
APPENDIX A

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

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

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

ALABAMA

INDUSTRY	STATE			BARBOUR			BIBB			BLOUNT			CALHOUN			CHEROKEE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	282	540	106	2	4	1	12	12	6	14	15	4	4	4	2	8	11	1
Bituminous coal	202	251	52	—	—	—	11	11	5	10	10	1	—	—	—	3	5	—
Iron ore	25	32	11	—	—	—	—	—	—	1	2	2	2	2	1	4	7	1
Bauxite	2	4	1	2	4	1	—	—	—	—	—	—	—	—	—	—	—	—
Manganese ore	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	17	21	15	—	—	—	—	—	—	2	2	1	—	—	—	—	—	—
Limestone, rough dimension	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	1	1	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Sandstone, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marble, crushed and broken	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marble, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	12	17	17	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Foundry sand	3	3	1	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Kaolin and ball clay	2	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	4	4	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Common clay and shale	15	15	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bentonite	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Barite	1	1	1	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Native asphalt and bitumens	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	CHILTON			CLARKE			COLBERT			COOSA			CRENSHAW			CULLMAN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	—	1	1	1	3	3	3	1	1	—	1	1	1	11	11	—
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10	10	—
Iron ore	2	2	—	—	—	—	—	—	—	1	1	—	1	1	1	1	1	—
Bauxite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manganese ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marble, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marble, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Foundry sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kaolin and ball clay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bentonite	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Barite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Native asphalt and bitumens	—	—	—	—	—	—	2	2	2	—	—	—	—	—	—	—	—	—

INDUSTRY	DALLAS			DE KALB			ELMORE			ESCAMBIA			ETOWAH			FAYETTE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	3	3	2	2	2	—	3	3	2	1	1	—	9	10	2	1	1	1
Bituminous coal	—	—	—	2	2	—	—	—	—	—	—	—	5	6	—	1	1	1
Iron ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bauxite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manganese ore	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Limestone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marble, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marble, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	2	2	2	—	—	—	2	2	2	—	—	—	—	—	—	—	—	—
Foundry sand	—	—	—	—	—	—	1	1	—	—	—	—	1	1	1	—	—	—
Kaolin and ball clay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	1	1	—	—	—	—	—	—	—	1	1	—	1	1	—	—	—	—
Bentonite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Barite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Native asphalt and bitumens	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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: 1938²—Continued

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

ALABAMA—Concluded

INDUSTRY	FRANKLIN			JACKSON			JEFFERSON			MADISON			MARENGO			MARION		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	5	6	3	2	2	—	67	84	29	3	3	1	1	1	1	21	20	3
Bituminous coal	—	—	—	2	2	—	55	35	20	1	1	—	—	—	—	19	19	2
Iron ore	5	5	2	—	—	—	5	7	—	—	—	—	—	—	—	—	—	—
Bauxite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manganese ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	7	8	8	—	—	—	1	1	1	—	—	—
Limestone, rough dimension	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Marble, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marble, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	1	1	1	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Foundry sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kaolin and ball clay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	1	1
Fire clay	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	4	4	1	1	1	—	—	—	—	—	—	—
Bentonite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Barite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Native asphalt and bitumens	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	MOBILE			MONTGOMERY			MORGAN			PIKE			RUSSELL			ST. CLAIR		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	5	5	3	3	2	2	2	2	1	2	1	3	3	—	6	10	3
Bituminous coal	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	3	7	1
Iron ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bauxite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manganese ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	1	1	1
Limestone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marble, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marble, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Common sand and gravel	1	5	5	2	2	2	1	1	1	—	—	—	—	—	—	—	—	—
Foundry sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kaolin and ball clay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Fire clay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Common clay and shale	—	—	—	1	1	—	—	—	—	—	—	—	3	3	—	1	1	1
Bentonite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Barite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Native asphalt and bitumens	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	SHELBY			TALLADEGA			TUSCALOOSA			WALKER			WASHINGTON			WINSTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	27	28	8	4	4	1	25	28	5	47	53	15	1	1	1	1	1	—
Bituminous coal	20	22	7	—	—	—	20	21	—	47	52	15	—	—	—	1	1	—
Iron ore	1	1	—	1	1	1	5	5	5	—	—	—	—	—	—	—	—	—
Bauxite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manganese ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	6	6	1	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Limestone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marble, crushed and broken	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Marble, rough dimension	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Foundry sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kaolin and ball clay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Common clay and shale	—	—	—	1	1	—	1	1	1	—	—	—	—	—	—	—	—	—
Bentonite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Barite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Native asphalt and bitumens	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

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)

ARIZONA

INDUSTRY	STATE			APACHE			COCHISE			COCONINO			GILA		
	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-----	164	172	57	1	2	---	12	12	3	1	1	---	17	17	9
Bituminous coal-----	2	2	---	---	---	---	---	---	---	1	1	---	---	---	---
Lode gold-----	90	93	20	---	---	---	---	---	---	---	---	---	5	5	---
Placer gold-----	4	4	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver ore-----	20	18	5	---	---	---	2	2	---	---	---	---	1	1	---
Copper ore-----	12	15	9	---	---	---	3	3	---	---	---	---	3	3	2
Lead ore-----	7	6	3	---	---	---	2	2	---	---	---	---	---	---	---
Zinc ore-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Mercury-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Molybdenum ore-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Tungsten ore-----	6	6	4	---	---	---	4	4	3	---	---	---	---	---	---
Vanadium and uranium ore-----	1	1	1	---	---	---	---	---	---	---	---	---	1	1	1
Limestone, crushed and broken-----	4	4	2	---	---	---	1	1	---	---	---	---	1	1	1
Sandstone, rough dimension-----	2	2	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, rough dimension-----	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken-----	2	2	2	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	3	3	3	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	2	2	---	---	---	---	---	---	---	---	---	---	---	---	---
Bentonite-----	1	2	---	1	2	---	---	---	---	---	---	---	---	---	---
Asbestos-----	6	6	5	---	---	---	---	---	---	---	---	---	6	6	5
Feldspar-----	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluorspar-----	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	GRAHAM			GREENLEE			MARICOPA			MOHAVE			NAVAJO		
	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	1	2	3	3	2	13	12	6	43	47	10	1	1	---
Bituminous coal-----	---	---	---	---	---	---	4	4	1	34	39	6	1	1	---
Lode gold-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Placer gold-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver ore-----	---	---	---	1	1	1	2	1	1	6	5	2	---	---	---
Copper ore-----	---	---	---	1	1	1	1	1	---	---	---	---	---	---	---
Lead ore-----	1	---	1	---	---	---	---	---	---	---	---	---	---	---	---
Zinc ore-----	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---
Mercury-----	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Molybdenum ore-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tungsten ore-----	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---
Vanadium and uranium ore-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sandstone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, rough dimension-----	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	3	3	3	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---
Bentonite-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Asbestos-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Feldspar-----	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---
Fluorspar-----	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---

INDUSTRY	PIMA			PINAL			SANTA CRUZ			YAVAPAI			YUMA		
	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	7	4	14	14	5	6	6	2	41	42	13	7	7	1
Bituminous coal-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lode gold-----	2	2	1	8	7	2	1	1	---	30	29	9	6	6	1
Placer gold-----	---	---	---	---	---	---	---	---	---	3	3	---	1	1	---
Silver ore-----	---	---	---	3	3	---	2	2	---	3	3	1	---	---	---
Copper ore-----	2	2	2	2	2	2	---	---	---	3	3	2	---	---	---
Lead ore-----	---	---	---	1	1	---	3	3	2	---	---	---	---	---	---
Zinc ore-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mercury-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Molybdenum ore-----	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
Tungsten ore-----	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Vanadium and uranium ore-----	---	---	---	---	---	---	---	---	---	1	2	1	---	---	---
Limestone, crushed and broken-----	---	---	---	---	---	---	---	---	---	2	2	---	---	---	---
Sandstone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Bentonite-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Asbestos-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Feldspar-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fluorspar-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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)

ARKANSAS

INDUSTRY	STATE			BAXTER			BENTON			BOONE			CHicot		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	138	140	52	1	1	---	2	5	3	1	1	1	1	1	1
Natural gasoline	7	---	9	---	---	---	---	---	---	---	---	---	---	---	---
Bituminous coal	78	78	1	---	---	---	---	---	---	---	---	---	---	---	---
Bauxite	9	8	9	---	---	---	---	---	---	---	---	---	---	---	---
Manganese ore	5	2	2	---	---	---	---	---	---	---	---	---	---	---	---
Mercury	8	7	4	---	---	---	---	---	---	---	---	---	---	---	---
Titanium ore	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken	6	9	7	---	---	---	1	2	2	---	---	---	---	---	---
Slate, crushed and broken	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Marble, rough dimension	4	4	---	1	1	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel	12	13	13	---	---	---	---	---	---	---	---	---	1	1	1
Glass sand	1	2	2	---	---	---	---	---	---	1	1	1	---	---	---
Common clay and shale	5	10	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives	2	3	1	---	---	---	---	---	---	---	---	---	---	---	---
Tripoli	1	1	1	---	---	---	1	1	1	---	---	---	---	---	---

INDUSTRY	CLARK			CRAIGHEAD			CRAWFORD			CROSS			FRANKLIN			GARLAND		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	1	1	---	1	1	1	1	1	1	8	8	---	2	5	1
Natural gasoline	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bituminous coal	---	---	---	---	---	---	---	---	---	---	---	---	8	8	---	---	---	---
Bauxite	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manganese ore	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mercury	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Titanium ore	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slate, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, rough dimension	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel	1	1	1	---	---	---	1	1	1	1	1	1	---	---	---	---	---	---
Glass sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---	2	3	1
Natural abrasives	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tripoli	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	HEMPSTEAD			HOT SPRING			HOWARD			INDEPENDENCE			IZARD			JACKSON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	4	---	4	5	2	1	1	1	6	5	2	2	2	1	1	1	1
Natural gasoline	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bituminous coal	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bauxite	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manganese ore	---	---	---	---	---	---	---	---	---	3	2	2	---	---	---	---	---	---
Mercury	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Titanium ore	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken	---	---	---	---	---	---	1	1	1	1	1	---	---	---	---	---	---	---
Slate, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, rough dimension	---	---	---	---	---	---	---	---	---	2	2	---	1	1	---	---	---	---
Miscellaneous stone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel	---	---	---	1	1	1	---	---	---	---	---	---	1	1	1	1	1	1
Glass sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale	1	4	---	2	3	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tripoli	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

