	101-1-10-10-10-10-10-10-10-10-10-10-10-1		
Oypous Hative asphalt and bitumens	6	8	1 1 1 3 54 2 2 4 1 7 8					300 min and 100			estratoronio	ED-METO-1770	*****		
Materal modium compounds	3 2	3	3				*******				distriction	Market Street	Selection of the Selection	(Property	-
Rock salt-	2	2	2							601/401/40-144 ht	******		-		-
Sulfur-	1	5							12-24-10	***************************************	-		Minister Co.		
· ·		ARCHER			7480064			LUSTIF			nather			DELL	
INDUSTRY	Oper-	Mines	Prepa-	Oper-	Kines	Preps-	Oper-	Hipos	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines	Presa-
	ating compa- nies	and quar- ries	ration plants	ating compa- nies	and quar- ries	ration plants	ating compa- mies	and quar- ries	ration plants	sting soups- pies	and quar- Flos	retion placts	ating compa- nies	end quar- ries	ration plants
All industries, total	1		1	2	2	2	1		1	4	4	1	1	1	1
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Maite							***************************************		10/24400/10:	2	2	#***	March (F75	*******	********
Common sand and gravel-				2	2	2		an an board	****	on Williams	Day To	estracture estracture	1	1	1
Pire clay							*****			1	1	1	and the standards		
Common clay and shale-										1	1				
		BKXAR		·	BONTE		. I	MAZORIA			BRA 208			ermitei	1
IMDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Hines and quar- ries	Preps- retion plants	Oper- sting compa- nies	Mines and quar- ries	Prepa- retion plants	Sper- eting segge- mics	Minee and quar- ries	Prope- retion plants	Oper- ating comps- nies	Mance and quar- ries	Prepa- retice plants
All industries, total	11	11	8	1	5	3	4	2	2	1	1		2	2	2
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Bataral gasoline							2	**************************************	2	Market and	*****		2	2	2
limestone, crushed and broken	3	3	2				****		94-0000-19	***************************************	****		***************************************	en autore	-
Common sand and gravel-	5	5	5	1	5		*****	Martin Age		****	SE COMPANY	****	Addresses on an	talephy/dista. yearne height	AMMANIM
Comen clay and shale-	2	2					****			1	1	39-780-41-41	According September		alperto de relación con
				****			2	2			40 m Ann	*****	area raterino	New Assessment	***************************************
		BRISCOR	<u> </u>	10.302113339445A	BROOKS			BECHN			enest			CALHOON	
		Γ	T					pulphysicanska-raint versus	*****	***************************************	441		(100 eer +	Kines	
INDUSTRY	Oper- ating comps- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Kines and quar- ries	Prope- retion phasts	Oper- ating compa- nies	and quar- riss	Prepa- ration plants	Oper- sting compa- mics	Mines and quar ries	Prepa- retion plants	eting mapa- vies	and quar- rles	Propton placts
All industries, total-	2	2	2	1	1	1	£	2	3	3	5	4	1	Carrier activity	1
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Paller's earth	2	_ ^		1	1	1	***************************************	****	\$4 APPEND OFF	and an along	University	W-Paker	************		3946-10440-000

See footnotes at and of table.

(Exclasive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

TEXAS-Continued

	c	KLLAHAH			CARSON		Power Description Community on Community	CASS			CLAY			COLEMAN			COLORAI	ю
	Oper-	Mines		Oper-	Mines		Oper-	Mines		Oper-	Mines		Oper-	Mines	D	Oper-	Mines	T
industri	a ting compa- mins	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- mies	and quar- ries	Propa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa ratio plant
All industries, total	1		1	5		8	4	2	2	1		1	2	1	1	2	2	
staral gasoline	1	****	1	5		8	1	1	1	1		1	1		1			
ommon sand and gravelommon clay and shale							1	1					<u>-</u> 1	 1		2	2	*****
		COMAL		ermmoverici C	OMANCHE			CRANE		c	ULBERSO	M		DALLAS			DEN TON	<u>l</u>
iwegetry	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines and	Prepa-	Oper-	Mines and	Preps-	Oper-	Mines	Prepa
	ating compa- nice	and quar- ries	ration plants	eting compa- nice	and quar- ries	ration plants	ating compa- nies	and quar- ries	ration plants	ating compa- nies	quar- ries	ration plants	ating compa- nies	quar- ries	ration plants	ating compa- nies	and quar- ries	ratio plant
All industries, total	2	2	1	1	pa 1114	1	1		1	1	1		9	10	9	2	2	
atural gasoline				1		1	1	****	1									
diver ore	2	2	<u>-</u>						~	1	1		2	2	2			
common sand and gravel													6	7	, î	1	1	
Common clay and shale													1	1		1	1	
	-	DUVAL			astlani ') T	-, 1 /4 = 11 = 0.00	ECTOR			RLLIS			EL PASO) T		ERATH	
INDUSTRY	Oper- ating comm- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Preprati
All industries, total-	1		1	7		9	3		4	4	4	1	5	6	5	1		
fatural gasoline	1		1	7		9	3		4							1		
Amestone, crashed and broken						~~~~					1		5	5	5			
Saelin and bell clay										1		1	1	1				
Common clay and shale										3	3							
		PA YETTE			Fisher			FLOYD			FOARD		1	ORT BEN	D	-	la lvest	ON
Industry	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines	Pres
	eting comps- mies	and quar- ries	ration plants	ating compa- mics	and quar- ries	ration plants	ating compa- nies	and quar- ries	ration plants	ating compa- nies	and quar- ries	ration plants	ating compa- nies	and quar- ries	ration plants	ating compa- nies	and quar- ries	rati plan
All industries, total	4	5	4	2	3	1	1	1	1	1		1	1	1		1		
Satural gasolina			Starte value			******				1		1				1		T
Common sand and gravel	2	2	2				1	1	1									-
Bendont Lemman mercana series mass anti-anni-	2		3	2	3	1												
Bulfar		******											1	1				
	•	illese)	i i i i i i i i i i i i i i i i i i i	4	ON ZALJE	1		GRAY			ORA YEOR			GRECKO	4		JUADA LU	PE
Industry	Oper-	Mines	Prepa-	Oper-	Mines and	Prepa-	Oper- ating	Mines	Prepa-	Oper- ating	Mines and	Prepa- retion	Oper- ating	Mines and quar-	Prepa- ration	Oper- ating compa-	Mines and quar-	Prop reti plan
	sting compa- nies	and quar- ries	retion plants	ating compa- mics	quar-	ration plants	compa- nies	quar-	ration plants	nies	quar- ries	plants	compa- nies	ries	plants	nies	ries	1
All industries, total	сожра-	quar-	ration	офира	quer-	ration plants	comps-	quar-		сопре-		plants 1			plants 10		2	
Matural gasoline Grantte, rough dimension	nies	quar- ries	retion plants	nies	quar- ries	plants	compa- nies	quar- ries	plants	compa- nies	ries		nies	ries	ļ .	nies		-
Hatural gasoline Grantte, reach dimension Miscellaneous stone, crushed and broken	compa- nies	2	ration	nies	quarries	plants	nies 10 9	quar- ries 1	plants 14	nies 1	ries		10 10	ries	10	2	2	
Hatural gasoline Grante, rough dimension Missellansons shone, crushed and broken Common sand and gravel Common clay and shal	compa- nies	2	retien	nies	quarries 1	plants	nies 10	mar- ries	plants 14 15	ecompa- nies	ries	1	nies 10	ries	10	2	2 1	
Hatural gasoline Granite, rough dimension Miscellaneous stone, crushed and broken Common sand and gravel Common clay and shale Paller's earth	compa- nies	2	ration	nies	quarries 1	plants 1	nies 10 9	quarries 1	plants 14 15 1	ries 1	ries	1	10 10	ries	10	2	2	
Hatural gasoline Grante, rough dimension Missellansons shone, crushed and broken Common sand and gravel Common clay and shal	nies 2 1	2	ration	nies 1	quarries 1	plants	nies 10 9	mar-ries	plants 14 15 1	in the second se	ries	1	10 10	ries	10	2	2 1 1	
Hatural gasoline Granite, rough dimension Hiscellaneous stone, crushed and broken Common sand and gravel Common clay and shale Paller's earth Oypens	ples 2 1	2 1	retion	l l	quarries 1 1 1 RARRIS	plants	10 9	mar-ries 1 1 HARRISO	plants 14 15	companies 1	l l l l l l l l l l l l l l l l l l l	1	10 10	HIDALOG	10	1 1	2	
Habural gasoline Granite, rough dimension Miscellaneous stone, crushed and broken Common sand and gravel Common clay and shale Paller's earth Oppose	companies 2 1 Cperating compa	PARDEMAN	Preparation	companies 1 Operating compa	quarries 1 1 1 EARRIS Mines and quar-	plants 1 1 Preparation	companies 10 9 1 1 Operating companies	HARRISO Mines	Preparetion	ompanies 1 1 Operating	ries	1 1 1 N Preparation	nies 10 10 Coperating	ries	10 10 10 Preparation	2	2 1 1	Pre
Hatural gasoline————————————————————————————————————	companies 2 1 1 Operating	PARTITION 1	retion	companies 1 Operating	quarries 1 1 1 EARRIS Mines and	plants 1 1 Preps-	companies 10 9 1 Coperating	ries 1 1 1 HARRISO Mines and	plants 14 15 1 Prepa-	ompanies 1 1 Operating	l l l l l l l l l l l l l l l l l l l	1 1 1	10 10	ries	10 10 10	nies 2 1 1 Coper- ating	2 1 1 1 HOOD	Pre
Hatural gasoline Granite, rough dimension Hiscellaneous stone, crushed and broken Common sand and gravel Common clay and shale Paller's earth Oypens	companies 2 1 Cperating compa	PARDEMAN	Preparation	companies 1 Operating compa	quarries 1 1 1 EARRIS Mines and quar-	plants 1 1 Preparation	companies 10 9 1 1 Operating companies	HARRISO Mines	Preparetion	companies 1 1 Operating compa	l l l l l l l l l l l l l l l l l l l	1 1 1 N Preparation	nies 10 10 Oper-ating compa-	HIDALO:	10 10 10 Preparation	nies 2 1 1 Oper-ating compa-	1 1 1 HOOD Wines and quar-	Pre
Hatural gasoline Granite, rough dimension Miscellaneous shome, crushed and broken Gommon sand and gravel Common clay and shale Paller's earth Oypeus INDUSTRY All industries, total	companies 2 1 Cperating companies	PARTITION 2	Preparation plants	compa- nies 1 Cper- ating compa- sies 14	marries 1 1 RARRIS Mines and quarries 13	plants 1 Preparation plants	companies 10 9 1 Operating companies	HARRISO Mines and quarries 2	Preparetion plants	companies 1 1 Operating companies	l l l l l l l l l l l l l l l l l l l	1 1 N Preparation plants	nies 10 10 Oper-ating companies	HIDALGO Mines and quarries	10 10 10 Preparation plants	nies 2 1 1 1 Cper-ating compa-nies	HOOD Wines and quarries	Pre
Hatural gasoline Granite, rough dimension Hiscallaneous stone, crushed and broken Common sand and gravel Common elay and shale Paller's earth Oypens INDUSTRY All industries, total Hatural gasoline Lignite Common sand and gravel	companies 2 1 Coperating companies	Ties 2 1 1 RARDEMAN Mines and ries 2	Preparation	compa- nies 1 Cper- ating compa- nies	eparries 1 1 EARRIS Mines and quarries 13	Preparation plants	companies 10 9 1 Operating companies	HARRISO Market Substitute of the substitute of t	Preparation plants	companies 1 1 Operating companies	l l l l l l l l l l l l l l l l l l l	1 1 1 N Preparation plants 2	nies 10 10 Operating companies 2	HIDALGE Mines and quarries 2	Do lo lo lo lo lo lo lo lo lo lo lo lo lo	nies 2 1 1 1 Coperating companies 1	HOOD Mines and quarries	Pre
Hatural gasoline Granite, rough dimension Hiscollaneous shome, crushed and broken Common sand and gravel Common clay and shale Paller's acris Oppose INDUSTRY All industries, total Hatural gasoline Lightle Common sand and gravel	companies 2 1 1 Coperating companies 1	quarries 2 1 1 1 RARDEMAN Wines and quarries 2	Preparation	compa- nice 1	eparries 1 Incomparies Minos and quarries 13	Preparation plants 14 8	Operating	HARRISO Rines and quarries 2	Preparation plants	eompa- nies 1 1 Coper- ating eompa- nies 5 2 1 1	l l l l l l l l l l l l l l l l l l l	Preparation plants	nies 10 10 Operating companies 2	HIDALOG	10 10 10 Preparation plants	Operating companies	HOOD Wines and quarries	Pre
Hatural gasoline Granite, rough dimension Hiscallaneous stone, crushed and broken Common sand and gravel Common elay and shale Paller's earth Oypens INDUSTRY All industries, total Hatural gasoline Lignite Common sand and gravel	companies 2 1 Coperating companies 1	PARDEMAN Mines and quarries	Preparation plants	Operating companies	eparries 1 1 EARRIS Minos and quarries 13	Preparation plants 14	Operating companies	HARRISO Mines and quarries 2	Preparation plants	ompa- nies 1 Oper- ating compa- nies 5	l l l l l l l l l l l l l l l l l l l	1 1 N Preparation plants 2	nies 10 10 Operating companies 2	HIDALOG Mines and quar- ries	10 10 10 10 Preparation plants 1	nies 2 1 1 1 Coperating companies 1	HOOD Mines and quarries	Project

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

TEXAS—Continued

And the second s					***************************************				The American Specimens (19)	ellerik i kildakka arrawa wasa wite-	- Britannika nakasan sa ga Britania sa silika pula ngga sa	person have been been an and an and an an and an an an an an and an an an an an an an an an an an an an	ger et make y demokracy gar, sig Ger et make vot enforces in '	CATTERNATURAL AND AND AND AND AND AND AND AND AND AND	90511711170		paggaghtuabsans	
		HOPKINS			HOUSTON		enterprised papers of a chapters	ROMARD	grid i monant and and a	1	ive opet n	i	1	richinac			JACE	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plents	Sper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- ndes	Mines and quar- ries	Prepa- ration plants	Oper- ating cumpa- mics	Minos and quar- rios	Prepa- ration plants
All industries, total	1	1		1		1	1	1	1	2	2	2	\$		11	4	1	4
Hatural gasoline	=	==		1		1	*****	districtive Stripping	*****		******	36 (females as 46 (e. 48	5	96-20-14 We 20-14	11	8	1	3
and broken Common sand and gravel Kaclin and ball clay Pire clay		=					1	1	1	1	1	1	the contract of the Albert of Albert descrip	Angreia Angreia Marana	The processor	ngio- late 400 oil. cologia morala anti partitirado	propher propher photon	WATER TO THE STATE OF
		EFFERSO	N I		JONES			Liberty	10000000000000000000000000000000000000		IMES PAR	Parameter	***************************************	Louisia	Destruction of			1
1	Oper-	Mines		Oper-	Mines			-			7	1		Liano	·		Line	
INDUSTRY	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- eting compa- nies	Mines end quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Propa- vetion plants	oper- ating compa- mies	Manes and quar- ries	Prepa- ration plants
All industries, total	1	1	1	2	2		2	1	2	1	1	350 (mm 1 mm 1 mm)	6	6	2	1	1	1
Natural gasoline				M. 400-41			ı		1	77-19-7-08			profess.	*****		Na. att e. se	The same days	W-39-804-1-0-4
Idmestone, rough dimension Oranite, crushed and broken				2	2	*****		~~~		10 mm to 100		******	1		1	and the same		********
Granite, rough dimension								*******	*	******			4	4	UP-2-1744	MAN		MANUE TRUIT
Marble, crushed and broken Common sand and gravel	1	1	1				1	1	1	Approximately and the second			1	1	1	10 mm 10 mm	(00 PM 10	gap gap and a series
Common clay and shale							*****			1	1	10	4.00			4-1-7		Aug Tags T T TE CARRIES
Natural sodium compounds										****						1	1	1
		ic Lennan			MARION	,	-	MASON	,	1	MATERIO CORPO	ŭ.	kana a managan kanan sa	MEDIKA		-	MILAN	
Industry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- miss	Mines and quar- ries	Prepa- retion plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Sper- ating compa- nice	Mines and quar- ries	Prepa- ration plants	Oper- eting compa- nies	and quar- ries	Prepa- ration plants
All industries, total	3	4	3	1		2	1	1		2	1	2	1	1		5	8	1
Natural gasoline				1		2				1	## AT WAT	1						-
Mgmite													****			2	2	Mark Course
disestone, crushed and broken branite, rough dimension	2	2	1				1	1		304000			W-1014-1	M-1814		MAX. (80.00)	w.c7*;w	distribution of the same
Common sand and gravel	1	2	2						77 (4 24 14	1		1	Moral Moral			1	1	1
Common clay and shale				~~~					-				1	1		24000 14000	y	
	<u> </u>	ON TAGUE		M(ON TROOMER	e T		HOGELE	hotesamous	NU	COCSOCS	instruction of the last of the		na vaenc	<u>L</u>)		HOLAH MALON	atramanyan ranga
	Oper-	Mines		Oper-	Mines	Ī	Oper-	Mines	1	Oper-	Mines		Oper-	Manes	1	Oper	Mines	T
INDUSTRE	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- mies	and -raup ries	Prepa- ration plants	ating compa- miss	and quar- ries	Prepa- ration plants	ating compa- mies	And quar- ries	Propa- ration plants	eting compa- nics	and quar- ries	Prepa- ration plants	ating ecops- nlss	and quar- ries	Prepa- retion plants
All industries, total	1	1	1	2		2	5		5	\$	2	1	1	1		2	2	1
Hatural gasoline	 			2		2	5		15			THE WAS IN	b- 10-10-17			1	1	1
Common sand and gravel	1	1	1							1	1		1	1	-)Maria valuel		
Puller's earth										2	1	1	**************************************	30 My 64 90 gg	Martin State (44	1	1	20 m/m - con-
	1			 	<u></u>	<u></u>		ALO PIN'			PAHOLA	<u> </u>		PARKER		According to	POLK	
industry	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines	***************************************	Oper-	Maes	Prepa-	Oper-	M.nes	Prepa-	Sper-	Hines	Prepa-
3700 A S A S A S A S A S A S A S A S A S A	ating compa- nies	and quar- ries	ration plants	ating compa- nies	and quar- ries	ration plants	ating compa- nies	and quar- ries	ration plants	ating compa- nies	end quar- ries	ration plants	sting compt- nies	quar- ries	ration plants	compa- nias	quar- ries	ration plants
All industries, total	9		9	1	1	1	2	1	1	1		1	2	2	popular seem	a decreasions	1	2
Matural gasoline	9		9				1		1	1	4,014	1	age 250 100 100	Strange	##### **	1		1
Sommon sand and gravel				1	1	1	1	1	****	Market	ASC SECTION TO SECTION	##-05-00-04 ##-05-00-06	60 or ~1.00 (Beep 1)674	Mineral Art	sat-Black Cr Ap its Intak	(up - 41-44)/dg	evolves	An about a part of
Foundry sand	1							-	*****	(markim	890,140-111 200,987.77	at a no	2	 D	ARIAM PROFES	1	1	1
Common clay and shale									100 m m	*****	1	-		1	1	-	l.	
		POTTER			PRESIDI	0		REAGAN			refuci	0	1	ROBERTS:			WHEN	
industat	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants	ating compa- miss	Mines and quar ries	Prept- pation plants
All industries, total-	3	1	3	1	1	1	1	†	1	2		2	1	1	1	5	an oran	ũ
	<u> </u>	₩		<u> </u>		******************************	***************************************	+	direction of	***********	-	***************************************	Maria de la ca	6 To	A CO TOWN	\$	PM 44-14	6
Saberal gasoline Silver ere Common sand and gravel		1	1	1	1	1	1	***	1	2	managericht malatericht managericht	*****	32-1-	1	1	2.00 T	******	Sign hausen *** : provide sign allegen **Sirinder sign hausen : un nammen population

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

TEXAS—Concluded

	SA	JACIN	10	San	PATRIC	10	88	ACKELPO	RD		SHELBY			SMITH		8	TEPHEES	
INDUSTRY	Oper- sting comps- nies	Mines and quar- ries	Prope- ration plants	Oper- ating compa- mics	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines quer- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nion	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1	1	2	1	2	2		3	1		1	1	1		Б		7
sturel gasoline- common sand and gravel- common clay and shale-	1	 1	<u>1</u>	1 1	1	1	2		5	1		1		=		5		7
Militaria de la caracteria de la composición de la composición de la composición de la composición de la compo	s	TON BWA I	Ţ		tarran t			TERRY			11108			TRAVIS	·		TRINITY	
imustri	Oper- ating compa- nice	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nice	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1	1	2	2	2	1	1	1	1	1		6	6	4	1	1	1
Lignite Limestone, crushed and broken- Common sand and gravel Common clay and shale Bentonite Natural sedium compounds	1	1	1	1	1	1 1	1	 1	1	1	1		1 4 1	1 4 1	4	1	1	1
		upton			UVALION	Marking political transfer	7	AN ZANI	T.	1	ICTORIA			WALKER	· · · · · · · · · · · · · · · · · · ·		WARD	%:
Iministry	Oper- ating compa- mies	Mines and quar- ries	Prepa- retion plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1		4	4	4	2	1	2	2	5	3	3	5	5	4	1	4
Hatural gaseline Baselt, crushed and broken Baselt, crushed and broken Common mand and gravel Beelin and bell clay- Fullar's earth Mattive asphalt and bitumene Rock selt— Rock selt—	1	1	or many	1 3	1 3	3	1	1	1	2		8	1	1	1	1	1	3
	1	WEBB	<u> </u>		WHARTO	1		WHERLE	<u> </u>	 	WICHITA	<u> </u>	1	MILBARG	<u>l</u> Er	1	TLLIAME	iori
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- sting compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- sting compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1	1	2	2		Б		5	10	1	12	2		2	3	5	1
Natural gasoline Bituminous soal Liaestone, crushed and broken Liaestone, rough dimension Common sand and gravel	1	1	1	2	2		5		5	9	= 1	111	2 =====================================	-	2	2 1	= 2 1 =	1
		WILSON			WINKLE	R		WISE			WOOD			YOA KUM			YOUNG	
AHDUSTEY	Oper- ating compa- mies	Mines and quar- ries	Prepa-	Oper- sting compa- nies	Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	Prepa- ration plants		Mines and quar- ries	ration		Mines and quar- ries	Prepa- retion plants
All industries, total	2	2	1	3		3	4	4	1	2	2		1		1	3		8
Natural gaseline Bituminous coal Lignite Linestone, crushed and broken Common sand and gravel Common clay and shale	1 1	1	1	S property and the state of the	10 m 10	3	2 1 1		1	2	2		1		1	3		

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and monograducing operations)

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				7,			UIA	I I			THE ASSOCIATION OF THE STREET							
			LTB			BRAVER	***************************************		BO	e elder			CACI				CARRON	
INDUSTRI	Oper- ating compa- nies	Min sa qui ric	nd P	repa- ation lants	Oper- ating compa- nies	Mines and quar- ries	Preperation plant	in a	ting	2022 Tes	Prepa- ration Plants	Oper- aling compa- nice	and cuar	Pre	d.em	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	158	,	185	56	6	6		1	2	2	APRONE CONT.	2	-	2	2	27	28	1
Bituminous coal-	- 50		51	1	**********					-								
Iron ore	27		2 -				-	-	1	1	******				r-Phirtopia	26	27	-
Silver ore	ີ່ ນໍ		22 -	2				- -	-		*********	-	DR-20-00	-		I	Approximate .	
Course Crammannana	1 7		2	2				_ _	1	1	************	SPRENGER	-	-			A614-May	49-4030-07120-08191
Lead ore	1 19		22	6	5	5	-	- -				-	****	-	-]		***************************************
Zinc ore	1 3		2 8	2	1	1	-	- -			****						on things are as	-
Limestone, crushed and broken-	10		10	ê							Open State Serverse Com-			-			March 1600	
Sandstone, crushed and broken-	1 .		1 -					- -			-			1	1		Mine and American	
Common sand and gravel	10		9 -	9				- -			****	1		1	1		~~~	the experience of the last
Common clay and shale-] ;		4]								******	*****		-			Mester company	-
Bentonite	1		1	1		3 1		- -	The Other in		the first operated and the second operated and the sec	1		4 4	The second secon		constraint control of the control of	-
Places per	1 1		1 -		1	1		- -			*********	-	****				-	
Hative asphalt and bitumens] ;		9	1 8 1							-	-			-		***************************************	THE RESTRICTION OF
Natural sodium compounds	1	L I	1	i				- -			-	-				1	1	1
Potash	2		2	1				- -			-	-			mate.		September 1	-
Rock salt	1 1		2	1 1	1	1		ī -				-	-	-	-		-	OP-REPORT AT STATE
	<u> </u>				-							-	-	-	-		The Earth Colonia	******
		DAVIS			DUCHESKE			BMERY	-		GRAND			IRON		T	Juli	Section Control of the Control of th
INDUSTRY	Oper- ating compa-	Mines and quar-	Prepa- ration plants	compa-	Mines and quar-	Prepa- ration plants	Oper- ating compa-	Mines and quar-	Propa-	Oper- ating compa-	Mines and quer-	Prepa- ration plants	Oper- ating	Mines and	Prepa- ration	a teaming	Mines and quar-	Prepa- ration
All industries, total	nies 1	ries 1	1	nies 4	ries 5	2	nies 15	ries 15	1	nies 5	ries 5	Pressua	nies	ries 5	plants	nies 15	rice	planta
				†	-						+	a parameter (1)	-	A STATE OF THE PARTY OF THE PAR	Market Services	100000	**	
Riturinous coal				=			18	13	1	2	2		2 1 1	2		-		10-00-00-00-00-00-00-00-00-00-00-00-00-0
Lode gold		_											1	1	-	1		De Principal de Santo
Bilver ore-											_		1	1		8	6	niudate to to read
Vanadium and uranium ore									-	1	-	William III	- State - Arter			1 1	8	-
Limestone, crushed and broken-										1	1		. SP TO SHAW	-	-	-		*************
Sandstone, crushed and broken													Samuela.		-	1 1	1 1	***************************************
Common sand and gravel	1		1								1 Divine		-				1 1 2	-
Mative asphalt and bitumens				4	5	2			=		=	_	1	1	The state of the s	2		1
		MORGAN			PEUTE		8	alt la	KR KR		i Bab Juah			Sanpets		-	DEVIE	identicipalistica (
Industry	Oper-	Mines		Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines		Oper-	Mines	T	Oper-	Mines	1
BROIRE	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	ration plants	ating compa- nies	and quar- ries	ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	sting comps- nics	and quar- ries	Prepa- ration plants	ating compa- mies	and	Prepa- ration plants
All industries, total	1	1	1	4	4		3.6	22	9	2	2	2	1	1		6	6	2
Bituminous coal-									T			-				2	2	
Lode gold				3	8		5	5			-				-	1		
Silver ore	*****						2	5 2					****		Name Landon	-	-	
Lead ore					3 -		4	5	2			******	**********	****	-	-	1	
Vanadium and uranium ore		<u></u>								2	5	2	-					
Masstone, crushed and broken	1	1	1				2	2	1							1	1	-
Bentoni te					_						-				-	1	7	1
Or pour								1								1	1	
Matural sodium compounds		=		1	=		1	1	1									
Rock salt-								=		-	-	-	1	1	Carpet Sandy	1	1	1
		SUMMIT			TOOKLE			UINTAN	1		UTAR			Wasa Toe		 	THE R	
TOTALONINA	Oper-	Miner	I _	Oper-	Mines		Oper-	Mines	T	Oper-	Mines	1.	Oper-	Mizes	************	Oper-	Mines	
Industry	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Propa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nice	and quar- riss	Prope- ration plants
All industries, total	10	10	1	22	2.5	9	5	6	*****	15	1.6	3	4	8	****	8	5	2
Mitminous coal		4					1	1		april are	-		*****			-		Quarter to make
1000 E016	1	1		10	10	2	-			2	4	******		*******		-		e-
Milver ore	2	2						_	******	1	1	440000	\$	4		-		sip/rowtr
Zinc ore	1	1	1	8	11	1							At configure.	1	ANGEL SANSE			and the second s
Assetons, organist and bushes				! 1	1	i				8	8	2	*******	100mints	-	-	**************************************	********
Common sand and gravel									-	2 5	1	1	6940000	6150PP		2	2	2
THE STATE OF THE PARTY OF THE P				1	1		-		-	E 43	5	(minimum)	-	,	apresionan .	19/19/14	Normal Control	-
Common clay and shala-				1	1 1		+0-17-77				-	74100100			-	1	1 1	pyriotes return top
Common clay and shale Matire asphelt and bitumens-	2	2		1	1		•	= 5				14100 1410			######################################	1	1	
Common clay and shale Mative asphalt and bitumens				1 -1	1 1	<u> </u>	(5			***	30000 at			and the same	1		SP-ST-STATES

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

VERMONT

			and the same of th				-				2.7 ohnt		-			
STATE					ADDISON				BENNINGTON				CALEDONIA			
Operating companies	24.793	rat	tion		Hines and quarrie	ratio	on Upe		Mines and quarries	Prepa- ration plants	Opera	cing	and	Prepa- ration plants		
60	77	,	21	5	5		5	1	1	1		2	2	1		
9 2 9 1 1 30 3	10		8 1 1 1 1 1 1				3	1	1	1		1	1 1 1	1		
2 1 1 5	1 1	L	1 1													
CHITTENDEN				PRANKLIN				GRAND ISLE				LAMOILLE				
Operating and		d ration		Operating and		ratio	on Ope		Mines Prepa- and ration quarries plants		Opera	ung	and	Prepa- ration plants		
2		2	2	3	8		1	1	1			2	2	8		
1		1	1	1			1 -	1	1			1	1	1		
ORANGE				eutland	WASHINGTON		•			WINDSOR						
Oper- ating compa- nies	BBS1	ration	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Vines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	ating	and - quar-	Prepa- ration plants		
2	2		85	46	5	8	9	2	2	2	1.	4	4	3		
2	2	****	2 	1 54	1	6	7	1	1	1		1	1	1		
	60 9 2 9 1 30 5 2 1 1 Companies Operating companies	Operating ompanies and companies of the	CRANCE Coperating and quarries plus plus plus plus plus plus plus plu	Operating occupances and quarries plants 60 77 21 9 10 8 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Companies Mines and plants Companies	Operating companies and quarrie	Cperating and quarries plants 60 77 21 5 5 9 10 8 3 5 2 2 1 1	Companies Mines and quarries Preparation plants Companies	Companies and quarries plants Preparation companies Companies	Companies Comp	Companies Mines and companies Compan	Companies and quarries plants Companies and companies and companies and quarries plants Com	Comparison Com	Companies Comp		

APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND FREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 1939 — Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-cervice and neoproducing operations)