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)

ARKANSAS—Concluded

INDUSTRY	JEFFERSON			JOHNSON			LAWRENCE			LITTLE RIVER			LOGAN			MILLER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	18	17	1	2	2	2	1	1	1	18	19	---	2	1	1
Natural gasoline	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1
Bituminous coal	---	---	---	18	17	1	---	---	---	---	---	---	18	19	---	---	---	---
Bauxite	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manganese ore	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mercury	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Titanium ore	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
Slate, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, rough dimension	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel	1	1	1	---	---	---	1	1	1	1	1	1	---	---	---	---	---	---
Glass sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---
Natural abrasives	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tripoli	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	OUACHITA			PIKE			POLK			POPE			PULASKI			ST. FRANCIS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	---	1	8	7	4	1	1	1	3	3	1	8	7	6	1	1	1
Natural gasoline	1	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bituminous coal	---	---	---	---	---	---	---	---	---	2	2	---	---	---	---	---	---	---
Bauxite	---	---	---	---	---	---	---	---	---	---	---	---	6	4	4	---	---	---
Manganese ore	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mercury	---	---	---	8	7	4	---	---	---	---	---	---	---	---	---	---	---	---
Titanium ore	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---
Slate, crushed and broken	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
Marble, rough dimension	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---
Common sand and gravel	---	---	---	---	---	---	---	---	---	1	1	1	1	1	1	1	1	1
Glass sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tripoli	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	SALINE			SCOTT			SEBASTIAN			SEVIER			UNION			WASHINGTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	5	4	5	1	1	---	32	32	---	1	1	1	6	---	7	1	3	3
Natural gasoline	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bituminous coal	---	---	---	1	1	---	31	31	---	---	---	---	6	---	7	---	---	---
Bauxite	5	4	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manganese ore	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mercury	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Titanium ore	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	3	3
Slate, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, rough dimension	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Glass sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---
Natural abrasives	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tripoli	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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)

CALIFORNIA

INDUSTRY	STATE			ALAMEDA			AMADOR			BUTTE			GALAVRAS			CONTRA COSTA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	707	771	474	14	14	11	29	35	8	19	19	3	34	37	8	10	11	9
Natural gasoline	37	---	96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Iron ore	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lode gold	205	206	119	---	---	---	10	9	8	---	---	---	11	11	8	---	---	---
Placer gold	171	199	---	---	---	---	14	14	---	18	15	---	21	24	---	---	---	---
Silver ore	6	6	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Copper ore	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chromite	3	2	1	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---
Manganese ore	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mercury	31	50	30	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1
Tungsten ore	10	9	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken	21	21	17	---	---	---	---	---	---	---	---	---	1	1	---	1	1	1
Limestone, rough dimension	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, crushed and broken	7	8	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, rough dimension	7	7	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	2
Basalt, crushed and broken	11	11	11	1	1	1	---	---	---	---	---	---	---	---	---	1	1	1
Sandstone, crushed and broken	7	8	7	---	2	2	1	---	---	---	---	---	---	---	---	---	---	---
Sandstone, rough dimension	4	4	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slate, crushed and broken	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slate, rough dimension	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, crushed and broken	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken	16	16	11	1	1	1	---	---	---	1	1	1	---	---	---	---	---	---
Common sand and gravel	73	104	104	6	7	7	---	---	---	1	1	1	---	---	---	1	1	1
Glass sand	3	3	3	---	---	---	---	---	---	---	---	---	---	---	---	2	2	2
Foundry sand	5	5	3	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1
Kaolin and ball clay	16	17	10	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---
Fire clay	14	21	2	1	1	---	4	9	---	---	---	---	---	---	---	---	---	---
Common clay and shale	26	28	1	2	2	---	---	---	---	1	---	---	---	---	---	2	2	---
Fuller's earth	2	2	2	1	---	1	---	---	---	---	---	---	---	---	---	---	---	---
Bentonite	6	5	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Barite	2	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Diatomite	3	3	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Feldspar	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Gypsum	5	8	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kyanite, andalusite, and dumortierite	2	2	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Magnetite and brookite	1	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mica	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Native asphalt and bitumens	2	2	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives	9	9	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural sodium compounds	4	5	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pest	4	4	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Potash	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrites	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Rock salt	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sulfur	3	3	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Talc and soapstone	7	10	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tripoli	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	ELDORADO			FRESNO			HUMBOLDT			IMPERIAL			INYO			KERN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	32	31	15	11	8	11	4	5	2	8	8	5	33	34	18	60	54	48
Natural gasoline	---	---	---	4	---	4	---	---	---	---	---	---	---	---	---	9	---	19
Lode gold	13	13	9	---	---	---	---	---	---	4	4	3	12	14	3	20	28	12
Placer gold	12	12	---	---	---	---	3	3	---	1	1	---	---	---	---	1	1	---
Silver ore	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chromite	2	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Manganese ore	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Mercury	---	---	---	1	1	1	---	---	---	---	---	---	1	1	1	1	1	1
Tungsten ore	---	---	---	---	---	---	---	---	---	---	---	---	5	4	5	1	1	1
Limestone, crushed and broken	4	4	4	---	---	---	---	---	---	---	---	---	1	1	1	1	1	1
Granite, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, rough dimension	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---	1	1	1
Slate, crushed and broken	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---	1	1	1
Common sand and gravel	---	---	---	3	3	3	1	2	2	---	---	---	---	---	---	2	2	2
Kaolin and ball clay	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---	7	7	4
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	---
Fuller's earth	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---	1	1	1
Bentonite	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---	3	3	1
Gypsum	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---
Kyanite, andalusite, and dumortierite	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Natural abrasives	---	---	---	1	1	1	---	---	---	---	---	---	4	4	3	2	2	2
Natural sodium compounds	---	---	---	---	---	---	---	---	---	---	---	---	2	2	2	1	2	1
Sulfur	---	---	---	---	---	---	---	---	---	---	---	---	3	3	1	---	---	---
Talc and soapstone	---	---	---	---	---	---	---	---	---	---	---	---	4	4	2	---	---	---

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)

CALIFORNIA—Continued

INDUSTRY	KINGS			LAKE			LASSEN			LOS ANGELES			MADERA			MARIN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	3	---	5	5	5	5	1	1	1	70	52	79	5	5	2	2	2	2
Natural gasoline	3	---	5	---	---	---	---	---	---	25	---	40	---	---	---	---	---	---
Lode gold	---	---	---	---	---	---	---	---	---	1	1	1	2	2	1	---	---	---
Placer gold	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---
Mercury	---	---	---	5	5	5	---	---	---	1	1	1	---	---	---	---	---	---
Limestone, rough dimension	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Granite, crushed and broken	---	---	---	---	---	---	---	---	---	1	1	---	1	1	---	1	1	1
Granite, rough dimension	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sandstone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1
Sandstone, rough dimension	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken	---	---	---	---	---	---	1	1	1	6	6	4	---	---	---	---	---	---
Common sand and gravel	---	---	---	---	---	---	---	---	---	21	29	29	---	---	---	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	11	11	---	---	---	---	---	---	---
Bentonite	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Diatomite	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Natural abrasives	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---
Talc and soapstone	---	---	---	---	---	---	---	---	---	2	1	2	---	---	---	---	---	---

INDUSTRY	MARIPOSA			MERCED			MONO			MONTEREY			NAPA			NEVADA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	26	25	18	7	10	4	9	9	3	5	6	4	10	10	9	32	33	8
Lode gold	19	17	14	---	---	---	6	6	2	---	---	---	---	---	---	17	18	8
Placer gold	3	3	---	5	6	---	---	---	---	---	---	---	---	---	---	14	14	---
Silver ore	---	---	---	---	---	---	1	1	---	---	---	---	1	1	1	---	---	---
Mercury	---	---	---	---	---	---	1	1	1	---	---	---	6	6	5	---	---	---
Tungsten ore	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, crushed and broken	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Basalt, crushed and broken	---	---	---	2	2	2	---	---	---	---	---	---	2	2	2	---	---	---
Sandstone, rough dimension	---	---	---	---	---	---	---	---	---	2	2	---	---	---	---	---	---	---
Common sand and gravel	1	1	1	2	2	2	---	---	---	2	3	3	1	1	1	---	---	---
Barite	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---
Diatomite	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Kyanite, andalusite, and dumortierite	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---
Mica	1	1	1	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---
Natural abrasives	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	ORANGE			PLACER			PLUMAS			RIVERSIDE			SACRAMENTO			SAN BENITO		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	20	16	21	37	36	9	9	9	7	15	17	7	17	26	7	7	6	6
Natural gasoline	7	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lode gold	---	---	---	8	8	7	6	6	6	5	5	3	---	---	---	---	---	---
Placer gold	---	---	---	23	23	---	2	2	---	---	---	---	9	17	---	---	---	---
Copper ore	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
Mercury	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	1	1	1
Limestone, crushed and broken	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---
Granite, crushed and broken	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---
Granite, rough dimension	---	---	---	1	1	---	---	---	---	1	1	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken	2	2	2	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---
Common sand and gravel	4	5	5	1	1	1	---	---	---	1	1	1	6	6	6	---	---	---
Glass sand	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Foundry sand	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---
Kaolin and ball clay	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay	5	6	1	4	3	1	---	---	---	1	1	---	---	---	---	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	3	5	1	1	1	---	---	---	---
Gypsum	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---
Peat	2	2	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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)