VIRGINIA

				T	IMILIN	IA									
		STATE			lenari.		A	LLEnun		province and makes	ALCO TO SECURE			el ju je v	
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nics	Kines and quar- ries	Prepa- ration plants	Oper- ating compa- mies	Mines and quar- ries	Propa- ration plants	Oper- ating compa- nies	Kines and quar- ries	Prope- ration plants	Oper- ating compa- nics	Minos and quar- rice	Prepa- ration plants
All industries, total	221	255	115	2	8	2	2	2	2	2	2	£	4	3	**************************************
dituminous coal-	91	112	1.5				ON LETTE (B) ON				prostation we	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TO COMPANY TO CO	GEOGRAPHICA.	-
Iron ore	2	2					***************************************	40-40-cc src	-0-111400000		-	31 Arrighter	AND THE SERVICE	59949-5V100	-
	î	1	i				CONTRACTOR OF	transa.	phrenous.		Mark Lives	20 castras	Value or emple	4500a-11170	:Montonial Magnet
Venouvelle Orbania	5	8	2 1 3 2				Chromodian Chr	inacionis ficializada acceptada distante Ta	2	****	*******		- Marie Annes de la company de	in-te-in-st	
Titanium ore- Limentone, crushed and broken-	2 58	8 61	2 51				2			1	1	1	#- #- 53-60 56	- Marine Colores	
Linestone, rough dimension-	1	1					*********	E STATE OF THE STA	Services and the services are the services and the services and the services and the services are the services and the services are the services and the services are the services and the services are the services and the services are the services and the services are the services and the services are the services and the services are the services are the services and the services are the services and the services are the services and the services are the servic	morana.	9438477148 38184888		AL OF HEALTH AND	***************************************	- Annual Province
Granite, crushed and broken	4	6	6	*****				Weather the	Manage 441	terminant	antidace.es		*****		and a section
Resalt, crushed and broken	1	1 2	2	1				Western Co.	Maries estable		Since and the same of the same	27/20	CATH CANADA	(800 per com	and we special and second
Resalt, rough dimension	1	1	1 2				**********			Montes (Marson of)	***	to promote	designation (Street	Britania.	Written blooks
Sandstone, crushed and broken	1 2	1 2	1				Mark (Salt) ap			Delater dala	amore our	Hamilton Statem	Marito Mesonalist	100-100-100	.0048000.00-00-00.
Mate, crushed and broken-	î	2	2	1	1	1	*****	1100	\$4000000 \$4000000	Participants	Special State	in cures or	waven risksoni's	70.00000.000	
Slate, rough dimension	3	3					-	1000 G-10	Marterios	-	and the same of		-		
Marble, crushed and broken	1	1	1						On all country	Mine di dale	A0140-1-10		modeles Andre	- Continued Str	
Miscellaneous stone, crushed and broken	1	1 1	i						Particular.	Mines del state			Aprilla Michael	prince of	
	10	11	ıi l					(Day 1000)	arizottaka.	1	1	1	Management and the	****	
Common sand and gravel	2	2	2					*******	,00140130-347	Manufacture.	MM475-79		Secretary Section	Andreas Antonios	30-30-00-05-00-00
Saciin and ball clay	1	1	i i		-					h-man-	THE PERSON NAMED IN		Month out on the	- Alle Santonia.	
Common clay and shale	17	17	1				*********	*********					4	5	
Feldspar	1	1 4		-			***********			******	Spriggram on Spriggram on Spriggram on Spriggram on	Carlos Carlos	Open continue		Marie Control of the Albert
Оуреши	3	2	1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1		The second secon	1			Allering and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and	mosper-mar-		+	Service destri	*****	
Myanite, andalusite, and dumortierite	1 2	1 2	1 1						1/4-12-40-41	Administration	Sinter-Tirtle	wome	. Land Strate of the Control of the	// ***********************************	ramelto in these
Pyrites	í	1	i				-	2010000	-	-	Section (A.	Spettle to the	-	(Freedocked)	,
Tale and scapstone	2	2	2							*****	100000796780	4 -4	Commence and sale the	20000000	-
					<u> </u>		e pamentamber og uga arenga den gi, viligt er ken nydnaple i d	A CONTROL OF THE PROPERTY OF T				*************		ture exercis	
		AUGUSTA			BATH	,		BENFORM		*******	PLAND	.		OTETODIC	·
Industri	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Sper- ating scape- nice	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nico	Mines and quar- ries	Prepa- ration plants
All industries, total-	7	7	5	1	1	1	3	8	9075 Mari	2	ž	1	6	7	5
Iron ore									Paradia arang				7	2	
Iron ere	1	1	1				*******	************	277-77	E	3	1	1	1	
Limestone, crushed and broken-	3	3	2	1	1	1	***************************************	******	(CHEMBE)	AL-12/AND 1-12	4575-1949	A-8000 10	4	5	5
Sandstone, crushed and broken	1	1	1			70-T0-0-10	AND AND AND	(Aprellation)	2340040	PRINCIPAL STATE	40.45-14000	940-444-44 98-74-747-4			
Common clay and shale	i	î								territorium/decer	an-estric	ge/men/c	1	1	No. 15/1980 1 THE STATE OF
Foldspar							. 25	5		******	######################################	Des Philipports	60,4895/01-1-1-1	40 HOLDINGS	alternative and explor
2000		<u> </u>			Anne const					Organization and the control		an contract and an arrange	Principal Special Control	A CONTRACTOR OF THE PERSON NAMED IN COLUMN TO PERSON NAMED IN COLUMN T	
]	BUCHANAN	1	区	CKINGHAI T			CARROLL		CHA.	eles cri	X	UJ	no travi	1
10/DUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating comps- miss	Mines and quar- ries	Prepa- ration plants	oper- ating compa- nics	Misss and quar- ries	Prope- ration plants	Oper- sung sospa- mica	Hines end quar- rice	Prope- retion plants	Dper- tilng compa- nies	Einee and guar- ries	Prepa- ration plants
All industries, total	15	16	4	8	5	2	2	2	2	1	1 managanismis		2	4	8
Bitaginous coal-	15	16	4				****	-		*******	en-street tax	30 Mar 1820 11	30 WE-6144 TH	site constants	-
iode gold				1	1	1		-		94.95.7 0 116.95	291201022				-
Limestone, erushed and broken-							1	1	1		Subsection of the sale	and the column	40	****	*******
Slate, crushed and broken				1 8	1 2	1	00-00-00-000	*****	-	married at		por mala est	Manager of Parish	Spirito comp	Laken rakelydeun
Common sand and gravel								100000000		10 m/m-11***	op spredge	40000000	1	2	2
			1		-		**********			armana.	1	Bank west	1	1	1
Foundry sand			1							-	-	1		1	
Foundry sand Cosmon clay and shale Pyrites							2	1	1	- BASIS * 6 PK 174	- Antibioticals	igades ligitate	termenanters.		
Foundry sand							1	1	1	48-401 ************************************	TOTAL SECTION		227234225344		
Foundry sand Casson clay and shale Pyrites		CLARKE		ade da de de de de de de de de de de de de de	CRAIG			i Meren	1	ands return	CAEMBO	Andread Spirite	EL:	ZABUTH :	2277
Foundry sand Cosson clay and shale Pyrites	Operating companies	CLARKE Mines and quar- ries	Preparation plants	Oper- ating compa- nice	CRAIG Mines and quar- ries	Prepa- ration plants		la income	Proparation	ands return		Prepa- ration plants	Electrical States	Minos and quar- ring	Prepa- ration plants
Pountry aard Common clay and shale	ating compa-	Mines and quar- ries	ration	ating compa-	Mines and quar-	ration	Oper- sting prope-	Mines and quar-	Preparation	E Company	ICARADO Mines mai	Prepa-	Control	Minos and quar-	Prepa- ration
Foundry aand Common Calay and shale— Pyrites INDUSTRY All industries, total———————————————————————————————————	ating compa- nies	Mines and quar- ries	ration plants	ating compa- nice	Hines and quar- ries	retion plants	Oper- ating compa- nion	Minos and quar- riss	Proparation plants	Cour- aling compa-	Eines and Star Fien	Preparation plants	ones- ering compa- cies	Minos sort quar- rins	Prepa- pation plants
TNDUSTRY All industries, total bituminous coal- lametone, crushed and broken	ating compa- nies	Mines and quar- ries	ration plants	ating compa- nice	Hines and quar- ries	retion plants	Operating samplanes	Minos and guar- ries	Preparation plants	Department of the second secon	Mines and ries 7	Preparation plants	ones- ering compa- cies	Minos sort quar- rins	Propure Pation Dispute
Pountry and clay and shale— Pyrites INDUSTRY All industries, total—	ating compa- nies	Mines and quar- ries	ration plants	ating compa- nics	Mines and quar- ries	retion plants	Oper- ating compa- nion	Minos and quar- riss	Proparation plants	Tarrating	ines ines ines ries	Preparation plants	ones- ering compa- cies	Minos sovi quar- rios	Propa Pation plants

See footnotes at end of table.

APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND PREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 19391—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

VIRGINIA—Concluded

		Painpai	MOTE AND ADDRESS OF THE PARTY O	y	eanklin		F	REDERIC	K		OTLES		C	COCHLAN	מ	OF	BENSVIL	le
industry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total-	2	2	٤	3	5	2	4	5	5	3	5	8	1	1	1	2	2	
Limestone, erushed and broken-							2	5	2	3	3	2						-
Familte, crushed and broken	1		1	*****									1	1	1	1	1	
Common sand and gravel	ī	1	ī					1	1									
Slass sand	*****	400 MARIN					1	1	<u>-</u>							1	1	
Mica				2	2	1												
		BALIPAX			HENRICO	<u> </u>		LEE			LOUDOUN		LYNC	HEURG C	TITY	w	NTOOMER	
	Oper-	Kines		Oper-	Mines	r	Oper-	Mines		Oper-	Mines		Oper-	Mines	Ι	Oper-	Mines	
INCUSTRY	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Frepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants
All industries, total	2	2	2	6	6	4	18	25	1	2	2	2	1	1		- 5	5	
Bituainous coal.							17	22			_					4	4	
Lode gold	1	1	1				1	1	1	2	2	2				1	<u> </u>	
Granite, crushed and broken	1	1	1	1	1	1												-
Sandstone, rough dimension				2	2	2							1	1				
Foundry sand				1 2	1	1												
COMMON CITAL SUC BUSTS					2										<u> </u>			
		(ANSEMOR	1		NELSON			NORFOLK			OTTAWAY			PAGE			TTSYLVA	UNTA I
indestri	Oper- ating compa- nies	Mines and quar- riss	Prepa- ration plants	Oper- ating compa- nics	Mines and quar- ries	Prepa- ration plants	Oper- ating comps- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepar ration plants
All industries, total	1	1	1	3	5	2	1	1	1	2	٤	1	2	2	2	2	2	<u> </u>
Titanium ore				1	1	1		_										<u> </u>
Limestone, crushed and broken	1	1	1							1		1	2	2	2	1	1	
Oranite, rough disension								1		1	1							
Barita		=							1							1	1	
Feldspar Tale and scapstone				1	1													
	120011000000000000000000000000000000000	i Ince ede	1195		DNOK OBSO	90P		CE WILL	T.W								DO LUCIO	
	Oper-	Mines	r	Oper-	Mines		Oper-	Mines		Oper-	MCESS A	MME	Oper-	PULASK:	T	Oper-	ROANOKE Mines	
Industri	ating compa- nies	and Guar- ries	Prepa- ration plants	ating compa- nics	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	sting compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants
All industries, total	1	1	1	2	2	2	2	2	1	1	1		5	5	1	4	4	
Bitomineus coal-		_		*****									1	1				
Iron cre- Limestone, grushed and broken-													1	1				
Sandstone, rough dimension-		_					1	1					1	1	1	5	8	
Common sand and gravel				2	2	2	1		1	1	1					<u> </u>	1	
Eyemite, and almeite, and described to	1	1	1															
	BC	CHRIDO	R	M	CKINOHA	K		RUSSKLI			SCOTT		81	TRNANDO	H		SMITH	
ingustri	Oper- ating compa-	Mines and quar-	Prepa- ration	Oper- ating comps-	Mines and quar-	Prepa- ration plants	Oper- ating compa-	dnet	Prepa- ration plants	Oper- ating compa-	Mines and quar-	Prepa- ration plants	Oper- ating compa-	Mines and quar-	Prepa- ration plants	Oper- ating compa-	Mines and quar-	Prepa- ration plants
18	nies	rias	plants	mi-	rter :	P	ndaa					1 *	nies	ries		nies	ries 5	
All industries, total	nies	ries	ļ	nies	ries	ļ <u>.</u>	nies 18	ries		nies	ries	-		_	1 .			
All industries, total	nies 4	ries 4	plants 5	nies 7	ries 7	6	18	16	5	5	5	1	8	8	4	5		
Bituminous coal-	nies 4	ries	ļ		 -	ļ <u>.</u>		-				1	8	8	4			2000 A
Bituminous coal- Manganese ore Limestons, crushed and broken-	nies	ries 4	ļ	7	7	ļ <u>.</u>	18	15 14 1	5	5	4 1	1 1	8 8	= 8		5 1 5	1 8	21-20-21 21-20-21 21-20-21
Bituminous coal Manganese ore Limestone, crushed and broken Limestone, rough dimension Marhle, trushed and broken	nies 4	710s	3	7	7	4 1	18	16	2	5	5						-1	2000 A
Bituminous coal- Manganese ore- Linestone, crushed and broken- Linestone, rough dimension- Marble, crushed and broken- Marble, rough dimension- Glass sand-	nies 4	rice	3		 -	6	18	16	2	5	4			8			-1	21-20-21 21-20-21 21-20-21
Bituminous coal- Manganese ore Lines tone, rough disension- Marble, rough disension- Marble, rough dimension- Glass send- Common clay and shale-	A 4	**************************************	2	7	7	4 1	18	15 14 1	2	5	4 1			8		1 8	1 3 	21.484.4 21.484.4
Bituminous coal- Manganese ore- Linestone, crushed and broken- Linestone, rough dimension- Marble, crushed and broken- Marble, rough dimension- Glass sand-	nies	# 1	2	7	7 	4	18	15 14 1	2	5 4 1	4	1		8			1 3 	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Hituations coal Manganese ore Linestone, crushed and broken Linestone, rough dimension Marbla, crushed and broken Marbla, crough dimension Glass sand Common clay and shale Coppun	nies 4 2 1 1 1	2 1 1 1	2	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 4 1 1 1 1 1 1 PAZSHELI	4	18 12 1	15 14 1 1	2	1	5 4 1 1	1	8	WISE		1 5	3 3 	21-20-21 21-20-21 21-20-21
Bituminous coal Manganese ore Linestone, crushed and broken— Linestone, rough dimension— Marble, crushed and broken— Marble, rough dimension— Glass sand— Common clay and shale— Gypsum—	nies	# 1	2	7	7 	4	18	15 14 1 1 WARREN Mines and quar-	2	5 4 1 WA Operating	SRINGTO Mines and quar-	1	8 Operating compa-	WISE Mines and quar-		1 3 5 2 2 Coperating compa-	1 S TIME WITHER and quar-	Preps.
Hituations coal Manganese ore Linestone, crushed and broken Linestone, rough dimension Marbla, crushed and broken Marbla, crough dimension Glass sand Common clay and shale Coppun	2 1 1 Oper- ating compa-	ries 4 2 2 1 1 Wines and quar-	2 1 1 Preparation	4 1 1 1 Coperating compa-	7 4 1 1 1 1 Wines and quar-	6 4 1 1 1 1	18 12 1 1 Coperating compa-	15 14 1 1 THE PROPERTY WARREN	\$ 2 1	5 4 1 Operating	SRINOTO Mines and quarries	l Preparation	Operating companies	WISE Mines and quarries	Preparation	Operating companies	1 B WITHE Wines and	Proper retion plants
Bituminous coal- Manganese ore- Limes tone, crushed and broken- Limes tone, rough dimension Marbla, crushed and broken- Marbla, crushed and broken- Marbla, crushed and broken- Marbla, prough dimension Class sand Common clay and shale Cypsum INDUSTRY All industries, total Bituminous coal-	Poperating companion	ries 4 2 1 1 1 Wines and quarries	2 2 1 Preparation plants	7 4 1 1 1 Coperating companies 17	4 1 1 1 1 1 1 Mines and quarries 19	Freparation plants	18 12 1 1 Cperating companies	15 14 1 1 1 WARREN Mines and quarries	2 1 	4 1 1 WA Operating companies	SRINGTO Mines and quar-	Prepa- ration plants	Operating companies 24	WISE Mines and quarries 51	Preparation plants	1 3 5 2 2 Coperating compa-	1 WITHE Wines and quar- ries	Properation
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APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND PREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 1939-—Comtinued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

WASHINGTON

		-				T Permanana	ACHI LIV			ędialnącjąca, gcz		pathony potropy and pro-	galateroptas occipionali	Mintolinas nudels res	ercia resentantenta	Parusylobunateppii	terkej u gijatelelejka	
		STATE			ADAMS			CHELAN		edessor emerous company	CLARK	prosennium securit	ε		gan recent		CONLITY	p ve knowne menyember.
industry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Propa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- mies	Mines and quar- ries	Prepa- ration plants	Oper- eting compa- nies	Mines and quar- ries	Propa- retion plants	Oper- sting compa- miss	Mines and quir- ries	Prepa- ratiom plants
All industries, total	145	165	77	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1
pituminous coal	42 3	52 3	18						****	Major per dist	B-2010		and the state of t	29-79-1- 40 West	90 1000 FT	ger asserted		
1-41d	17	18	6				1	1	*			man m	Marie Sales	An oppose	60-101-F108	*******	Printer-er	- Standard Maritin da
Placer goldsilver ore	6 3	6 5	2						-				distriction	49 (Mar.	British Street	gar-renign-ri	10.794	INF WILL STREET
Canage AFE	3	3	î				1	1	1	*****		******	With the same	89 MEN	Market A	Mary California	Mary Space	
Lead ore	1 2	1 2	2							**************************************	O101-44	30-70-02-14 98-00-1-05	Martin (min	97-14 M	or necessary	parantena.	CF -100 (CR)	De Maria Arresta
Walvhdamum ore	1	1	1						TID 700	****		#W# 2019	****	ba-a-~	(M-100-10)	-	98 170 198	and the second
Tungsten ore	2 14	18	2 7						****	00-00 M199	grow of	AL	20 (9) (4) (4) (5) (4) (4) (4)	M-M-1		SD SD SD FF F	ar mah wroper	****
frankta, crushed and broken	2	2	1				W-16-01-01		*********	**************************************				*******	,00 at 100 to		MA MASSA	-
Granite, rough dimension	1 9	1 9	9				****			Springer and springer	in man	and the se	1	1	1	1	1	1
Sandstone, rough dimension	2	2							*****	Armiret-st	*********	\$4.50×40	Nation of the	40.00	## Operation	distribution of	Account	-
Miscellaneous stone, crushed and broken	1	2	2							-		#R-40-4-17	****	B3-6-7-	Kran even	#6-da-sin-yiy		grant southern the
Common sand and gravel	21	18	18	1	1	1				1	1	1			ACT and of read	90 de m-17	*******	00 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to
Foundry sand	1 3	1 5	1						****	-			******		dispersion of	and control control	-98-98-00. 186-186-08	\$ \$6.4 15.00 to
Common clay and shale	8	20	1							*****			*****	-	*****		***	p-1071 15-4
Magnesite and brucite	5	3 1	5 1				*****	***	*****	100 (Darker 14)	40 Mag	10, 17 mm					Market Company	4-4-4-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4-1-4
Pasta	ı î	1	1							W-14 DF-1	***			Mar en		(m. mayor (r)	w-,-	
Tale and sompstone	1	1	1											*******			****	transcontantanta
· · · · · · · · · · · · · · · · · · ·		DOUGLA	S		FERRY			Chan T	eponomico propins	COL	YS HARE	KOR.		eyyeds	XI		KENS	
INDUSTRY	Oper-	Mines		Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines	Prepa-	Oper-	Mines	Frens	Oper-	Mines	Prepa-
INDOIN	ating compa- nies	- quar-	mation	ating compa- nies	and quar- ries	ration plants	sting compa- miss	and quar- ries	ration plants	eting compa- mies	and quar- ries	rution plants	ecompa- nies	and quar- riss	ration plants	sting compa- mies	and quar- ries	ration plants
All industries, total	- 3	4	2	11	12	1	2	2	2	1	1	1	1	1	1	35	359	20
Bituminous cosl														(Statement)		1.9	2-4	11
lode gold				0	9	1			######################################	\$5000 AT 100			******	Marine And	programmes microstrotas	1	1	1
Placer gold	1	1		2 1	2				manar*	-	0.000			A41-10-A	94 mage	2	2	1
Basalt, crushed and broken										-	-		1	1	1	1	1	1
Miscellaneous stone, crushed and broken	1	2	2							******								
Common sand and gravel								_		1	1	1			AS-SE-TE-M	6	1	1
Foundry sand	i	1														1	2	
Common clay and shale								2	2			****				4	4	
We town to	1						-	- Hotomarous	-	-			-	-	dusaman		-bernandrie	
	L	KITSA			UTTITAL	} 		LEWIS	T	1	DRAN (KIA)	1 T		Mines	s T	Oper	Mines	
Industry	Oper- ating compa- nies	- quar	ration		Mines and quar- ries	Prepa- ration plants	oper- ating compa- mics	Mines and quar- ries	Prepa- ration plants	Oper- sting compa- miss	Mines and quar- ries	Prepa- retion plants	Oper- ating compa- nice	and quar-	Prepa- ration plants	eting compa- mies	and quar- ries	Prepa- ration plants
All industries, total	1			6	10	3	9	9	8	7	7	3	1	1	1	3	4	3
•	-	+		5	9	2	6	6	1					-			****	10 10 10 10 10 10
Pituminous coel-]	*****								1	1				TO SECOND	1	1	
lede gold	1								-	1	1	2		100 (0 PC)	-			
Flacer gold										ī	1	1		3000000 M010070	***************************************	2	2	2
Zinc ere															March .	1	1	î
Limestone, crushed and broken]		==				1	1	1		-		1	1	1		170 cm 000	
Common sand and gravel	1	1					1	1 1 1 1	1	sometime.		*******			- museum	-		
Diatomite	-			1	1	1		****			1			****	***************************************			
	 	PIERC	e l	 	SAN JUA	 	1	SKAGIT		1	Skamani	A		DACHONS	581		Sporar	I
INDUSTRY	Oper-			Oper-	Mines and	Prepa-	Oper-	Mines and	Prepa-	Oper-	Mines and	L.Ladine.	oper-	Mines	Prepa-	Oper- ating	Mi.nes	Prepa-
	sting compa	- quar	- mlante		quar-	ration plants	Account of	ries	plants	CO-CHANGE CO.	quar- ries	ration plants		quar- ries	plants		quar- riss	plants
All industries, total	15		_		4		2	2	1	1	1	1	6	e	1	3.0	10	E Approximation
Bituminous conl	10	10	1										144 1948a SA	1	Management of	******	W #44	Weights appoint
Copper ore							1	1				74-11 TO	2 2	2 2		Mary American	4-10-3-	****
Masstens, crushed and broken	<u> </u>			3	4			1		12-40-4	****	******	1	1	April 1999	1	1	Transportation
			- L	****		-			-	Mar-Mine	-	mwapu 3	Special Parks	Be 44.00	39-31 map	1 1	1 1	
mente, rough dimension								-	-	1 1	1 1	1 1						
Baselt, grushed and broken							*****				vannere	*******		NA CONTRACTOR	, april print per	60 mg - 07/07	4	3
Basalt, crushed and broken	1		3										3	1	1	, B	1	Management of the second of th
Grante, rough dimension———————————————————————————————————	1		3				****			garanan garan	victoriani sie rati co sie con via con spinisi	10 00 00 10 10 10 10 10 10 10 10 10 10 1	1	1	3	M-4-070		4
Basalt, crushed and broken	1 3		3	90 M 30 M					1	***	18.000 to	100 00 000 000 100 00 000 00 20 75 10 00	3	1	1	5 1 2	1 5	was a constant

MINERAL INDUSTRIES

APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND PREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 19391—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

WASHINGTON—Concluded

	and the second s			particular reserves to the con-														
		Stevens		1	HUNSTON		W	AHKIAKU	¥		WHA TOOM			WHI THAN			YA KTIM	
Thustry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- miss	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and ries	Prepa- ration plants
All industries, total	146	17	9	2	2	1	1	1	1	8	8	6	1	1	1	1	1	
Bituminess scal Iron pre- lode gold- filver ore- Lead ore- Molybdemum ore- Mungsten ore- Limestone, crushed and broken- Grunite, crushed and broken- Sandstone, rough dimension- Common sand and gravel- Pire clay- Compon clay and shale- Mungseste and brusten- Mungseste te and brusten-	11221124	1 1 2 2 1 1 2 4	1 1 2 3		1	1		1	1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	1	1	1	
Post to a management of the control										1	1	1						

WEST VIRGINIA

		STATE	1		BARBOUR			Berkeley			BOONE			BRAXTON	
Industry	Cper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nics	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	645	793	239	13	12		6	6	3	15	19	2	4	4	
Natural gascline	24		76												
Bituminous coal	557	721	107	13	12					15	19	2	4	4	
Limestone, crushed and broken	22	25	23				4	4	3						
Sandstone, rough dimension	1	1	10		****		*****	*****							
Common sand and gravel	14 3	16	18		-	*********	*****								
Foundry sand	ĩ	il	ill	*****	-										
Pire clay	9	2	3 1	-	-			******							
Common clay and shale	10	30	1				2	2							
Natural atrasives	6	7	5											**	
		BROOKE			CARELL		And Annual Control of	CIAY	fortide representation to the		DODORIDO	:		PAYETTE	
Industry	Oper- sting comps- nies	Mines and quar ries	Prepa- retion plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Uper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	25	27	2	\$	4	3	8	6	2	2		2	45	68	
Natural graciine	1		1	1		1	1		1	2		2			
Bituminous coal	24	26					7	6	î				44	67	
Common sand and gravel	1	1	1	2	2	2				****					
Class papa													1	1	1 :
Common clay and shale	All or Manager Maries			2	2										
		CILMER	franciscom estració		ORANT	Accessories and		REMBRIE	transment T		HANCOCK			HARDY	
工程3的位置化 Y	oper- ating compa- stas	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and cpar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	3	2	1	3	3		24	24	5	12	12	3	2	2	-
						 	-		 		-	 	 	-	
Batural gasoline	1		1												
Linestone, crushed and broken-	2	2	********	5	8		19	19		7	7			2	
Fire clay-							5	5	5	5	5	5	2		
		L		Colonica di Colonica (Colonica Colonica									l		-
		HARRISON			JACKSON	·**		JEFFERSO	K		Kanawka			LEWIS	·
Indestry	Cper- sting comps- nies	Wines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Frepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- retion plants
All industries, total	32	31	4	4	2	3	4	5	4	49	54	22	5	2	
Natural sassline	2	1				_		1	1	_		T		1	1
Eltasiana cosl	30	31	4	2		2				. 8		17	3 2	2	
Masstone, crushed and broken-		91	State of the last of the last				4	5	4	54	47	2	1 2	1	
Sandstone, rough dimension			****				1	-		ī	1				
Common sand and gravel		*******		1	1	1	*****			2	1 2	2			
Pire clay			-				*****			1	1				
Common clay and chale				1				******			3	1			
Matural abrasives															

See featnetee at end of table.

APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND PREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 19391—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and memproducing operations)

WEST VIRGINIA—Concluded

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INDUSTRY	Oper-	Mines	Prepa-	Oper-	Mines		Oper-	Mines	T	Oner-	Mines	1	Oper-	Mines	1	.	******	The second secon
INJUSTRI	ating compa- nies	and quar- ries	ration plants	ating compa- nies	and quar- ries	Frepa- ration plants	sting compa- sies	and quar- ries	Prepa- retion plants	ating compa- mies	and quar- ries	Prepa- ration plants	sting compa- miss	end quar- ries	Prepa- ration plants	Oper- ocapa- nice	Mines and quar- ries	Prepa- ration plants
All industries, total	2		2	36	60	16	50	75	32	22	27	3	6	5	*****	15	11	1
Haburel gasoline	2		2						100 despecto	2		8	-		-		-	
Common sand and gravel				36	60	16	50	78	32	76	26	mineral and	5	5		12	20	:90:(***N::00/7 46
Fire clay									****	1	1	40-40-40 91-40-40-71	an decrease	100-100-101 100-100-101	100 700 000000	1	1	1
netal control of the second of				<u> </u>	<u> </u>		<u> </u>						-		nonsuscensus;	-	L	becomentation.
	ļ	MERCER	T	<u> </u>	MINERAL	; Y	ļ	MINGO	T	160	MOMOALI	ia ,	***************************************	MOROAN	· · · · · · · · · · · · · · · · · · ·		n ichola	<i>5</i>
INDUSTRY	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- miss	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- mics	Mines and quar- ries	Prepa- ration plants	Sper- sting compa- miss	Mines and quar- ries	Prepa- ration plants	Oper- ating coups- mies	Mines and quar- rise	Prepa- retion plants
All industries, total	15	18	12	10	9	1	18	21	5	49	47	и	1	2	2	18	20	
Natural gasoline										2		8		Marienia	30-m 60pg			pr-on-mountaina
Bituminous coal	12	15	10	9	8		17	20	4	40	40	4	47 -10-41-41	-		18	18	
limestone, crushed and broken Common sand and gravel	2	2	2	1	1	1	1	1	1	2	2	2	4 0 (40 (40 (40 (40 (40 (40 (40 (40 (40 (4	20-00-70	an 49pa - n	A	(Bridge) Bridge(Br	~~~~~
Glass sand										1	1	1	1	1	1	(0-December 1	m m-1	
Foundry sand	1							*****					1	1	1	Million adjusts	*****	Mr. 651 7-751 74144
Bataral abrasives										4	4	4	ag-18-thia 19-19-seas	dd-sider dd-brail	Societa e a la secono dela secono de la secono del secono de la secono de la secono dela secono dela secono de la secono de la secono de la secono de la secono de la secono de la secono de la secono de la secono de la secono de la secono de la secono de la secono de la secono de la secono de la secono dela secono de la secono de la secono de la secono de la secono dela secono de la secono de la secono de la secono de la secono del	Mindo-Maria Altridays N		*****
		OHIO	L	,	PRODLETO	N	ř	Leasant	3		Peto			i Punsan	And the state of t	alaksan katang	RALKIGE	nandaratanani)s.
	Oper-	Wines	T	Oper-	Wines		Oper-	Mines		Oper-	Mines	·	Oper-	Mines	Y	Oper-	Mines	
INDUSTRY	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- miss	and quar- ries	Prepa- ration plants	ating compa- nies	and quar- ries	Prepa- ration plants	ating compa- mles	and quar- ries	Prepa- ration plants	eting comps- miss	and quar- ries	Prepa- ration plants
All industries, total	12	15	2	1	1	1	6	3	5	52	35	1	5	6		85	78	26
Natural gasoline						-	3		3	and the same of th	******	No. CORP. of B. In.		No. address.		AL TO -0 **	× 10-1	and the second second
Bituminous cosl	11	12	1				*******		and and	81	32	*****	å	€	***********	35	78	26
Limestone, crushed and broken	1	1	1	1	1	1	1	1	1	1	1	1	OR CONTRACT	18:18-4 18:18-4	AT ATT AT TO	******	Dir vetay	
Baturel abrasives							2	2	ī	tanat vivia	****	perameters.	40.70000m	TB; MAIN P	-30-10a-11-14	;1 * (p 1-en -~	Marin.	No SECTION TO SECUL
FEOGRAPHICAL STREET, S	,	ANDOLPH	I I		RITCHIE			ROANE			MYLLE			TECKER.	Anna y and the second special	egen nervyna er oan	TYLER	MANAGE COMMISSION OF THE PARTY
Industry	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- sting compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating compa- nies	Mines and quar- ries	Prepa- ration plants
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APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND PREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 19391—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

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APPENDIX A 283

APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND PREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 19392—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and numpreducing operations)

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See footnotes at end of table.



APPENDIX A.—NUMBER OF OPERATING COMPANIES, MINES AND QUARRIES, AND PREPARATION PLANTS IN THE MINERAL INDUSTRIES IN THE UNITED STATES, BY STATE, BY COUNTY, AND BY INDUSTRY: 19391—Continued

(Exclusive of the crude-petroleum and natural-gas industry and contract-service and nonproducing operations)

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^{*}Companies with operations in more than 1 county or in more than 1 industry are counted only once in the totals.
*Includes 1 tripoli mine in Ottawa County, Oklahoma.
*Recludes 1 distomite sine for which statistics are included with those for the associated mill in Rockingham County, New Hampshire.
*Includes 1 distomite mine in Norfolk County, Messachusetts.
*Recludes 2 tripoli mines for which statistics are included with those for the associated mills in Cherokee County, Kanaas, and Newton County, Missouri.
*Zhall other tables except the Tennescee table 2, State and County Statistics, figures for this mine and mill have been included with those for the sine-ore industry
would disclosure of confidential information.

APPENDIX B-METHODS OF COLLECTION AND SCHEDULES USED

In obtaining reports for the 1939 Decennial Census of Mineral Industries three general methods were used—the mail canwass, the use of regular Census field enumerators and special collection agents, and a joint canvass with the Bituminous Coal Division of the United States Department of the Interior, utilizing the mail and field facilities of both agencies.

Twenty-one schedules were used in collecting the information required in the 1939 census, compared with four schedules in the 1929 canvass. The 1939 schedules contained a larger number of inquiries and covered more types of mineral enterprises, including producers of crude petroleum, natural gas. and natural gasoline and contractors performing oil- and gasfield services. The inquiries in the schedules were adapted to the operating practices of individual industries and it is believed that they were more accurately answered by the operators.

Mail canvass .- For industries canvassed by this method schedules were mailed to operators from Washington. Field agents specially instructed with regard to the industries canvassed obtained delinquent reports. The mail-canvass method was used for most industries, including the metallic cres, and crude petroleum and natural gas, Pennsylvania anthracite, and other nonmetals.

Enumerative canvass .- Regular Census enumerators were used to obtain reports from industries covered by this type of canvass. The reports were forwarded to Washington for analysis, and a large portion was then completed or corrected by correspondence. Industries canvassed by enumerators were those producing stone, sand and gravel, clay, distomite, natural abrasives, talc and soapstone, and tripoli. These industries are characterized by small and widely scattered operations. Mailing lists, directories, or other means of locating producers were less complete for these industries and the Census field staff was used to locate unlisted concerns. Enumerators frequently aided operators to complete their reports; this facilitated earlier return of more complete and accurate schedules.

Cooperative canvass. - The canvass of the bituminous-coal industry was conducted jointly by the Bureau of the Census and the Bituminous Coal Division. Schedules designed to serve the statistical needs of both agencies were mailed to the operators, collected and partly checked by the field offices of the Bituminous Coal Division, and forwarded to Washington for final analysis and statistical compilation. Defective schedules were completed by correspondence from Washington.

Schedules used .- Of the schedules reproduced in this Appendix, the "Nonferrous Metals Schedule," "Crude Petroleum Schedule," "Oil and Gas Contractor Schedule," and "General Schedule" are examples of those used in the mail canvass. The "Stone Schedule" is typical of those used by Census field enumerators. The schedule for "Bituminous Coal Mines Over 50 Tons Daily Average" is one of the three drawn up jointly by the Bureau of the Census and the Bituminous Coal Division. Schedules used for the various industries are listed herewith: | records of drilling permits were consulted and special field

	PCRM NUMBER	SCHEDEL TITLE AND DEPOTED
		Mail Generate
	700-KO-YC 700-KO-Y	Pomnoylvania anthracite Pomnoylvania anthracite strip-pit contractor (strip-pit asso culm- bank contractors)
	100-K-L	Lignite
ı	100-MQ-P 100-M2-K	Srude petroleum
ŀ	100-10-0	Natural gastline
Ì	100-MQ-00C	Oil and cas costractor
	1.00-MQ-00P	Captural office formis petrology returns one and material encoder
	100-MQ-NF 106-MQ-NFS	Monfarrous metals (gold and aliver, copper, lead, and wine over) Nonfarrous metals—short form (smaller gold and milver operations
	100-MQ-P	Iron ore (iron ore, manganiferous iron ore, and manganese ore)
	100-MQ	Semeral achedule (antimony ore; ambestos; barite; baunite; chromate; feldepar; finorepar; graphite; greensand; gracom; leeland sper; kynatice; andalumite, and dumortientie; lithnium minerals; magnesite and brucite; mercury (quidomitver); makea; molybdomum ore; natural sodium compounds; native amphali and bitumens; peat; phosphate rock; pinite; potach; gyrites; rock salt; sulfur; bin; titanium ore; tungstem ore; vanudium and uranium ore; and vermiculite;
	100-M2-9C	Demoral contractor (contractors performing general services for mineral industries, except contractors performing oil— and gen-field services and Pennsylvania authoracite strip-pit and culm-bank contractors)
	199-1 G -20	Sentral office (central offices in industries conveneed by mail, except crude petroleum and natural gas, natural gaseline, and bituminous coal)
		Description Canada
	100-10-8	Stone (taualt; granite; limestone; mamble; mannetone; clate; miscellameous stone; distomute; matural atractives; including many; flint liming and perhies; gamest, pumine and pumicite; grandatones, pulpetones, milistones; cilistones, whotelones, and other abresive stones; tale, seepstone, and opportunity lite; and tripell)
	190 -1Q-5 5	Sand and gravel (nommon sand and gravel, glass sand, and foundry sand)
	1 -00_XQ E	Clay (common clay and shale, kaolin and ball clay, fire clay, fuller's earth, and bentendte)
	10	General office (central offices in industries canvassed by enumerators)
		Compersative Commune
	BCD Form T-1	Mituminous coal minos over NO tono daily average (including anthracite and semianthracite not mined in Fennsylvania)
		Supplement to Mil From 7-1 (control cleaning plants)
	BCD Form T-2-C	Bituminous coal trust mines-under 50 tons daily average
	BCD Form T-80	Central office for bituminous-coal industry
		s to obtain maximum coverage of mineral oper-
		very effort was made to canvass all companies en
	gaged in op	erating or developing mineral properties. Files o
		State agencies were carefully checked, trade-asso

of ciation directories were consulted, and trade journals were inspected. In particular, lists of crude-petroleum and natural-gas operators and contractors available at the outset of the canvass were soon found to be incomplete. As a result, in addition to examining available lists of producers from published and unpublished Federal, State, and private sources, agents were engaged to locate new and unlisted concerns. A preliminary survey of the larger petroleum-producing companies was made in an effort to discover names and addresses of contracting concerns. Additional names of contractors were obtained from reports of crude-petroleum and natural-gas producers.

Completion and correction of schedules.—Each schedule received in Washington was analyzed to determine whether additional information or explanation was needed. Schedules could be checked for completeness by comparatively rapid inspection. Checking the correctness of a schedule, however, required careful analysis and comparison of the replies to the various inquiries. Thus the ratio of production to man-hours and the method of production indicated the adequacy of reported production or man-hour figures. Computation of wags payments per man-hour provided a check on the accuracy of wages or man-hours data reported. Similarly, analysis of information reported on power loading machines frequently provided evidence that the number and horsepower rating of power units were incompletely

reported. Many other internal checks were made for each report, and replies on each schedule were compared with corresponding statistics reported for similar operations in the industry.

Answers to questions raised by analysis of reports were obtained by correspondence. Usually a copy of the submitted schedule or a follow-up questionnaire was sent along with a covering letter, although frequently a few questions were embodied in a special letter. A great amount of time and effort was expended to assure the tabulation of complete and consistent schedules. In the conduct of the census contact was established with about 70,000 companies; approximately 26,000 schedules for operations large enough to come within the scope of the census were received from about 21,000 companies engaged in operating or developing mineral properties. Follow-up correspondence was initiated for nearly 13,000 of the schedules received, in the effort to procure complete and accurate statistics.

File No.

APPENDIX B

CONFIDENTIAL CENSUS REPORT

Your report is required by Act of Congress. This Act also makes it unlawful for the Bureau to disclose any facts, including names or identity, from your consus reports. Only sweet employees will see your statements. Data collected will be used solely for preparing statistical information concerning the Fasion's population, resources, and business notivities. Your Census Reports Cannot Be Used for Purposes of Taxation, Regulation, or Investigation.

DO NOT FILL IN
(Industry number)
(State and county)
(Central office number)
(Schedule number)
(Type of operation)

FORM 100-MQ-P DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS WASHINGTON

CENSUS OF MINES AND QUARRIES: 1939

CRUDE PETROLEUM SCHEDULE

14.336

Reply to the following questions and return this report as promptly as possible in the enclosed envelope, which requires no postage. Before preparing your report read carefully all instructions on this schedule.

Answer all questions in this schedule if you operated oil wells or drilled oil wells during ANY PART of 1939. Failure to do so will necessitate submitting an additional report later. Fill in all blanks on this schedule. If answer is "none," write the word "none" in the appropriate space.

This report should cover operations during the calendar year ended December 31, 1939.

If your company has oil-well operations in more than one State, a separate report on this schedule (Form 100-MQ-P) is desired for your operations in each State. Separate reports for fields, districts, or counties within any State are acceptable if it is more convenient for you to make such separate reports.

Report on this schedule only your OIL-WELL-OPERATING and OIL-WELL-DRILLING activities, except that if you drilled any natural-gas wells incidentally while in quest of crude oil, data relating to such gas wells should also be reported on this schedule. All other gas-well operations should be reported on the Natural Gas Schedule (Form 100-MQ-N), and natural-gaseline operations should be reported on the Natural Gasoline Schedule (Form 100-MQ-G). If a well produced both oil and gas, classify it according to its more valuable product. Data relating to employees reported on this schedule should include all employees of central administrative effices (and laboratories) associated with crude-oil production (and oil-well drilling) unless these offices are located in States other than those in which your oil-well operations are located or unless the employees of offices cannot be distributed among oil wells, gas wells, and natural-gasoline plants. For reporting employees of central offices who, for these reasons, cannot be reported with other oil-well employees, use a Central Office Schedule for Crude Petroleum, Natural Gas, and Natural Gasoline (Form 100-MQ-COP). Do not include in any of these reports data relating to carbon-black production, oil or gas transportation, petroleum refining, and associated activities such as the marketing of petroleum products. Additional blanks will be furnished upon request.

Disregard spaces for "Key," "Code," and "Item" numbers, and those marked "DO NOT FILL IN." (These are for Census Office

INQUII	IY 1—NAME, LOCATION, AND DESCRIPTION OF OPERATIONS: Name and home address of the concern operating the properties reported on this schedule
	1. Is this concern incorporated?
В.	3. Did this concern operate natural-gas wells during 1939? or natural-gaseline plants? (Yes or no) Location of producing properties covered by this report: 1. State 2. Does this report cover all of your cil-well operating and cil-well drilling activities in this State? 3. If no, report here the name of the field, district, or county covered by this report, and the names of other fields, districts, or counties within this State for which separate reports are submitted on this schedule (Form 100-MQ-P)
	4. Does this report include any "dry" natural-gas wells (on the property designated above), drilled incidentally while in quest of crude oil? If so, how many?

INQUIRY 1—Continued.			· · ·			
C. Number of OIL wells on property designated under B:						
Number					Numb	er
1. Producing oil December 31, 1938 (in- Key	6.	Producing oil	December 31	, 1939	(in-	Key
cluding wells temporarily idle because of proration restrictions)		cluding well	s temporarily i restrictions)	dle beca	use	M-8
2. Shut in (idle) December 31, 1938 (ex-		•			}	141-0
cluding wells temporarily idle because of proration restrictions)	7.	Shut in (idle)	December 31 Is temporarily i	dle beca	ex-	
3. Drilled on the property, and completed during 1939 (include wells drilled and		of proration	restrictions)			M-9
abandoned before completion):	8.	Abandoned de	uring 1939	·		M-10
(a) On contract			d) during 1939.		1 1	M-11
(b) By own company	•		(6+7+8+9)		1	
4. Purchased (or leased) during 1939 M-5					1 1	
Total $(1+2+3(a)+3(b)+4)$	10.	flooding De	used for representations and seember 31, 193	9	and	M-12
(The sum of 1, 2, 3, and 4 should equ	ol the s	oum of 6 7 8 an	4 8)			·
5. Number of wells in process of drilling			ells in process	of drilli	ing -	
(on contract or by own company)		(on contrac	et or by own	compan	ıy) -	M-13
December 31, 1938		December a	31, 1939			
12. Does the number of wells drilled during 1939 (as reported und	er C-3	(a) above) incl	lude wells drille	d by an	organization at	filiated
		. 43				
with the concern operating the properties reported on this s	chedui		*************			
If so, give name and address of such affiliated organization						

D. Does this report include the operation of "dry" natural-gas wells	that	did not produ	ce oil) during l	1939?		
					(Yes or mo)	
If so, how many?						
INQUIRY 2—QUANTITY AND VALUE OF PRODUCTS AND VALUE O	\10 100/C)	DY NAME FO	AD OWNERDS	Ronart	ontine output	f walls
including royalty interests.)I WU	AR DONE FU	OIHERS.	-trobor	entreoutput	r wome
Product or work done	Item	Unit of	Quantity		Total value	
		measure	D-4		wells (omit cer D-5	198)
A. Oil and gas produced in 1939 (from wells operated by you and reported						
under Inquiry 1C):			·			
1. Total crude petroleum produced	250	Barrel	*************		\$	
2. Natural gas produced:				1	_	
(a) Marketed production (your best estimate). What disposition	262	M cu. It			\$	
was made of this gas?	. 263	M cu. ft			x x x x x x	
Gross production of natural gas (a) + (b)	261	M cu. ft			****	
Total value of oil and gas 1+2(a)	. 1	xxxxx	xxxxxx	ххх	\$	
B. Other products, if any (specify kind)	2				\$	
C. Electric energy generated at your wells and sold. (Do not include	1					
energy reported under Inquiry 7C)	. 3	Kwhr		i	\$	
D. Amount received for week or complete medicary of face at 111.1	. 0	1		*******		
D. Amount received for work or services performed for other establishments				********		
ments, such as drilling, hauling, pumping, etc. (specify):					_	
ments, such as drilling, hauling, pumping, etc. (specify):			**************************************		\$	
ments, such as drilling, hauling, pumping, etc. (specify): 1		~ = 0 & 4 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 +			\$ \$	
ments, such as drilling, hauling, pumping, etc. (specify):	6 No				\$	
ments, such as drilling, hauling, pumping, etc. (specify): 1	6 No		a th th th th they go th they do the same as the same as the		\$	Key
ments, such as drilling, hauling, pumping, etc. (specify): 1	4	x x x x	X X X X X X Code	X X X	\$	

INQUIRY 3—PERSON pay-roll period end include all persons work). Exclude fr Gas, and Natural ((Form 100-MQ-N petroleum refining, on direct pay roll of	engaged in oil-wel om this schedule a asoline (Form 100 or on the Natu and related activi	l operati any emp D-MQ-C	ing or oil-welloyees repo OP). Also	ell drilling au rted separat exclude from	a same person under related actively on the Centum this schedule	nder more ities (inclus ral Office S employees	than one of ding office, le chedule for reported on	the headings A, B, aboratory, and expl Crude Fetroleum, I the Natural Gas S	and C. loration Natural chedule
	· · · · · · · · · · · · · · · · · · ·		Class		A COLUMN TO THE PROPERTY OF TH		***************************************	Number of per	rectes
A. Salaried employees. visory personnel; i and all clerical en under "Wage ear B. Wage earners. Rep for wells, etc., rego	d	К-7 А-5							
WITHO WOLKERS)	************			******	*********	****	*******		
	ees (A+B)								
C. Proprietors and firm									A-6
1. Proprietors and fi									A-7
reported under Inc for Social Security included as salaries owners or partners	uiry 3. Include a , insurance, dues, and wages. (Re	all salari etc. II	es, wages, b board or	onuses, com	missions (and p mished as part	rofits when	paid to em	ployees) before ded byees, its value sho laries or wages ear	luctions ould be ned by
			Class of per	ons				Total salaries wages paid (smit cents	
A. Salaried employees.	Report here sala	ried offic	ers of corpo	rations; mar	agers, superints	ndents, an	d other supe	r-	Key
visory personnel; i and all clerical en	esponsible profess	ional and	l technical e	unployees su	ch as engineers,	geologists,	chemists, etc	b.; (
under "Wage ear	iers'')			*******		*	****		A-8
B. Wage earners. Rep for wells, etc., rego	rdless of whether th	iey were	paid on a w	roe or salarri	basis (Include	both full-t	time and par	t	
time workers)	•				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*******	*******	8	A-9
Total salaries	and wages paid (A+B)						8	A-10
the pay-roll period reported under Inc	ended nearest the	OYED, a 15th of	BY MONT each mont	HS.—Report h. Figures	rt the number of given in this in	f wage ear quiry shou	ners <i>receivis</i> Id include o	g pey for any time nly the class of em	during ployees
Number Key	Number	Key	Number	Key	Number	Key	Code Key	Total W. E. M.	Key
January C-1	April	C-4	July	C-7	October.	C-10		(DO NOT FILL IN)	
February C-2	1	1 11	-	;	November	C-11	A-1	1	A-12
March C-3	11 -	1 11	**	į.	December	1 1	C-1	K i	C-14
INQUIRY 6—WAGE the class of employ carefully prepared A. Average number	ees reported unde estimates.	er Inqui	WORK A	ND WORK e. If book	figures are not	available fe 19.	or some of t	quiry should include he items called for humber of home per ware	, report
	Type of work		Item Total	man-hours worker	r'	Puli-time		hall-time workweek (east	present of
	23 po ou # ***		'	ing 1989 E-2	Tetal E-3	Western E-4	E-5	E-14	140 militarius mats
		(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	-		1		1	Code	Key
	nd maintaining w					-			E-15
2. Drilling well	ler Inquiry 1C) and rig building	(exclude	1 1	************	the part of the same square part on participation and the same of the same		and of the state o	A STATE OF THE STA	A-13
	of contractors)								E-15
o. Outer work	oboonali	********		<u> 2.211 p. 2.117.111.1111.1111</u>					E-15
Total	of above (1+2+8	<u>3)</u>	. 9					_ x x x x x x x	
				rine active period		ere actually drilli	ing wells or perform	sing other related work during	1900a Tha
"The average numb following method of on ever time interval separ time worker any wage a also instructions at end	er of wage carners should re- iputing the average number ate pay-roll or timekesper's wher who (in a given pay-roll of schedule.	present the a r of wage ear records are l oll period) w	verage number of ners is suggested: rept); then add the orked substantial	Count the numbers counts by fewer hours per	r if wage corpers received in all such active per week than the number	ng pay on each toda and divide to describe to	ABOUND HER PROPERTY AND A PROPERTY OF THE PROP	Carlotte Car	cier which- it as a past- itions. See
"The average numb following method of on ever time interval separ time worker any wage of also instructions at end	er of wage earners should re- inuting the average number steeper-roll or timekeeper's greer who (in a given pay-n of schedule.	present the a r of wage ear records are l all period) w	verage number di ners la suggested rept); then add t priced substantial	Count the number outside purchase to purchase counts by fewer hours per	is when wage carners we all was appear products of the all such active part week than the number of	ng pay on each to add and divide to descript in the fo	reckly, modercents the total by the nu ill time workwork	Carlotte Car	(for which- it as a part- itiona, fee Key

the quantity and cost of supplies, fuel, and electric energy actual Include all supplies, fuels, and electric energy used to operate the tractors) that are reported under Inquiry 1C. Include the cost which were both produced and consumed by you.	<i>uy usea</i> aurin	NSUMED.—The figur g 1939 in oil-well oper rill the wells (except s Include the quantity	rations	covered by this	report.	
ltem.	Unit	Quantity	Quantity		Total costs (omit cents)	
A. Supplies and materials. Include such items as tools or parts used for renewals or repairs, water for boilers and other purposes, cement, etc. Exclude the cost of machinery and equipment, such as casing, which should be reported under Inquiry 9 B. Ruel: 1. Coal, bituminous (soft, including lignite)	Short ton	1 1		\$	E-7	
2. Coal, anthracite (hard)	1			\$		
3. Fuel oils (including heating oils, but not gasoline or kerosene)	·	***************************************		\$		
4. Gasoline and kerosene	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		***************************************		
5. Natural gas (used for fuel or power; estimate if necessary)	M cu. ft	************	F-5	\$		
6. Other (specify)	l .	4 1		\$		
Total value of fuels. C. Electric energy used:	xxxxxxx	*******		\$	B -2	
1. Generated by your company	Kwhr		F-6	xxxxxxx		
2. Purchased	Kwhr		F-7	\$	B-3	
INQUIRY 8—AMOUNT PAID TO CONTRACTORS FOR WORK DO completing wells, rig building, comenting, logging and surveying, pulling tubing, plugging, hauling, etc. Exclude payments to wo reported under Inquiry 4. If part of the payment to contractors the total amount paid to contractors.	scidizing or ch	emical treatment, showed by your company	oting, b	ailing and cleani	ng out,	
Name and address of contractor		Nature of contract wo	rk	Amount pai (omit cents		
A						
***************************************	1			8		
				\$		
В.				\$		
В				\$		
B				\$		
B				\$		
B				\$		
B				\$		
B C D E (If more space is needed use a seg				\$		
B				\$	200 S	
E. Total amount paid contractors INQUIRY 9—COST OF BUILDINGS, MACHINERY, AND EQUIP permanent additions and major alterations made on contract or capital asset accounts and which are of the true for which are of the true.	arate sheet and MENT EREC y your own e	sttach here) TED OR INSTALLE; amployees, which were	D DUR	\$\$ \$ \$ \$ ING 1939.—Reped during the part of the part o	B-4	
E. Total amount paid contractors. INQUIRY 9—COST OF BUILDINGS, MACHINERY, AND EQUIP permanent additions and major alterations made on contract or leapital asset accounts and which are of the type for which deprecing company residences, bunkhouses, and similar construction not use. A. Cost of new construction or major alterations of buildings and chinery and equipment for these buildings and structures, buildings. Exclude the cost of old equipment or material from others. Exclude value of land. Exclude the cost of direction of description.	MENT EREC by your own estion accounts of for mineral part of the structure of the control of th	TED OR INSTALLE; amployees, which were are ordinarily mainta production or related struces in 1939. Excludes in an integral per construction unless put include the cost of co	D DUR charg ined. ctivitie ude ma- t of the rchased onstruc-	\$s ING 1939.—Rejed during the general Exclude constructs.	B-4 port all year to tion of	
E. Total amount paid contractors. INQUIRY 9—COST OF BUILDINGS, MACHINERY, AND EQUIP permanent additions and major alterations made on contract or a capital asset accounts and which are of the type for which deprecial company residences, bunkhouses, and similar construction not use. A. Cost of new construction or major alterations of buildings and chinery and equipment for these buildings and structures, buildings. Exclude the cost of old equipment or material from others. Exclude value of land. Exclude the cost of dition of derricks. B. Cost of all new machinery and equipment in 1939. Exclude an cost of new casing, builded fittings, and equipment for flowinged casing). Include the cost of things, and equipment for flowinged casing). Include the cost of the seventees the cost of the seventees and cost of the seventees are seventees and cost of the seventees and cost of the seventees are seventees as the seventees are seventees and cost of the seventees are seventees and cost of the seventees are seventees and cost of the seventees are seventees and cost of the seventees are seventees and cost of the seventees are seventees and cost of the seventees are seventees and cost of the seventees are seventees and cost of the seventees are seventees and cost of the seventees are seventees and cost of the seventees are seventees and cost of the seventees are seventees and cost of the seventees are seventees and cost of the seventees are seventees and cost of the seventees are seventees and cost of the seventees are seventees and cost	MENT ERECTORY your own extion accounts if for mineral rective that where the street illing wells, but y equipment may or pumping	TED OR INSTALLE; amployees, which were are ordinarily mainta production or related statures in 1939. Exclures in integral para construction unless put include the cost of comported under A. Include the wells (but exclude the	D DUR chargined. cotivitie ude matrof the rehased onstructude the cost of	\$sssssss.	8-4 port all pear to tion of Eeg B-5	
E. Total amount paid contractors. INQUIRY 9—COST OF BUILDINGS, MACHINERY, AND EQUIP permanent additions and major alterations made on contract or capital asset accounts and which are of the type for which deprecies company residences, bunkhouses, and similar construction not used. A. Cost of new construction or major alterations of buildings and chinery and equipment for these buildings and structures, buildings. Exclude the cost of old equipment or material from others. Exclude value of land. Exclude the cost of all tion of derricks. B. Cost of all new machinery and equipment in 1939. Exclude an cost of new casing, wellbead fittings and equipment for flar.	MENT EREC' Dy your own extion accounts for mineral processed in this continuous with the second many and the second many or pumping	TED OR INSTALLE; amployees, which were are ordinarily mainta production or related a citures in 1939. Excluding it is an integral par construction unless pu at include the cost of cost eported under A. Include the wells (but exclude the	D DUR charg inductivities ude mart of the rchased onstructude the cost of	\$	8-4 port all year to tion of Key	

INQUIRY 10—POWER EQUIPMENT.—The figures given in this inquiry should represent equipment in use or available for use as of January 1, 1940. Include emergency or stand-by equipment and equipment temperarily idle because in need of repairs; exclude only junk. Include all power equipment at oil-well operations except that owned by centracters.

Kind of power equipment	Number		Total horogower	
A. Prime movers (include steam engines and turbines, internal-combustion engines, water wheels, and hydroturbines):		Key	- Herical de Maria de	Key
1. Prime movers driving generators		G-1		G-2
2. Prime movers not driving generators	Januara,	G-5		G-6
Total prime movers (1+2)		G-9	manage and the state of the sta	G-10
3. Prime movers, included in 1 and 2, ordinarily idle but held for stand-by (not junk)		G-13		G-14
B. Electric motors driven by purchased energy	PROFESSION AND ASSESSION OF THE PARTY OF THE	H-1	(2000)	H-2
C. Electric motors driven by energy generated by your company		H-5		H-6

INQUIRY 11—COST OF DRILLING AND EQUIPPING WELLS COMPLETED IN 1939.—Report here the designated costs of drilling and equipping all wells reported under Inquiry 1C-3 and Inquiry 1B, including the cost of dry holes drilled during 1939. Report enly the costs specified; do not include other costs such as taxes, interest on investment, etc.

	7	7	7.7.0						The state of the s
		COMP	LLS LETED NG 1989	COST OF DR	ILLING AND BQ	CIPPING WELLS (SMH costs)	, sududing araquats p	pard to contractors	
				Cost of Drilling (Report cost of in- hor, supplies, water, fuel, and power used in such operations as erecting and disman- ting drilling risk and derrick, drilling hole, running and semoni- ing easing and nearling materials; include ma- materials; include ma-	i	out of Well Equipme inlivering and install with reported under ar equipment that we hast of salvaging.)			
KIND OF WELLS DRILLED	Item	Number of wells	Total footage drilled	charges or runtale; de- duct the value of ma- terial salvaged size use. DO ROT in- clude here cost of dril- ing derriek, or any part thereof, that was left over well for pra- duction after well com- pletion; report this cost under "Produc- tion derriek.")	Casing	Equipment for flowing or primping (Indiande tubing, well-hold fittings, gas traps, flow onaks, via.)	Production descrick (Report here cost of drilling derick) to any persistent thereof, kind was relationed over well after completions or report cost of spectal-production derick evented utter drilling derick evented utter drilling derick evented utter drilling derick evented utter drilling derick evented utter drilling derick evented utter drilling derick evented utter drilling derick evented utter drilling derick evented utter drilling derick evented	Potal of preceding each begins	Total accounts poid to far dus; contractors for delling and/or equipping wells (onal cents)
	ļ	M-1	N-2	N-3	N-4	N-5	N-6	N-7	N-8
A. Drilled by own com- pany:									
1. Oil wells	1	********		\$	\$	\$	\$	\$ 100,000 Months (100 Months (\$
2. Gas wells*	2			8	\$	8	8	\$	Saturate dans de la salde de dans de la separate se
8. Dry holes**	3			\$	\$	\$	\$ <u></u>	S. manifestation in the state of the state o	8
B. Drilled on contract;	4	******		\$	\$	\$	\$	8	Secretarian and the secretarian and the second
1. Oil wells	5	********	**********	\$	\$	\$	8	\$	8
2. Gas wells*	6		*********	\$	\$	\$	\$	8	8
3. Dry holes**	7	******	42434	\$	\$	8	\$	\$	8
C. Total wells drilled:	8		*******	\$	8	8	8	\$	8
1. Oil wells	9		******	\$.,	\$	8	8	\$	\$
2. Gas wells*	10	*********	*****	\$	\$	\$	8 10-112-11-11-11-11-11-11-11-11-11-11-11-11	8	San an Marian Service on Anton yor old yap yapasal sar day ay
8. Dry holes**	11	18-28-1-1-621.	*******	\$	\$	\$	S	8	
Total	12		*******	8	\$	\$	\$	8	Socreph distribution yes, was a consideran scalar and
D. Wells drilled and abandoned before completion (included							4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		明·日本·日本·日本·日本·日本·日本·日本·日本·日本·日本·日本·日本·日本·
sbove)	17	******		State reason fo	r abandonme	nt	iking namayakan masakan	er of one for the figure of the first of the second or the figure of the second of the	o no cresto de destruir como alla francia de la como de la como de la como de la como de la como de la como de

*Include only wells drilled incidentally while in quest of crude oil. Data relating to all other gas wells should be reported on the Maximal Cas Schedule (Form 190-MQ-85).

"Include wells drilled and abandoned before completion during 1930.

EXPLANATIONS Write here explanations and comments that wou	ald aid proper interpretation of your report.

CERTIF	FICATE
This is to certify, That to the best of my knowledge and belief the calendar year 1939.	f, the information contained in this report is correct and complete for
	(Bignature and official title of person furnishing information)
(Date of signature)	(Address)

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE FILLING OUT THIS SCHEDULE

GENERAL INSTRUCTIONS

I. The figures reported (typewritten, if possible) should be taken from your books; but if the books do not give all the information required, carefully estimated figures are acceptable. Figures entirely estimated should be so noted on the schedule by the mark "Est."

II. Do not attempt to account for all your expenses. Report only the expenses specified in Inquiries 4, 7, 8, 9, and 11.

SPECIAL INSTRUCTIONS FOR INDIVIDUAL INQUIRIES

Inquiry 1—Name, location, and description of operations.—Distinguish carefully between A, giving name and location of concern operating the properties reported, and B, giving location of the properties covered by this report.

Inquiry 2—Quantity and value of products and value of work done for others.—Report the total quantity and value at wells of the crude petroleum produced by you from the wells operated by you and reported under Inquiry 1C. Report also the total quantity and value at wells of natural (casinghead) gas that you produced from the same oil wells and that you marketed during 1939. Include with the quantity and value of casinghead natural gas any "dry" natural gas that you may have produced and marketed from gas wells drilled incidentally while in quest of cruch oil. Exclude the cost of transporting crude petroleum and natural gas from wells. Report separately the quantity (estimated, if necessary) of all other natural gas produced from your oil wells (and not marketed), and indicate the disposition made of this gas.

produced from your oil wells (and not marketed), and indicate the disposition made of this gas.

Report under D the amount received (or the total charges, in case the work was done on credit and bills were unpaid at close of year) for all work, if any, performed for other establishments if that work was done by your employees. The number of such employees should be reported under Inquiries 3, 5, and 6, and their compensation under Inquiry 4.

Inquiry 3—Persons engaged, by classes.—Report all employees receiving pay for any time during the normal pay-roll period ended nearest October 14, 1939. Employees on vacation or sick leave with pay should be included. Those employees who had headquarters at your oil wells but worked elsewhere should also be included. Exclude those persons who worked at oil wells but were on pay rolls of others (such as employees of drilling contractors). Exclude employees were on the pay roll of reporting operator but who were engaged in the operation of company stores, boarding houses, bunkhouses, recreational centers, etc. If an employee was engaged part of the time in any of the latter activities and part of the time in operating or drilling oil wells, he should be reported under Inquiry 3 if most of his time was devoted to operating or drilling oil wells.

Salaried employees.—No person should be reported as a salaried employee under A merely because he was hired by the week or month instead of by the day. The distinction should be based primarily on the character of work done rather than on the unit of time that was the basis for compensation. For example, plant engingers and firemen are often employed by the week or month,

but they should be classed as wage earners under B rather than as calaried employees. Timekeepers, clerks, stenographers, and others in similar occupations should be classed as salaried employees under A. If one person served in more than one capacity, that person should be counted only once. For example, if a clerk was also a manual worker, he should be counted only once, under A or B according to the activity to which he devoted most of his time. Such technical employees as geologists, geophysicists, etc., engaged in exploration work should be included with salaried employees.

be included with salaried employees.

Wage earners.—Report as wage earners under B all those who performed manual work, used tools, operated machines, handled materials and products, and cared for the wells, shops, etc., regardless of whether they were paid on a wage, salary, or piece-work basis. Include with wage earners gang and straw bosses and foremen who devoted most of their time to manual labor. Include both full-time and part-time workers. Include wage earners not actually accounted for on the pay rolls but paid indirectly through such employees of this operator as superintendents, foremen, and the like. Clerical employees should be included under A and not with wage earners.

Pranciators and firm members.—Report under C all owners, partners, etc., of

Proprietors and firm members.—Report under C all owners, partners, etc., of concerns that are not incorporated. Do not report such persons under A or B even though they receive a salary. Those proprietors or firm members who performed manual labor in or about this operation should be included under C and also reported under C-1.

Inquiry 4—Salaries and wages.—Take every precaution to include all salaries, wages, bonuses, and commissions paid during 1939. If the owners or partners operating these wells were engaged in work at the wells, the value of their work should be included with the wages and salaries paid to hired employees. Profits of a partnership or a business of an individual owner, in excess of the reasonable wages for the time worked by the partners or owners, should be excluded from salaries or wages. Do not deduct employees' contributions for Social Security, group insurance, or for similar purposes. If board or rest was furnished as part compensation of wage earners, its value should be included as part of salaries or wages. Bonuses or percentages of profits paid to officers, superintendents, foremen, or wage earners, should be included in the amount of salaries or wages, but dividends on stock held by officers and employees should not be included.

Inquiry 5—Wage earners employed, by months.—Report here all wage earners—such as defined for Inquiry 3B.

Inquiry 6—Wage earners by type of work and working time.—Report data for wage earners only—such as defined for Inquiry 8B.

Average number of wage earners.—Report the average number of wage earners paid by you for oil-well operation or drilling during that portion of 1939 when you were operating or drilling oil wells. Report separately the number of full time and part-time wage earners paid by you. Count as a part-time worker any wage earner who (in a given pay-roll period) worked substantially fewer hours per week than the number of hours in the full-time workweek per wage earner at your operations. This full-time workweek should be reported in the last column of A-1. The following method for computing the average number of wage earners is sugrested:

count separately the number of full-time and part-time wage earners on each weekly, semimonthly, or monthly active period (for whichever time interval separate pay-roll or timekeeper's records are kept). Then add the numbers of full-time and part-time workers counted for all such active periods and divide the totals by the number of active periods. This procedure is illustrated by the following example. Suppose your wells were producing throughout the 8 months beginning with April

(6)

and ending with November. Suppose, also, that the following numbers of full-time and part-time wage earners were receiving pay on each of the semimonthly pay-roll periods:

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Pay-roll period	Full-time wage earners	Part-time wage earners	Pay-roll period	Full-time wage corners	Part-time wage carners
Apr. 1-18. Apr. 16-80 May 1-18. May 16-31 Jane 1-15. June 16-20. July 1-18. July 16-31	20 26 30 35 40 40 44 28	44 4 6 6 6 6 6 6 4	Aug. 1-15 Aug. 16-31 Sept. 1-15 Sept. 16-39 Oct. 1-15 Oct. 16-31 Nov. 1-15 Nov. 16-20	49 36 49 49 36 30 24 20	6 4 4 4 4 2 0

In this case, add the numbers of full-time wage earners in active payroll periods (20, 26, 30, 36, 40, etc.), giving a total of 540, and divide this total by the number of active pay-roll periods, which is 16. The average number of full-time wage earners on active days is 540 divided by 16, or 34 full-time wage earners. Similarly, add the numbers of part-time wage earners in active pay-roll periods (4, 4, 4, 6, 4, etc.), giving a total of 68. This total divided by the number of active pay-roll periods, 16, gives an average of 4 part-time wage earners.

Length of workweek.—Report the customary number of hours per wage earner in the full-time workweek, exclusive of overtime, at your oil wells. Do not attempt to indicate minor variations from the usual practice.

Inquiry 7—Supplies, materials, fuels, and electric energy consumed.—The figures reported for this inquiry should represent the cost of materials, etc., actually used or consumed during 1939, which may be different from the cost of materials purchased during the year. If the costs of materials and fuels actually consumed during the year are not shown in the book records, they may be computed by adding to the amount paid for materials purchased during the year the value of the inventory of materials on hand on January 1, 1939, and deducting the inventory value of materials on January 1, 1940. Under "Supplies and materials" include such items as tools or parts used for renewals or repairs in operating or drilling wells (except those drilled on contract), iron and steel for blacksmithing, lubricating oil, water for boilers and other purposes, etc.

Do not include under Inquiry 7 the cost of commodities purchased for resale in same condition, or items chargeable to depreciable capital accounts, such as cost of new equipment which should be reported under Inquiry 9. Electric energy which was generated at your wells and sold should not be reported under Inquiry 7C-1; such energy should be reported under Inquiry 2C.

Inquiry 8—Amount paid to contractors for work done during 1939.—Report total amounts paid to corporations, partnerships, individual proprietorships, etc., engaged in contract work such as drilling and equipping wells, cementing, logging and surveying, acidizing or chemical treatment, shooting, bailing and cleaning out, pulling tubing, plugging, hauling, etc. Do not include amounts paid in salaries or wages and reported under Inquiry 4.

Under "Nature of contract work" indicate the kind of work performed under contract, such as drilling or equipping wells, cementing, bailing and cleaning out, etc. Report the total amount paid to each contracting company for all types of work.

Inquiry 9—Cost of buildings, machinery, and equipment erected or installed during 1939.—Report only the cost of buildings, machinery, and equipment constructed or installed during 1939, and exclude cost of land purchased. Include only additions to capital asset accounts which will be depreciated over a period of more than one year, thus excluding minor additions and replacements.

"Costs" should include the amounts paid and amounts due for capital additions during 1939 (excluding amounts paid during 1939 for additions made in other years). Thus, if the work on new construction or on major alterations was either begun prior to 1939 or not completed by the end of 1939, report only that part of the cost of construction (estimated, if necessary) that was actually done during 1939. Include labor and other installation costs.

Inquiry 10—Power equipment.—Report all power equipment in use or available for use as of January 1, 1940 (whether owned by you or rented from others). Include all prime movers and electric motors, both stationary and mobile. Give the horsepower rating indicated on name plates. For "prime-mover-generator units" that are rated only on the generator, the horsepower rating of the prime mover should be reported as one and one-half times the kilowatt rating of the generator. For gasoline engines, report the brake horsepower.

Electric motors are not prime movers and should be included under B and C but not under A.

Do not include motor-generator sets and rotary converters under A, B, or C.