CALIFORNIA—Concluded

INDUSTRY	SAN BERNARDINO			SAN DIEGO			SAN FRANCISCO			SAN JOAQUIN			SAN LUIS OBISPO			SAN MATEO		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lode gold	10	10	4	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—
Placer gold	1	1	—	—	—	—	—	—	—	3	3	—	—	—	—	—	—	—
Silver ore	3	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mercury	—	—	—	—	—	—	—	—	—	—	—	—	4	3	3	—	—	—
Tungsten ore	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	5	5	4	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Granite, crushed and broken	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Granite, rough dimension	—	—	—	3	3	—	—	—	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	1	1	—	—	—	—	1	1	1	—	—	—	1	—	1	1	1	1
Miscellaneous stone, crushed and broken	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	2	2	—
Common sand and gravel	6	6	6	4	5	5	—	—	—	6	7	7	1	1	1	1	1	1
Foundry sand	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	1	1	1
Kaolin and ball clay	3	3	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Bentonite	3	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Feldspar	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Natural sodium compounds	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Peat	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Potash	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock salt	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Talc and soapstone	4	5	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tripoli	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	SANTA BARBARA			SANTA CLARA			SANTA CRUZ			SHASTA			SIERRA			SISKIYOU		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	10	4	10	7	8	6	6	7	4	24	28	8	11	9	6	23	23	4
Natural gasoline	6	—	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lode gold	—	—	—	—	—	—	—	—	—	8	10	6	10	8	6	10	10	4
Placer gold	—	—	—	—	—	—	—	—	—	15	16	—	1	1	—	13	13	—
Mercury	1	1	1	3	3	3	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	1	1	1	2	2	1	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—	—	—
Diatomite	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Magnesite and brucite	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Native asphalt and bitumens	1	1	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Peat	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Pyrites	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—

INDUSTRY	SOLANO			SONOMA			STANISLAUS			TEHAMA			TRINITY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	6	6	5	10	10	4	2	2	—	23	22	5
Lode gold	—	—	—	—	—	—	—	—	—	—	—	—	5	4	4
Placer gold	—	—	—	—	—	—	5	5	—	2	2	—	17	17	—
Mercury	—	—	—	3	3	3	—	—	—	—	—	—	1	1	1
Basalt, crushed and broken	1	1	1	1	1	1	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	1	1	—	4	4	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	1	1	1	4	4	4	—	—	—	—	—	—
Magnesite and brucite	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—

INDUSTRY	TULARE			TUOLUMNE			VENTURA			YOLO			YUBA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	21	21	8	17	10	18	2	2	2	10	10	4
Natural gasoline	—	—	—	—	—	—	9	—	11	—	—	—	—	—	—
Lode gold	—	—	—	15	15	6	—	—	—	—	—	—	3	3	2
Placer gold	—	—	—	4	4	—	—	—	—	—	—	—	5	5	—
Mercury	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Tungsten ore	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	1	1	—	1	1	1	—	—	—	—	—	—
Granite, crushed and broken	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Slate, rough dimension	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Marble, crushed and broken	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Common sand and gravel	1	1	1	—	—	—	4	4	4	1	1	1	2	2	2
Kaolin and ball clay	—	—	—	—	—	—	4	4	2	—	—	—	—	—	—
Fire clay	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Gypsum	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—

See footnotes at end of table.

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)

COLORADO

INDUSTRY	STATE			ADAMS			ARAPAHOE			ARCHULETA			BOULDER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	473	544	107	2	4	3	3	3	3	1	1	—	63	80	15
Natural gasoline—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal—	197	211	11	—	—	—	—	—	—	1	1	—	18	18	—
Lode gold—	153	168	43	—	—	—	—	—	—	—	—	—	33	38	6
Placer gold—	21	21	—	1	1	—	—	—	—	—	—	—	—	—	—
Silver ore—	21	27	4	—	—	—	—	—	—	—	—	—	—	—	—
Copper ore—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore—	6	6	2	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore—	5	4	1	—	—	—	—	—	—	—	—	—	—	—	—
Manganese ore—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Molybdenum ore—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Tungsten ore—	8	20	7	—	—	—	—	—	—	—	—	—	8	20	7
Vanadium and uranium ore—	4	4	3	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	9	14	4	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension—	2	3	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken—	3	4	1	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension—	1	1	—	—	—	—	—	—	—	—	—	—	1	1	—
Marble, rough dimension—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	9	14	14	1	3	3	3	3	3	—	—	—	—	—	—
Foundry sand—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Kaolin and ball clay—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay—	8	10	1	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	12	13	2	—	—	—	—	—	—	—	—	—	2	3	—
Barite—	1	2	1	—	—	—	—	—	—	—	—	—	—	—	—
Feldspar—	4	7	—	—	—	—	—	—	—	—	—	—	—	—	—
Fluorspar—	4	4	4	—	—	—	—	—	—	—	—	—	1	1	1
Gypsum—	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—
Mica—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Peat—	1	1	—	—	—	—	—	—	—	—	—	—	1	1	1
Vermiculite—	1	2	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	CHAFFEE			CLEAR CREEK			CUSTER			DELTA			DENVER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	10	10	3	27	26	10	1	2	1	8	8	—	5	6	6
Bituminous coal—	—	—	—	—	—	—	—	—	—	8	8	—	—	—	—
Lode gold—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Placer gold—	2	2	—	25	24	10	—	—	—	—	—	—	—	—	—
Silver ore—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore—	1	1	—	2	2	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Barite—	—	—	—	—	—	—	1	2	1	—	—	—	5	6	6
Fluorspar—	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	DOLORES			DOUGLAS			EAGLE			ELBERT			EL PASO		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	5	4	1	3	3	1	3	3	—	3	3	—	12	14	2
Bituminous coal—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lode gold—	—	—	—	—	—	—	—	—	—	3	3	—	9	9	—
Silver ore—	—	—	—	—	—	—	2	2	—	—	—	—	1	—	1
Zinc ore—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Limestone, crushed and broken—	5	4	1	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay—	—	—	—	1	1	—	—	—	—	—	—	—	2	4	—
Common clay and shale—	—	—	—	1	1	—	—	—	—	—	—	—	1	1	1
Feldspar—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—

INDUSTRY	FREMONT			GARFIELD			GILPIN			GUNNISON			HINSDALE			HUERFANO		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	41	46	5	9	9	—	21	20	6	17	16	3	2	2	1	26	23	4
Bituminous coal—	28	31	1	7	7	—	—	—	—	13	12	—	—	—	—	26	23	4
Lode gold—	—	—	—	1	1	—	15	14	6	2	2	2	1	1	—	—	—	—
Placer gold—	—	—	—	—	—	—	5	5	—	—	—	—	—	—	—	—	—	—
Silver ore—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Lead ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	5	5	2	1	1	—	—	—	—	—	—	—	1	1	1	—	—	—
Granite, rough dimension—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken—	2	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Marble, rough dimension—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay—	1	1	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Feldspar—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gypsum—	3	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mica—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Vermiculite—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)

COLORADO—Concluded

INDUSTRY	JACKSON			JEFFERSON			LAKE			LA PLATA			LARDNER			LAS ANIMAS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	3	5	1	15	19	—	17	18	3	12	12	1	7	6	2	29	28	4
Natural gasoline—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	1	1	—	1
Bituminous coal—	2	2	—	4	4	—	—	—	—	9	9	—	1	1	—	27	27	2
Lode gold—	—	—	—	—	—	—	12	13	2	5	5	1	—	—	—	—	—	—
Placer gold—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Copper ore—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore—	—	—	—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—
Manganese ore—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Molybdenum ore—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Limestones, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	3	3	1	—	—	—
Kaolin and ball clay—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay—	—	—	—	3	3	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	3	3	—	—	—	—	—	—	—	1	1	—	1	1	1
Feldspar—	—	—	—	2	3	—	—	—	—	—	—	—	—	—	—	—	—	—
Gypsum—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—

INDUSTRY	MESA			MINERAL			MORTFAT			MONTEZUMA			MONTROSE			OURAY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	15	15	2	6	12	2	4	4	—	4	4	1	1	2	1	6	7	4
Bituminous coal—	15	13	—	—	—	—	4	4	—	2	2	—	1	1	—	—	—	—
Lode gold—	—	—	—	—	—	—	—	—	—	2	2	1	—	—	—	3	4	3
Silver ore—	—	—	—	5	11	1	—	—	—	2	2	—	—	—	—	3	3	1
Vanadium and uranium ore—	1	1	1	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Common sand and gravel—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fluorspar—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	PARK			PITKIN			PUEBLO			RIO BLANCO			RIO GRANDE			ROUTT		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	15	14	3	5	5	1	7	6	4	1	1	—	2	2	1	13	15	5
Bituminous coal—	—	—	—	1	1	—	1	—	1	1	1	—	—	—	—	13	15	3
Lode gold—	6	5	3	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Placer gold—	9	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Silver ore—	—	—	—	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Common sand and gravel—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Foundry sand—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Fire clay—	—	—	—	—	—	—	3	3	1	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—

INDUSTRY	SAQUACHE			SAN JUAN			SAN MIGUEL			SUMMIT			TELLER			WELD		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	1	1	—	7	7	1	7	7	5	7	7	1	36	47	3	18	19	—
Bituminous coal—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lode gold—	—	—	—	4	4	1	4	4	3	1	1	—	—	—	—	18	19	—
Placer gold—	—	—	—	—	—	—	—	—	—	3	3	—	36	47	5	—	—	—
Silver ore—	1	1	—	2	2	—	1	1	1	2	2	—	—	—	—	—	—	—
Lead ore—	—	—	—	1	1	—	—	—	—	1	1	1	—	—	—	—	—	—
Vanadium and uranium ore—	—	—	—	—	—	—	2	2	1	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

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

INDUSTRY	STATE			FAIRFIELD			HARTFORD		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	52	65	44	8	8	8	18	20	14
Limestone, crushed and broken	4	4	4	2	2	2			
Granite, crushed and broken	1	1	1						
Granite, rough dimension	4	4							
Basalt, crushed and broken	18	18	18	1	1	1	5	7	7
Sandstone, rough dimension	1	1							
Common sand and gravel	20	20	20	5	5	5	8	8	8
Common clay and shale	10	11					8	6	
Feldspar	2	2							
Mica	1	1							
Peat	1	1	1				1	1	1

INDUSTRY	LITCHFIELD			MIDDLESEX			NEW HAVEN			NEW LONDON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	4	4	4	6	6	1	15	19	14	5	6	3
Limestone, crushed and broken	2	2	2									
Granite, crushed and broken										1	1	1
Granite, rough dimension							1	1		3	3	
Basalt, crushed and broken	2	2	2				6	8	8			
Sandstone, rough dimension				1	1							
Common sand and gravel				1	1	1	8	6	6	2	2	2
Common clay and shale				1	1		4	4				
Feldspar				2	2							
Mica				1	1							
Peat												

DELAWARE

INDUSTRY	STATE			NEW CASTLE			SUSSEX		
	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	8	6	1	1	1
Granite, crushed and broken	2	2	2	2	2	2			
Granite, rough dimension	1	1		1	1				
Common sand and gravel	4	4	4	3	3	3	1	1	1
Kaolin and ball clay	1	1	1	1	1	1			
Common clay and shale	1	1		1	1				

DISTRICT OF COLUMBIA

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

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)

FLORIDA

INDUSTRY	STATE			ALACHUA			BROWARD			CITRUS			DADE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	68	85	85	5	5	4	2	3	2	8	8	6	10	13	11
Bauxite—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	25	28	25	4	4	5	1	2	1	1	1	1	7	7	5
Limestone, rough dimension—	3	3	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken—	3	3	3	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	15	16	16	—	—	—	1	1	1	—	—	—	6	6	6
Kaolin and ball clay—	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	3	3	—	—	—	—	—	—	—	1	1	—	—	—	—
Fuller's earth—	2	5	2	—	—	—	—	—	—	—	—	—	—	—	—
Diatomite—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Peat—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Phosphate Rock—	19	25	34	1	1	1	—	—	—	6	6	5	—	—	—

INDUSTRY	ESCAMBA			GADSDEN			HERNANDO			HILLSBOROUGH			LAKE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	2	2	1	5	4	5	3	3	2	1	1	2	1	1	1
Bauxite—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	—	—	—	—	—	—	3	3	2	—	—	—	—	—	—
Limestone, rough dimension—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	1	1	1	1	1	1	—	—	—	—	—	—	—	—	—
Kaolin and ball clay—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	1	1	—	1	1	—	—	—	—	—	—	—	—	—	—
Fuller's earth—	—	—	—	1	2	1	—	—	—	—	—	—	—	—	—
Diatomite—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Peat—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Phosphate Rock—	—	—	—	—	—	—	—	—	—	1	1	2	—	—	—

INDUSTRY	LEVI			MANATEE			MARION			MONROE			NASSAU		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	4	4	4	5	5	1	10	11	11	1	1	—	1	1	1
Bauxite—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	4	4	4	1	1	1	4	5	5	—	—	—	—	—	—
Limestone, rough dimension—	—	—	—	2	2	—	—	—	—	1	1	—	—	—	—
Miscellaneous stone, crushed and broken—	—	—	—	—	—	—	2	2	2	—	—	—	—	—	—
Common sand and gravel—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Kaolin and ball clay—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fuller's earth—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Diatomite—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Peat—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Phosphate Rock—	—	—	—	—	—	—	5	5	5	—	—	—	—	—	—

INDUSTRY	ORANGE			PINELLAS			POLK			PUTNAM			SARASOTA			SUMTER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	1	1	1	1	1	1	11	16	26	4	4	4	1	1	1	1	1	1
Bauxite—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Limestone, rough dimension—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	—	—	—	1	1	1	3	3	3	2	2	2	—	—	—	1	1	1
Kaolin and ball clay—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fuller's earth—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diatomite—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Peat—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Phosphate rock—	—	—	—	—	—	—	8	12	23	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

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)

GEORGIA

INDUSTRY	STATE			BALDWIN			BARTOW			BIBB			BLECKLEY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	92	106	51	1	1	—	16	15	13	4	4	2	1	1	1
Bituminous coal	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Iron ore	4	4	2	—	—	—	3	2	1	—	—	—	—	—	—
Lode gold	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Placer gold	3	5	—	—	—	—	—	—	—	—	—	—	—	—	—
Manganese ore	4	4	5	—	—	—	4	4	3	—	—	—	—	—	—
Limestone, crushed and broken	6	10	10	—	—	—	1	1	1	—	—	—	1	1	1
Granite, crushed and broken	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	12	15	1	—	—	—	—	—	—	—	—	—	—	—	—
Slate, crushed and broken	1	1	1	—	—	—	1	1	1	—	—	—	—	—	—
Marble, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	6	6	8	—	—	—	—	—	—	—	—	—	—	—	—
Kaolin and ball clay	19	21	12	1	1	—	—	—	—	1	1	1	—	—	—
Common clay and shale	11	11	2	—	—	—	—	—	—	3	3	1	—	—	—
Fuller's earth	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Asbestos	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Barite	7	7	7	—	—	—	7	7	7	—	—	—	—	—	—
Kyanite, andalusite, and demortierite	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Mica	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Talc and soapstone	4	5	5	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	CHEROKEE			CLARKE			COLUMBIA			CRAWFORD			DADE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	—	1	1	1	1	1	—	1	1	1	1	1	—
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Granite, crushed and broken	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Kaolin and ball clay	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Talc and soapstone	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	DECATUR			DE KALB			ELBERT			FLOYD			FULTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	5	5	3	7	9	—	1	1	—	1	1	—
Granite, crushed and broken	—	—	—	2	2	2	—	—	—	—	—	—	—	—	—
Granite, rough dimension	—	—	—	3	3	1	7	9	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	1	1	—	1	1	—
Fuller's earth	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	GILMER			GLASCOCK			GORDON			HABERSHAM			HALL		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	1	1	—	1	1	—	2	3	2	1	1	—
Limestone, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Kaolin and ball clay	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	1	1	—	—	—	—	1	1	—
Kyanite, andalusite, and demortierite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mica	—	—	—	—	—	—	—	—	—	2	2	2	—	—	—

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)

GEORGIA—Concluded

INDUSTRY	HANCOCK			HENRY			HOUSTON			McDUFFIE			MADISON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	2	2	—	1	1	1	2	4	3	1	1	1	1	1	—
Lode gold—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Limestone, crushed and broken—	—	—	—	—	—	—	2	3	3	—	—	—	—	—	—
Granite, crushed and broken—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Granite, rough dimension—	1	1	—	—	—	—	—	—	—	—	—	—	1	1	—
Kaolin and ball clay—	1	1	—	—	—	—	1	1	—	—	—	—	—	—	—
INDUSTRY	MURRAY			MUSCOOGEE			OGLETHORPE			PICKENS			POLK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	3	3	3	1	1	1	1	1	—	4	4	1	2	2	2
Iron ore—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Limestone, crushed and broken—	—	—	—	—	—	—	—	—	—	1	1	1	1	1	1
Granite, rough dimension—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Marble, rough dimension—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Miscellaneous stone, crushed and broken—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Common sand and gravel—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Talc and soapstone—	3	3	3	—	—	—	—	—	—	1	1	—	—	—	—
INDUSTRY	RABUN			RICHMOND			TALBOT			TAYLOR					
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	2	2	2	5	5	3	2	2	2	—	1	1	—	—	—
Limestone, crushed and broken—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	—	—	—	1	1	1	2	2	2	—	—	—	—	—	—
Kaolin and ball clay—	—	—	—	1	1	1	—	—	—	—	—	—	1	1	1
Common clay and shale—	—	—	—	3	3	1	—	—	—	—	—	—	—	—	—
Asbestos—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
INDUSTRY	THOMAS			TWIGGS			WALKER			WARREN					
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	1	3	3	4	4	4	3	3	1	1	1	—	—	—	—
Bituminous coal—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Iron ore—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Limestone, crushed and broken—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Granite, crushed and broken—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Common sand and gravel—	1	3	3	—	—	—	—	—	—	—	—	—	—	—	—
Kaolin and ball clay—	—	—	—	3	3	3	—	—	—	—	—	—	—	—	—
Fuller's earth—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
INDUSTRY	WASHINGTON			WHITE			WHITFIELD			WILKINSON					
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	3	3	3	3	3	—	1	1	—	8	8	—	—	—	—
Placer gold—	—	—	—	5	3	—	—	—	—	—	—	—	—	—	—
Kaolin and ball clay—	3	3	3	—	—	—	—	—	—	7	7	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Fuller's earth—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—

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: 1939—Continued

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

IDAHO

INDUSTRY	STATE			ADA			ADAMS			BANNOCK			BLAINE			BOISE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	98	105	48	1	1	1	1	1	—	1	1	1	5	5	1	9	9	4
Bituminous coal	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lode gold	36	35	25	—	—	—	1	1	—	—	—	—	5	2	1	5	5	4
Placer gold	23	27	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	—
Silver ore	9	8	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Copper ore	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore	13	16	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore	9	8	3	—	—	—	—	—	—	—	—	—	2	1	—	—	—	—
Mercury	2	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tungsten ore	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	5	4	4	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Common sand and gravel	1	1	1	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Phosphate rock	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	BONNER			BOUNDARY			CAMAS			CANYON			CARIBOU			CLEARWATER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	3	5	2	2	2	1	1	1	—	1	1	—	1	1	1	5	4	3
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lode gold	—	—	—	1	1	—	1	1	—	—	—	—	—	—	—	1	1	1
Placer gold	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	1	1	—
Silver ore	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Copper ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore	2	2	2	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mercury	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tungsten ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	2	2
Common sand and gravel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Phosphate rock	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—