Inquiry 11—Cost of drilling and equipping wells completed in 1939.—The purpose of this inquiry is to segregate the designated costs of wells drilled and/or equipped by you during 1939, and also to record the total amounts paid to contractors for wells drilled and/or equipped on contract for you during 1939. Include the cost of wells completed in 1939 although begun in 1938. Include the cost of wells drilled by you and abandoned before completion during 1939. Exclude the cost of drilling wells that were begun in 1939 and were still in process of drilling or completion at the end of 1939.

Amounts paid to contractors for drilling and completing wells drilled on contract should be reported only in the last column. Include amounts paid to contractors for wells drilled on contract and abandoned before completion in 1939. If all the wells were drilled and entirely completed on contract, with the contractor supplying the casing and other equipment (as on so-called "turn-key" jobs), all figures reported would be in the last column. If the amounts paid to contractors represented only the amounts paid for drilling wells on contract, and you supplied the casing or other well equipment, the cost of this equipment should be reported in the appropriate spaces under "Cost of well equipment." If part of the payment to contractors was in oil, estimate carefully the value of this oil and include it in the total amount paid to contractors. For wells "Drilled by own company," if some of the work or equipment in connection with drilling or equipping wells was furnished by contractors, report amounts paid contractors for this work or equipment in the last column and do not include it elsewhere under A or B.

The figures reported under C should represent the sums of corresponding figures reported under A and B.

Report only the tangible costs specified. Other costs such as taxes, interest on investment, everhead costs, etc., should not be included.

Under "Cost of drilling" report the cost of labor, supplies, water, fuel and power used in such operations as the following: Moving on to location, not farther than from the nearest railroad station, all equipment and supplies incidental to operations; excavating for derrick foundation; building derrick foundation; digging slush pit; erecting derrick and wiring same; building loading or pipe racks; laving fuel and water lines; rigging up; drilling hole; making straighthole tests or surveys; coring; testing formation; mud conditioning; reaming; running casing, screen, and liner; cleaning out; balling; swabbing; fishing; repairing and maintaining rig or derrick; tearing down rig; dismantling derrick and racks; and moving equipment of location. Report the cost (including freight and express charges thereon) of all supplies used in the above operations such as: Mud, weighting materials and mud chemicals; lumber or timber for making forms, mud boxes, pipe racks, constructing derrick, etc.; cement, sand and gravel; all rig-operating supplies such as oils, grease, packing, rope, firebrick, etc.; all drilling bits, reamers, and core heads; hand tools; iron and steel for derrick and for blacksmithing; cordage and wire lines; and any additional supplies necessary for the operation of either rotary or cable-tool outit. Deduct the value of materials salvaged after use. Include charges for the use of drilling machinery and tools were rented report the rentals thereon. Do not include here the cost of equipment chargeable to the well which should be reported under "Cost of well equipment." Include the total cost of water if purchased or cost of water well if drilled and chargeable to oilorgas-well drilling operations. Include also all fuel or power used in connection with these operations. If some of the fuel or power was not purchased, include a carefully estimated value of such fuel or power used

Under "Cost of well equipment" report the cost of all equipment chargeable to the wells and necessary for production. If any of the costs were in the form of payments to contractors such payments should be segregated and reported in the last column only. Do not duplicate any costs reported under "Cost of drilling." Under "Equipment for flowing or pumping," include tubing, packers, flow lines, flow tanks, oil and gas separators; wellhead fittings, such as Christmas tree and connections, tubing head, chokes, gauges, anchor clamps; etc. Under "Production derrick" report the cost of pumping derrick; if drilling derrick was left over well after completion and was used for production exclude all costs of such derrick from "Cost of drilling," and report them only under "Production derrick."

CONFIDENTIAL CENSUS REPORT

Your report is required by Act of Congress. This Act also makes it unlawful for the Bureau to disclose any facts, including names or identity, from your census reports. Only sween consus employees will see your estatements. Data collected will be used solely for preparing statistical information concerning the Nation's population, resources, and business activities. Your Census Reports Cannot Be Used for Purposes of Taxation, Regulation, or Investigation.

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preparii The gas-well The you on oil and	ng your report rea is schedule should l operations. Ans is report should co contract during 19 gas industry. D	wing questions and return as promptly as possible in the enclosed envelope, which dearefully all instructions on this schedule. be filled out if you were engaged during ANY PART of 1939 in contract work for were each question and if the answer is "none," so indicate rather than leave the space of the presentions during the calendar year ended December 31, 1939. Report on the 339 for companies producing petroleum or natural gas. DO NOT report on this to NOT report on this schedule work in construction of pipe lines other than the	or companies engaged in oil- or pace blank.
operatu	ons. sregard spaces for	"Key," "Code," and "Item" numbers, and those marked "DO NOT FILL IN."	
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A.	Name of contrac	or	: : : : : : : : : : : : : : : : : : : :
В.	General office ad	dress of contractor	Key
	1. Is the concern	operating this establishment incorporated?	
	2. Is this concern	a subsidiary or an affiliate of some other concern?	(Yes or no)
		ame and address of such other concern	(1 (2) (0) (10)
C.	Did vou do any	contract work for companies engaged in oil- or gas-well operations during any par	A 4
	1. List, in order	of importance, the States in which you did contract work for such companies	(Yes of Do)
	granded or midding granded or my normal granded		
D.	. Were you engage	ed in contract work for other than oil or gas companies during any part of 1939?	(Var er sid
E.	Did you drill any	oil or gas wells or dry holes during 1939 for your own account (not on contract	for others)?
		on has changed hands during 1939, give dates of period covered by this report	
	and the name	and address of contractor (predecessor or successor) for the remaining portion of	the year
G.	1939, and indi-	ames and addresses of companies producing petroleum and natural gas for which eate nature of work performed (such as drilling wells, cementing wells, acidizing, s g tubing, operating wells, plugging, hauling, etc.):	n you did contract work during hooting wells, bailing and clean
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NQUIRY 6—WAGE EARNERS By the class of employees reported carefully prepared estimates. A. Average number of wage earn	unde	r Inquir	y 3B ab	ove. If book fi	gures are not	available fo	or some	of the ite	ms ca	lled for	le only report
A. Average number of wage ear	uers,	ижп-по	us, and	TENERT OF WORK		of wage earners	erelying n	Nomi	er of her	US DAY	
Type of work			Items T	Total man-hours worked during 1939	Pull time			full	Number of hours per wage earner in full-time workweek (exclusive of overtime)		
				E-2	Total E-3	workers E-4	wor E	kers -5 E	-14		T THE THURST
Drilling wells and rig believe spaid gas companies). Other work (specify):			4	No and a second an						Code	Key {E-15 A-13
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B. Do you keep actual records			(Yes er	pe)	wark for all a	one compo	niae				A-15
C. Give number of days during INQUIRIES 7, 8, and 9. (Omitted	*************				——————————————————————————————————————	gas compa	mes		. !	1	t
trium 10—POWER EQUIPME as of January 1, 1940 in contra equipment and equipment temp	ct we oraril	ork for o y idle b	compani ecause i	es producing cru n need of repairs	de petroleum	or natural	gas.	Include en	ergen	ilable i cy or st	and-by
Zaronanya mili milinga da pagada kata da mana kata da pagada da mana kata da kata da kata da kata da kata da k	Kind o	f power e	quipmen		The stage of the s		IV.	umber		rating	
A. Prime movers (include steam eng and hydroturbines)						er wheels,		G-9		~~~~~~~~~	G-10
B. Electric motors driven by purche	used e	nergy		医牙髓性乳糜性炎 医神经腺素炎病 化光谱性原体	************		· · · · · · · · · · · · · · · · · · ·	H-1			H-2
C. Electric motors driven by energy	gene	rated by	your c	ompany				Н-5			H-6
the designated costs of drilling natural gas. Report only the common was sublet by you to other con amounts paid to such contractor and not on contract for oil or gamounts received by you for common to the contract of the	and/costs spaces tractors und	or equip secified; ors exclu er "Expl npanies.	ping all do not i de here lanation	wells drilled by include other cos amounts paid by s" on next page,	you on contra ts such as taxe you to such DO NOT re	ect for comp s, interest o contractors port the cos	panies ; n inves , but re st of we	producing tment, etc port the na- ells drilled	crude . If a mes an for vo	petrole my of the d addre ur own	um and se work sses and account
		COMPI DURIN	G 1999	COST OF DRILLI	NG AND EQUIPP Exclude costs	ING WELLS O	N CONTI	RACT FOR O	L OR G	AB COMI	'ANIES.
KIND OF WELLS DEILLED	item			Cost of Drilling (Report cost of labor, supplies, water, final, and power used in such operations as executing and dismanthing drilling ris and derivids, drilling hole, remaing and committing and and and hashing materials	(Include costs of duplicate costs rep- your equipment the of salvaging.)	Cost of Well E delivering and in orted under "Cost at was salvaged a	quipment stalling est of drilling and used a	nuipment, but ng." Deduct v gain, but inclu			
		Number of wells	Total fact- age drilled	risis; legitude machinery and tool charges or reat- als; declust the value of material salvaged after use. Del Nert include here cart of drilling der- rick, or any pert thereof, that was lest over wall for production after wall completicien; report this cost under "Fred other dentities."	Cunng	Equipment for or pump (Include wellhead fitt traps, flow	ing ubing, ings, gas tanks,	(Report her of drilling der any portion that was retain well after comporterport cost of production derected after derrick was dited.)	rick or rick or thereof, ed over pletion; special errick	Total of post	_
	-threst-street	N-1	N-2	N-3	N-4	N-	5	N-6		N-	-7
A. Oil wells	13	an an art yn de an yn a yn ar yn ar		\$	\$	s		\$		\$	***
B. Gas wells	14	ne ga ne ek ét ta ag na jaran na		\$	\$	\$		\$		\$	*****************************
C. Dry holes*	15	RESEARCH CO.	*******	8	\$	<u> </u>		\$ <u></u>		\$ <u></u>	HERERACHAR
D. Wells drilled and abandoned before completion (included above)	16			State reason fo	s	\$	(\$	{	\$	
* Include wells drilled and abandoned before comp			· · · · · · · · · · · · · · · · · · ·								

EXPLANATIONS.—Write here explanations and comments that would aid I	proper interpretation of your report.
CERTIFICAT	E
This is to certify that, to the best of my knowledge and belief, the inf the calendar year 1939.	ormation contained in this report is correct and complete for
. p.44ban	thisposture and offices table of person formating intertagenous.
(Date of signature)	(& delayerro)

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE FILLING OUT THIS SCHEDULE

GENERAL INSTRUCTIONS

I. The figures reported (typewritten, if possible) should be taken from your books; but if the books do not give all the information required, carefully estimated figures are acceptable. Figures entirely estimated should be so noted on the schedule by the mark "Est."

II. Do not attempt to account for all your expenses. Report only the expenses specified in Inquiries 4 and 11.

SPECIAL INSTRUCTIONS FOR INDIVIDUAL INQUIRIES

Inquiry 2—Quantity of minerals produced and value of work done for If you produced any crude petroleum or natural gas during 1939, either on contract for oil or gas companies or for your own account, report the quantities produced under A.

Under D report the total amount received by you (or total charges in case the work was done on credit and amounts due you were unpaid at close of year) for all contract work done by you during 1939 for companies producing crude petroleum and natural gas and listed by you under Inquiry 1G. Include amounts received for all such contract work as drilling and equipping wells, rig building, cementing wells, torpedoing wells, bailing and cleaning out, pulling tubing, plugging wells, caring for wells, acidizing, etc., but do not include amounts received, if any, for contract work in the construction of pipe lines except in connection with drilling operations. Exclude amounts received for work done prior to 1939.

-Persons engaged, by classes.—Report all employees on nqury 3—Persons engaged, by classes.—Report all employees on your pay roll who were engaged in contract work for oil- or gas-well operations and were receiving pay for any time during the normal pay-roll period ended nearest October 14, 1939. Employees on vacation or sick leave with pay should be included. Exclude all persons who worked at the wells but were not on your pay roll. Exclude employees who were on your pay roll but who were not engaged in contract work for oil- or gas-well operations.

Salaried employees.—No person should be reported as a salaried employee under A merely because he was hired by the week or month instead of by the day. The distinction should be based primarily on the character of work done rather than on the unit of time that was the basis for compensation. For example, plant engineers and firemen are often employed by the week or month, but they should be classed as wage earners under B rather than as salaried employees. Time-keepers, clerks, stenographers, and others in similar occupations should be classed as salaried employees under A. If one person served in more than one capacity, that person should be counted only once, under A or B according to the activity to which he devoted most of his time. Such technical employees as geologists, geophysicists, etc., engaged in exploration work should be included with salaried employees.

Wage earners.—Report as wage earners under B all those who performed manual work, used tools, operated machines, handled materials and products, cared for machinery, etc., regardless of whether they were paid on a wage, salary, or piece-work basis. Include with wage earners gang and straw bosses, and foremen who devoted most of their time to manual labor. Account for all workers paid by you and engaged in contract work covered by this report. Include both full-time and part-time workers. Include wage earners not actually accounted for on the pay rolls but paid indirectly through such employees of this contractor as superintendents, foremen, and the like.

Proprietors and firm members.—Report under C all owners, partners, etc., of concerns that are not incorporated. Do not report any such persons under A or B even though they receive a calary. Those proprietors or firm members who performed manual labor about be included under C and also reported under C-1.

Inquiry 4—Salaries and wages.—Take every precaution to include all salaries, wages, bonuses, and commissions paid during 1939. Do not deduct employees' contributions for Social Security, workmen's compensation, group insurance, or for similar purposes. If board or rent was furnished as part compensation, its value should be included as part of salaries or wages. Bonuses or percentages of profits paid to officers, superintendents, foremen, or wage carners should be included in the amount of salaries or wages, but dividends on stock held by officers and employees should not be included.

Inquiry 5-Wage earners employed, by months.—Report here all wage earners—such as defined for Inquiry 3B.

Inquiry 6-Wage earners by type of work and working time. Report data for wage earners only such as defined for Inquiry 3B.

Man-hours.—A man-hour is the work of 1 man during 1 hour. (If 10 men worked 100 eight-hour chifts each, the aggregate number of man-hours worked is $10 \times 100 \times 8$, or 8,000.)

Average number of wage earners.—Report the average number of wage earners paid by you for contract work for oil- or gas-well operations for that portion of 1939 when you were engaged in such work. Count as a part-time worker any wage earner who tin a given pay-roil period) worked substantially fewer hours per week than the number of hours in the full-time work week per wage earner employed by you. This full-time workweek should be reported in the last column of A-1. The following method for computing the average number of wage earners is suggested.

Count separately the number of full-time and part-time wage carners on each weekly, semimonthly, or monthly active period (for whichever time interval separate pay-roll or timekeeper's records are kept). Then add the numbers of full-time and part-time workers counted for all such active periods and divide the totals by the number of active periods. This procedure is illustrated by the following emargle. Suppose that you were continuously engaged in contract drilling throughout the 8 months beginning with April and ending with November. Suppose, also, that the following numbers of full-time and part-time wage earners were receiving pay on each of the semimonthly pay-roll periods:

		processiva announcement			THE STATE OF THE S
Pay-roll period	Pull-time wage earmed	Part-time wage sarpers	Pay-roll period	Full-time wage carners	Part-time wags carnets
Apr. 1-45 Apr. 14-26 May 1-15	路路	2 2 2	Aug 19-31 Aug 19-31 Sept 1-11	20 18 20	2
May 19-24 June 1-13 June 19-26 July 1-15	20	## 52 06 \$t	Hept W-Ro Oct 1-15 Oct 15-31 Nov 1-11	20 18 15 12	2 2 1

In this case, add the numbers of full-time wage earners in active pay-roll periods (16, 13, 15, 18, 26, etc.), giving a total of 276, and divide this total by the number of active pay-roll periods, which is 16. The average number of full-time wage carners on active days is 270 divided by 16, or 17 full-time wage carners. Similarly, add the numbers of part-time wage carners in active pay-roll periods (2, 2, 2, 3, etc.), giving a total of 34. This total divided by the number of active pay-roll periods, 16, gives an average of 2 part-time wage carners. If you were not continuously engaged in contract work for oil- and gas-well operations, skip

the periods of inactivity; add only the numbers of wage earners in active pay-roll periods and divide by the number of active periods only.

Length of workweek,—Report the customary number of hours per ws earner in the full-time workweek, exclusive of overtime, at your operations, not attempt to indicate minor variations from the usual practice.

Inquiry 10 Power equipment. Report all power equipment in use or available for use in contract work for oil or gas companies as of January 1, 1940 (whether owned by you or rented from others). Include all prime movers and electric motors, both stationary and mobile. Give the horsepower rating indicated on name plates. For "prime-mover-generator units" that are rated only on the generator, the horsepower rating of the prime mover should be reported as one and one-half times the kilowatt rating of the generator. For gasoline engines, report the brake horsepower.

Electric motors, which are not prime movers, should be included

under B and C and should not be reported under A.

Do not include motor-generator sets and rotary converters under A. B. or C.

Inquiry 11—Cost of drilling and equipping wells on contract completed by you in 1939.—The purpose of this inquiry is to segregate your principal costs of drilling and/or equipping wells (oil, gas, or dry) on contract for oil or gas companies during 1939.

Include the cost of wells drilled by you for oil or gas companies and abandoned before completion in 1939. Include the cost of wells completed in 1939 although begun in 1938. Exclude the cost of wells drilling wells that were in process of drilling at the end of 1939. Do not include the cost of wells, if any, drilled for your own account and not on contract for oil or gas companies.

Report only the costs specified. Note that these do not include taxes, interest on investment, overhead, etc. Take care to include only the part of costs of drilling and/or equipping wells which was for work or equipment furnished by you on contract for oil and gas companies. Exclude the costs for work or equipment furnished by oil or gas companies and not covered by the amounts received by oil or gas companies and not covered by the amounts received by you for contract work

Under "Cost of drilling" report the cost of labor, supplies, water, fuel, and power used in such operations as the following: Moving on to location, not farther than from the nearest railroad station, all equipment and supplies incidental to operations; excavating for derrick foundation; building derrick foundation; digging slush pit; erecting derrick and wiring same; building loading or pipe racks; laying fuel and water lines; rigging up; drilling hole; making straighthole tests or surveys; coring; testing formation; mud conditioning; reaming; running casing, screen, and liner; cleaning out; bailing; swabbing; fishing; repairing and maintaining rig or derrick; tearing down rig; dismantling derrick and racks; and moving equipment of location. If any of the above operations were performed for you on contract, include the amounts paid to contractors for such work.

Report the cost (including freight and express charges thereon) of all supplies used in the above operations such as: Mud, weighting materials and mud chemicals; lumber or timber for making forms, mud terials and mud chemicals; lumber or timber for making forms, mud boxes, pipe racks, constructing derrick, etc.; cement, sand and gravel; all rig-operating supplies such as oils, grease, packing, rope, firebrick, etc.; all drilling bits, reamers, and core heads; hand tools; iron and steel for derrick and for blacksmithing; cordage and wire lines; and any additional supplies necessary for the operation of either rotary or cable-tool outfit. Deduct the value of materials salvaged after use. Include charges for the use of drilling machinery and tools in accord with best local practice; if the machinery and tools were rented report the rentals thereon. Do not include here the cost of equipment chargeable to the well which should be reported under "Cost of well equipment." Include the total cost of water if purchased or cost of water well if drilled and chargeable to oil- or gaswell drilling operations. Include also all fuel or power used in conwell drilling operations. Include also all fuel or power used in connection with these operations. If some of the fuel or power was not purchased, include a carefully estimated value of such fuel or power

Under "Cost of well equipment" report the cost of all equipment chargeable to the wells and necessary for production. Exclude the cost of equipment furnished by oil or gas companies and not covered cost of equipment furnished by oil or gas companies and not covered in the amounts received by you for contract work. Do not duplicate any costs reported under "Cost of drilling." Under "Equipment for flowing or pumping," include tubing, packers, flow lines, flow tanks, oil and gas separators; wellhead fittings, such as Christmas tree and connections, tubing head, chokes, gauges, anchor clamps; etc. Under "Production derrick" report the cost of pumping derrick; if drilling derrick was left over well after completion and was used for production exclude all costs of such derrick from "Cost of drilling," and report them only under "Production derrick."

APPENDIX B

This report is required under the provisions of the Bituminous Coal Act of 1937, pursuant to Section 10 of the Act. The questions are no framed as to supply data meeded for administration of the Coal Act and at the same time to provide the estatistics for hituminous coal mining for the Skreenth Decembial Census. Another act of Congress provides for a general census of industry, mines, agriculture, and population to be taken during the year 1948 and to cover operations during the calendar year 1959. By agreement between the Departments of Commission and of the Interior, the statistics of bituminous coal from mines producing more than 5 tons delily and from mines having rail or ziver connections are collected on this joint questionnaire. This will relieve producers from answering two different questionnaires and at the same time will effect savings in public expenditures.

Employees of the Coal Division are subject to the penalties imposed by Section 18 of the Coal Act for manutherized disclosure of confidential data, and the disclosure of the operations of individual preducers shall be subject to the limitations imposed by the Act. Employees of the Census Bureau are subject to the Act of Congress providing for the sonous, making it arise whal for the Consus Bureau is disclose any facis regarding the business of individual producers.

DO NOT FILL IN	BCD FORM T-1 1939	DO NOT FILL IN
(Industry number)	UNITED STATES DEPARTMENT OF THE INTERIOR	File No.
(State and county)	BITUMINOUS COAL DIVISION	
(Central office number)	in cooperation with	BCD Key Code No.
(Schedule number)	UNITED STATES DEPARTMENT OF COMMERCE	# participated Aconscious policing is a full of more or a transplation beautiful groups of the fifther form or an internal more or a more
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ANNUAL REPORT OF PRODUCTION AND MINE OPERATION: 1939

BITUMINOUS COAL MINES OVER 50 TONS DAILY AVERAGE

16-550

Please reply to the following questions and return the schedule promptly to the Statistical Bureau of the Bituminous Coal Division for your district. Report on this form mines having an average daily production of more than 50 tens; also all mines with rail or river connections regardless of size. Before preparing your report, read carefully all instructions on this schedule.

Answer each question and if the answer is "none," please so indicate rather than leave the space blank. A schedule should be filled out if you operated ANY PART of 1939. If you had no output, so state and answer other pertinent questions. Additional blank copies will be furnished upon request to the Statistical Bureau of the Bituminous Coal Division for the District in which your mine is located.

This report should cover operations during the calendar year ended December 31, 1939.

This report should cover the operations of your mine or strip pit together with its shops, yards, preparation plant, if any, and effice. A SEPARATE REPORT SHOULD BE MADE FOR EACH MINE OR STRIP PIT. Omit data relating to coke evens.

Disregard spaces for "Key," "Code," and "Item" numbers, and those marked "DO NOT FILL IN." (These are for office use only in connection with machine tabulation.)

A. Name of mine		
B. Name and address of operator		Section 2017 - All All All Section 2017
1. Is the concern operating this establishmen	nt incorporated?	Complete and the second
2. Does this concern operate mines other the		
C. Location of mine workings covered by this r		(४ वंड ६०८ होन):
1. State or nearest which located)	2. County	
5. Shipping point	***	
6. Coal Act District	7. Field or Trade District	Eey
D. Was there any production or development w	work at this mine during any part of 1939?	A-2
E. If this report does not cover the operations	of this mine during the entire year 1939, give	dates of period covered
and the name and ac	ddress of the operator for the remaining porti	on of the year
F. Name or number of coal seam worked		THE RESERVE OF THE STREET OF T
1. Average thickness of coal seam: Including	ng partings inches. Exclusive	ding partings inches
G. If mine produced no coal in 1939, please ch	eck below in proper square:	
Idle, not abandoned Permanently at	pandoned or worked out Out of busine	



The state of the s	E OF PRODUCTS AND VALUE	Or HO	Or amou an	TC OILL		-	
A. Production of coal in 1939 (include					Item	Quantity in net 2,000 pound D-4	tons of
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	iding for shipment by rail						
9. Harded by truck to materials	for shipment by water				213	~	
d. Haused by truck to waterway	excluding coal used by mine emplo	VAPE)			214		
	extracting total used by initio compa-				1 1		
5. Coal used by mine employees	at tipple	· · · · · · · · · · · · · · · · · · ·				**********	
6. Taken by locomotive tenders	at upple				217		
7. Used at mine for power and I	neat (colliery fuel)				1 1		
	ine (coal used)				<i>i</i> 1		
9. Other (specify)	at mine between January 1, 1939, if decrease indicate by minus (—)	nd Janua sign)	ry 1, 1940. (If	increase			
Total production of coal i	in 1939				1		
B. Value of coal produced as repo	orted under A above. (Report to	otal Item	Unit of measure	Quan	-	Total value D-5	
B. Value of coal produced as repedollars received f. o. b. mine value of coal not sold but use other purposes) C. Other products from this operation		or 1		xxxx	xxx	\$	**************************************
D. Electric power generated at this power reported under Inquiry E. Amount received for work or se	operation and sold. (Do not incl	ude 3	1			\$	
E. Amount received for work or se	ervices performed for other establing, pumping, shop work, etc	ish-	xxxxxx	xxxx	xxx	\$	
The state of the s	, г — , , , , , , , , , , , , , , , , ,	4		Code	Key		Key
						\$	(
Grand total value (B+C	+D+E)	~************			A-3	\$	A-4
	OUTES:				A-3	\$	A-4
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INQUIRY 2a—TRANSPORTATION R A. List of railroads or waterways of Name of railroad or waterway	OUTES: on which product was first loaded Net tons loaded on each	for shipm Name of	ent: Frailroad or water	way	Net	tons loaded on ea	ach
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for Social S as salaries.	ider inqu Security, Report developm	S AND WAGES iry 3. Include a insurance, dues, net wages only; i ent work is charge tese supplies with	il salari etc. If If the co ed to en	es, wag free res st of st inlovees	es, be ut wa nithir cand	muses, s furni g, and deduct	comm shed a of exp ed from	issions (and 8 part com Josives for	i profits when pensation of sea large fuel	n paid to e employees and simi	emplove , its val lar mine	es) belor us shoul siloneus	re ded: d be iz : used	actions cluded in ore-
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		and wages paid (.							***************************************			**************************************	**************************************	A 10
the pay-ro	ll period	RNERS EMPLO ended nearest the iry 3B above.	ored, , a 15th c	of each	NTH mont	S.—Re h. Fi	quet t gures s	given in th	of wage ears is inquity she	ers recett juld includ	i ng pa_l le only ti	tor any he class	tame of em	during ployees
Number	Key	Number	Key	N	mber	-	Key	Number		Code I	iey T	otal W. I	M	Key
January	C-1	April	C-4	July.			C-7	October	C-10		(E)	d mat kn	A. 10%)	
February	C-2	May	C-5	Augu	st		C-8	November	C 11	A	-11		E Production Co.	A 12
March	C-3	June	C-6	Septe	mber		C-9	December	C-12	lo	: 13	Albertan .	1	C-14
		Department			Item	Total :	man-ebilti during lili	Longth of shift (hours)	Tatul man-baser worked during is	Siert er closed to 300	of they a to w developmen y each dops	n work wa Manual	S A Veres	po gogindes po escripcia cing poly instrad cilian
							aurnag na E-1		E-2	On first	Cra success stalk E-4	(for third south E-5	84	E-6
(a) (b) (c) 2. Dur	develops Undergro In strip overbu Surface (i mine s coke o Tring inact cluded u	e days (devoted ment work): und (mining and pit (mining coal rden) including tipple, chops and yards vens and office for otal of above tive days (all day nder 1 above) for the days (all day nder 1 above)	develop and str leaning but exc rce) vs in year all d	oment). ipping plant, luding ar not lepart-	6			xxx		XXX	xxx	-		
3. Du	ring both otal of 1	active and ir and 2 above)	ractive	days	5			x x x		x x x	XXX	X X 3		
		DO NOT FILL IN			8	xxx	xxx	xxxx	xxxxxx	x				
C. Numb pay und repo	er of wag period en erground, erted in la	tual records of m e earners on each ded nearest Octo or in strip pit, s ist column should uiry 3B)	shift r ber 14, ind on be the	eceiving 1939, in surface same a	s the	ng nur ne "To numbe	rmal ober tai" r re-	nan-bours?	(¥ 00 07 800)	E-13	T	eurd rheit E-8		T otapi
D. Total	number	of full days tipple days. of hours per was	e was in	operat	ion di	iring tl time w	he yea	r. (Parts		n):	erted to	equival	ent fu	ll days
U	ndergrou	nd		In %	Nome to					an care an extension of the engineering	Made #	De 1	Oode	Key
		E-14	Code	Key E-15		-14	Code	Key A-15	A-16			-17	TOTAL STATE	A-18

INQUIRY 7—SUPPLIES, MATERIALS, FUELS, AND ELECTRIC ENERGY CONSUMED.—The items entered here should represent the quantity and cost of supplies, fuel, and electric energy actually used during 1939, for any purpose in connection with the development or the operation of the mine and its shops, yards, preparation plant, and office. Include freight and haulage costs. Include the quantity and value of supplies and fuels which were both produced and consumed by you. Include explosives and similar mine supplies sold to employees. Do not include any machinery or equipment reported under Inquiry 9.

Item	['nit	Quantity	Quantity		
A. Supplies and materials	xxxxx	*****	Key	\$	Key B-1
B. Fuel: 1. Coal, bituminous 2. Coal, anthracite			F-1 F-2	\$	
Coal, and ractice. Fuel oils (including heating oils, but not gasoline or lubricants) Gasoline and kerosene	Bbl.(42 gal.)		F-3	\$	
5. Natural gas (used for fuel or power) 6. Other (specify)	M cu. ft			\$	
Total value of fuels				\$	B-2
C. Electric energy used: 1. Generated by your company			F-6	****	<i>4</i> 1.
2. Purchased	Kwhr		F7	\$	B-3

INQUIRY 8—AMOUNT PAID TO CONTRACTING CORPORATIONS FOR WORK DONE DURING 1939.—Include all contract work such as pumping, tunneling, shaft sinking, stripping, boring test holes, hauling, shop work, etc. Exclude payments to workmen employed by your company whose compensation should be reported under Inquiry 4.

Name and address of contractor	Nature of contract work	Amount paid (omit	; cents)
Α	 		
		\$	
В.	**************************************		
(If more space is needed use a separate sheet and attach here)		\$	Key
Total amount paid contractors		\$	B-4

INQUIRY 9—COST OF BUILDINGS, MACHINERY, AND EQUIPMENT ERECTED OR INSTALLED DURING 1939.—Report all permanent additions and major alterations made on contract or by your own employees, which were charged during the year to capital asset accounts and which are of the type for which depreciation accounts are ordinarily maintained. Exclude expenditures for replacements which are in the nature of maintenance. Exclude construction of company houses and similar construction not used for mineral production or related activities.

		 200	•
A.	Cost of new construction or major alterations of buildings and other structures in 1939. Exclude machinery and equipment for these buildings and structures, except that which is an integral part of the buildings. Do not include cost of old equipment or material used in this construction unless purchased from others. Exclude value of land	\$ ı	B ⊸
B.	Cost of all new machinery and equipment installed in 1939 and charged to capital asset account (include both movable and fixed equipment but exclude any equipment reported under A)	\$. 1	В
C.	Cost of all machinery and equipment (movable or fixed) purchased in a "used" condition and charged to capital asset account (exclude any used material reported under A)	\$)	B-
		1 .	

INQUIRY 10—POWER EQUIPMENT.—The figures given in this inquiry abould represent equipment in use or available for use as of January 1, 1940. Include emergency or stand-by equipment and equipment temporarily idle because in need of repairs; exclude only junk.

W-1 -t		Sta	tionary		Markike*			
Kind of power equipment	Num	ær	Total horse; rating	wwer	Number	Total horses	power	
(1)	***************************************	Key		Key	Key		Ley	
A. Prime movers (include steam engines and turbines, internal-combustion engines, water wheels, and hydroturbines): 1. Prime movers driving electric generators		G-1		G-2	G-3		G-4	
2. Prime movers not driving electric generators		G-5	allulgradian er kalen geranler i er in derbygg	G-6	G-7	jerovos candorialistavijais ja ja ja ja ja ja ja ja ja ja ja ja ja	G-8	
Total prime movers.		G-9	************	G-10	e-11	pro en en proposition de la compansión d	G-12	
3. Prime movers, included in 1 and 2, ordinarily idle but held for stand-by (not junk)	a thid - play a day y y y y y y	G-13		G-14	G-15	* * * * * * * * * * * * * * * * * * *	G-16	
B. Electric motors driven by purchased energy		H-1		H-2	н-з		H-4	
C. Electric motors driven by energy generated by your company		H-5		H-6	H-7	and many fact for a field or to the or	H-8	

"Report under "Mobile" the number and total horsepower rating of engines, motors, etc., used for driving mobile or partiable equipment, such as isomostives, cutting or theoring machines, machines, scraper loaders, duckbills, and self-loading conveyors, pit-car loaders, has conveyors, track-mounted electric drults, entry drivers, power abovels, deagline encounters, and toucks not used to reduce the delivering coal to consumers. Exclude data for locomotives owned by railroad companies.

INQUIRY 11—NUMBER OF MECHANICAL-POWER LOADING MACHINES OR UNITS, BY TYPES.—The figures given in this inquiry should represent equipment in use or available for use as of January 1, 1940. Include emergency or stand-by equipment and equipment temporarily idle because in need of repairs; exclude only junk. (If more space is required, attach a separate sheet.)