INDUSTRY	CUSTER			ELMORE			GEM			IDAHO			KOOTENAI			LATON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	7	7	1	5	5	2	1	1	1	19	21	7	1	1	1	1	1	—
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lode gold	3	3	—	2	2	2	1	1	1	8	8	7	—	—	—	—	—	—
Placer gold	—	—	—	5	5	—	—	—	—	12	13	—	—	—	—	—	—	—
Silver ore	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Copper ore	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mercury	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tungsten ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Fire clay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Phosphate rock	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	LEWIS			OWYHEE			SHOSHONE			TETON			VALLEY			WASHINGTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	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	6	5	4	1	21	25	13	1	1	—	2	2	1	2	1	1
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lode gold	6	6	5	2	1	1	1	1	—	1	1	—	2	2	1	—	—	—
Placer gold	1	1	—	3	3	—	1	1	—	—	—	—	—	—	—	—	—	—
Silver ore	—	—	—	—	—	—	7	8	5	—	—	—	—	—	—	—	—	—
Copper ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore	1	1	—	—	—	—	7	10	5	—	—	—	—	—	—	—	—	—
Zinc ore	—	—	—	—	—	—	7	7	3	—	—	—	—	—	—	—	—	—
Mercury	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	1	1
Tungsten ore	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Phosphate rock	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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: 1939²—Continued

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

ILLINOIS

INDUSTRY	STATE			ADAMS			ALEXANDER			BOND			BOONE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	749	785	287	6	7	6	4	6	4	2	2	1	1	1	1
Natural gasoline-----	22	---	55	---	---	---	---	---	---	---	---	---	---	---	---
Bituminous coal-----	528	548	45	1	1	---	---	---	---	1	1	---	---	---	---
Limestone, crushed and broken-----	65	71	70	4	5	5	---	---	---	---	---	---	---	---	---
Limestone, rough dimension-----	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken-----	2	2	2	---	---	---	1	1	1	---	---	---	---	---	---
Common sand and gravel-----	61	75	75	1	1	1	1	1	1	---	---	---	---	---	---
Glass sand-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Foundry sand-----	15	19	17	---	---	---	---	---	---	1	1	1	---	---	---
Fire clay-----	8	10	5	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	30	35	6	---	---	---	---	---	---	---	---	---	1	1	1
Fuller's earth-----	2	2	2	---	---	---	---	---	---	---	---	---	---	---	---
Fluorspar-----	18	18	15	---	---	---	---	---	---	---	---	---	---	---	---
Tripoli-----	2	4	2	---	---	---	2	4	2	---	---	---	---	---	---

INDUSTRY	BUREAU			CARROLL			CASS			CHRISTIAN			CLARK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	10	10	5	1	1	1	1	1	1	4	7	1	5	5	5
Bituminous coal-----	5	5	---	---	---	---	---	---	---	4	7	1	---	---	---
Limestone, crushed and broken-----	---	---	---	1	1	1	---	---	---	---	---	---	5	5	5
Common sand and gravel-----	2	2	2	---	---	---	---	---	---	---	---	---	---	---	---
Foundry sand-----	5	5	5	---	---	---	1	1	1	---	---	---	---	---	---

INDUSTRY	CLINTON			COOK			CRAWFORD			CUMBERLAND			DU PAGE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	4	4	2	15	17	6	18	2	43	1	---	1	2	4	4
Natural gasoline-----	---	---	---	---	---	---	16	---	42	1	---	1	---	---	---
Bituminous coal-----	2	2	---	---	---	---	1	1	---	---	---	---	---	---	---
Limestone, crushed and broken-----	2	2	2	4	5	5	---	---	---	---	---	---	1	1	1
Limestone, rough dimension-----	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	1	1	1	1	1	1	---	---	---	2	3	5
Common clay and shale-----	---	---	---	9	10	---	---	---	---	---	---	---	---	---	---

INDUSTRY	EDGAR			EDWARDS			FAYETTE			FRANKLIN			FULTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	3	3	---	1	2	---	4	4	5	6	12	8	59	50	5
Natural gasoline-----	---	---	---	---	---	---	1	---	1	---	---	---	---	---	---
Bituminous coal-----	5	5	---	---	---	---	---	---	---	6	12	8	59	59	4
Common sand and gravel-----	---	---	---	---	---	---	1	1	1	---	---	---	1	1	1
Foundry sand-----	---	---	---	---	---	---	1	2	2	---	---	---	---	---	---
Common clay and shale-----	---	---	---	1	2	---	1	1	1	---	---	---	---	---	---

INDUSTRY	GALLATIN			GREENE			GRUNDY			HAMILTON			HANCOCK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	5	5	1	4	4	2	7	6	1	1	1	1	2	2	1
Bituminous coal-----	4	4	---	1	1	---	6	5	---	---	---	---	1	1	---
Limestone, crushed and broken-----	---	---	---	2	2	2	---	---	---	---	---	---	1	1	1
Common sand and gravel-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Common clay and shale-----	---	---	---	1	1	---	---	---	---	1	1	1	---	---	---

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)

ILLINOIS—Continued

INDUSTRY	HARDIN			HENDERSON			HENRY			JACKSON			JEFFERSON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	19	20	14	4	4	4	15	14	1	15	15	3	1	1	—
Bituminous coal	—	—	—	—	—	—	15	14	1	15	15	2	1	1	—
Limestone, crushed and broken	2	2	2	2	2	2	—	—	—	1	1	1	—	—	—
Miscellaneous stone, crushed and broken	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Foundry sand	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Fluorspar	17	18	12	—	—	—	—	—	—	—	—	—	—	—	—
INDUSTRY	JERSEY			JOHNSON			KANE			KANKAKEE			KENDALL		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	5	5	5	2	2	2	5	5	2	2	2	2
Limestone, crushed and broken	2	2	2	5	5	5	—	—	—	1	1	1	1	1	1
Common sand and gravel	—	—	—	—	—	—	2	2	2	—	—	—	1	1	1
Foundry sand	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	3	3	—	—	—	—
INDUSTRY	KNOX			LAKE			LA SALLE			LAWRENCE			LEE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	10	10	1	1	1	1	54	57	21	7	5	9	5	5	2
Natural gasoline	—	—	—	—	—	—	—	—	—	4	—	8	—	—	—
Bituminous coal	9	9	1	—	—	—	18	12	1	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	4	4	4	—	—	—	2	2	1
Common sand and gravel	—	—	—	1	1	1	7	7	7	3	5	5	1	1	1
Glass sand	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Foundry sand	—	—	—	—	—	—	5	7	6	—	—	—	—	—	—
Fire clay	—	—	—	—	—	—	5	5	1	—	—	—	—	—	—
Common clay and shale	1	1	—	—	—	—	5	5	1	—	—	—	—	—	—
INDUSTRY	LIVINGSTON			LOGAN			McDONOUGH			McHENRY			McLEAN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	6	6	3	4	4	2	2	4	—	3	3	3	2	2	2
Bituminous coal	5	5	—	2	2	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	3	3	3	1	1	1	—	—	—	1	1	1	—	—	—
Common sand and gravel	—	—	—	1	1	1	—	—	—	2	2	2	2	2	2
Fire clay	—	—	—	—	—	—	2	4	—	—	—	—	—	—	—
INDUSTRY	MACON			MACOUPIN			MADISON			MARION			MARSHALL		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	1	10	12	1	22	25	6	3	1	5	1	1	—
Natural gasoline	—	—	—	—	—	—	—	—	—	2	—	2	—	—	—
Bituminous coal	1	1	—	10	12	1	18	18	2	1	1	1	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	2	2	2	—	—	—	—	—	—
Common sand and gravel	1	1	1	—	—	—	1	1	1	—	—	—	—	—	—
Fire clay	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	1	1	—	—	—	—	1	1	—

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: 1939—Continued

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

ILLINOIS—Concluded

INDUSTRY	MASSAC			MENARD			MERCER			MONROE			MONTGOMERY					
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants			
All industries, total	1	1	1	12	12	1	8	8	-----	3	4	4	3	3	-----			
Bituminous coal	-----	-----	-----	10	10	-----	7	7	-----	-----	-----	-----	3	3	-----			
Limestone, crushed and broken	-----	-----	-----	1	1	1	-----	-----	-----	3	4	4	-----	-----	-----			
Common sand and gravel	1	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
Common clay and shale	-----	-----	-----	1	1	-----	1	1	-----	-----	-----	-----	-----	-----	-----			
INDUSTRY	MORGAN			OGLE			PEORIA			PERRY			PIKE					
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants			
All industries, total	2	1	-----	3	3	3	52	51	7	23	22	5	1	1	1			
Bituminous coal	2	1	-----	-----	-----	-----	45	44	-----	22	21	4	-----	-----	-----			
Limestone, crushed and broken	-----	-----	-----	-----	-----	-----	3	5	3	1	1	1	-----	-----	-----			
Common sand and gravel	-----	-----	-----	3	3	3	4	4	4	-----	-----	-----	1	1	1			
INDUSTRY	POPE			PULASKI			RANDOLPH			ROCK ISLAND			ST. CLAIR					
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants			
All industries, total	1	-----	1	2	2	2	14	14	5	10	11	8	51	58	15			
Bituminous coal	-----	-----	-----	-----	-----	-----	12	12	3	5	5	-----	54	51	9			
Limestone, crushed and broken	-----	-----	-----	-----	-----	-----	1	1	1	1	1	1	5	5	5			
Common sand and gravel	-----	-----	-----	-----	-----	-----	1	1	1	4	5	5	-----	-----	-----			
Common clay and shale	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	2	2	1			
Fuller's earth	-----	-----	-----	2	2	2	-----	-----	-----	-----	-----	-----	-----	-----	-----			
Fluorspar	1	-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
INDUSTRY	SALINE			SANGAMON			SCHUYLER			SCOTT			SHELBY			STARK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	17	22	3	22	26	2	10	10	-----	3	3	1	5	5	-----	6	5	-----
Bituminous coal	16	21	3	16	22	-----	10	10	-----	1	1	-----	5	5	-----	6	5	-----
Common sand and gravel	-----	-----	-----	2	2	2	-----	-----	-----	1	1	1	-----	-----	-----	-----	-----	-----
Fire clay	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	-----	-----	-----	-----	-----	-----	-----
Common clay and shale	1	1	-----	2	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
INDUSTRY	TAZEWELL			UNION			VERMILION			WABASH			WARREN			WASHINGTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	10	10	5	1	1	1	55	54	2	7	6	3	3	3	1	7	7	3
Natural gasoline	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	-----	-----	-----	-----	-----	-----
Bituminous coal	4	4	-----	-----	-----	-----	55	51	1	4	4	-----	2	2	-----	5	5	1
Limestone, crushed and broken	-----	-----	-----	1	1	1	1	1	1	-----	-----	-----	1	1	1	2	2	2
Common sand and gravel	5	5	5	-----	-----	-----	-----	-----	-----	2	2	2	-----	-----	-----	-----	-----	-----
Common clay and shale	1	1	1	-----	-----	-----	1	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
INDUSTRY	WHITE			WHITESIDE			WILL			WILLIAMSON			WINNEBAGO			WOODFORD		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	4	4	3	3	3	3	8	9	7	73	69	1	6	6	6	3	3	1
Bituminous coal	1	1	-----	-----	-----	-----	2	2	1	73	69	1	-----	-----	-----	2	2	-----
Limestone, crushed and broken	-----	-----	-----	1	1	1	2	2	2	-----	-----	-----	-----	-----	-----	-----	-----	-----
Common sand and gravel	3	3	3	2	2	2	2	3	3	-----	-----	-----	5	5	5	1	1	1
Foundry sand	-----	-----	-----	-----	-----	-----	2	2	1	-----	-----	-----	1	1	1	-----	-----	-----

See footnotes at end of table.

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)

INDIANA

INDUSTRY	STATE			ADAMS			ALLEN			BARTHOLOMEW			CASS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	408	455	153	3	4	4	2	2	2	2	2	2	3	3	3
Bituminous coal-----	248	286	16	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	57	70	63	2	3	3	---	---	---	1	1	1	2	2	2
Limestone, rough dimension-----	14	16	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	54	87	87	1	1	1	2	2	2	1	1	1	1	1	1
Foundry sand-----	6	6	4	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	9	9	1	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	19	19	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives-----	2	2	2	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	CLARK			CLAY			CRAWFORD			DAVIESS			DEARBORN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	4	5	4	46	46	---	1	1	1	9	9	2	2	2	2
Bituminous coal-----	---	---	---	42	42	---	---	---	---	7	7	---	---	---	---
Limestone, crushed and broken-----	4	5	4	---	---	---	1	1	1	1	1	1	---	---	---
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	---	---	---	1	1	1	2	2	2
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	2	2	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	2	2	---	---	---	---	---	---	---	---	---	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	DECATUR			DE KALE			DELAWARE			DUBOIS			ELKHART		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	8	8	8	1	1	1	4	4	4	12	12	2	1	1	1
Bituminous coal-----	---	---	---	---	---	---	---	---	---	5	5	---	---	---	---
Limestone, crushed and broken-----	8	8	8	---	---	---	1	1	1	2	2	2	---	---	---
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	1	1	1	8	3	3	---	---	---	1	1	1
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	---	---	---	---	---	---	4	4	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	FAYETTE			FLOYD			FOUNTAIN			FRANKLIN			GIBSON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	1	1	1	1	14	14	1	1	1	1	6	6	3
Bituminous coal-----	---	---	---	---	---	---	11	11	---	---	---	---	5	5	2
Limestone, crushed and broken-----	---	---	---	---	---	---	---	---	---	2	1	1	---	---	---
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	1	1	1	---	---	---	1	1	1	---	---	---	1	1	1
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	2	2	---	---	---	---	---	---	---
Natural abrasives-----	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---

INDUSTRY	GRANT			GREENE			HAMILTON			HANCOCK			HARRISON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	4	4	4	28	33	6	1	1	1	1	1	1	4	4	4
Bituminous coal-----	---	---	---	26	31	5	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---	4	4	4
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	3	3	3	1	1	1	1	1	1	1	1	1	---	---	---
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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)

INDIANA—Continued

INDUSTRY	HENRY			HOWARD			HUNTINGTON			JACKSON			JASPER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	1	1	1	1	3	3	2	3	3	1	1	1	1
Bituminous coal-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	---	---	---	---	---	---	2	2	1	---	---	---	1	1	1
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	1	1	1	1	1	1	1	1	1	1	1	1	---	---	---
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	2	2	---	---	---	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	JAY			JEFFERSON			JENNINGS			KNOX			KOSCIUSKO		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	2	2	1	1	1	1	1	1	1	16	16	4	2	2	2
Bituminous coal-----	---	---	---	---	---	---	---	---	---	14	14	2	---	---	---
Limestone, crushed and broken-----	1	1	1	1	1	1	1	1	1	---	---	---	---	---	---
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	---	---	---	2	2	2	2	2	2
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	LAKE			LA PORTE			LAWRENCE			MADISON			MARION		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	4	4	2	2	2	---	3	4	2	3	4	3	5	7	6
Bituminous coal-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	---	---	---	---	---	---	1	2	2	1	1	---	---	---	---
Limestone, rough dimension-----	---	---	---	---	---	---	2	2	---	---	---	---	---	---	---
Common sand and gravel-----	1	1	1	---	---	---	---	---	---	2	3	3	4	6	6
Foundry sand-----	1	1	1	2	2	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	2	2	---	---	---	---	---	---	---	---	---	---	1	1	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	MARSHALL			MARTIN			MIAMI			MONROE			MONTGOMERY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	---	6	6	1	2	2	2	13	14	1	2	2	1
Bituminous coal-----	---	---	---	5	5	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	---	---	---	1	1	1	---	---	---	1	1	1	1	1	1
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	12	13	---	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	2	2	2	---	---	---	---	---	---
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	1	1	---	---	---	---	---	---	---	---	---	---	1	1	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	MORGAN			NEWTON			ORANGE			OWEN			PARKE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	4	4	1	1	1	1	3	3	2	6	6	3	13	13	---
Bituminous coal-----	---	---	---	---	---	---	---	---	---	2	2	---	13	13	---
Limestone, crushed and broken-----	---	---	---	1	1	1	2	2	1	2	2	2	---	---	---
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---
Foundry sand-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	3	3	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives-----	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---

See footnotes at end of table.

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)

INDIANA—Concluded

INDUSTRY	FERRY			FIKE			PORTER			POSKEY			PUTNAM		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	8	8	1	19	20	2	1	1	1	2	2	2	3	3	3
Bituminous coal-----	6	6	---	19	20	2	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	1	1	1	---	---	---	---	---	---	1	1	1	3	3	3
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	1	1	1	1	1	1	---	---	---
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	RANDOLPH			RIPLEY			RUSH			ST. JOSEPH			SCOTT		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	2	2	2	4	4	4	1	1	1	2	2	2	1	1	1
Bituminous coal-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	2	2	2	4	4	4	1	1	1	---	---	---	1	1	1
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	---	---	---	2	2	2	---	---	---
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	SHELBY			SPENCER			STARKE			SULLIVAN			TIPPECANOE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	2	2	2	6	6	2	1	1	1	24	24	3	1	1	1
Bituminous coal-----	---	---	---	4	4	---	---	---	---	23	23	2	---	---	---
Limestone, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	2	2	2	---	---	---	1	1	1	1	1	1	1	1	1
Foundry sand-----	---	---	---	2	2	2	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	VANDERBURGH			VERMILION			VIGO			WABASH			WARREN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	5	5	3	17	18	4	37	38	5	4	4	2	7	5	2
Bituminous coal-----	1	1	---	12	13	---	33	32	2	---	---	---	5	3	---
Limestone, crushed and broken-----	---	---	---	---	---	---	---	---	---	4	4	2	---	---	---
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	3	3	3	3	3	3	3	3	3	---	---	---	2	2	2
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	2	2	1	---	---	---	---	---	---	---	---	---
Common clay and shale-----	1	1	---	---	---	---	1	1	---	---	---	---	---	---	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	WARRICK			WASHINGTON			WAYNE			WELLS			WHITE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	29	29	1	2	2	1	4	4	4	2	2	2	2	2	2
Bituminous coal-----	29	29	1	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	---	---	---	2	2	1	---	---	---	2	2	2	2	2	2
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	4	4	4	---	---	---	---	---	---
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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)