		Tetal	Numb	or of machines power		y kind of	Nufaber bu	of machines chet capacit	okasiSed by y in subic ye	disposit est sodu		Next tens of soal
Type of machine	Item		Steem O-2	Electric er Diesel- electric O-3	Com- pressed pår O-4	Generaliza or Dissel O-5	Less them 3	3-6 inche 2000 O-7	6-12 inein- 617-0 O -8	Mare than	Minister and model unitables	tendind mechan- leady in 1999
A. Surface operations: 1. Power shovels			1	1	1	ļ	1		į	į		
3. Other (specify):	2		- R - Hog is Value or	-								****
B. Underground: 1. Mobile loading machines: (a) Gathering types												***
(b) Shovel types	1	1	i	1			l .	į.	i			
2. Duckbills and self-loading conveyors	15	~~~	* * *				* * *	* * *	xxx	HKR		·
3. Pit-car loaders.	16		* * *				xxx	xxx	xxx	xxx		
4. Hand-loaded face conveyors*	17		x x x							TOTAL STREET,	1	
							Inclinios o	f peroper he berse	power	d by Fasco		
							Less then 0-10	0-11	26-166 tackagive O-12	O 13		
5. Scraper loaders	13		* * *	, igiinaki, qirigi i reze	, mije di digina kataka kataka m	principal description de la constantion de la co					The second of th	on the property of the test of the second section is a second second section of the second section is a second
Total underground	20	**********	xxx		and the state of t		xxx	xxx	xxx	XXX	****	The second secon

*Do not include "mother" conveyors which perform a transportation function. Comm each conveyor advancing a racen face or coury face, or working on a pillar, as a machine or u

Form BCD 281 T-1, March 1948

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INCHIDA 19 CHAMING MACHINES IND REMINANC OF BUINNIG.	DO 1	NOT FILL	IN	***************************************	Key		Key
INQUIRY 12—CUTTING MACHINES AND METHODS OF MINING:	District	code			P		P-2
			mentalistic control and purchase of				
i	Seam th	ickness			P-	3	P-4
A Now has the first and the Court of the section of all topographs			"Permissible"			All o	
A. Number of mining machines (cutting or shearing) of all types used:					P-5		Key P-6
1. Track mounted			1		P-7	**************	
2. Other types (shortwall, longwall, etc.)					P-9		P-8
Total	***	**********			F-3		P-10
				Item	(Quantity in n	et tons
B. Coal produced by different methods in 1939:							
1. Tons undercut by hand				228			
2. Tons shot from solid				229			*************
3. Tons cut by machines		g and the sale and the gap the sale gap.		230		*************	**=====
4. Tons mined from strip pits			-				***********
INQUIRY 13-MECHANICAL CLEANING BY WET OR PNEUMATI	C MET	HODS (exclude hand	d picki	ing or	n tables):	
	Item	Wet	-washing metho D-1	ods		Pneumatic m D-2	ethods
A. Make and type of cleaning equipment (list name)			****************			***************	**********
B. Sizes of coal mechanically cleaned							
C. Tons of raw coal cleaned in 1939	232		*********	·			
D. Tons of cleaned product obtained	233		***				
E. Tons of refuse (exclude this refuse in answering Inquiry 2 on page	234						
INQUIRY 14.—Were there any strikes or labor suspensions in 1939 at the in days, excluding Sundays and holidays:	mine?	If so, pl	lease state nu	mber	of me	n affected ar	nd duration
V. or						Key	
Men on strike or suspension P-11 Average	***************************************					P-12	
EXPLANATIONS.—Write here explanations and comments that would a	id prope	r interpr	retation of yo	ur rep	ort.		
	**********		· · · · · · · · · · · · · · · · · · ·				

			ranger or an experience of the section of the secti				
						9×20×0×0×0×0×0×0×0×0×0×0×0×0×0×0×0×0×0×0	
CERTIFICATION THIS IS TO CERTIFY that, to the best of my knowledge and belief, the the calendar year 1939.		tion con	tained in thi	s repo	rt is c	correct and c	omplete fo
THE AUGUS		*****				والمعادة وال	
		(Bigna	ture and official title	s of person	a furnish	ing information)	
(Labe of sagmature)	•			Address)		**********	
			,	-			

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE FILLING OUT THIS SCHEDULE

GENERAL INSTRUCTIONS

I. This report should cover the operations of your mine together with associated shops, yards, tipple, cleaning plant, and offices.

II. For census purposes a mine is generally defined as a group of workings at a given locality in which operations are conducted as a unit or are unified by common management or joint handling of some part of the mining or preparation process. Individual shafts, openings, or sites should not, therefore, be necessarily considered as individual mines.

III. If you produce minerals other than bituminous coal (such as clay, stone, etc.) from the mine covered in this report, they should be reported under Inquiry 2B. If, however, such products were produced from mines that did not produce coal, separate reports should be made on the appropriate census schedule for each such product. If you have not already received such a schedule, it will be furnished upon application to the Bureau of the Census, Washington, D. C.

IV. Do not include on this schedule any data relating to the manufacture of coke.

V. The figures reported (typewritten, if possible) should be taken from your books; but if the books do not give all the information required, as, for example, under Inquiry 6, carefully estimated figures are acceptable. Figures entirely estimated should be so noted on the schedule by the mark "Est."

VI. Do not attempt to account for all your costs of production or selling upon this form. Report only the expenditures specified in Inquiries 4, 7, 8, and 9. These are collected by the Census Bureau from all mines and quarries, and in comparable form from all manufacturing enterprises, thereby permitting comparisons of bituminous coal and other industries and furnishing general information needed by the Coal Division. Details of costs and sales realization are to be reported on Bituminous Coal Division Cost Form No. 3, revised.

SPECIAL INSTRUCTIONS FOR INDIVIDUAL INQUIRIES

Inquiry 1-Name, location, and description of operation. Report under A the local name of the mine.

Distinguish carefully between A and C, giving name and location of the mine reported, and B, giving name and address of the operating

If the boundary of a State, county, city, town, or village runs through the property, report under C the location of the mine as that State, county, etc., from which the greater part of the coal produced in 1939 was mined.

Inquiry 2—Quantity and value of products and value of work done for others.—Under the subdivisions of A account for all coal produced during the year 1939, excluding washery and other refuse. Under A-6, "Taken by locomotive tenders at tipple," include only such railroad fuel as is loaded directly into locomotive tenders at the tipple. All other railroad fuel should be reported under A-1.

Under A-9, "Other (specify)," report all coal used directly at the mine for uses not covered by A-7 and A-8, such as the manufacture of briquets, etc.; also report "Conveyor tonnage" (deliveries by conveyor belt, chute, aerial tramway, etc.), moved entirely from the mine to destination in this manner; also report any additional production not otherwise reported. In reporting under A-9 avoid duplication with any tonnage given under A-1 to A-8, inclusive.

Changes in stocks of coal on hand at the mine, which must be allowed for to balance production against disposals, should be reported on line A-10.

Report net value of products f. o. b. mine. Value should exclude selling expenses and freight or trucking charges on coal shipped to customers, in order to permit comparisons with other industries covered by the census.

Report under E the amount received (or amount due) for all work if any, performed by you during 1939 for other establishments if that work was done by your employees, who should be reported under Inquiries 3, 5, and 6, and whose compensation should be reported under Inquiry 4.

Inquiry 3-Persons engaged, by classes. Include all employee receiving pay for any time during the normal pay-roll period ended nearest October 14, 1939. Those employees who had headquarters at the mine or preparation plant but who worked elsewhere should

also be included. Employees on vacation or sick leave with pay should be included. Exclude those employees who worked at the mine but who were on the pay roll of another employer (such as employees of contracting corporations). Exclude employees who were on the pay roll of the reporting operator but who worked at coke on the pay red of the reporting operation but who worked at come ovens or were engaged in the operation of company stores, boarding houses, bunkhouses, recreational centers, etc. If an employee was engaged part of the time in any of the latter activities and part of the time in coal mining or preparation, he should be reported under Inquiry 3 only if most of his time was devoted to coal mining or preparation.

Preparation.

Salaried employees.—No person should be reported as a salaried employee under 3A merely because he was hired by the week or month instead of by the day. The distinction should he hased primarily on the character of work done rather than on the unit of time that was the basis for compensation. For example, hoisting engineers and firemen paid by the week or month should be classed as sage earners under B rather than salaried employees. Timekeepers, clerks, stenographers, and others in similar occupations should be classed as salaried employees under A. If one person served in more than one capacity, that person should be counted only once. For example, if a clerk was also a manual worker, he should be counted only once, under A or B, according to the activity to which he devoted most of his time.

Wane carners.—Report as wage earners under B all those who performed

activity to which he devoted most of his time.

Wape earners.—Report as wage earners under B all those who performed manual work, using tools, operating machines, handling materials and products, and caring for the mine, preparation plant, ships, yards, etc. Include with wage earners gang and section bosses, and foremen who devoted most of their time to manual labor. Account for all workers paid on either a time or piecework basis employed at the mine covered by this report. Include both full-time and part-time workers. Include wage earners not actually accounted for on the pay rolls but pool underedly through such employees of this operator as amperiatendents, foremen, miners, and the like. Include "contract miners" (miners who undertake to recover mineral products at a stipulated price per ton, car, etc.), if any, and the men engaged by them and paid out of the total amount received by the contract miners. Clerical employees should be included under A and not with wage earners.

Proprietors and firm members.—Report under C all owners, partners, etc.

Proprietors and firm members.—Report under C all owners, partners, etc., of concerns that are not incorporated. Do not report any such persons under A or B even though they received a salary. Those proprietors or firm members who performed manual labor in or about the mine should be included under C and also reported under C-1.

Inquiry 4-Salaries and wages. Include all salaries, wages, bonuses, and commissions paid during 1939. Do not deduct employees' contributions for Social Security, group insurance, union dues, or for similar purposes. If free rest was furnished as part compensation of employees, its value should be included as part of salaries. Bonuses or percentages of profits paid to officers, superintendents, foremen, or wage earners should be included in the amount of salaries or wages, but dividends on stock held by officers and employees should not be included.

Report net wages only; if the cost of smithing, and of explosives fuses, lamp fuel, and similar mine supplies used in production or development work is charged to employees and deducted from their wages report the amount of wages after such deductions. Report the cost of these supplies with other supplies under Inquiry 7A.

Inquiry 5-Wage earners employed, by months.-Report here all wage earners—such as defined for Inquiry 3B.

Inquiry 6—Wage earners by departments and working time.—The principal purpose of this question is to determine as accurately as possible the man-shifts and man-hours worked in producing coal (and other products, if any). Data should relate to wage earners (that is, manual workers, exclusive of office force) such as defined for Inquiry 3B. Since practice in the keeping of time worked is known to vary, please use actual records where they are maintained, and where not, supply the best available estimates.

Under A-I report employment and working time on all days when the mine or preparation plant was active. Count as active all calendar days during which there was any production of coal or any regular development work, aside from incidental clean-up or repairs. (Include here the number and the time of maintenance men working on days when the mine was active.) Regard all other days as

For "Underground" report men engaged in production or development work whose duties were wholly or chiefly underground.

For "In strip pid" report men engaged in open-cut mining or stripping operations—removing overburden, drilling, shooting, loading, havinge, etc.—whose duties were wholly or chiefly inside the open pit

For "Surface" report employees engaged at the tipple, cleaning plant, mins shops, host, fins, power-house, yards, etc., whose duties were wholly or chiefly outside the mine or strip pit.

Under A-2 report man-shifts, man-hours, and the average number of wage earners engaged in such work as maintenance and inspection on days when the mine or tipple was inactive, including Sundays or holidays. (This should include all man-shifts and man-hours which are not covered under A-1. If no separation between active and inactive days is possible from available records, include all time worked under A-1, and state under "Explanations" at end of schedule that data for A-2 in Inquiry 6 were combined with data for A-1.)

Man-shifts and man-hours.—A man-shift is the work of 1 man during 1 shift. Similarly, a man-hour is the work of 1 man during 1 hour. If no separate record of man-hours is kept, the number of man-hours may be taken as the number of man-shifts times the number of hours in the established shift. If the length of the shift is 7 hours, 1 man-shift may be taken as 7 man-hours. (Similarly, if 10 men worked 100 7-hour shifts each, the aggregate number of man-hours worked may be taken as $10 \times 100 \times 7$, or 7.000.) If, however, a separate record of man-hours is kept, it should be reported in place of the calculated man-hours above described.

lated man-hours above described.

Number of days on which production or development work was done on the first, second, or third shift,—In the column headed "On first shift," for "Underground" or "In strip pit," report the number of days during 1939 on which the mine was active a full 7-hour (or other) shift in cutting, loading, or shooting coal, or in systematic development work. For "Surface" report the number of days on which the tipple loaded coal or on which coal was grushed or cleaned for the full first shift. Do not count the days on which the only work done was maintenance (pumping, inspection, etc.) or incidental repairs. Count as part of a day, each day on which the number of hours worked in the first shift did not amount to the full (7 or other) number, and reduce parts of days to equivalent full days. For example, count the days on which there were two starts on the first shift of 3.5 hours each as equal to one day on which the start was a full 7 hours. Similarly, if mining, coal preparation, or systematic development work was performed on the second shift, report the number of days during the year on which such activity was carried on in the column headed "Second shift,"; and if such work was done on a third or "graveyard" shift, report the time in the column headed "Third shift" in the same manner prescribed for "First shift."

Average number of wage earners.—In the column headed "Average number of wage earners receiving pay," report the average number employed on the days when the mine (or tipple) was active for production or development during 1939, including the men working on all shifts.

The following method for computing the average number of wage earners in each department is suggested:

a department is suggested:

Count the number of wage earners on each active pay-roll period. Do not count wage earners on pay rolls when the mine was inactive and gave employment only to maintenance men. For example, consider a mine which was active in January, February, and March 1938; was shut down in April, May, and June, giving employment those months to maintenance men only; and resumed active production for the remaining months of July to December.

Suppose the number of men employed underground on all shifts was as follows:

Semimonthly pay-roll period	Rage carners rectiving pay	Semimonthly pay roll period	Wage carners receiving pay
Jan. 1-15	260	July 1-15	295
Jen. 16-51	203	July 16-31	296
Feb. 1-15	394	Aug 1-15	298
Feb. 16-28	368	Aug. 16-31	200
Mar 1-15	1004	Sept. 1-15	
Mar 16-8i	306	Sept. 16-30	216
Apr. 1-15	4	Oct. 1-15	320
Apr. 18-30	4	Oct. 16-31	325
May 1-15	1 3	Mov. I-15	327
May 16-Di	4	Nov. 16-90	328
June 1-15	5 1	Dec. 1-15	329
June 16-30	4	Dec. 16-31	230

In the above example eliminate the periods of shut down in April, May, and June, when only maintenance men were employed and add numbers for the 18 active pay-roll periods, giving a total of 5,604. Divide this total by the number of active pay-roll periods, which is 18. The average number of wage earners employed underground when the mine was active, is then 5,604 divided by 18, or 311. In a similar manner compute the average number of wage earners for "In strip pit" and "Oa surface."

Under C indicate as nearly as possible how many of the total number of wage carners reported under Inquiry 3B were employed on the first, second, or third shifts. If separate records were not maintained for each shift, supply the best available estimates.

Length of workweek.—Report under D the customary number of hours per wage earner in the full-time workweek, exclusive of overtime, for wage earners employed underground, in the strip pit, or on the surface. Do not attempt to indicate minor variations from the usual practice.

Inquiry 7 Supplies, materials, fuels, and electric energy consumed. The figures reported for this inquiry should represent the cost of materials, etc., actually used or consumed during 1939, which may be different from the cost of materials purchased during the year. If the costs of materials and fuels actually consumed during the year are not shown in the book records, they may be computed by adding to the amount paid for materials purchased during the year the value of inventory of materials on January 1, 1939, and deducting the value of inventory of materials on January

ary 1, 1940. Under "Supplies and materials" include such items as explosives, fuses, lumber and timber used for mine supports or repairs, track ties, rails, tools or parts used for renewals or repairs, iron and steel for blacksmithing, lubricating oil, water for boilers and other purposes, etc. Explosives, fuses, and similar mine supplies sold to employees should also be included.

Do not include under Inquiry 7 items chargeable to depreciable capital accounts, such as cost of equipment reported under Inquiry 9. Electric energy which was generated at the mine and sold to outside establishments should not be reported under Inquiry 7C-1; such

energy should be reported under Inquiry 2D.

Inquiry 8—Amount paid to contracting corporations for work done during 1939.—Report total amounts paid to other corporations (or partnerships, individual proprietorships, etc.) engaged in contract work such as stripping, shaft sinking, boring test engaged in contract work such as stripping, snait sinking, boring test holes, tunneling, etc. Do not include amounts paid by you in salaries or wages; these should be reported under Inquiry 4. Do not include here payments to workmen employed by you as "contract miners," if any (miners who undertake to recover mineral products at a stipulated price per ton or car, with the help of men engaged and paid by the contract miners out of the total amount received). The compensation of such workers should be included under Inquiry 4.

Under "Nature of contract work" indicate the kind of work

performed under contract, such as stripping overburden, shaft sink-ing, etc. Report the total amount paid to each contracting company for all types of work. If part of the payment to a stripping contractor was in material stripped (such as coal), an estimate of the approximate value of the stripping service should be reported.

Inquiry 9—Cost of buildings, machinery, and equipment erected or installed during 1939.—Report only the cost of buildings, machinery, and equipment constructed or installed during 1939 and exclude cost of land purchased. Include only additions to capital asset accounts which will be depreciated over a period of more than

1 year, thus excluding minor additions and replacements.
"Cost" should include the amounts paid or amounts due for such capital additions during 1939 (excluding amounts paid during 1939 for additions made in other years). Thus, if the work on new construction or on major alterations was either begun prior to 1939 or not completed by the end of 1939, report only that part of the cost of construction (estimated, if necessary) that was actually done during 1939. Include labor and other installation costs. Exclude the cost of buildings acquired by purchase from other companies. Costs reported under items A, B, and C are intended to be mutually exclusive and any costs reported under one of the items should not be included under present. be included under another.

Inquiry 10-Power equipment.—Report all prime movers and electric motors, both stationary and movable, in use or available for use as of January 1, 1940 (whether owned by you or rented from

Give the horsepower rating indicated on name plates. For "prime-mover-generator units" which are rated only on the generator, the horsepower rating of the prime mover should be reported as one and one-half times the kilowatt rating of the generator. For gasoline engines, report the brake horsepower.

Electric motors are not prime movers and should not be reported

under A. They should be reported under B or C.

Do not include motor-generator sets or rotary converters under A, B, or C

Inquiry 11—Number of mechanical-power loading machines or units, by types. Report only mechanical-power units used for loading coal or stripping overburden. In the spaces provided under A and B report the number of shovels or loading units of the kinds and sizes indicated. Account for all units in use or available for use on January 1, 1940. Include emergency or stand-by equipment and equipment temporarily idle because in need of repairs; exclude only The sum of the numbers of machines or units classified by kind of power used should equal the sum of the numbers of machines or units classified by size of dipper or bucket (or of scraper hoists for scraper loaders) and each of the sums should equal the number indicated under "Total number of machines."

Classify gasoline-electric power shovels or dragline excavators under "Electric or Diesel-electric" for kind of power used.

In the column headed "Net tons of coal handled mechanically in 1939" enter the quantity of coal loaded with the aid of each of the various types of underground loading equipment listed.

CONFIDENTIAL CENSUS REPORT

Your report is required by Act of Congress. This Act also makes it uninwful for the Bureau to disclose any facts, including names or identity, from your cameus reports. Only sworn cameus employees will see your statements. Data collected will be used solely for preparing statistical information concerning the Nation's population, resources, and business activities.

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DO NOT FILL IN	FC	RM 100-MQ-NF	File No.						
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(State and county)	i e e e e e e e e e e e e e e e e e e e	BUREAU OF THE CENSUS							
(Central office number)		ASHINGTON							
(Schedule number)	CENSUS OF MI								
(Type of operation)	NONFERROUS	METALS 16-389	SCHEDULE						
	(In	Justry classification)							
Reply to the following paring your report read ca	g questions and return as promptly refully all instructions on this schedu	as possible in the encl le.	osed envelope, which requires no postage.	Before pre-					
to do so will necessitate s	in this schedule whether or not mine abmitting an additional report later. none" in the appropriate space.	was in operation for ei Fill in all blanks in s	ther production or development purpo chedule except where otherwise indicated.	ses. Failure If answer is					
operations, including the will be furnished upon re	activities of lessees and sublessees.	USE A SEPARATE ore-dressing plant) se	nill, and ore-dressing plant. It should country SCHEDULE FOR EACH MINE. Additionally more than one mine, or if you open a schedule (Form 109-MQ-NF).	tional blanks					
N	ver operations during the calendar		•	an en en					
Disregard spaces for use only.)	"Key," "Code," and "Item" numb	ers, and those marked	"DO NOT FILL IN." (These are for	Oensus Office					
INQUIRY 1—NAME, LO	OCATION, AND DESCRIPTION	OF OPERATION:							
A. Name of mine (or	mill, if reported separately)		Name and the second of the sec						
1. If this report c	overs both a mine and a mill, give th	name of the mill							
B. Name and addre	ss of operator								
	*************************************	***************************************		Key					
1. Is the concern	operating this establishment incorp	orated?	TY 65 G	A-1					
			is report?						
3. Is this concern	a subsidiary or an affiliate of some o	ther concern?	No Markon (1916) - 18 - 19 (1916) - 19 (1916) - 19 (1916) - 19 (1916) - 19 (1916) - 19 (1916) - 19 (1916) - 19	(Ves or no)					
If so, give n	ame and address of such other conc	ern	医骨骨 医皮肤 医克尔氏试验 计工程 医皮肤 医上颌 化二硫甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	the second section of the second					
C. Location of mine	(or mill) covered by this report:								
1. State	2. Con	inty	3. City, town, or village (wit	hin which or					
nearest whic	h located)	4. Pos	t office nearest to mine (or mill)						
5. Mining distric		6. Ship	pping point	Key					
			(or mill) during any part of 1939".						
E. If this report does	not cover the operations of this min	e (or mill) during the e	ntire year 1939, give dates of period cover	ed					
	and the name an	l address of the operat	or for the remaining portion of the year						
34			and the second s						
F. Nature of operati	ons at mine and/or mill covered by	inis report:	nc, lead-zinc, silver-lead, dry and siliceous	gold, dry and					
1. Principal kind	or kinds of ore produced (specify wi	ecner copper, lead, zii	IC, ROMAL-MARKE, BULLER						
siliceous silv	er, etc.)		and the first of the second of						

2. Metals contained in your ores

Y 1—Continued.					
3. Mining methods (check):					
(a) Open-cut Undergrou	and 🗀 Combinat	ion open-cut as	nd underground [
(b) If underground, check the 1	mining methods used	and underscore	the dominant me	thod:	
Open stoping (including				nkage stoping [Square-setting
Sublevel caving		d-fill stoping [ek caving	Top slicing
				***	r ob mong
•		· · · · · · · · · · · · · · · · · · ·			
(c) If placer, check method of		D 11. [7]	TT J	T)	.: [m]
Sluicing (small-scale h		Dredging [Hydraulicking [
4. Specify type of milling or ore d					
etc					
5. If ore was treated at a custom r					
(a)		6 m 4 h + 4 m - 4 m 4 + 4 m 4 m 4 m 10 m 10 m 10 m 10 m 10 m 10			
(b)					
6. Maximum daily output:					
(a) Maximum tonnage of ore r	mined within any 24-l	hour day in 193	9 0	short tons.	
(1) If underground, give n	umber of shafts used	in raising ore			
(b) Maximum tonnage of ore t	treated by your ore-d	ressing plant w	ithin any 24-hour c	lay in 1939	short tons
7. Give below the names and add	resses of lessees and s	sublessees whos	e activities are incl	uded in this rep	ort:
Naroe	Address		Name		Address
Accession of the first of the f	Address		118IIIG		Address
(a)		(d)	****	
(b)		(e)	****	
(e)		(<u>f</u>)	******	
	(If more space is needed	use a separate s)	
8. If this is a separate report for	r a mill or an ore-dres	ssing plant serv	ing more than one	mine, list belo	w names and locations of
8. If this is a separate report for mines served:	and an experience of the part of the control of the				
8. If this is a separate report for	r a mill or an ore-dres	County	City, town, or village		w names and locations of
8. If this is a separate report for mines served:	State				
8. If this is a separate report for mines served: Name of mine	State				
8. If this is a separate report for mines served: Name of mine (a) (b)	State	County	City, town, or village	Nai	
8. If this is a separate report for mines served: Name of mine (a) (b) (c)	State State	County I use a separate s	City, town, or village	Naz	ne of operator
8. If this is a separate report for mines served: Name of mine (a) (b) (c)	State State	County I use a separate s	City, town, or village	Naz	ne of operator
8. If this is a separate report for mines served: Name of mine (a) (b) (c)	State (If more space is needed ations of smelters or s	County I use a separate s	City, town, or village heet and attach here to which your ord	Naz	ne of operator
8. If this is a separate report for mines served: Name of mine (a) (b) (c) 9. Give below the names and loc Name of smelter or reduced.	State (If more space is needed ations of smelters or section plant	County 1 use a separate s reduction plant	City, town, or village heet and attach here s to which your ord	Name of the Name of Na	ne of operator es are sh i pped or sold:
8. If this is a separate report for mines served: Name of mine (a) (b) (c) 9. Give below the names and loc Name of smelter or reduction (a)	State (If more space is needed ations of smelters or section plant	County I use a separate s reduction plant	City, town, or village heet and attach here s to which your ord	Nan	ne of operator es are sh i pped or sold:
8. If this is a separate report for mines served: Name of mine (a) (b) (c) 9. Give below the names and loc Name of smelter or reduction (a) (b)	(If more space is needed ations of smelters or setion plant	County 1 use a separate s reduction plant	City, town, or village heet and attach here to which your ord	Nan	ne of operator es are sh i pped or sold:
8. If this is a separate report for mines served: Name of mine	(If more space is needed ations of smelters or setion plant	County I use a separate s reduction plant	City, town, or village heet and attach here to which your ord	Name of the second of the seco	ne of operator es are sh i pped or sold:
8. If this is a separate report for mines served: Name of mine	(If more space is needed ations of smelters or setion plant	County I use a separate streduction plant	City, town, or village heet and attach here s to which your ore	Name of the Name o	ne of operator es are shipped or sold: City, town, or village

APPENDIX B

INQUIRY 2—QUANTITY AND VALUE OF PRODUCTS AND VALUE OF WORK DONE FOR OTHERS.—Ores mined principally for their content of metals other than gold, silver, copper, lead, or zinc should be excluded from A-I and A-II and should be reported under B of this inquiry. Value of ore, concentrate, precipitates, and bullion produced in 1939 and not sold or shipped should be carefully estimated and included in the values reported. Where ore, concentrate, precipitates, and bullion are further treated (smelted and refined) by the mining company, the estimated equivalent of sales values of these products before such further treatment should be reported. Under "Total net value" report the net sales value f.o.b. mine or mill. If material was sold to a mill or smelter, "Total net value" should exclude transportation charges to mill or smelter that were paid by the mine operator.

A-I. Quantity and value of ore or concentrate produced in the Tri-State lead-zinc region. Amounts received from milling purchased or custom ores should be reported under A-IV-3 and D-1 respectively.

		F81		ध्यादान्डमाराई	n Bantai Dy asson		DO NOT	FILL IN	
Product	Item	Tons of 2,000 Demads (dry weight)	Total that wanted f. n. b. things of milit total teasts:	(pertent)		Recoverable	popusi pogrienal	A-Opus	Criteral
\$		D1-1	Ď1-2	Lond Line		Zinne (grunnstells) D1 -3	Land South to D1-4	D2 3	D2 4
1. Total crude ore mined.	331	******************	XXXXX	x x	XХ	* * * * *	KXXXX	* * * * *	XXXXX
Crude ore and tailings sold Ore and tailings sent to custom mills for treatment on a custom basis (net value reported should)	333	- m w = 1 m a a a a	\$						
exclude freight to mill and treat- ment and related charges). 4. Concentrates produced at this operation (exclude concentrates	334	7 (M M F V A 14 WE M V M M	\$	er generales		er versus en en en en		en en en en en en en en en en en en en e	
produced from purchased ore and material reported under 2 and 3 above): (a) Zinc: (1) Sphalerite ("jack") from ore. (2) Sphalerite ("jack") from tailings. (3) Silicate and carbonate or zinc "dry bone".			\$						
(4) Total zinc	343		\$				dan sa dhalagainn agus agus ann a Rusain	etation-generalization and the state of the	
(3) Total lead	344		\$: :
5. Total of 2+3+4a(4)+4b(3) 6. Concentrate produced from purchased ores	345 341	xxxx	\$	X X	X X	STANCTON CO. C. C. C. C. C. C. C. C. C. C. C. C. C.			TOTAL CONTRACTOR
7. Concentrate produced from custom ores	342		****						

A-II. Quantity and value of ore, concentrates, etc., at nonferrous metal operations in areas outside the Tri-State lead-zinc region.

Where possible, report the quantity of metal in ore, concentrate, etc., on the basis of settlement assays. Under "Total net value" report the net sales value f. o. b. mine or mill.

					Quain	Distributed and	1910/SI	als conts	imed, bac	wert son	assa.	y veri	L Parriet					700			'resoldae	
Product		Tons of 2,000 pounds (dry weight) D3-1	(Suid (fine (nuness)) D3-2		(free outsides) D3-3		Copper (possible D3-4		Lead (panids— well aleay) D4-1			-	7 tota (pensión: D4-2		11 :	to. b. maine or m commit residue) D4-5			ik j			
1. Total crude ore mined	331	***************************************	xxxx	x	x x	хх	x	xx	xxx	x	K	X I	X X	X	X	X.	K K	3	K K	×	x x	
2. Direct-smelting ore	332							ļ		.(9	ß'			
3. Milling ore, tailings, slimes, etc., sold to custom mills or to other operators	333				· · · · · · · · · · · · · · · · · · ·														ń			- Committee of the Comm
4. Milling ore, tailings, slimes, etc., sent to custom mills for treatment on a custom basis (net value reported should exclude freight to mill and treatment and related charges).	334		Annuary of the Park Annuar		. 4 4 . 4				1 10									•	8		• • • • • •	
5. Concentrates produced from your own ores at this operation (report here only when this is a joint report covering a single mine served by a single mill)	335		And the state of t	Will divine the same of the sa						Delica Control of the control of the								492	.			
The second of the second secon	, ,,,,,,		(Continued on	Parks 3	(Buge			decision in displayed								CONNEC	drodu ov vold	takilet e t	ac Sq. com		e contratio	consus.