IOWA

INDUSTRY	STATE			ADAMS			APPANOOSE			BENTON			BLACK HAWK			BOONE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	365	383	91	10	10	1	55	57	---	1	1	1	4	4	4	15	14	1
Bituminous coal-----	284	271	---	9	9	---	54	56	---	---	---	---	---	---	---	14	13	---
Limestone, crushed and broken-----	38	38	35	---	---	---	---	---	---	1	1	1	1	1	1	---	---	---
Common sand and gravel-----	33	43	43	1	1	1	---	---	---	---	---	---	3	3	3	---	---	---
Foundry sand-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	20	20	5	---	---	---	1	1	---	---	---	---	---	---	---	1	1	1
Gypsum-----	9	8	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peat-----	2	2	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	BREMER			BUTLER			CARROLL			CERRO GORDO			CHEROKEE			CLARKE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	1	1	1	1	1	1	1	6	7	6	2	2	2	1	1	1
Bituminous coal-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	1	1	1	---	---	---	---	---	---	3	3	3	---	---	---	1	1	1
Common sand and gravel-----	---	---	---	1	1	1	1	1	1	2	2	2	2	2	2	---	---	---
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	2	2	1	---	---	---	---	---	---
Gypsum-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peat-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	CLAYTON			CLINTON			DALLAS			DAVIS			DES MOINES			DICKINSON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	2	2	1	2	2	2	7	7	1	1	1	---	1	1	1	1	1	1
Bituminous coal-----	---	---	---	---	---	---	3	3	---	1	1	---	---	---	---	---	---	---
Limestone, crushed and broken-----	1	1	---	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	2	2	2	---	---	---	---	---	---	1	1	1	1	1	1
Foundry sand-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	3	3	---	---	---	---	---	---	---	---	---	---
Gypsum-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peat-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	DUBUQUE			EMMET			FAYETTE			FLOYD			FRANKLIN			OSKEWA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	2	2	2	1	1	1	1	1	1	1	1	1	1	1	---	5	5	---
Bituminous coal-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5	5	---
Limestone, crushed and broken-----	1	1	1	---	---	---	1	1	1	1	1	1	---	---	---	---	---	---
Common sand and gravel-----	1	1	1	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---
Gypsum-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peat-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	GUTHRIE			HARDIN			HUMBOLDT			IOWA			JACKSON			JASPER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	4	4	---	3	3	3	1	1	1	1	1	---	4	4	4	5	5	---
Bituminous coal-----	4	4	---	---	2	2	---	---	---	---	---	---	---	---	---	5	5	---
Limestone, crushed and broken-----	---	---	---	2	2	2	---	---	---	---	---	---	2	2	2	---	---	---
Common sand and gravel-----	---	---	---	1	1	1	1	1	1	---	---	---	2	2	2	---	---	---
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---
Gypsum-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peat-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

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: 1939—Continued

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

IOWA—Concluded

INDUSTRY	JEFFERSON			JOHNSON			JONES			KEOKUK			LINN			LUCAS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	---	3	3	3	3	3	2	2	2	1	5	6	5	6	6	---
Bituminous coal	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	5	6	---
Limestone, crushed and broken	---	---	---	1	1	1	3	3	2	1	1	1	4	4	3	---	---	---
Common sand and gravel	---	---	---	2	2	2	---	---	---	---	---	---	2	2	2	---	---	---
Foundry sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---
Gypsum	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peat	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	LYON			MADISON			MAHASKA			MARION			MARSHALL			MITCHELL		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	1	1	1	26	26	2	59	59	---	4	5	5	1	1	1
Bituminous coal	---	---	---	---	---	---	23	23	---	59	59	---	---	---	---	---	---	---
Limestone, crushed and broken	---	---	---	1	1	1	1	1	1	---	---	---	2	2	2	1	1	1
Common sand and gravel	1	1	1	---	---	---	1	---	1	---	---	---	2	3	3	---	---	---
Foundry sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---
Gypsum	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peat	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	MONROE			MUSCATINE			OSCEOLA			PAGE			POLK			SAC		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	16	16	---	4	4	4	1	1	1	5	8	---	20	20	4	2	2	2
Bituminous coal	16	16	---	---	---	---	---	---	---	5	8	---	13	13	---	---	---	---
Limestone, crushed and broken	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel	---	---	---	3	3	3	1	1	1	---	---	---	4	4	4	2	2	2
Foundry sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	3	3	---	---	---	---
Gypsum	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peat	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	SCOTT			SIOUX			TAMA			TAYLOR			VAN BUREN			WAPELLO		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	1	1	1	1	1	1	3	3	---	7	8	2	26	29	2
Bituminous coal	---	---	---	---	---	---	---	---	---	3	3	---	5	6	---	27	27	---
Limestone, crushed and broken	2	2	2	---	---	---	---	---	---	---	---	---	1	1	1	1	1	1
Common sand and gravel	---	---	---	1	1	1	1	1	1	---	---	---	1	1	1	1	1	1
Foundry sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Gypsum	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peat	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	WARREN			WASHINGTON			WAYNE			WEBSTER			WOODBURY			WORTH		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	6	6	---	1	1	1	5	5	---	18	17	9	2	2	---	3	3	3
Bituminous coal	6	6	---	---	---	---	5	5	---	4	4	---	---	---	---	---	---	---
Limestone, crushed and broken	---	---	---	1	1	1	---	---	---	1	1	1	---	---	---	1	1	1
Common sand and gravel	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Foundry sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	4	4	3	2	2	---	---	---	---
Gypsum	---	---	---	---	---	---	---	---	---	9	8	5	---	---	---	---	---	---
Peat	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	2

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)

KANSAS

INDUSTRY	STATE ²			ALLEN			ANDERSON			ATCHISON			BARBER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	210	212	124	3	3	2	1	1	1	1	1	1	2	1	2
Natural gasoline	11	—	18	—	—	—	—	—	—	—	—	—	1	—	1
Bituminous coal	91	93	6	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore	28	26	20	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	25	27	24	2	2	2	1	1	1	—	—	—	—	—	—
Limestone, rough dimension	7	7	2	—	—	—	—	—	—	1	1	1	—	—	—
Sandstone, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	35	38	38	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	6	8	2	1	1	—	—	—	—	—	—	—	—	—	—
Gypsum	2	2	2	—	—	—	—	—	—	—	—	—	1	1	1
Native asphalt and bitumens	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Natural abrasives	3	3	3	—	—	—	—	—	—	—	—	—	—	—	—
Pyrites	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Rock salt	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Tripoli	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	BARTON			BOURBON			BUTLER			CHEROKEE ³			CLOUD		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	5	5	2	3	3	3	40	39	24	1	1	1
Bituminous coal	—	—	—	4	4	1	—	—	—	11	11	2	—	—	—
Zinc ore	—	—	—	—	—	—	—	—	—	26	26	20	—	—	—
Limestone, crushed and broken	—	—	—	1	1	1	3	3	3	—	—	—	—	—	—
Common sand and gravel	2	2	2	—	—	—	—	—	—	—	—	—	1	1	1
Common clay and shale	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Pyrites	—	—	—	—	—	—	—	—	—	1	—	1	—	—	—
Tripoli	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—

INDUSTRY	COWLEY			CRAWFORD			DONIPHAN			DOUGLAS			ELK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	7	4	4	43	43	3	2	2	1	1	1	1	1	1	1
Natural gasoline	3	—	3	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal	—	—	—	42	42	3	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	1	1	1	—	—	—	1	1	1
Limestone, rough and dimension	3	3	—	—	—	—	1	1	—	—	—	—	—	—	—
Common sand and gravel	1	1	1	—	—	—	—	—	—	1	1	1	—	—	—
Common clay and shale	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—

INDUSTRY	ELLSWORTH			FRANKLIN			GEARY			GREENWOOD			HARPER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	5	5	1	1	1	1	2	—	4	1	1	1
Natural gasoline	—	—	—	—	—	—	—	—	—	2	—	4	—	—	—
Bituminous coal	—	—	—	4	4	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	1	1	1	—	—	—	1	1	1
Rock salt	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	HARVEY			JEWELL			JOHNSON			KINGMAN			LABETTE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	1	1	—	5	5	4	1	—	1	5	5	1
Natural gasoline	—	—	—	—	—	—	—	—	—	1	—	1	—	—	—
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	4	4	—
Limestone, crushed and broken	—	—	—	1	1	—	1	1	1	—	—	—	1	1	1
Limestone, rough dimension	—	—	—	—	—	—	2	2	1	—	—	—	—	—	—
Common sand and gravel	1	1	1	—	—	—	2	2	2	—	—	—	—	—	—

See footnotes at end of table.

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)

KANSAS—Concluded

INDUSTRY	LEAVENWORTH			LINCOLN			LINN			LYON			MC PHERSON			MARSHALL		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	2	2	---	1	1	1	9	9	1	1	1	1	2	---	2	5	5	5
Natural gasoline-----	---	---	---	---	---	---	---	---	---	---	---	---	2	---	2	---	---	---
Bituminous coal-----	1	1	---	---	---	---	8	8	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	1	1	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Sandstone, crushed and broken-----	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---	2	2	2
Common sand and gravel-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1
Gypsum-----	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
Native asphalt and bitumens-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	MEADE			MONTGOMERY			NEOSHO			NORTON			OSAGE			PAWNEE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	2	2	2	3	3	2	2	3	2	1	1	1	18	19	---	1	1	1
Bituminous coal-----	---	---	---	---	---	---	---	---	---	---	---	---	18	19	---	---	---	---
Limestone, crushed and broken-----	---	---	---	1	1	1	2	2	2	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	2	2	1	1	1	---	---	---	---	---	---	---	1	1	1
Common clay and shale-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives-----	2	2	2	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---

INDUSTRY	PHILLIPS			RENO			REEB			RILEY			SALINE			SEDGWICK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	---	8	4	7	5	4	4	1	1	1	1	1	1	7	6	7
Natural gasoline-----	---	---	---	2	---	3	---	---	---	---	---	---	---	---	---	1	---	1
Limestone, crushed and broken-----	1	1	---	---	---	---	2	2	2	---	---	---	---	---	---	6	6	6
Common sand and gravel-----	---	---	---	3	3	3	2	2	2	1	1	1	1	1	1	---	---	---
Rock salt-----	---	---	---	1	1	1	3	2	2	---	---	---	---	---	---	---	---	---

INDUSTRY	SEWARD			SHAWNEE			STEVENS			SUMNER			WILSON			WYANDOTTE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	---	1	7	8	8	1	---	1	3	2	3	2	3	2	8	9	9
Natural gasoline-----	1	---	1	---	---	---	1	---	1	1	---	1	---	---	---	---	---	---
Limestone, crushed and broken-----	---	---	---	4	4	4	---	---	---	---	---	---	1	1	1	3	3	3
Common sand and gravel-----	---	---	---	4	4	4	---	---	---	2	2	2	---	---	---	5	6	6
Common clay and shale-----	---	---	---	---	---	---	---	---	---	---	---	---	2	2	1	---	---	---

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)