	***	Tons of 2,000	· m determine	Quantities of me	tals contained, bases			Total net value.
Product	Item	pounds (dry weight) D3-1	(fine ounces) D3-2	fliver (fine cunces) D3-3	Copper (pounds— wet assey) D3-4	Lead (pounds wet assay) D4-1	(pounds) D4–2	(omit cents)
6. Concentrates produced from your own ores by your own mill serving several mines. (Report here only when this is a separate report for a mill that serves several mines; in event this mill also concentrated purchased or custom ore, report concentrate from such ores under A-II-12 and A-II-13, respectively, and the amount derived from custom milling under ID-1).	336			•				\$
7. Products from ores leached in place.8. Products from mine-water precipitates.	337 338	* * * * *	****		***************************************	****	x x x x x	
9. Metals from placer operations. 10. Other materials with values in gold, silver, copper, lead, and zinc (specify).	339	****	247.50			****	x x x x x	
11. Total (2+3+4+5 [or+6]+7+8+ 9+10)	340							\$
chased ores	341 342							
				1	DO NOT	FILL IN	1	1
14. Recoverable metal adjustment		x x x x x				***********		
(a)		****				~~~~~~		
(b)		****						
15. Net value adjustment	-	****						
(b)		****						
A-III. Total ore, old tailings, slimes, et	c., mil	lled or concer	ntrated at thi	s operation		(Report here	only when	
A-IV. Amount obtained from milling p							Itam	Key D1-5
1. Total amount paid for or plant)							t \$	*****************
2. Net value of concentrate	produ	iced, f. o. b. i	mill	**************	***********	*************	\$ <u></u> .	
3. Difference between total	cost o	of ore and net	value of con	centrates (2	minus 1)		347 \$	44 - 14 34 - 14 14 14 14 14 14 14 14 14 14 14 14 14
Total A = (A-I-5 [or A-II-11] + A-IV-3)	- do		***************************************					THE PERSON NAMED IN THE PE

B. Other producte of this mining or concentrating operation than those research that the producted has been producted and the mining or concentrating operation than those research that the producted have been reported on a separate schedule, state on which schedule, which are always that the state of the producted have been reported on a separate schedule, state on which (a) and the mineral products (specify): (b)	INQUIRY 2—Continued.						·		
B. Other products of this mining or concentrating operation than those reported under A-1, A-11, and A-1V. Include all material produced products have been reported on a separate schedule, state on which schedule. 1. Metallic and other mineral products (specify): (a) 2. Other than mineral products (specify): (b) 3. Total value (1+2). 3. Total value (1+2). 4. S. 5. S. 5. Anount received for costs do not services performed for other producers and establishments: 1. Anount received for other work, if any, such as stripping, having, pumping, shop work, etc. 2. Anount received for other work, if any, such as stripping, having, pumping, shop work, etc. 3. Total amount received for other work, if any, such as stripping, having, pumping, shop work, etc. 4. S. Grand total value (A+B3+C+D3). MACHEY 3-PERSONS ENGACED, BY CLASSES.—Report the number of gour employees receiving per for any time during the normal pay-oul period ended nearest October 14, 1939. DO NOT count the same person under torse than one of the headings of characteristic control in the control of the producers and persons point on any other processes when performed named work including wave carners and on a time have, control times and persons point on any other processes the having persons employees receiving per part any time during the normal pay-oul period ended nearest October 14, 1939. DO NOT count the same person under torse than one of the headings of the producers of the persons employees and the persons employees on any other processes when performed named work including wave carners good on a time basis, contract miners and persons on one of the part of the persons of the persons employees and the agent of the persons of the persons employees and the persons of the persons of the persons of the persons of the persons of the persons of the persons of the persons of the persons of the persons of the persons of the persons of the persons of the persons of the persons of the persons of the persons of the persons of the persons of the			Metal reneral,	en other ja	unitaria Angresia		nicente es estado en la proposición de la como en como en como en como en como en como en como en como en como		
ported under A-1, A-11, and A-1V. Include all material produced during 1830, whether allipped, stocked, or used by you. (I any of these scholule, law to been reported on a separate schedule, state on which scholule, law to be an experiment of the product (specify): (a) (b) (d) (d) (e) (e) (e) (e) (f) (f) (e) (f) (g) (h) (g) (h) (h) (h) (h) (h	Product or work done	Photo	Velt of measure (specify)			terbejer var tieblik	feato.		
(d)	ported under A-1, A-11, and A-IV. Include all material produced during 1939, whether shipped, stocked, or used by you. (If any of these products have been reported on a separate schedule, state on which schedule.) 1. Metallic and other mineral products (specify):	approximation		And the state of t		The second secon	oʻptinggiantdiğini kirar qayay ganggi		
C. Electric energy generated at this operation and sold. (Do not include energy growth of the property generated at this operation and sold. (Do not include energy growth of the property growth of the property of the prope	(b)				****	8			
C. Electric energy generated at this operation and sold. (Do not include energy growth of the property generated at this operation and sold. (Do not include energy growth of the property growth of the property of the prope	(b)					8	24.		
D. Amount received for work done or services performed for other producers and establishments: 1. Amount received for outbor milling and concentration 2. Amount received for other work, if any, such as stripping, hauling, pumping, shop work, etc. 3. Total amount received for work done for others (1+2). (DO NOT FILL IN) (A 3	 Total value (1+2)	2 3	xxxxxx Kwhr.	xxx	xxx	5	~		
Total amount received for work done for others (1+2). A S	D. Amount received for work done or services performed for other producers 1. Amount received for custom milling and concentration	and e	stablishments:			8	4 rr		
Grand total value (A+B3+C+D3)						.,,,	é		
Grand total value (A+B3+C+D3)	3. Total amount received for work done for others (1+2)				4	\$			
INQUIRY 3—PERSONS ENGAGED, BY CLASSES.—Report the number of your employees receiving pay for any time during the normal pay-roll period ended nearest October 14, 1939. DO NOT count the same person under more than one of the headings A, B, and C. Include all persons at the mine together with its office, shops, yards, mill, etc., engaged in production, development (including construction), repairs, or maintenance work. Include persons employed in a general office having jurisdiction over more than on mine (or plant) if it is located at this mine (or plant). Under "Wage earners" report all pessons who performed manual work including wage earners paid on a time basis, contract miners and persons paid on any other basis. Persons paid under the "split-check system," and persons performing manual work that were paid on any other basis. Persons paid under the under Inquiry 3. Exclude employees, such as company store employees engaged in maning, ore dressing, and related activities. Exclude from this report employees for a general effice that is located at a distance from the site of mining (or milling); these employees should be reported on the Central Office Schedule (Form 100-MQ-CO) Class Class Class A. Salaried employees. Report salaried officers of corporations; managers, superintendents, and other supervisory personnel; responsible professional and technical employees; and all clerical employees. (Exclude gang and straw bosses and working foremen who should be reported under "Wage earners"). B. Wage earners (including those paid on a time basis, contract miners and workers paid on any other piece-work basis), persons paid under the "split-check system," and persons performing manual labor in or about the mine or mill. C. Proprietors and firm members (included in C above) regularly performing manual labor in or about the mine or mill. Report all employees, the paid to employees and educations of employees before deductions for Social Security, insurance, dues, etc. If board or rent v. as furnished as part									
A. Salaried employees. Report salaried officers of corporations; managers, superintendents, and other supervisory personnel; responsible professional and technical employees; and all clerical employees. (Exclude gang and straw bosses and working foremen who should be reported under "Wage earners"). B. Wage earners (including those paid on a time basis, contract miners and workers paid on any other piece-work basis, persons paid under the "split-check system," and persons performing manual work that were paid on any other basis). Total employees (A+B). C. Proprietors and firm members (not applicable to corporations) 1. Proprietors and firm members (included in C above) regularly performing manual labor in or about the mine or mill NQUIRY 4—SALARIES AND WAGES.—Report amounts paid for the entire calendar year 1939 to the same classes of employees as reported under Inquiry 3. Report all salaries, wages, bonuses, commissions (and profits when paid to employees) before deductions for Social Security, insurance, dues, etc. If board or rent was furnished as part compensation of employees, its value should be included as salaries and wages. Report net wages only; if the cost of smithing, and of explosives fixes, lamp fiel, and similar mine supplies used in production or development work is charged to employees and deducted from their wages, report the amount of wages after such deductions. Report the cost of these supplies with other supplies under Inquiry 7A. Class of employees Class of employees. (Exclude gang and straw bosses and working foremen who should be reported under "Wage earners"). Salaried employees. (Exclude gang and straw bosses and working foremen who should be reported under "Wage earners"). Salaried employees. (Exclude gang and sand on a time basis, contract miners and workers paid on any other piece-work basis, persons paid under the "split-check system," and persons perferming manual work that were paid on a rany other basis).	work including wage earners paid on a time basis, contract miners and per the "split-check system," and persons performing manual work that were the contracting corporations reported under Inquiry 8. Exclude employe ore dressing, and related activities. Exclude from this report employes site of mining (or milling); these employees should be reported on the or	rsons e pai es, su es for Centri	paid on any office any other than company rangemental office Scheel	ther pier basisstore effice that lule (Fe	ce-wori Exch suploye t is loca em 10	es, not engaged inted at a distance -MQ-CO)	n mining, from the		
personnel; responsible professional and technical employees; and all clerical employees. (Exclude gang and straw bosses and working foremen who should be reported under "Wage earners". B. Wage earners (including those paid on a time basis, contract miners and workers paid on any other piece-work basis, persons paid under the "split-check system," and persons performing manual work that were paid on any other basis). Total employees (A+B)	Class								
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reported under Inquiry 3. Report all salaries, wages, bonuses, commissions (and profits when paid to employees) before deductions for Social Security, insurance, dues, etc. If board or rent was furnished as part compensation of employees, its value should be included as salaries and wages. Report net wages only; if the cost of smithing, and of explosives, fuses, lamp fuel, and similar mine supplies used in production or development work is charged to employees and deducted from their wages, report the amount of wages after such deductions. Report the cost of these supplies with other supplies under Inquiry 7A. Class of employees Class of employees Class of employees, superintendents, and other supervisory personnel; responsible professional and technical employees; and all clerical employees. (Exclude gang and straw bosses and working foremen who should be reported under "Wage earners"). B. Wage earners (including those paid on a time basis, contract miners and workers paid on any other piece-work basis, persons paid under the "split-check system," and persons performing manual work that were paid on any other basis). A-9	 C. Proprietors and firm members (not applicable to corporations). 1. Proprietors and firm members (included in C above) regularly performing or mill. 	ig mai	aual labor in o	r about	the mi	ne l	A 6		
A. Salaried employees. Report salaried officers of corporations; managers, superintendents, and other supervisory personnel; responsible professional and technical employees; and all cleracl employees. (Exclude gang and straw bosses and working foremen who should be reported under "Wage earners"). B. Wage earners (including those paid on a time basis, contract miners and workers paid on any other piece-work basis, persons paid under the "split-check system," and persons performing manual work that were paid on any other basis.	reported under Inquiry 3. Report all salaries, wages, bonues, commiss for Social Security, insurance, dues, etc. If board or rent was furnished cluded as salaries and wages. Report net wages only; if the cost of sm supplies used in production or development work is charged to emple	ons (las p ithing vees	and probts wi art compensat ;, and of expic and deducted	en passion of s soives, f from th	i to em employe naes, la reir wa	ployees) before d es, its value show mn fuel, and sin	eductions ald be in- alar mine		
A. Salaried employees. Report salaried officers of corporations; managers, superintenties, and cluster super years personnel; responsible professional and technical employees; and all clerical employees. (Exclude gang and straw bosses and working foremen who should be reported under "Wage earners"). B. Wage earners (including those paid on a time basis, contract miners and workers paid on any other piece-work basis, persons paid under the "split-check system," and persons performing manual work that were paid on any other basis). A-8						and wages	paid		
Total salaries and wages paid (A+B)	A. Salaried employees. Report salaried officers of corporations; managers, superintendents, and other supervisory personnel; responsible professional and technical employees; and all clerical employees. (Exclude gang and straw bosses and working foremen who should be reported under "Wage earners"). B. Wage earners (including those paid on a time basis, contract miners and workers paid on any other piece-work basis, persons paid under the "sulit-check system." and persons performing manual work that were paid on								
	Total salaries and wages paid (A+B)	noning problems		STATE STATE		8	A-10		

Number	Key	Number	Key	Number	Key	Number	Key	Code	Key	Total W. E. M.	Key
January	C-1	April	C-4	July	C-7	October	C-10			(Do not fill in)	
February	C-2	May	C-5	August	C-8	November	C-11		∫ A-11		A-12
March	C-3	June	C-6	September	C-9	December	C-12		C-13		C-14

INQUIRY 6-WAGE EARNERS BY DEPARTMENTS AND WORKING TIME:

A. Average number of wage earners, man-shifts, length of shift, man-hours, and mine-shifts. (Include all wage earners engaged in production, development, construction, repairs, or maintenance work in or about the mine or plant. Exclude salaried officers, supervisory, technical, and clerical employees. Reduce all parts of shifts to equivalent full shifts. For additional explanations of data required in this inquiry, see instructions at the end of this schedule.)

Department	Item	Total man- shifts worked	Length of shift	Total man- hours worked	shifts) we	of mine-shift orked during in sach colu ed 365)	1939. (The	be I Average number of wage corr			
		during year	(hours)	during year E-2	First shift E-3	Second shift E-4	Third shift E-5	First shift E-6	Second shift E-7	Third shift E-8	
 During active days (devoted to production or development work)— (a) At mine: (1) Underground (mining and de- 											
velopment)	6					**********				**********	
(3) Surface (including mine shops and yards). (b) At mill or ore-dressing plant (including auxiliary works for mill or	7		N & 4 * 1 to 10 4 7 2 4 4				**************************************				
plant)	8 9		* * *		xxx	xxx	x x x				
During inactive days (all days in year not included under 1 above) for all departments	0	***************************************			xxx	xxx	x	xxx	xxx	xxx	
3. During both active and inactive days (total of 1 and 2 above)	5	Key	xxx		X X X		xxx	x x x	xxx	xxx	
B. Do you keep actual records of man-shifts? C. Number of days in operation:	or no)	E-12	r man-h	ours?		13					
 Number of calendar days mine was active full days): 	for p	production	or devel	opment pu	rposes d	uring ea	ch mont	h (count	parts of	days as	
January April	****	July	18 m (m (m 17 ft) (i) (v) (v) (v)	Octo	ber						
February May	****	August	***********	Nov	ember	********		Key	Code	Key	
March June	*****	September	UPWAY VARAGE	Dece	ember			E-14	- 11	E-15 A-13	
 Total number of calendar days mill (or or Report number of hours per wage earner in t 					-			A-14 A-16	Code	Key A-15 Key	
1. Underground 2. Ope	n-cut		Maria I de	3. Mill .	n di di di di gravina selala a					A-17	
		(6)						161	2725	

INQUIRY 7.—SUPPLIES, MATERIALS, FUELS, AND ELECTRIC ENERGY CONSUMED.—The items entered here shout the quantity and cost of supplies fuel and purchased electric energy consumed.—The items entered here should be a supplied to the supplier of the supplier o	1 4
and value of supplies and fuels which were both produced and consumed by you Include explosives and similar mine to employees. Exclude any machinery or equipment of the consumed by you Include explosives and similar mine is	the quantity
to employees. Exclude any machinery or equipment which should be reported under Inquiry 9.	aupplies sold
- Ambure among the telepholog finder a	

Item	Unit	Quantity	Total cost (omit cents)		
A. Supplies and materials	XXXXXXX	XXXXXXXXXX	Key	8	Key B-1
B. Fuel: 1. Coal, bituminous (soft, including lignite)			F-1	\$	W- X
2. Coal, anthracite (hard)				8	
3. Fuel oils (including heating oils, but not gasoline or lubricants)	f :			\$	
4. Gasoline and kerosene	1			8	
5. Natural gas (used for fuel or power)	M cu. ft	* 18 A T T T T T T T T T T T T T T T T T T	F-5	8	
6. Other (specify)		· · · · · · · · · · · · · · · · · · ·		8	
Total value of fuels.				8	B2
C. Electric energy used:			F-6		
2. Purchased	Kwhr		F-7	\$	B-3

INQUIRY 8—AMOUNT PAID TO CONTRACTING CORPORATIONS FOR WORK DONE DURING 1939.—Include all contract work such as stripping, shaft sinking, boring test holes, etc. Exclude payments to workmen employed by your company whose compensation should be reported under Inquiry 4.

	Name and address of contractor	Nature of contract work	Amount paid (capit cents)				
A			And the state of t				
в			\$				
C			8				
		24-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	\$				
D			\$				
	(If more space is needed use a separate sheet and attach here) Total amount paid contractors.						

INQUIRY 9—COST OF BUILDINGS, MACHINERY, AND EQUIPMENT ERECTED OR INSTALLED DURING 1839.—Report all permanent additions and major alterations made on contract or by your own employees, which were charged during the year to capital asset accounts and which are of the type for which depreciation accounts are ordinarily maintained. Exclude expenditures for replacements which are in the nature of maintenance. Exclude construction of company houses and similar construction not used for mineral production or related activities

A. Cost of new construction or major alterations of buildings and other structures in 1939. Exclude machinery and equipment for these buildings and structures, except that which is an integral part of the buildings. Do not include cost of old equipment or material used in this construction unless purchased from others. Exclude value of land.)	Key B-5
B. Cost of all new machinery and equipment installed in 1939 (include both movable and fixed equipment but exclude any equipment reported under A).	; B	B-6
C. Cost of all machinery and equipment (movable or fixed) purchased in a "used" condition. (Include the cost of reconditioning; exclude any used material reported under A)	S describe alain description described describe année des described des serves de la describe des described des serves de la described des serves de la describe de la desc	B-7
Total $(A+B+C)$	· ·	R2

INQUIRY 10—POWER EQUIPMENT.—The figures given in this inquiry should represent equipment in use or available for use as of January 1, 1940. Include emergency or stand-by equipment and equipment temporarily idle because in need of repairs; exclude only junk.

Kind of power equipment		Sta	tionary			М	obile*	
	Numb	Number		Total horsepower rating		er	Total horsepower rating	
 A. Prime movers (include steam engines and turbines, internal-combustion engines, water wheels, and hydroturbines): 		Key		Key		Key		Key
1. Prime movers driving generators	********	G-1	***********	G-2		G-3		G⊸4
2. Prime movers not driving generators	***********	G-5		G6		G-7		G-8
Total prime movers (1+2)	********	G-9		G-10	************	G-11	1778400000000000000000000000000000000000	G-12
but held for stand-by (not junk)		G13	~~~**********	G-14		G-15		G-16
B. Electric motors driven by purchased energy. C. Electric motors driven by energy generated by your		H-1	~~~	H-2	***********	H-3		H-4
COMPANY "Report units" "Mobile" the number and total homograph asing of antique		H-5		H-6	· · · · · · · · · · · · · · · · · · ·	H7		H-8

"Report under "Mobile" the number and total horsepower rating of engines, motors, etc. used for driving mobile or portable equipment, such as power shovels, acraper loaders, portable pumps, hoists, fans, mine locomotives, surface drills, trucks, tractors, and balldosers. Exclude data for locomotives owned by railroad companies.

INQUIRY 11—NUMBER OF MECHANICAL-POWER LOADING MACHINES OR UNITS, BY TYPES.—The figures given in this inquiry should represent equipment in use or available for use as of January 1,1940. Include emergency or stand-by equipment and equipment temporarily idle because in need of repairs; exclude only junk.

				Clas	sified by kis	od of power	r used	Classified capa	l by dipper city in cubic	or bucket yards	Scraper h	ists classifie	d by rated l	horsepow
PROPERTY AND PROPERTY IN THE	Type of equipment	Item	Total Number J-1	Steam J-2	Electric or Diesel- electric J-3	Com- pressed air	Gasoline or Diesel J-5	Less than 3	3-5 inclusive	More than 5	Less than 10	10-25 in- clusive J-10	26-100 in- clusive	More than 10
1. Sur	face operation: Power shovels	1				xxx					xxx	xxx	x x x	
	Dragline excavators		*************											
3. S	Scraper loaders Other (specify):	3	d Adrian to the transfer that are part of the	*******		en de de de person les estida de	**********	ххх	xxx	x				
i	(a)		*************************************				*********			***********	x	xxx	ххх	x x :
1	(b)		******************				******				x x x	xxx	xxx	x x
1. 5	derground: Shovel loaders (a) Requiring a minimum working height of													
	more than 8 feet (b) Requiring a minimum	10	****************	xxx	~*******			x	xxx	x x x	xxx	ххх	x	хх
	working height of 8 feet or less Total under-	11	**************************************	x				x	xxx	x	xxx	x	x	x x :
9 5	ground shov- el loaders Scraper loaders (including	12	77.4 T. W. C. W. T. T. T. W. M. M. M. M. M. M. M. M. M. M. M. M. M.	x	*********	**************************************		X X X	xxx	xxx	x	xxx	xxx	x x :
	slushers) Other types (specify):	13	··	x	na der ver der der vergren, ung un	*	~~~~ ~~	x	xxx	ххх			********	
((a)		**************************************								xxx	xxx	xxx	хх
((b)]												

C. List below the number of underground power-shovel loaders reported under B-1 above, by makers:

	Number of kaders	Manufacturer	Model No.	Number of loaders	Manufacturer	Model No.
	1			5.		
	2	TO THE PARTIES OF MARKING MARKING STREET, THE COLUMN	**************************************	6.		
Sales of the Control	3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	The transfer and substitutes to the property of the substitute of		7	·····	*******
	9	(If more s	Pace is needed use a	8.		ситемы синаражнику от так

EXPLANATIONS.—Write here explanations and comments that would aid proper interpretation of	your report.
A	
	CANCEL PROPERTY OF THE CONTRACT OF THE CONTRAC
CERTIFICATE	
This is to certify that, to the best of my knowledge and belief, the information contained in the calendar year 1939.	is report is correct and complete for
(Signature and official of	de of person furcioning infernacion)
(Date of signature)	(Address)

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE FILLING OUT THIS SCHEDULE

GENERAL INSTRUCTIONS

I. This report should cover the operations of your mine, together with its offices, shops, and yards, and should include your mill (or ore-dressing plant) if operated in conjunction with and serving this mine only. If you operate a mill (or an ore-dressing plant) serving more than one mine, or a custom mill (a mill doing work for the account of others), a separate report for such mill is required. Do not include in this report any data pertaining to smelting, reduction, or refining operations which ought to be reported on the Census of Manufactures schedules.

II. For census purposes a mine is generally defined as a group of workings at a given locality in which operations are conducted as a unit or are unified by common management or joint handling of some part of the mining process. Individual shafts or openings should not, therefore, be necessarily considered as individual mines.

III. If in addition to major nonferrous ores (gold, silver, copper, lead, and zinc) you produce other mineral products from the same mine, the data relating to the production of such minerals should be included in a single report for the entire mine. These other products should be reported under Inquiry 2B.

IV. The figures reported (typewritten, if possible) should be taken from the operator's books; but if the books do not give all the information required, carefully estimated figures are acceptable. Figures entirely estimated should be so noted on the schedule by the mark "Est."

V. Your report should not account for all your expenses. Report only the expenses specified in Inquiries 4, 7, 8, and 9.

SPECIAL INSTRUCTIONS FOR INDIVIDUAL INQUIRIES

Inquiry 1—Name, location, and description of operation.—Report under A the local name of the mine or mill (if reported separately).

Distinguish carefully between A and C, giving name and location of

Distinguish carefully between A and C, giving name and location of mine (or mill) reported, and B-3, giving name and address of the concern, if any, of which the reporting company is a subsidiary or an affiliate.

If the boundary of a State, county, city, town, or village runs through the property, report under C the location of the mine as that State, county, city, etc., within which the most important part of the mine is located.

Inquiry 2—Quantity and value of products and value of work done for others.—Unless specified otherwise, report production during 1939, not shipments or sales. If your book records do not show production it may be computed by adding to the total products shipped or used in 1939 the stocks on January 1, 1940, and subtracting stocks on January 1, 1939.

Under A, report only the data for ores mined principally for their gold, silver, copper, lead, or zinc content. Do not include here any

data for other ores, even though produced by the same mine. Such data should be reported under B-1. If any metals other than gold, silver, copper, lead, and zine are produced as byproducts from major nonferrous ores (gold, silver, copper, lead, and zine), report the production of such other metals likewise under B-1.

Note that A-I applies only to producers in the Tri-State lead and zinc region. These producers should omit A-II which applies to all other producers. All other inquiries should be filled out by all producers.

The value reported here should represent the actual selling value of the product—ore or concentrate—1. o. b. mine or mill. Although such value is derived from the metal content of the ore or concentrate, it should not represent the market value of the metals themselves. In those instances where such value is determined from settlement assays, it should represent the net amount received for products sold. If ore or concentrate was delivered to the mill or smetter at the expense of the mine operator, the transportation cost to the mill or smetter should be deducted from the net receipts reported. Where payment was made for products after deduction for regulities, such royalties should be added to the payment to arrive at "Total net value."

The "Total net value" of ore sent to custom mills for treatment on a custom basis, reported under A-I-3 and A-II-4, should be the net return f. o. b. mine for this ore and should exclude the treatment and transportation charges; the net value reported on this basis would be less than the market value f. o. b. mill of the concentrates produced from such ore.

Under A-IV include only data pertaining to milling of purchased ore. Do not include any ore milled on custom basis or ore produced at your mine.

Under D report the amount received (or the total charges in case the work was done on credit and bills were unpaid at close of year) for all work, if any, performed for other establishments if that work was done by your employees. Such employees should be reported under Inquiries 3, 5, and 6, and their compensation under Inquiry 4.

Inquiry 3.—Persons engaged, by classes.—Include those employees who have headquarters at the mine or mill but are working elsewhere, such as those engaged in prospecting away from the mine. Do not include those employees who are working at the mine but are not on this operator's pay roll (such as employees of contracting corporations). Employees on vacation or sick leave with pay should be included. Include all "check-lease" and "split-lease" workers. Exclude employees on the pay roll of this operator who were engaged manufacturing activities or in the operation of company stores, boarding houses, bunk houses, recreational centers, etc. If an employee was engaged part of the time in any of the latter activities and part of the time in mining or milling, he should be reported under Inquiry 3 if most of his time was devoted to mining or milling activities.

Salaried employees.—No person should be reported as a salaried employee under A merely because he is hired by the week or month instead of by the day. The distinction should be based primarily on the character of work done rather than on the unit of time that is the basis for compensation. For example, engineers and firemen in mine power plants are often employed by the week or month, but they should be classed as wage earners under B rather than salaried employees. Timekeepers, clerks, stenographers, and others in similar occupations should be classed as salaried employees under A. If one person serves in more than one capacity, that person should be counted only once. For example, if a clerk is also a manual worker he should be counted only once, under A or B according to the activity to which he devotes most of his time.

Wage earners.—Report as wage earners under Ball those who perform manual work, using tools, operating machines, handling materials and products, and caring for the mine or mill, its shops and equipment. Account for all workers paid on a time or a piece-work basis employed at the mine or mill covered by this report. Include here working formen and gang and straw bosses. Clerical employees should be included under A. Include wage earners not actually accounted for on the pay rolls but paid indirectly through such employees of this operator as superintendents, foremen, miners, and the like. Include "contract miners" (miners who undertake to recover mineral products at a stipulated price per ton, car, etc.) and men engaged by them and paid from the amount received by contract miners.

Prastictors and firm mambers.—Report under Call owners, pariners.

Proprietors and firm members.—Report under C all owners, partners, etc., of concerns that are not incorporated. Do not report any such persons under A or B even though they receive a salary. Those proprietors or firm members who perform manual labor in or about the mine or mill should be included under C and also under C-1.

Inquiry 4—Salaries and wages.—Take every precaution to include all salaries, wages, bonuses, and commissions paid during 1939. Do not deduct employees' contributions for Social Security, workmen's compensation, group insurance, union dues, or for similar purposes. If board or rent was furnished as part compensation of wage earners, its value should be included as wages. Bonuses or percentages of profits paid to officers, superintendents, foremen, or wage earners should be included in the amount of salaries or wages, but dividends

on stock held by officers and employees should not be included.

Report net wages only; if the cost of smithing, and of explosives, fuses, lamp fuel, and similar mine supplies used in production or development work is charged to employees and deducted from their wages, report the amount of wages after such deductions. Report the cost of these supplies with other supplies under Inquiry 7A.

Inquiry 5-Wage earners employed, by months.-Report here all wage earners—such as defined for Inquiry 3B.

Inquiry 6-Wage earners by departments and working time. Report data for wage earners only—such as defined for Inquiry 3B.

Under A-1, report data on employment and working time during days when the mine or mill was active during 1939. Count as active all calendar days during which there was any production or develop-ment work (including construction). Report here data for all wage earners (for all shifts) receiving pay during active days.

At mine.—Fer "Underground," report data relating to wage earners engaged in mining or development work—drilling and blasting, loading, transporting, etc.—whose duties were confined wholly or chiefly to underground operations. For "Open-cut," report data relating to wage earners engaged in surface excavating operations—drilling and blasting, loading, transporting, etc.—and is removing overburden, or other development work, whose duties were confined wholly or chiefly to operations within the mine. Include here wage earners engaged in surface placer mining.—For "Surface," report data relating to all wage earners at repair shops, hoists, etc., on the surface which chiefly serve underground warkings or open pits. Do not include wage earners at mills or at auxiliary shops which chiefly serve mills or ore-dressing plants.

At mill or gra-dressing plant.—Include all wage carners whose duties

At mill or ore-dressing plant.—Include all wage earners whose duties are concerned wholly or chiefly with milling and concentration of ore. Include also the wage earners at auxiliary shops which chiefly serve mills or ore-dressing plants. If a mill was shut down and was undergoing repairs, alterations, or reconstruction, include all wage earners engaged in such repairs, alterations, or reconstruction if they were paid directly by you

Under A-2, report man-shifts and man-hours for days when the mine or mill was inactive, including Sundays and holidays. (This should include all man-shifts and man-hours not included under A-1.)

Under A-3, report the total number of man-shifts and man-hours included under A-1 and A-2.

Man-shifts and man-hours.—A man-shift is the work of 1 man during 1 shift. Similarly, a man-hour is the work of 1 man during 1 hour. If the length of 1 shift is 8 hours, 1 man-shift represents 8 man-hours. (If 10 men worked 100 8-hour shifts each, the aggregate number of man-hours worked is $10 \times 100 \times 8$,

Number of mine-shifts (or mill-shifts).—A mine-shift is the operation Number of mine-shifts for mul-shifts).—A mine-shift is the operation of the mine (for either production or development purposes) for the duration of I fall shift (of 7, 8, 8, or 16 hours, whatever is the customary length of shift). If the mine operated 2 shifts per calendar day that mine would have worked a total of 2 mine-shifts in that day—1 in the first shift and 1 in the second shift. If the mine operated 200 days, 2 shifts per day, it would have operated a total of 400 mine-shifts. Of these 400 mine-shifts, 200 were worked during the first shift of these days, and 200 mine-shifts were worked during the second shift of these days. Reduce parts of mine-shifts to equivalent full mine-shifts. For example, if for some reason the mine operated half a mine-shift instead of a full mine-shift, count 2 such half mine-shifts as equivalent to 1 full mine-shift. The word "full" does not refer to the number of men working, or to the nature of their work, but to the number of hours in the customary full-length shift.

Average number of wage earners.—Report the average number of wage earners receiving pay when the mine or mill was in operation for production or development purposes during 1939. The following method for computing the average number of wage earners in each department for each shift is suggested:

Count the number of wage earners on each weekly, semimonthly, or monthly active period (for whichever time interval separate pay-roll or timekeeper's records are kept). Then add the numbers counted for all such active periods and divide this total by the number of these periods. This procedure is illustrated by the following example. Buppose a mine was active on the first shift throughout the 8 months beginning with April and ending with November. Suppose, also, that the following numbers of wage earners were receiving pay on each of the semimonthly pay-roll periods:

April 1-15 April 16-30	25 Au	g. 1-15 g. 16-31	-
May 1-15	35 Beg 40 Op	ot, 16-30	19
June 16-30	44 No	v. 16-31 v. 1-15 v. 16-30	0

In this case, add the numbers of wage earners in active pay-roll periods (20, 25, 30, 35, 40, 40, etc.), giving a total of 540, and divide this total by the number of active pay-roll periods, which is 18. The average number of wage earners during the first shift when the mine was active is 540 divided by 16, or 34 wage earners.

Under C-1, report the number of days the mine was active each month for either production or development work. Count parts of days as full days.

Under C-2, report the total number of days the mill or ore-dressing plant was in operation during 1939. Do not count any days during which the mill was shut down for repairs, alterations, or reconstruction.

Under D, report the customary number of hours per wage earner in the full-time workweek, exclusive of overtime, for wage earners employed in the mile and at the mill; disregard the length of workweek of wage earners employed at surface shops. Do not attempt to indicate minor variations from the usual practice. surface shops, practice.

Inquiry 7—Supplies, materials, fuels, and electric energy consumed.—The figures reported for this inquiry should represent the cost of materials, etc., actually used or consumed during 1939, which is not recovered to the cost of materials purphered during the rest. is not necessarily the cost of materials purchased during the year. If the costs of materials and fuels actually consumed during the year are not shown in the book records, they may be computed by adding to the amount paid for materials purchased during the year the value of inventory of materials on January 1, 1939, and deducting the value of inventory of materials on January 1, 1940. Under "Supplies and materials" include such items as explosives, fuses, lumber and timber used for mine supports or repairs, track ties, rails, tools or parts used for renewals or repairs, iron and steel for blacksmithing, lubricating oil, water for boilers and other purposes, etc. Include explosives and similar mine supplies sold to employees.

Do not include under Inquiry 7 any charges to depreciable capital accounts such as cost of new equipment which should be reported under Inquiry 9. Electric energy which was generated at the mine or mill and sold should not be reported under Inquiry 7C-1; such energy should be reported under Inquiry 2C. energy should be reported under Inquiry 2C.

Inquiry 8—Amount paid to contracting corporations for work done during 1939.—Report total amounts paid to corporations (or partnerships individual proprietorships individual proprietorships.) as stripping, hauling, boring test holes, tunneling, etc. Do not include amounts paid in salaries or wages reported under Inquiry 4. Do not include expenditures for work done by workmen employed by you such as contract miners (miners who undertake to recover mineral products at a stipulated price per ton, car, or yard, often with the help of men engaged and paid by the contract miners out of the total amount received). The compensation of such workers should be included under Inquiry 4.

Under "Nature of contract work" list the major work performed

under contract, such as stripping, hauling, development, etc., and the total amount paid to each contracting company for all types of work. If part of the payment to a stripping contractor is in material stripped (such as good top soil) an estimate of the approximate value of the stripping service should be reported.

Inquiry 9-Cost of buildings, machinery, and equipment erected or installed during 1939.—Report only the cost of buildings, machinery, and equipment constructed or installed during 1939, and exclude cost of land purchased. Include only additions to capital asset accounts which will be depreciated over a period of more than 1 year, thus excluding minor additions and replacements.

APPENDIX B 317

"Cost" should include the amount paid and amounts due for capital additions during 1939 (excluding amounts paid during 1939 for additions made in other years). Thus, if the work on new construction or on major alterations was either begun prior to 1939 or not completed by the end of 1939, report only that part of the cost of construction (estimated, if necessary) that was actually done during 1939. Include labor and other installation costs. Exclude the cost of buildings acquired by purchase from other companies. Costs reported under items A, B, and C, are intended to be mutually exclusive and any costs reported under one of the items should not be included under another.

Inquiry 10-Power equipment.-Report all prime movers and electric motors, both stationary and mobile, in use or available for use as of January 1, 1940 (whether owned by you or rented from others). Include equipment temporarily idle because in need of repairs; exclude only junk.

Give the horsepower rating indicated on name plates. For "prime-mover-generator units" that are rated only on the generator, the horsepower rating of the prime mover should be reported as one and one-half times the kilowatt rating of the generator. For gasoline engines, report the brake horsepower.

Electric motors should be included under B and C and should not be reported under A Do not include motor-generator sets or rotary

Report the horsepower rating of engines or electric motors driving a stationary air-compressor unit under stationary prime movers or electric motors, as the case may be, even though the unit furnishes compressed air for portable drills

Inquiry 11—Number of mechanical-power loading machines or units, by types.—Report only mechanical-power loading machines. For example, a swing derrick operated by human or animal power is not to be included. In the spaces provided under A and B enter the number of loading machines of the kinds and sizes indicated. Account for all units in use or available for use on January 1, 1940. Include emergency or stand-by equipment and equipment temporarily idle because in need of repairs; exclude only junk. The sum of the num-bers of units classified by kind of power used should equal the sum of the numbers of units classified by size of dipper or bucket (or of scraper hoists for scraper loaders) and each of the sums should equal the number indicated under "Total."

Classify gasoline-electric power abovels or dragline excavators under "Electric or Diesel-electric" for kind of power used.

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FORM 100 - MQ - S

FILE NO.....

DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

CENSUS OF MINES AND QUARRIES: 1939

STONE SCHEDULE

Before preparing your report read carefully the instructions accompanying this schedule as well as those on the schedule itself.

This report should cover operations during the calendar year ended December 31, 1939.

This report should cover the operations of your quarry or mine together with its crushing, screening, or washing plant and office. Except for Inquiry 2, do not include on this schedule information relating to dimension stone dressing. If this quarry is operated in conjunction with dement or lime manufacturing report on this schedule information relating to stone quarrying and crushing only. USA SEPARATE SCHEDULE FOR EACH VARRY OR MINE. If you operate a crushing, screening, or washing plant serving more than one quarry or mine, report data for it on a separate blank of this schedule (Form 100-MG-S).

Answer all questions in this schedule whether or not quarry or mine was active for either production or development. Failure to do so will necessitate submitting an additional report later. Fill in all blanks. If answer is "none," write the word "none" in the appropriate space.

second being all second reports Adopt. Fill in all statute. If allower he note, without	word none in the appropr		
INCUTEY 1, LOCATION AND DESCRIPTION OF OPERATION.	, command the last must find a copy of a last and decommendations upon the last of the black to be a comment of the black to be a co	n van negodi. Fil filithiid an William in me gede den omre an egi niteren en en egyptische	
A. Hame of quarry or mine (or erushing, screening, or washing plant, if reported separately)			***************************************
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
B. Hame and address of owner-operator or operator	*******************		••••
	*********		Kay
1. Is the concern operating this establishment imporporated?			
2. Boss this concern operate quarries or mines other than the one severed by this report?	••••••		(Yes or no)
3. Is this concern a subsidiary or affiliate of some other concern°			(Yes or me)
If so, give name and address of such concern.,			.,,,,,,,,
·····			,
C. Location of quarry or mine covered by this report			
1. State 8, County	3. p	ity, town, or village	(within which or nearest
which located) 4. Post-office address of qu	arry or mine		
5. Railroad ahipping point, if any	*************		[key]
3. Was this quarry or mine sotive for either production or development purposes during any part of 19	397	•••••••	(Yes or no)
M. If this report does not cover the operations of this quarry or mine during the entire year 1959, g	ive dates of period covered	• • • • • • • • • • • • • • • • • • • •	
and the name and address of the operator who operated the quarry or mine for the remaining porti	on of the year	• • • • • • • • • • • • • • • • • • • •	
***************************************	*************************	• • • • • • • • • • • • • • • • • • • •	
7. Nature of operations at quarry or mine covered by this report			
1. Is this quarry or mine operated in compunction with a dimension atone dreaming plant, cament or	lime milly(Yes or no)	If so, indicate wh	ich
2. Type of quarrying or mining (upocify whether open quarry or underground mine)	***********	• • • • • • • • • • • • • • • • • • • •	
3. Does this report include stone-crushing operations?	***************************************	•••••	iven or no.
4. If this is a separate report for a crushing, screening, or weating plant serving more than one (Use a neparate sheet if more space	quarry or mine, list below natis peeded)	mes and locations of	quarries or mines served.
Rame of mine or quarry	State	County	City, town, or village
t		Ti Takaya, Pakawa mayatta pinasa ya 200 kingga (1777 masa	
b		*************	
8			
		****************	***************************************
16-326			

IMPURY 2.—QUANTITY AND VALUE OF PRODUCTS AND OF WORK DOWN FOR OTHERS. Report all products produced during 1999 whether shipped, stocked, or used by you. Report decased stock products here although the data in easewr to all other inquiries should not embrace the stock dressing activities. If book records are not evaluate to asswer A-B, report best estimated figures.

	Indicate kind of stone, such as limestone, granite, sandatone, sto.			oue oue	ty produced i tomarily empi	Questity to approximate	fitted act relike value f.s.b. point	
Products, classified by use		Item	Unit of meaning	Average weight of elagic and t pounds	Total quantity D-3	abort tops of Russ Ivs.	of ablipment imit owner; D-S	
Stone: 1. Rough dimension stone. (Do not report here any stone included under production of dressed stone or crushed stone):	And the state of t			Property and		A CANADA AND A CAN	and the second s	
a. For use in construction: (1) Irregular shaped stone for buildings, founda- tions, sea wells, bridges, etc	***********	FOT	医乳腺素素 网络阴峰飞船 电影照片 美名声 电		· · · · · · · · · · · · · · · · · · ·		***************************************	
(2) Rubble (cellar foundations, retaining wells, and similar lew-priced stone)	*********	102	******************	**********	*************		\$ 40.92377********	
b. For architecture (buildings and other high-class construction work)	*********	103	**************			****************		
c. For monuments and nausoleums	**********	104	***************	*********	**************************************		************	
d. Other (specify)	**************	-	443444444444444444444444444444444444444		цицыяцаў ў кыпаменка.	# T C E T T T T T T T T T T T T T T T T T		
Total,	HIMITHAN IN THE REAL PROPERTY.	115		ENTERFERE	REPRESENTATIONS	ж ест кие какы шка кака	\$ 0,//2270	
 Dressed dimension stone, including seved, out, or split stone. (Do not report here any stone in- sluded under A-1 or any stone not quartied by you): 					department of the second of th			
a. For use in construction or architecture (walls, roofing, foundations, bridges, ste.)		111	****************	***********	ан евника н ежичаютите			
b. For monuments and mausolemma		112	**************	********	Вича ррединять пиченова В			
d. Ourbing	***************	118	**************************************	***********			3 2444444444444444444444444444444444444	
e. Flagging and floors or walkway slabs	*****	115				*************		
f. Mill stock (blocks, slabs, or pieces)	****************	216	#12#40#225t#45####		****************	**************************************	\$	
g, Other (specify),,,		1	************		17493186555199441>	2 4 8 18 5 2 4 1 5 5 7 1 5 5 7 5 8 4 1	• *************************************	
Total		124	***************************************	I PERMETERI	Terine Principie de la company			
Rough blocks used to produce stone reported under		198	*************		***************	**************************************		
. Crushed, broken, and ground stone:		120	**************			****************		
b. Concrete and road metal,		125		**********		****************	*************	
6. Railroad ballast		1.81	*************	*********	***************	************		
e, Refractory (gamister, mice shist, etc.)		184	1	***********				
f. Agriculturel		13:	(**********	**************	***************		
h. For lime manufacture		1.51	************			· 中央 电对象 医电影 医电影 医电影 医电影 电电影 电电影 电电影 医电影 医电影 医电影	**************************************	
i. Other (specify)		12	9 20202244442224	r reprodukti	***************************************			
5. Natural abrasives:					A			
a. Milletones, chasers, dragstones, perers, grind- stones, pulpstones, scythestones, slistones, whetstones, homes, rubbing stones, etc	1	. 14						
b. Ground natural abracives		14					• • • • • • • • • • • • • • • • • • •	
c. Other (specify)								
Total	· · ·	r 14	INTERPRETATE STATE	er beneverer	A CANALAGE STREET			

MINERAL INDUSTRIES

MULTET 2.—CONTINUED											
						110	Unit of messure	Qua D-	tity	Value (omit sent	*)
B. Other products of quarry (If reported on a sep-	ging and arate so	mining operations such as bedule, state on what sob-	oculo):	top acil, clay, gypaum, at	Lo,	1					
1	• • • • • • • •	************								\$	*****
Z	A · * · , = * •	*********	*****	*********************	********	•••••			•••••	*	•••••
Total value	of ather	products				E			· · · · · · · · · · · · · · · · · · ·	*	
		•									
C. Electric energy generat	ed by yo	eer company and sold. (De	not in	alude energy reported under	r Inquiry !	7-C). 3	10w-hr			*	•••••
D. Amount received for west		y, performed for other estrophing, etc. (specify):	tablish	ments, such as hauling, st	ripping,						
hombred, elenered, as	merne,	transing, etc. (openity):									
1		**************		*****	,	•••••				*	•••••
£				******]]				*	
Total amount	t receive	4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		***********	.]*		L	• • • • • • • • •	1 *	••••
			1	***********					Code Key	A.	Key A-1
Opt	and total	t value (A+B+G+B, omitting	A-K1.,	************************				******		******************	
engaged in production, de-	recone em	then one of the beadings A t (including construction) bloved in a secret office	, B, an , repair having	employees receiving pay a d C. Include all persons a rs, or maintenance work. ; jurisdiction over two or its of the quarry or mi	t quarry o Do not inc more quarr	r mine to: lude emplo ies or min	ether with its cru yees engaged in dr es if it is locate	shing, so essing di d et this	reening, o monsion at quarry or	r washing plant and consor in manufacturi one or in manufacturi mine. DO NOT inclu	offine Du pe ide en
And the state of t		Middle annam gerind (a' tha bhrasaigh air f' man companya) (Middy) 40) haga gir Alle Maissinnin in 1940.	To gardenge trademore	Clean		,				Number of perso	ons.
and technical employ sarners.")	both tim	all sierical employees.	(Exclud	managars, superintendents, e gang and straw bosses an	d working	(oremen w)	so should be report	ed under	"wage	1	Key A-5
•	•			************************				********	********		1
C. Proprietors and firm m	embers (not applicable to corporat	ions)	*******************	*******	••••••	*******		••••••		A6
1. Proprietors and fir	n Bowber	s (included in C above) re	entari;	y performing menuel lebor i	s or about	the quar	ry or mine				. <u> A-7</u>
	to offic	Report amounts pelders and saleried employed should be included as sale	s or to	ne entire calendar year 1970 begs parners. Include so	Alphees, e	ame class	es of employees as writy contributions	reported , If bos	under Inquer of or rem	tiry 5. Include bonus	16 868 100 31
ge and the second section of the control of the con	el de desses en en emparado especiencia.		TOTAL ARROWS AND THE SECTION AND THE SECTION AS A SECTION	Class of employees		متدمنة الرود ومومستنية الرودي		Transport of the second		Total salaries and wages paid {omit sents}	,
I Sindawi at mandages 3									1		Key
professional and ter reported under "wake	matume : hnlosi : s earners	exployees; and all clerica	l emplo	; managers, superintendents ress. (Trelude pane and st	raw bosses	s sud work	ing foremen who sho	ponsible		***************************************	A-8
-											A-9
n. segs cerners (lbclude	DURA 111	or and piece wermers;	*	.,		*******	************			***************************************	
Total Salas	ries and	wages paid (A+B)		### \$ # # # # # # # # # # # # # # # # #		*******				*	A-K
INCIDET SWASS EARNERS I	ECTOYED	BY MONTHS. Report ruld include only the clas	the mu	mber of wage carners <u>reselved</u> ployees reported under Inqu	ring pay at	any tibe	during the pay-rol	l period	anded nea	rest the 15th of each	monti
Rember	Key	Minher	Key	Musber	Key	Num	ber Key	Code	Key	Total W. E. M.	Ke
magina di James Malimente, e san ama ama ma ma ma ma ma ma ma ma ma ma m		the second secon								(DO NOT UEE)	T
January	C-1	April	C-4	July	C-7	Detaber	C-16	1			
February	C-2	idny	C-5	August	C-8	November	C-11	·	A-11		A-3
266 李春族 (, , , , , , , , , , , , , , , , , ,	C-3	Janu	C-6	September	C-9	December	C-1	.	C-13		c-1
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939m		gth of shift, and m							有數學 新香香香香	
Department	Item	Total man-shifts worked during year	Length of shift (hours)	Total man-hou: worked during year	PRINCE TO THE REPORT OF THE PRINCE OF THE PRINCE OF THE PRINCE OF THE PRINCE OF THE PRINCE OF THE PRINCE OF THE PRINCE OF THE PRINCE OF THE PRINCE OF THE PRINCE OF THE PRINCE OF THE PRINCE OF THE PRINCE OF THE PRINCE OF T	wher of the man hot lo	eye I piest	APPROPRIES DE LA CONTRACTOR DE LA CONTRA		white pe
		E-1		E-2	First shift E-3	Second shift	Taird soift	First Opifi	Second Phili	Thurs muls t
. During days active for either production or developmen s. At quarry or mine: [1] Underground (mining and development)	- i.'				E	5-4	E-5	E15	1.7	K-8
(z) Opencut (querrying and stripping)	6	***************************************		*************	····	*******		: 		
(5) Surface (quarry repair shop, etc.)	7	******************		************	**********) - - 	**********	
b, At crushing, screening, washing, or storage plant	8			*************	***************************************	M. C. J. J. J. S. S. S. S. S. S. S. S. S. S. S. S. S.		\$ * * ! *		
Total of above	9		XXXXXXXX	**************	····· BREEZEE	TREEFEER.	THE SERVER	BALLHAR	BERSERE	- Hannan
. During insotive days (all days in year not included un l above) for all departments	der	• • • • • • • • • • • • • • • • • • • •	J		····· KERKEKE	THEFT	recepter:	· Berrara	PRESENT	88##ZZ4
. Do you keep actual records of man-shifts?	no)	Key . E-12 or man-hou	4F#?{	key (es or no)	removal.					
. Number of days quarry or mine was active for production										
January April		July.		*************	. Goteber		*********	[(Do not :	p 30 }
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Heport number of hours per wage earner in the full-time of the full-time of the full time. RURY 7.—SIPPLIES, MATERIALS, FIZES, AND ELECTRIC EMERGY actually used during 1939, for any purpose in conn	o work Un Op Y CONS	week (exclusive of o	entered he	key Code Key E-14 E- re should represesperation of the gr	Jecomber	and over	of Auggibe	s, Lugi, a	nd purchase	ad alega in the second
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MINERAL INDUSTRIES

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Name and address of contractor		Ma	ture of contrac	t work		T	Amount paid (omit senta	1
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A		*****	••••••	•••••	*****	}		
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B		•••••	••••••	•••••	• • • • • • • • • • • • • • • • • • • •			
(If more space is needed please use a separate sheet and attack	h to sebed	la)	**********	•••••	******	•	******	
Total amount paid constactors		*****	*******		• • • • • • • • • •].	*********	Key 11-4
own employees, much were <u>marked quiribe</u> the 'rear' to aspital asset accounts and which are of the 'penditurn's for replacements which are in the mature of maintenance. Exclude construction of companactivities.	y houses as	ioh d daimi	TEL CONSTRUCTION	nunts a	re ordina: med for	rily ma mineral		
A. Coat of new construction or major alterations of buildings and other structures in 1979. Exclude structures, except that which is an integral part of the buildings. Do not include seat of old unless purchased from others. Exclude value of land							*********	B-6
E. Cost of all new machinery and equipment installed in 1939 (include both moveble and fixed equipment)	ent but exc	iludo a	ny equipment rep	partes	unter A).	\$.	**********	. 3-6
C. Cost of all machinery and equipment (moveble or fixed) purchased in a "used" condition (exclude to	used meteri	al rep	orted under A)		•••••	\$2	**********	3-7
Total (A-B-C)					******	\$.	************	. 10-6
INQUERY 10 POWER EQUIPMENT. The figures given in this inquiry should be for aquipment as a	of January	1, 194	o.					
Kind of power equipment (include all equipment available for use but exclude junk)		St	atlonery			У	ab11*	
	Mambe		Total horsepo		Munb	r	Total horseporating	ower
A. Prime movers (include steem engines and turbines, intermal-combustion angines, water wheals, and hydroturbines):		Key	,	Key		Key		Key
1. Prist movers driving generators		6-1		G-2		6-3		6-4
2. Frime movers not driving generators		G-5		G-6		G-7		6-8
Podel settle server (1.7)								
Total prime movers (1-2)		6-9		G-10		G-11		6-12
5. Prime movers, included in 1 and 2, ordinarily idle but held for standby (not junk)		6-13	***********	G-14		6-15		G-16
E. Electric motors drives by purchased emergy		H-1		H-2		H-3		11-4
C. Electric motors driven by energy generated by your company		H-5		H_A		H_7		н-ө
" Report under "Mobile" the number and total horsepower rating of engines, motors, etc., used for surface drills, trucks, trackers, buildness, moses shown and descriptions.	deteine a			(n- 9				
surface drills, trucks, tractors, buildozers, power showels, and dragline excevators. Exclude data	for lesome	tiass :	wned by railros	id comp	nies.	portau.	re homebs ' rooms	162700,
EXPLANATIONS, Write here explanations and nomments that would ald proper interpretation of your repo	rt.							
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Surface operation: 1. Power showels	7-1	1 1	tricity	61# F-4	6/2/9/8	\$			Tana than	phase - 1 and 1-1 (7) To a degree - 100,000	page and the second second second second second second second second second second second second second second	process and the state of the state of the state of
2. Dragline exasvators	3			RESERVATE	And the state of t	J-6	3-9	5 3-8	10 1-8	10-25 invinat ve J-25	24-100 inclusive J-li	More then 100 J-12
5. Scraper loaders		******			**********	******	10.作户下面中非正线集	*******	#xperxita	**************************************	140333411	######################################
4. Clamphells or orange peels				elilizet.		*********	*********	0,10,102714	EXERCISE	RANGNURAL	BEERRIERI	REPRESENT
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b. Requiring a minimum working height of 6 fest or less		- XELEXIDES		44074444444	*********	REFERENCES	FEDERAL	REFERENCE	***********	Frinkeri	#11/#HULLI	1747/XXXX
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S. Other types (specify)	,					*****			*******	BUXZELEKI.	TANKARITA	BETTTERES
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(Signature of enumerator)							*****			låfress i		23 1 KS + A PRB 5

GENERAL INSTRUCTIONS

PIRASE BEAD THESE TRETTMETICANE CAMEFULLY REPORT FILLING OUT THIS SCHEDULE

- Disregard "key," "code," and "item" numbers and spaces in the Schedule. (These are for Census Office use only.)
- II. If you produce gore than one mineral product from the same quarry or mine, the report should be made out on the schedule representing the principal product. In that case, data relating to minerals other than the principal product should be included in one report for the entire quarry or mine. The other products should be reported under inquiry 2-B. If, however, such products are each produced from a gaparate quarry or mine, separate reports should be made on the appropriate schedule for each such product.
- III. If you also manufacture dressed dimension stone, cement, or lime, except in Inquiry 2, report on this schedule only the activities associated with stone quarrying or mining, and crusting. Date relating to these activities should be reported on this schedule despite the fact that they are included with date reported on a Census of Manufactures schedule.
- IV. The figures reported (typewritten, if possible) should be taken from the operator's books; but if the books do not give all the information required, such as the quantity and value of rough blocks used to produce dressed dimension stone, carefully estimated figures are acceptable. Figures entirely estimated should be so noted on the schedule by the mark "est."
- V. Your report should not account for all your expenses. Report only the expenses specified in Inquiries 4, 7, 8, and 9.
- VI. In a separate report for a stone-crushing, screening, or washing plant serving two or more quarries or mines, the quantity and value of crushed stone should be reported only under inquiry 2-A of the schedule for much plant. It should not be reported on the schedules for the separate quarries or mines nerved by each such plant (and listed under inquiry 1-F-4 of the schedule for the crushing, screening, or washing plant).

SPECIAL INSTRUCTIONS FOR INDIVIDUAL INQUIRIES

Inquiry 1. - Location and description of operation:

Report under A the <u>local</u> mame of the quarry, mine (or crushing, screening, or washing plant).

Distinguish carefully between 4 and C, giving name and location of quarry or mine reported, and B-3, giving the name and address of the concern, if any, of which the reporting company is a subsidiary or an affiliate.

If the boundary of a State, county, city, town, or village runs through the property, report under C the location of the quarry or sine as that State, county, city, etc., within which the most important part of the quarry or mine lies.

inquiry 2. - Countity and value of products and of work done for others:

Report production during 1939, not enigments or sales. If your book products show production, it may be computed by adding to the total products shipped or used in 1939 the stocks on January 1, 1940, and subtracting stocks on January 1, 1939.

Report the net selling value of products at point of production or f, a, b, point of shipment from quarry, mine, or cruehing, screening or washing plant. Freight charges on products paid by the producer and discounts from list prices should not be included in the value of products.

Report under D the amount received (or the total charges, in case the work was done on credit and bills were unbaid at close of year) for all work, if any, performed for other establishments if that work was done by the employees of the reporting company. Buth employees should be reported under Inquiries 3. 5. and 6.

Under A-2 and A-3 exclude all stone not quarried by you. Dressed dimension stone reported under A-2 should be excluded from "Total stone" under A, and from the "Grand total value" at the end of Inquiry 2. Under A-3 report

the quantity and value <u>before fabrication</u> (estimated, if necessary) of rough blocks quarried in 1939 and used in the production of dressed stone reported under A-2. <u>Semifinished</u> stone should be reported under A-2. Do not include under A-3 any stone reported under A-1.

If the customary unit of measure is <u>volumetric</u> the operator should report, in the space provided, his best estimate of the average weight of a single unit of the product.

Report roofing slate under A-2-a. Slate millstock should be reported under A-2-f. This includes electrical, structural and sanitary slate, grave vaults and covers, blackboards, bulletin boards, billiard-table tops, and school slates. Slate granules and flour should be reported under A-4-i. Include architectural semifinished molded and machine stone under A-2-a. Include durax blocks under A-2-c. Include ferrosilicon under A-4-d. Under A-4-g and A-4-n report the quantity and value of crushed stone used for cement or lime manufactured. Do not include the quantities or value of cement or lime produced.

Inquiry 3. - Persons engaged by classes:

Include those employees who have headquarters at the quarry or mine but are working elsewhere. Do not include those employees who are working at the quarry or mine but are on another pay roll (such as employees of contracting corporations). Employees on vacation or sick leave with pay should be included. Do not include any employees on the pay roll of this operator who are engaged in dimension-stone dressing or in the manufacture of cement or lime. If an employee is engaged part of the time in manufacturing activities and part of the time in quarrying or mining, he should be reported under Inquiry 3 if most of his time is devoted to quarrying or mining.

Salaried employees. —No person should be reported as a malaried employee under A merely because he is hired by the week or month instead of by the day. The distinction should be based primarily on the character of work done rather than on the unit of time that is the basis for compensation. For example, engineers and firemen in mine power plants are often employed by the week or month, but they should be classed as wage earners under B rather than salaried employees. Time-keepers, clerks, stenographers, and others in similar occupations should be classed as salaried employees under A. If one person serves in more than one capacity, that person should be counted only once. For example, if a clerk is also a manual worker, he should be counted only once, under A or B according to the activity to which he devotes most of his time.

Mage earners. —Report as wage earners under Ball those who perform manual work, using tools, operating machines, handling materials and products, and caring for the quarry or mine, its shops and equipment, Account for all time and piece workers employed at the quarry or mine covered by this report. Include here working foremen and gang and straw bosses. Clerical employees should be included under A. Include wage earners not actually accounted for on the pay rolls but maid indirectly through superintendents, foremen, miners, and the like. Do not count convict laborers among wage earners anywhere in this report. If any convict labor was used, so state under "Explanations."

<u>Proprietors and firm members.</u>—Report under C all owners, partners, etc., of concerns that are <u>not</u> incorporated. Do not report any such persons under A or E even though they receive a salary. Those proprietors or firm members that perform manual labor in or about the quarry or mine should be included under C and also C-1.

Inquiry 4. - Salaries and wages:

Take every precaution to include all salaries, wages, bonuses, and commissions paid during the year covered by the report. Do not deduct employees' contributions for Social Security, employment compensation, group insurance, union dues, or for similar purposes. Do not include payments in kind (quarry or mine products). If <u>board or rent</u> was furnished as part compensation of wage earners, its value should be included as wages. Bonuses or percantages of profits paid to officers, superintendents, foremen, or wage earners should be included in the amount of salaries or wages, but dividends on stock held by officers and employees should not be included. If any wage earners are paid indirectly through superintendents, foremen, miners, and the like, their

compensation should be estimated as nearly as possible and included under B.

Inquiry 5 .- Here earners employed by months:

Report here all wage earners - such as defined for Inquiry 3-8.

Inquiry 6. - Wage Barners, by departments and working time:

Report data for wage earners only - such as defined for inquiry 3-B.

Under A-1 report data on employment and working time during days when the quarry, mine, or crushing, acreening, or washing plant was active for production or development (including construction) work.

At QUARTY OF Mins. --For "Underground," report data relating to wage sermers engaged in mining or development work - drilling and blasting, loading, transporting, etc. - whose duties are confined wholly or chiefly to underground operations. For "Openeut," report sate relating to wage earners engaged in surface quarrying or excavating sperations - drilling and blasting, channeling, wedging, loading, transporting, etc. - and in removing overburden or other development work, whose duties were confined wholly or chiefly to operations within the openeut. For "Surface," report data relating to all wage earners at repair shops, holste, etc., on the surface which chiefly serve underground workings or openeut. Do not include wage earners at trushing, acreening, or washing plants or at suchlary shops which chiefly serve such plants.

At Grushing, agreening, washing, or storage blant, — Include all wage sarners whose duties are concerned wholly or chiefly with crushing, acreening, washing, or storage of stone. Include also the wage earners at auxiliary shops which chiefly serve such plants.

Inder A-2 report data for days when the quarry, mine, or crushing, screening, weshing, or storage plant was <u>inactive</u>. This should include data for mage earners engaged in maintenance or repair work during all days in the year not included under A-1, including Sundays, holidays, end all other inactive days.

Man-shifts and man-hours. —A man-shift is the work of one man during one shift. Similarly, a man-hour is the work of one man during one Bour. If the leasth of one shift is 8 hours, one man-shift represents 8 man-hours, (If 10 mean worked 100 sight-hour shifts each, the aggregate number of man-hours worked is 10 x 100 x 8, or 8,000,1

Number of days active, by shifts.—The operator should report the number of days the quarry, mine, or plant was active for production or development in 1939 during the first shift, second shift, or the third shift. On days when the quarry, mine, or plant was active only gart of a first, second, or third shift, the number of days reported under first, second, or third shift should be reduced to the number of equivalent days during which fail first, second, or third shifts were operated. If a quarry, mine, or plant operates only one shift per calendar day, report this shift as the first shift.

AYBIARS number of wage earners. -- Report the average number of wage earners receiving pay when the quarry, mins, or plant was active for production or development during 1939. The following method for computing the average number of wage earners in each department for each shift is suggested:

Count the number of wage earners on each weekly, semimonthly, or monthly active period (for whichever time interval separate pay-noll or timekeeper's records are kept). Then add the numbers counted for all such active periods and divide this total by the number of such periods.

Length of workweek. -Under a report the average number of hours per wage earner in the full-time workweek, exclusive of overtime. for wage earners employed in the quarry or mine proper, regardless of the length of workweek of wage earners employed at surface shops or at the crushing, screening washing, or storage plant.

Report the length of the typical full-time workweek during active periods in the year without attempting to indicate minor variations from the usual practice.

Insulty 7. - Sanction, Detertain, Tools, and electric searcy commend

The figures reported for this inquiry should represent the copt of materials, etc. actually used or materials, etc. actually used or materials purposed during the calendar year 1939, which is not necessarily the cost of materials purposed during the calestar year. If the chots of materials and fuels actually consisted during the year are not shown in the book records, they may be computed by eating to the memory of materials purposed during the year any decrease in the inventory of materials on hand on Jabuary 1, 1960, as compared with January 1, 1980, or deducting the increase is much inventory. Under "duplice and materials" include much items as explosives, fuses, lumber and timber used for much supports or repairs, track ties, relis, tooks or parts used for remarks or repairs, iron and steel for binemanithing, lubricating oil, water for holiers and other surposes, etc.

DR. Not intiming under Inquiry ? may charges to depreciable empitel accults. Such as cost of new equipment, salaries, wages, and misselfameous expenses; and cost of commodities puremaped for result in some condition.

Electric energy generated at a coment or lime plant and and at a quarperated in commection therewith should be reported under C-1 of this schedule.

Inquiry B. -- Amount paid for work acre during 1979 by contracting corporations:

Report under Inquiry S the total assumes paid to contractors for such work as stripping, hawling, boring test holes, bummeling, etc. To mot include any assumes paid in salaries or wages and reported under Inquiry 4.

Under "Mature of contract work" list the major work performed under contract, Such as obtinging, hawling, crushing, etc., and the total amount paid to each contracting company for all types of work. If part of the payment to a stripping contractor is in material stripped (such as and and grevel or good top soil) an estimate of the approximate value of the stripping service should be recorned.

Inpulry 2. Cast of bulldings, machinery, and equipment erested or installed during 1939:

Report only the cost of buildings, machinery, and equipment constructed or installed during 1939, and <u>exclude tools of land fearbased</u>. Include only additions to capital asset accounts which will be depreclated over a period of more than one year, thus excluding minor additions and remiscements.

"Cost" should include the amount paid to and due the seller for the captall addition during the year (excluding amounts paid during 1959 for additions and other installation costs. Exclude the cost of buildings acquired by purchase from their companies. Coxreported under items A. B. and C. are insteaded to be mutually exclusive and any costs reported under one of the items should not be included under anapter.

Inquiry 10. -- Power equipment:

Report all prime movers, whether stationary or mobile, and whether or not arriving generators, line sharts, or other equipment. Do not include motor-generator set and rotary converters.

Isoniry II - Muster of meananical gover leading mentions or units, by tomes:

Report mechanical nomer loading manchines. For example, a swing derrick operated by human or animal power is not to be included. In the spaces province under A and B enter the number of Loading members of the kinds or relations indicated. Account for all units in 1800 or 200 library 1, 1940. Include emergency or stand-by or idle equipment: exclude only bank. The sum of the numbers of units classified by size of disper or bucket (or of except to be supported to a number of units classified by size of disper or bucket (or of except to be supported to be

Classify Diesel-electric or gasoline-electric power showels or dragline exteretors under "Riectricity" for kind of power used. Sasoline power obswels should be slassified under "All other."



MINERAL INDUSTRIES

CONFIDENTIAL CENSUS REPORT

Your report is required by Act of Congress. This Act also makes it unlawful for the Bureau to disclose any facts, including names or identity, from your census reports. Only sworn census employees will see your statements. Data collected will be used solely for preparing statistical information concerning the Nation's population, resources, and business activities. Your Gensus Reports Cannot Be Used for Purposes of Taxation, Regulation, or Investigation.

(State and county) (Central effice number) (Cindustry cassification) (Cindustry cassification) (Cindustry cassification) (Cindustry cassifica	DO NOT FILL IN	FORM 100-MQ File No.
(Redestate number) (Redestate number) (Redestate number) (Redestate number) (Redestate number) (Redestate number) (Reply to the following questions and return this report as promptly as possible in the enclosed envelope which requires no postage Before preparing your report read carefully all instructions on this schedule. Note particularly special instructions for your industrappearing at the end of this schedule whether or not the mine or quarry was in operation for either production or development purposes Failure to do so will necessitate submitting an additional report later. Fill in all blanks in schedule. If answer is "none," write the wor "none" in the appropriate place. This report should cover operations during the calendar year ended December 31, 1939. This report should cover the entire mine or quarry together with its office, repair shops, yards, mill, or preparation plant, etc. Use separate schedule for each mine or quarry. Additional blanks will be furnished upon request. If you operate a mill or plant serving mor than one mine or quarry or if you operate a custom mill or plant (doing work for the account of others), report data for it on a separat Mines and Quarries schedule. Disregard spaces for "Key," "Code," and "Item" numbers, and those marked "Do NOT FILL IN." (These are for Census Officuse only.) INQUIRY 1—NAME, LOCATION, AND DESCRIPTION OF OPERATION: A. Name of mine or quarry (or mill or plant, if reported separately) B. Name and address of operator	(Industry number)	
(Central effice authors) CENSUS OF MINES AND QUARRIES: 1939 GENERAL SCHEDULE (Industry classification) Reply to the following questions and return this report as promptly as possible in the enclosed envelope which requires no postage Before preparing your report read carefully all instructions on this schedule. Note particularly special instructions for your industry appearing at the end of this schedule. Answer all questions in this schedule whether or not the mine or quarry was in operation for either production or development purposes Failure to do so will necessitate submitting an additional report later. Fill in all blanks in schedule. If answer is "none," write the wor "none" in the appropriate place. This report should cover operations during the calendar year ended December 31, 1939. This report should cover the entire mine or quarry together with its office, repair shops, yards, mill, or preparation plant, etc. Use separate schedule for each mine or quarry. Additional blanks will be furnished upon request. If you operate a mill or plant serving mor than one mine or quarry or if you operate a custom mill or plant (doing work for the account of others), report data for it on a separat Mines and Quarries schedule. Disregard spaces for "Key," "Code," and "Item" numbers, and those marked "DO NOT FILL IN." (These are for Census Officuse only.) INQUIRY 1—NAME, LOCATION, AND DESCRIPTION OF OPERATION: A. Name of mine or quarry (or mill or plant, if reported separately) B. Name and address of operator	(State and county)	
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INQUIRY 1—NAME, LOCATION, AND DESCRIPTION OF OPERATION: A. Name of mine or quarry (or mill or plant, if reported separately) B. Name and address of operator	separate schedule for each than one mine or quarry Mines and Quarries schedule for Disregard spaces for	h mine or quarry. Additional blanks will be furnished upon request. If you operate a mill or plant serving more or if you operate a custom mill or plant (doing work for the account of others), report data for it on a separate lule.
A. Name of mine or quarry (or mill or plant, if reported separately) B. Name and address of operator		CATION AND DESCRIPTION OF OPERATION.
B. Name and address of operator	•	·
Rey .		
1 T. A		•
1. Is the concern operating this establishment incorporated:	1. Is the concern	operating this establishment incorporated?
2. Does this concern operate mines of quarties other than the one covered by this report:	z. Does uns con	sern operate mines of quarties other than the one covered by this report:
3. Is this concern a subsidiary or an affiliate of some other concern? (Yes or no)	3. Is this concern	(Yes or no)
If so, give name and address of such other concern	If so, give r	ame and address of such other concern
		······································
C. Location of mine or quarry covered by this report:	C. Location of mine	or quarry covered by this report:
1. State 2. County 3. City, town, or village (within which of	1. State	2. County 3. City, town, or village (within which or
nearest which located) 4. Post office nearest to mine or quarry	nearest whi	ch located) 4. Post office nearest to mine or quarry
D. Was there any production or development work at this mine or quarry during any part of 1939? 4. Post office nearest to mine or quarry 5. Shipping point 8-2	\$1 15 M 14 B 14 18 18 18 18 18 18 18 18 18 18 18 18 18	5. Shipping point
D. Was there any production or development work at this mine or quarry during any part of 1939?	D. Was there any p	
E. If this report does not cover the operations of this mine or quarry during the entire year 1939, give dates of period covered	E. If this report do	es not cover the operations of this mine or quarry during the entire year 1939, give dates of period covered
, and the name and address of the operator for the	71 634 66 66 64 67 70 75 74 75 75	, and the name and address of the operator for the
remaining portion of the year		
F. Nature of operations at mine or quarry covered by this report:		
1. Principal mineral, rock, ore, etc., produced (specify)	1. Principal min	eral, rock, ore, etc., produced (specify)
2. Type of mining or quarrying (specify whether underground, open-cut, dredging, well operations, etc.)	2. Type of minin	og or quarrying (specify whether underground, open-cut, dredging, well operations, etc.)
(a) If underground, check the method of mining and underscore the dominant method:		
Open stoping (including room-and-pillar and sublevel stoping) Shrinkage stoping Square se ting Sublevel caving Cut-and-fill stoping Block caving Top slicing Oth		Open stoping (including room-and-pillar and sublevel stoping) Shrinkage stoping Square set-

QUIRY 1.—Continued. 3. Type of milling,	concer	ntrating, o	or other pr	eparation use	ed in conne	ction with m	ine or qu	wiry	of Sin Askardonia a ferrancia con	n i normpuykadorina ,安康 _ 4
4. If this is a separa of mines or qua	rries s	erved:	mui or pre	paration piar	it serving i	nore than on	e mine of	' quarry', list	below names	and location
Name of m	ine or	quarry		State	County	City, town, or	village		asse of operate	Programme and the control of the con
(a)			1						- 1 M P	
(b)			Ì	1						
(c)(d)			1						, 1 (4 4 1 4 1 	
				is needed use			h here)			
QUIRY 2—QUANTITY of all products produce the total net selling val For crude ore or miner cost of containers for p this schedule.	d duri ue 1. o il trea	ng 1939, . b. mine .ted by yo	whether sh or point ou, or for p	ripped, stockes of shipment roducts stock	d, or used he, exclusive ted or used cristinstructural	y you. For of transporta by you repo	products than costs rt careful ir industi	produced a beyond the ly estimated y regarding	nd sold durir mine or pres mine values this Inquiry	g 1939 repor aration plan . Exclude th at the end o
Product	Item	THE PERSON NAMED IN COLUMN TO A PARTY OF THE PERSON NAMED IN	Total m	and by you	THE RESIDENCE AND ADDRESS OF THE PERSON OF T	on from motorial you or others	from true connection who bread	mant, wastent, g	modiced by you by you or others count, or other	en bet fal. In
	1.00	Unit of measure	Quantity	Total value (ount cents)	Quantity	Todal vodale todal jedalej	United	i.premett.j	Total value (camit cesta)	Di-1 phas D2-4 monas Di-4
		man Application of the Applicati	D1-1	D1-2	D1-3	D1-4	Distance of the last of the la	D2 3	D2-4	D2-5
Kind or grade of mineral produced (specify):				0					a	P.
2.				\$	1	s			\$	S
3.				\$		8			\$	\$
4		***************************************		\$		s			\$	S.
5.		!	1	8	1	8			8	\$
7.				\$		\$,		8	*
8.				8	1	\$			8	S
9.			***********	-	1	8		1	S	S spirit administration and the second
Total value	. 1	x	xxxx	\$		8	***	xxxx	\$	\$
								Surante	equipments y	FHI. IN Teles verses (cours course)
Other products of this rarate schedule, state	n wh	ich schedi	ile:	tion (specify)). If repor	ted on a sep-			- Co	
2.				*					8	
Total value of Electric energy generate							2 x	i	x x x 8	
Electric energy generate under Inquiry 7C.) Amount received for wo stripping, pumping, s	rk. if	anv. perfe	rmed for o	ther establish	iments, suc		. 34 12			
1. 2.		******	rance of a street of the original	e combine se an equip the filter oping an energy sector (XXXX	
Total amount					11 - 20-12 - 20-12 - 20-13 - 2		4 x	İ	x x x 5	- Control of the Cont
	************	of page (page) also annual Paris — confliction described	(DO NO	OT FILL IN)			Code K	GY .		Key
Grand total v	alue (A+B+C		a a a a a a gardego (no e o const			Α	-3 S		A 4

normal pay-roll peric and C. Include all (including construct than one mine or que a distance from the s	od ended nearest of persons at the minimum, repairs, or nurry if it is located	October ne or qui naintena Lat this	14, 19 arry t mce w	939. oget vork or o	DO NO her with Includ)T c its c le pe xclu	count office, ersons de fro	the same pe shops, yard: employed i m this repor	rsons t s, mill n a ge rt emp	unde , etc. eners love	r more , enga l offic es for	e than o ged in p e having a genera	ne of the production g jurisdi al office t	e heading on, develo ction ove hat is loc	ppment or more
	and man find I have grown a 6-distribution of Asia Williams and Complete and Park in the Asia (1979).	And my best middle general and the sources	C	Class										Number of persons	*
A. Salaried employees. personnel; responsi straw bosses and w	hla professional a	nd tachr	າຂໍາເປັນ	1722 Th	AUGOS' ST	nd a	lleler	ical employe	368. (Exch	ide ge	ing and	4	******	Key A-5
B. Wage earners (includ													1		
	es (A+B)														
C. Proprietors and firm 1. Proprietors and firm mine or quarry	rn members inc	luded in	(C) st	WIVE	regular	iv 1	rotrac	ming manus	a labo	rm	or an	out me	1)
INQUIRY 4—SALARIE reported under Inqu for social security, in as salaries and wage	ary 3. Include a surance, dues, etc	il salari	M. WA	CAS.	bonuses.	cor	mmiss	ions (and pr	ofits v	vhen	paid	to empl	ovees) b	efore ded	uctions
Marie Law Marie Adam (1999) (20 pg.) - Commission Law Marie Anni (1994) (1994) (1994) (1994) (1994) (1994) (1994)	e englisher i menerana kan jerde kantala adalah ing menganggan dalah sebagai sebagai sebagai sebagai sebagai s	(Class of	f em	ployees				7				ar ar	Total salari id wages p (omit cent	aid
A. Salaried employees.	Report salaried o	officers o	f corp	orat	ions ; mar	ıage	rs, su	perintenden	ts, and	othe	rsupe	rvisory			Key
personnel; responsi straw bosses and w	bie professional a /orking foremen v	nd techi vho shou	nical e	rep	orted un	id a der	ii cier ''Wag	cai employe e earners.")	es, (Exci	uae g	ang and	. \$		A-8
B. Wage earners (includ					_								1		A-9
Total salaries	and wages paid (A+B)					• • • • • • • • •						\$		A-10
INQUIRY 5—WAGE E the pay-roll period reported under Inqu	ended nearest the	OYED, 15th of	BY M f each	ION mo	THS.—I nth. Fi	tepe gure	ort the es give	e number of en in this in	wage quiry	earn shou	ers <i>re</i> ld inc	ceiving lude onl	<i>pay</i> for y the cl	any time ass of en	during
Number Key	Number	Key	1	vuml	er	Key		Number	Ke	у	Code	Key	Total '	W. E. M.	Key
January C-1	April	C-4	July.			C-	7 0	ctober	c-	10			(Do no	ot fill in)	
February. C-2	May	C-5	Augi	ust	******	Ç-	8 N	ovember	c_	11		A-11			A-12
March C-3	June	C-6	Sept	emb	er	C-	9 D	ecember	C_	12		C-13			C-14
INQUIRY 6—WAGE E A. Average number production, described office		, man-sh ruction,	uifts, l repair	engi	h of shif mainten	t, m	an-ho e worl	urs, and min k in or about	the marts of	ine, shif	quarry ts to	, or pre equivale	paration	plant.	
	Department			ltem	Total man ahits worke during year	d (Length of shift (hours)	Total man- hours worked during year	shifts) numb not ex	worked er in e teed 36	ne-snut during sch colu	(or plant- 1939, (The mn should	Average 1	receiving pay	ege earners
					E-1		(440-44)	E-2	First shift E-3	-	econd shift E-4	Third shift E-5	First shift E-6	Second shift E-7	Third shift E-8
or develop (a) At mine (1) Unde op	erground (mining ment)	and dev	rel-	1			# dog = 1 11 10 10		**			*******			~~~~~~~~~
(2) Oper	i-cut (mining, ipping) and well (quarryi	ng.	6								***************************************			
(3) Surfa	ce (including n d yards)	aine sh	ops	7											
(b) At prepa	ration plant or m iliary works for m	till (incl	ud-	8											
Te	otal of above.			9	~	,	xxx		x x :	x x	хх	xxx			
2. During inact	live days (all days ader 1 above) for	in vear	not	0											xxx
3. During both	active and ina	etive d	uys				x x x		x x :		x x	x x x	x x x		}

INQUIRY 6.—Continued.	
B. Do you keep actual records of man-shifts?	Key
B. Do you keep actual records of man-shifts? C. Number of days mine or quarry was in operation for production to parts of days as full days):	tion or development purposes during each month
January April Ju	VOctober
February May	Zust Nevember
March	Monther Thomas har
D. Report number of hours per wage earner in the full-time workwe	ook (ovelvaive of evertime) Key Code Key
1. Underground	
	Annual An
3. At preparation plant or	
INQUIRY 7—SUPPLIES, MATERIALS, FUELS, AND ELECTRIC quantity and cost of supplies, fuel, and purchased electric energy development, maintenance, or the operation of the mine or quarry. I supplies and fuels which were both produced and consumed by you.	ENERGY CONSUMED.—The items entered should represent the actually used during 1939, for any purpose in connection with the nclude freight and haulage costs.—Include the quantity and value of
Item	Unit Quantity Total cost (emit cents)
A. Supplies and materials	XXXXXXX ZXXXXXXXXX 8 8-1
B. Fuel: 1. Coal, bituminous (soft, including lignite)	
2. Coal, anthracite (hard)	
3. Fuel oils (including heating oils, but not gasoline or lubricants)	
Tuerous (including nearing ons, but not gasoime or inbricants) A. Gasoline and kerosene	
5. Natural gas (used for fuel or power)	
6. Other (specify)	
Total value of fuels. C. Electric energy used: 1. Generated by your company.	
2. Purchased	Kwhr F-7 8 B-3
compensation should be reported under I natury 4.	IS FOR WORK DONE DURING 1939.—Include all contract work Exclude payments to workmen employed by your company whose
Name and address of contractor	Nature of contract work (omst cents)
Α,	
***************************************	8
В	
***************************************	8
(If more space is needed, use a se	parate sheet and attach here) Rey
Total amount paid contractors	
 capital asset accounts and which are of the type for which deprecia replacements which are in the nature of maintenance. Exclude a mineral production or related activities. A. Cost of new construction or major alterations of buildings an chinery and equipment for these buildings and structures, buildings. Do not include cost of old equipment or material from others. Exclude value of land 	by your own employees, which were charged during the year to attou accounts are ordinarily maintained. Exclude expenditures for onstruction of company houses and similar construction not used for dother structures in 1939. Exclude macroept that which is an integral part of the lused in this construction unless purchased
 B. Cost of all new machinery and equipment installed in 1939 (insected under A). C. Cost of all machinery and equipment (movable or fixed) purch 	clude both movable and fixed equipment but S B-6 hased in a "used" condition (exclude any
used material reported under A)	B-7
Total (A+B+C)	

INQUIRY 10—POWER EQUIPMENT.—The figures given in this inquiry should represent equipment in use or available for use as of January 1, 1940. Include emergency or stand-by equipment and equipment temporarily idle because in need of repairs; exclude only junk.

		Sta	tionary			М	obile*	
Kind of power equipment	Numb	er	Total horser rating	тэмос	Numb	er	Total horsep rating	ower
4 12		Key		Key		Key		Key
A Prime movers (include steam engines and turbines, internal-combustion engines, water wheels, and hydroturbines):								
1. Prime movers driving generators		G-1	***********	G~2		G-3		G-4
2. Prime movers not driving generators	******	G-5		G-6	21.12.12.1	G-7		G-8
Total prime movers (1+2)		G-9	*********	G-10	********	G-11	M. M. M. M. T. M. W. P. M. W. W. M. M. M. M. M. M. M. M. M. M. M. M. M.	G-12
3. Prime movers, included in 1 and 2, ordinarily idle but held for stand-by (not junk)	***********	G-13	, мыны стору с ч + Н формору п	G-14	***********	G-15	***********	G-16
B. Electric motors driven by purchased energy		H-1		H-2		H3		H-4
C. Electric motors driven by energy generated by your company		H~5	*****************	H-6	######################################	H-7		H-8

"Report under "Mobile" the number and total horsepower rating of engines, motors, etc., used for driving mobile or portable equipment, such as loading machines, portable pumps, hoists, fans, mine locometives, surface drills, buildozers, power shovels, tracters, and trucks not used for delivering products to consumers. Exclude data for locomotives owned by railroad companies.

INQUIRY 11—NUMBER OF MECHANICAL-POWER LOADING MACHINES OR UNITS, BY TYPES.—The figures given in this inquiry should represent equipment in use or available for use as of January 1, 1940. Include emergency or stand-by equipment and equipment temporarily idle because in need of repairs; exclude only junk.

				Class	ified by ki	nd of powe	used	Classified capad	by dipper city in cubic	or bucket yards	Scraper h	oists classifie	d by rated l	borsepo
	Type of equipment	Item	Tetal J-1	Steam J-2	Electric or Dissel- electric J-3	Compressed air	Gasoline or Diesel J-5	Less than 3	3-5 inclu- sive J-7	More than 5	Leas than 10 J-9	10-25 in- clusive J-10	26-100 in- clusive J-11	Mon than J-1
Su	rface operation:													
1.	Power shovels	1	**************************************			xxx					xxx	xxx	xxx	хx
2.	Dragline excavators	2	4-4-4-4-5-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4			xxx					xxx	ххх	x x x	x x
3.	Scraper loaders	3						xxx	xxx	x x x				
4.	Clamshell or orange-peel loaders.	4						xxx	xxx	x	xxx	xxx	xxx	x x
5.	Sand, gravel, or matrix pumps			ļ		1		l				İ		1
6.	Other types (specify): (a)				ļ	1		[ł	1		
	(b)		*********					xxx	xxx	xxx	xxx	xxx	xxx	хх
U:	derground:													
	Shovel loaders: (a) Requiring a minimum working height of more than 8 feet. (b) Requiring a minimum working height of 8 feet or less.								x					
	Total under- ground shov- els		~~~~~~								İ			Ì
2.	Scraper loaders (including slushers)							1]	1]	
3.	Other types (specify): (a)	}		1	}	1	1	1	}	1	1	1]	1
	(b)						1				1	1	1	



umber of loaders	Manufacturer	Model No.	Number of loaders	Manufactures	Model No.
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	rite here explanations as	ad comments that w	ould aid proper interpre	ACCRECATE HEALTH CONTRACTOR OF THE PERSON OF	ert and complete

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE FILLING OUT THIS SCHEDULE

GENERAL INSTRUCTIONS

I. Include in this report data relating to such operations as crushing, grinding, sorting, screening, milling, washing, drying, or concentrating when carried on by the mine or quarry operator as a part of or closely associated with, mining or quarrying. All operations included should be clearly indicated under Inquiry 1F-3.

II. The following specific operations, however, which are some-times carried on by the operator of the mine or quarry, are more nearly manufacturing processes and data relating to them should be excluded from the Mines and Quarries report:

Barite grinding or refining and the production of barium products. Feldspar grinding operations.

Gypsum calcining and the production of gypsum products.

Magnesite calcining and burning.

III. The figures reported (typewritten, if possible) should be taken from your books; but if the books do not give all the information required, carefully estimated figures are acceptable. Figures entirely estimated should be so noted on the schedule by the mark "Est."

IV. Do not attempt to account for all your expenses. Report only the expenses specified in Inquiries 4, 7, 8, and 9.

SPECIAL INSTRUCTIONS FOR INDIVIDUAL INQUIRIES

Inquiry 1-Name, location, and description of operation. Report under A the local name of the mine, quarry, or preparation plant (if reported separately).

Distinguish carefully between A and C, giving name and location of mine or quarry reported, and B-3, giving the name and address of the concern, if any, of which the reporting company is a subsidiary or

If the boundary of a State, county, city, town, or village rans through the property, report under C the location of the mine or quarry as that State, county, city, etc., within which the most important part of the mine or quarry is located.

Inquiry 2—Quantity and value of products and value of work done for others.—Report production during 1939, which is not necessarily the same as shipments or sales during 1939. If your book records do not show production, it may be computed by adding to the total products shipped or used in 1939 the stocks on January 1, 1940, and subtracting stocks on January 1, 1949.

Report the net selling value of products at point of production or f. o. b. point of shipment from mine, quarry, or preparation plant. Freight charges on products paid by you and discounts from list prices

should not be included in the value of products.

If you produced both "Crude are or mineral" and "Prepared are or you should report figures in all columns. Under "Total mined by you" report the total quantity and value (estimated, if necessary) of the crude are or mineral mined by you during 1939, including that portion of it that was treated by you or by others, and including that portion of it that was sold or shapped for use in its crude state, or that was stored for later use or shipment. Under "Prepared ore or mineral produced by you from crude material mined by you or others" report the quantity and value of concentrate or other prepured material that was recovered from the crude material reported under 'Treated by you from material mined by you or others. quantity of "prepared ore" is usually somewhat smaller than the quantity of "crude ore" treated because of the elimination of waste or refuse in the preparation process. Report the value (estimated if necessary) of crude ore or mineral "Treated by you..." despite the duplication of the value of this crude material in the value of

"Prepared ore or mineral . . ."

Report under D the amount received (or the total charges, in case the work was done on credit and bills were unpaid at the close of the year) for all work, if any, performed for other establishments if that work was done by your employees. The number of such employees should be reported under Inquiries 3, 5, and 6, and their compensation under Inquiry 4.

If you produce one of the mineral commodities listed below, report the quantity and value of your products under A of Inquiry 2 as

asbestos. Check here whether your asbestos is chrysotile amphibole Asbestos: Report separately by grades your mine production of

amphibose

Bartte: Under "Crude ore or mineral" report all crude barite mined
by you. Do not report anywhere on this schedule data relating to
barite grinding or refining and the production of barium products.

Bauxite: Under "Crude ore or mineral report crude bauxite mined. Under "Prepared ore or mmeral" report separately concentrate recovered from crude bauxite concentrated by milling, and dried bauxite recovered from crude bauxite dried.

Native bitumens and allied substances: Report separately under "Prepared ore or mineral" marketable bituminous limestone, bituminous sandstone, gilsonite, grabamite, ozokerite, wurtzelite (claterite), and other bituminous substances (specifying each kind).

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Boron: Under "Crude ore or mineral" report the total crude boron minerals mined by you. Indicate the average percent content of B_2O_3 in the boron minerals mined.

Chromite: Under "Crude ore or mineral" report chromite ore mined.

Indicate the average percent content of Cr₂O₃.

Feldspar: Under "Crude ore or mineral" report crude feldspar produced. Report separately potash, soda, mixed, and other (specifying what kind). Do not report anywhere on this schedule

data relating to feldspar grinding.

Fluorspar: Under "Crude ore or mineral" report crude (run-of-mine) fluorspar mined. Under "Prepared ore or mineral" report

fluorspar recovered by washing or milling (gravel, lump, or tailing).

Graphite: Under "Crude ore or mineral" report crude rock mined.

Under "Prepared ore or mineral" report refined graphite produced.

Report separately amorphous and crystalline graphite.

Greensand: Under "Crude ore or mineral" report crude material mined. Under "Prepared ore or mineral" report refined greensand

production.

Gypsum: Under "Crude ore or mineral" report crude gypsum (including gypsite) mined by you. Do not report anywhere on this schedule data relating to gypsum calcining and the production of gypsum products.

Kyanite, and alusite, and dumortierite: Under "Crude ore or mineral," report crude ores mined. Under "Prepared ore or min-

al" report concentrate produced.

Lithium minerals: Under "Crude ore or mineral" report crude lithium minerals produced. Report separately lepidolite, amblygonite, spodumene, or other (specifying what kind).

Magnesite: Under "Crude ore or mineral" report crude magnesite

rock or ore mined. Do not report anywhere on this schedule data

relating to magnesite calcining and burning.

Mercury: Under "Crude ore or mineral—Total mined by you," report mercury ore mined. Under "Crude ore or mineral—Treated or or mine by you from material mined by you or by others," report total mercury ore treated by you in either furnaces or retorts. Under "Prepared ore ore treated by you in either turnaces or retorts. Under "repared ore or mineral" report mercury produced from your furnaces or retorts in flasks of 76 pounds. Report separately material treated and metal recovered from old surface ore, dumps, etc.

Mica: Under "Crude ore or mineral—Total mined by you," report run-of-mine mica mined. Under "Crude ore or mineral—Treated by you from material mined by you or others" report total run-of-mine mica treated. Under "Prepared or or mineral" report total run-of-mine mine treated. Under "Prepared or or mineral" report total run-of-mine

mica treated. Under "Prepared ore or mineral" report marketable mica recovered by you (approximate quantity of commercial uncut sheet and scrap mica) in processing plants; report "sheet" and "scrap" mica separately.

Molybdenum: Under "Crude ore or mineral" report crude ore. Under "Prepared ore or mineral" report concentrate recovered by you. Indicate the average percent content of Mo, MoS2, or MoO2 con-

tained in each.

Peat (check here form in which peat is produced): Raw ...

Phosphate rock: Under "Crude ore or mineral" report crude ore or matrix mined. Under "Prepared ore or mineral" report separately on a dry basis the output of the washer, the output of the drier, and

the output of tailings operations.

Potash: Under "Crude ore or mineral" report crude salts mined. Under "Frepared ore or mineral" report processed or refined salts produced, listing separately manure salts, muriate (80-85% KCl), muriate (95-98% KCl), sulfate, and miscellaneous.

Pyrites: Under "Crude ore or mineral" report lump ore produced. Under "Prepared ore or mineral" report fines or concentrate produced. Indicate the approximate percent sulfur content of each product.

Rock salt: Under "Crude ore or mineral" report rock salt mined. Under "Prepared ore or mineral" report pressed blocks from rock salt.

Silica (quartz:) Under "Crude ore or mineral" report crude quartz or silica produced. Under "Prepared ore or mineral" report separately crushed and ground product.

Sulfur: Report under "Crude ore or mineral" the total quantity of sulfur produced

Talc and soapstone: Under "Crude ore or mineral" report material in rough state as mined or quarried, including that subsequently sawed or ground. Under "Prepared ore or mineral" report separately manufactured (sawed into blanks or slabs) and ground material. Report talc and soapstone separately.

Tin: Report separately the output of placer mines and lode mines. Under "Crude ore or mineral" report for placer mines cubic yards of material mined; for lode mines report short tons of ore mined. Under "Prepared ore or mineral" report concentrate produced. Specify

repared content of metallic tin in concentrate produced.

Titanium: Under "Crude ore or mineral" report crude ore mined.
Under "Prepared ore or mineral" report separately, ilmenite recovered, rutile recovered, and apatite recovered. For ilmenite and rutile.

retrie, rathe recovered, and apartic recovered. For inferite and ruttle, indicate the percent content of TiO₂.

Tungsten (check here principal tungsten minerals in tungsten materials or ore): Ferberite _____; huebnerite _____; scheelite _____; wolframite _____. Under "Crude ore or mineral" report tungsten ore mined by you. Under "Prepared ore or mineral" report tungsten ore or properties recovered by you. Indicate the average recover. concentrate recovered by you. Indicate the average percent content of WO, in concentrate recovered.

Uranium and vanadium (check here principal uranium and vanadium minerals contained in the ore): Carnotite ____; pitchblende . roscoelite ____; descloizite ____; vanadinite ____; other (specify) _____ Report separately uranium and vanadium ores mined and report the pounds of V₃O₈ and V₂O₅ contained in each ore. If you produced vanadium products such as iron vanadate, vanadium oxide, sodium uranate, uranium oxide, etc., report these separately under "Prepared ore or mineral."

Vermiculite: Report cleaned raw vermiculite.

Inquiry 3-Persons engaged, by classes.—Include all employees receiving pay for any time during the normal pay-roll period ended nearest October 14, 1939. Those employees who had headquarters at the mine, quarry, or preparation plant, but worked elsewhere, should also be included. Exclude those employees who worked at the mine or quarry but were on another pay roll (such as employees of contracting corporations). Employees on vacation or sick leave with pay should be included. Exclude employees who were on the pay roll of this operator but who were engaged in manufacturing activities or in the operation of company stores, boarding houses, bunkhouses, time in any of the latter activities and part of the time in any of the latter activities and part of the time in mining, quarrying, or primary preparation, he should be reported under Inquiry 3 if most of his time was devoted to mining, quarrying, or primary preparation.

Salaried employees.—No person should be reported as a salaried employee under A merely because he was hired by the week or month instead of by the day. The distinction should be based primarily on the character of work done rather than on the unit of time that was the basis for compensation. For example, engineers and firemen are often employed by the week or month, but they should be classed as wage earners under B rather than as salaried employees. Timekeepers, clerks, stenographers, and others in similar occupations should be classed as salaried employees under A. If one person served in more than one capacity, that person should be counted only once. For example, if a clerk was also a manual worker, he should be counted only once, under A or B according to the activity to which he devoted most of his time.

Wage entroise. Report as wage earners under B all those who performed manual

he devoted most of his time.

Wage earners.—Report as wage earners under B all those who performed manual work, using tools, operating machines, handling materials and products, and caring for the mine or quarry, its shops, and equipment. Include gang and straw bossess, and foremen who performed manual labor, with wage earners. Account for all workers paid on either a time or piece basis employed at the mine, quarry, or preparation plant covered by this report. Include both full-time and partime workers. Include wage earners not actually accounted for on the pay rolls but paid indirectly through such employees of this operator as superintendents, foremen, and the like. Include "contract miners" (miners who undertake to recover mineral products at a stipulated price per ton, car, yard, etc.), and the men engaged by them and paid out of the total amount received by the contract miners. Clerical employees should be included under A and not with wage earners. Do not count convict laborers among wage carners anywhere in this report. If any convict labor was used, so state under "Explanations."

Proprietors and firm members.—Report under Call owners, partners, etc., etc.

Proprietors and firm members.—Report under Call owners, partners, etc., of concerns that are not incorporated. Do not report any such persons under A er B even though they receive a salary. Those proprietors or firm members who performed manual labor in or about the mine, quarry, or preparation plant should be included under C and also reported under C-1.

Inquiry 4-Salaries and wages.—Take every precaution to include all salaries, wages, bonuses, and commissions paid during 1939. Do not deduct employees' contributions for social security, employment compensation, group insurance, union dues, or for similar purposes. Do not include payments in kind (mine or quarry products). If board or rent was furnished as part compensation, its value should be included as part of salaries or wages. Bonuses or percentages of profits paid to officers, superintendents, foremen, or wage carners should be included in the amount of salaries or wages, but dividends on stock held by officers and applying should not be dividends on stock held by officers and employees should not be included.

Report net wages only; if the cost of smithing, and of explosives, fuses, lamp fuel, and similar mine supplies used in production of their development work is charged to employees and deducted from their



APPENDIX B

wages, report the amount of wages after such deductions. Report the cost of these supplies with other supplies under Inquiry 7A.

Inquiry 5-Wage earners employed, by months.-Report here all wage earners such as defined for Inquiry 3B.

Inquiry 6-Wage earners by departments and working time.—Report data for wage earners only, such as defined for Inquiry

Under A-I report data on employment and working time during calendar days when the mine, quarry, or preparation plant was active. Count as active all calendar days during which there was any production or development work (including construction); regard all other days as inactive.

other days as inactive.

At mine or quarry. For "Underground," report data relating to wage earners who were engaged in mining or development work, such as drilling and blasting, loading, transporting, etc., whose duties were confined wholly or chiefly to underground operations. For "Open-cat," report data relating to wage earners who were engaged in surface mining or excavating operations, such as drilling and blasting, loading, transporting, hydraulicking, etc., and in removing overhunders, or other development work, whose duties were confined wholly or chiefly to operations within the open-cut or pit, or at wells. For "Surface," report data relating to all wage earners at repair shops, hoists, tipples, etc., on the surface, which chiefly served underground workings or open-cut mines, quarties, pits, or wells. Exclude wage earners at preparation plants or at auxiliary shops which chiefly served preparation plants.

At preparation plant or mill.—Include all wage earners whose duties were concerned wholly or chiefly with crushing, screening, washing, ore concentration, or other primary treatment, and storage of minerals. Include also the wage earners at auxiliary shops which chiefly served preparation plants.

Under A-2. report man-shifts and man-hours worked during all

Under A-2, report man-shifts and man-hours worked during all calendar days when the mine, quarry, or preparation plant was inactive, including Sundays and holidays. (This should include all man-shifts and man-hours not included under A-1.)

Man-shifts and man-hours .- A man-shift is the work of 1 man during I shift. Similarly, a man-hour is the work of I man during I hour. If the length of I shift is 8 hours, I man-shift represents 8 man-hours. (If 10 men worked 100 8-hour shifts each, the aggregate

number of man-hours worked is $10 \times 100 \times 8$, or 8,000.)

Number of mine-shifts (or plant-shifts) .-- A mine-shift is the operation of the mine (for either production or development purposes) for the duration of 1 full shift (of 6, 7, 8, 9, 10, 11, or 12 hours, whatever is the customary length of shift). If the mine operated 2 shifts per calendar day, that mine would have worked a total of 2 mine-shifts in that day—I in the first shift and I in the second shift. If the mine operated 200 days, 2 shifts per day, it would have operated a total of 400 mine-shifts. Of these 400 mine-shifts, 200 were worked during the first shift of these days, and 200 mine-shifts were worked during the second shift of these days. Reduce parts of mine-shifts to equivalent full mine-shifts. For example, if for some reason the mine operated half a mine-shift instead of a full mine-shift, count 2 such half mine-shifts as equivalent to 1 full mine-shift. The word "fall" does not refer to the number of men working or to the nature of their work but to the number of hours in the customary full-length shift.

Average number of wage earners. - Report the average number of wage earners paid by you when the mine, quarry, or preparation plant was in operation for production or development purposes during 1939. If you operated I shift per day report the average number of wage earners under the column heading "First shift"; if you worked more than I shift per day report separately the average number of wage earners working on the first, second, and third shifts. The following method for computing the average number of wage earners for each

shift is suggested:

Count the number of wage earners on each weekly, semimonthly, or monthly active period (for whichever time interval separate pay-roll or timekeeper's records are kept). Then add the numbers counted for all such active periods and divide this total by the number of these periods. This procedure is dilustrated by the following example. Suppose a mine was active on the first shift throughout the 8 months beginning with April and ending with November. Suppose, also, that the following numbers of wage earners were receiving pay on each of the semmonthly pay-roll periods:

431 [44] 4.1.75.

441 [46] 4.1.75.

29 July 1-15. 44 25 July 16 31 38 30 Aug. 1-15 40 33 33 Aug. 1-15 40 34 Sept. 1-15 39 40 Se 44 Oct. 1-15 38 Oct. 16-31 40 Nov. 1-15 39 Nov. 16-30 Apr. 1-15 Apr. 16-30 May 1-15 June 16-30

In this case, add the numbers of wage earners in active pay-roll periods (20, 25, 30, 35, 40, 40, etc.), giving a total of 546, and divide this total by the number of active pay-roll periods, which is 16. The average number of the first shift when the mine was active is 540 divided by 16, or 34 wage earners.

Length of workweek .- Under D, report the customary number of hours per wage carner in the full-time workweek, exclusive of overtime, for wage earners employed underground, at open-cuts or wells, and at

the preparation plant or mill. Do not attempt to indicate minor variations from the usual practice.

Inquiry 7—Supplies, materials, fuels, and electric energy consumed.—The figures reported for this inquiry should represent the cost of materials, etc., actually used or consumed during 1939, which may be different from the cost of materials purchased during the year. If the cost of materials and fuels actually consumed during the year are not shown in the book records, they may be computed by adding to the amount paid for materials purchased during the year the value of the inventory of materials on hand on January 1, 1939. and deducting the inventory value of materials on January 1, 1940. Under "Supplies and materials" include such items us explosives, fuses, lumber and timber used for mine supports or repairs, track ties, rails, tools or parts used for renewals or repairs, iron and steel for blacksmithing, lubricating oil, water for boilers and other purposes, etc. Include explosives and similar mine supplies sold to employees.

Do not include under Inquiry 7 the cost of commodities purchased for resale in same condition, or items chargeable to depreciable capital accounts, such as cost of new equipment, which should be reported under Inquiry 9. Electric energy which was generated at the mine, quarry, or preparation plant and sold should not be reported under Inquiry 7C-1; such energy should be reported under Inquiry 2C.

Inquiry 8-Amount paid to contracting corporations for work done during 1939. Report total amounts paid to corporations (or partnerships, individual proprietorships, etc.) engaged in contract work such as stripping, hadling, boring test holes, tunneling, etc. Do not include amounts paid in salaries or wages and reported under Inquiry 4. Do not include expenditures for work done by workmen employed by the reporting company such as contract miners (miners who undertake to recover mineral products at a stipulated price per ton, car, or yard, often with the help of men engaged and paid by the contract miners out of the total amount received). The compensation of such workers should be included under Inquiry 4. If conrid labor was used, the amount paid for such labor should be included under

Inquiry 8.

Under "Nature of contract work" indicate the kinds of work performed under contract, such as stripping, hauling, crushing, etc., and the total amount paid to each contracting company for all types of work. If part of the payment to a stripping contractor was in material stripped (such as good topsoil) an estimate of the approximate

value of the stripping service should be reported.

Inquiry 9—Cost of buildings, machinery, and equipment erected or installed during 1939.—Report only the cost of buildings, machinery, and equipment constructed or installed during 1939, and exclude cost of land purchased. Include only additions to capital asset accounts which will be depreciated over a period of more than I year, thus excluding minor additions and replacements.

"Crets" should include the amounts paid and amounts due for capital additions during 1939 (excluding amounts paid during 1939 for additions made in other years). Thus, if the work on new construction or on major alterations was either begun prior to 1939 or not completed by the end of 1939, report only that part of the cost of construction (retimated, if necessary) that was actually done during 1939. Include labor and other installation costs

Inquiry 10 - Power equipment. - Report all power equipment in use or available for use as of January 1, 1940 (whether owned by no use or avalance for use as in samilary 3, 1990, whether owned by you or reinted from others). Include all prime movers and electric motors, both stationary and mobile. Give the horsepower rating indicated on name plates. For "prime-mover-generator unital" which are rated only on the generator, the horsepower rating of the prime mover should be reported as 1h times the kilowatt rating of the generator. For gasoline engines, report the brake horsemower.

Electric motors, which are not prime movers, should be included

under B and C but not under A

Do not include motor-generator sets and rotary converters under A. B. or C

Inquiry 11-Number of mechanical-power loading machines or units, by types. Report mechanical power loading machines. swing derrick operated by human or animal power is not to be in-cluded. In the spaces provided under A and B enter the number of loading machines of the kinds and sizes indicated. Account for all units in use or available for use on January 1, 1940. Include emergener or stand-by or idle equipment, and include equipment temporarily little because in need of repairs; exclude only junk. The sum of the numbers of units classified by kind of power used should equal the sum of the numbers of units classified by size of dipper or bucket for of scraper hoists for scraper loaders) and each of the some should equal the number indicated under "Total."