KENTUCKY

INDUSTRY	STATE			ALLEN			ANDERSON			BARREN			BELL		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation 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	424	478	12	—	—	—	—	—	—	—	—	—	49	49	1
Zinc ore	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	45	56	66	1	1	1	1	1	1	1	1	1	—	—	—
Limestone, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	10	12	12	—	—	—	—	—	—	—	—	—	—	—	—
Foundry sand	3	3	1	—	—	—	—	—	—	—	—	—	—	—	—
Kaolin and ball clay	4	4	2	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	10	14	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	9	9	2	—	—	—	—	—	—	—	—	—	—	—	—
Fluorspar	30	30	32	—	—	—	—	—	—	—	—	—	—	—	—
Native asphalt and bitumens	3	5	2	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	BOYD			BOYLE			BREATHITT			BECKINRIDGE			BUTLER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	11	10	1	1	1	1	4	4	—	2	2	2	6	6	—
Natural gasoline	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal	9	9	—	—	—	—	4	4	—	—	—	—	6	6	—
Limestone, crushed and broken	—	—	—	1	1	1	—	—	—	2	2	2	—	—	—
Common clay and shale	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	CALDWELL			CAMPBELL			CARROLL			CARTER			CHRISTIAN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	6	5	5	1	1	—	1	1	1	14	16	4	6	5	2
Bituminous coal	—	—	—	—	—	—	—	—	—	3	3	—	3	3	—
Zinc ore	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	1	1	1	—	—	—	—	—	—	2	3	3	2	2	2
Common sand and gravel	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Foundry sand	—	—	—	1	1	—	—	—	—	1	1	1	—	—	—
Fire clay	—	—	—	—	—	—	—	—	—	6	11	—	—	—	—
Fluorspar	4	3	3	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	CLARK			CLAY			CLINTON			CRITTENDEN			DAVIESS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	1	2	9	9	—	1	1	1	22	19	20	17	18	1
Natural gasoline	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal	—	—	—	9	9	—	—	—	—	—	—	—	18	17	—
Limestone, crushed and broken	1	1	1	—	—	—	1	1	1	1	1	1	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Fluorspar	—	—	—	—	—	—	—	—	—	21	18	19	—	—	—

INDUSTRY	EDMONSON			ELLIOTT			FAYETTE			FLEMING			FLOYD		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	1	1	—	3	3	2	1	1	1	20	23	3
Bituminous coal	—	—	—	1	1	—	2	2	2	—	—	—	20	23	3
Limestone, crushed and broken	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Limestone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Native asphalt and bitumens	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

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)

KENTUCKY—Continued

INDUSTRY	FRANKLIN			FULTON			GRAVES			GRAYSON			GREENUP		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	2	2	2	1	3	3	4	4	2	2	2	1	5	3	---
Bituminous coal-----	---	---	---	---	---	---	---	---	---	---	---	---	5	3	---
Limestone, crushed and broken-----	2	2	2	---	---	---	---	---	---	1	1	1	---	---	---
Common sand and gravel-----	---	---	---	1	3	3	---	---	---	---	---	---	---	---	---
Kaolin and ball clay-----	---	---	---	---	---	---	4	4	2	---	---	---	---	---	---
Native asphalt and bitumens-----	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---

INDUSTRY	HANCOCK			HARDIN			HARLAN			HARRISON			HENDERSON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	5	5	1	2	3	2	42	52	5	1	1	1	13	15	1
Bituminous coal-----	1	1	---	---	---	---	42	52	3	---	---	---	12	12	---
Limestone, crushed and broken-----	---	---	---	1	2	2	---	---	---	1	1	1	---	---	---
Common sand and gravel-----	1	1	1	---	---	---	---	---	---	---	---	---	1	1	1
Common clay and shale-----	1	1	---	1	1	---	---	---	---	---	---	---	---	---	---

INDUSTRY	HOPKINS			JACKSON			JEFFERSON			JESSAMINE			JOHNSON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	48	52	1	9	9	1	10	10	7	1	1	1	4	4	---
Bituminous coal-----	48	52	1	8	8	---	---	---	---	---	---	---	4	4	---
Limestone, crushed and broken-----	---	---	---	1	1	1	4	4	4	1	1	1	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	3	3	3	---	---	---	---	---	---
Foundry sand-----	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	2	2	---	---	---	---	---	---	---

INDUSTRY	KNOX			KNOX			LAUREL			LAWRENCE			LEE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	4	4	1	9	8	1	12	15	---	1	1	---	9	8	2
Natural gasoline-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bituminous coal-----	4	4	1	8	8	1	12	15	---	1	1	---	7	7	1
Limestone, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1
Common clay and shale-----	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---

INDUSTRY	LETCHER			LIVINGSTON			LOGAN			McCRACKEN			McCREARY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	15	20	1	8	9	9	2	2	2	2	2	2	5	8	---
Bituminous coal-----	15	20	1	---	---	---	---	---	---	---	---	---	3	8	---
Limestone, crushed and broken-----	---	---	---	1	1	1	2	2	2	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	---	---	---	2	2	2	---	---	---
Fluorepar-----	---	---	---	7	8	6	---	---	---	---	---	---	---	---	---

INDUSTRY	McLEAN			MAGOFFIN			MARION			MARTIN			MEADE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	4	4	---	1	1	---	1	1	1	4	3	1	1	1	1
Natural gasoline-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bituminous coal-----	4	4	---	1	1	---	---	---	---	1	3	1	---	---	---
Limestone, crushed and broken-----	---	---	---	---	---	---	1	1	1	---	---	---	1	1	1

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)

KENTUCKY—Concluded

INDUSTRY	MENIFEE			MERCER			MORGAN			MUHLENBERG			NELSON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	1	2	1	2	1	1	-----	26	31	1	1	1	1
Bituminous coal-----	-----	-----	-----	-----	-----	-----	1	1	-----	27	30	-----	-----	-----	-----
Limestone, crushed and broken-----	1	1	1	1	1	1	-----	-----	-----	1	1	1	1	1	1
Fluorspar-----	-----	-----	-----	1	-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----

INDUSTRY	NICHOLAS			OHIO			OLDHAM			ONSLY			PERRY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	1	14	13	4	1	1	1	2	2	-----	26	32	-----
Natural gasoline-----	-----	-----	-----	1	-----	2	-----	-----	-----	-----	-----	-----	-----	-----	-----
Bituminous coal-----	-----	-----	-----	11	11	-----	-----	-----	-----	2	2	-----	26	32	-----
Limestone, crushed and broken-----	1	1	1	2	2	2	-----	-----	-----	-----	-----	-----	-----	-----	-----
Common sand and gravel-----	-----	-----	-----	-----	-----	-----	1	1	1	-----	-----	-----	-----	-----	-----

INDUSTRY	PIKE			POWELL			PULASKI			ROCKCASTLE			ROWAN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	31	36	1	2	2	1	4	4	-----	9	10	3	5	5	-----
Bituminous coal-----	31	36	1	-----	-----	-----	4	4	-----	7	7	-----	-----	-----	-----
Limestone, crushed and broken-----	-----	-----	-----	1	1	1	-----	-----	-----	2	3	3	-----	-----	-----
Sandstone, rough dimension-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	2	2	-----
Fire clay-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	3	3	-----
Common clay and shale-----	-----	-----	-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

INDUSTRY	SCOTT			SIMPSON			TODD			TRIGG			UNION			WARREN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	1	1	1	1	1	1	1	1	1	1	6	6	-----	3	3	3
Bituminous coal-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	6	6	-----	-----	-----	-----
Limestone, crushed and broken-----	1	1	1	1	1	1	1	1	1	1	1	1	-----	-----	-----	3	3	3

INDUSTRY	WASHINGTON			WAYNE			WEBSTER			WHITLEY			WOLFE			WOODFORD		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	1	1	1	1	14	16	-----	10	10	1	2	2	-----	1	1	1
Bituminous coal-----	-----	-----	-----	-----	-----	-----	14	16	-----	9	9	-----	2	2	-----	-----	-----	-----
Limestone, crushed and broken-----	1	1	1	1	1	1	-----	-----	-----	1	1	1	-----	-----	-----	-----	-----	-----
Common clay and shale-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	-----
Fluorspar-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1

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)

LOUISIANA

INDUSTRY	STATE			ACADIA			BOSSIER			CADDO			CALCASIEU		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	52	40	62	2	1	2	1	---	1	14	2	14	2	1	1
Natural gasoline	16	---	29	1	---	1	1	---	1	12	---	13	1	---	1
Limestone, crushed and broken	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel	21	25	23	---	---	---	---	---	---	1	1	1	---	---	---
Kaolin and ball clay	2	2	2	1	1	1	---	---	---	---	---	---	---	---	---
Common clay and shale	6	6	---	---	---	---	---	---	---	1	1	---	1	1	---
Fuller's earth	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Rock salt	4	4	4	---	---	---	---	---	---	---	---	---	---	---	---
Sulfur	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	CATANOWLA			CLAIBORNE			EAST FELICIANA			EVANGELINE			GRANT			IBERIA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	5	---	6	1	1	1	3	2	3	1	1	1	4	4	5
Natural gasoline	---	---	---	5	---	6	---	---	---	1	---	1	---	---	---	---	---	---
Limestone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel	1	1	1	---	---	---	1	1	1	1	1	1	1	1	1	---	---	---
Kaolin and ball clay	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---
Fuller's earth	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Rock salt	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3	3	3
Sulfur	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	JEFFERSON			JEFFERSON DAVIS			LINCOLN			OUACHITA			PLAQUEMINES			RAPIDES		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	---	1	1	---	1	1	---	1	2	2	2	1	1	---	3	3	3
Natural gasoline	1	---	1	1	---	1	1	---	1	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel	---	---	---	---	---	---	---	---	---	2	2	2	---	---	---	5	5	5
Kaolin and ball clay	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fuller's earth	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Rock salt	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sulfur	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---

INDUSTRY	ST. TAMMANY			TANGIPAHOA			VERNON			WASHINGTON			WEBSTER			WINN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	6	7	5	3	3	2	2	2	2	3	3	3	7	4	7	2	2	2
Natural gasoline	---	---	---	---	---	---	---	---	---	---	---	---	3	---	3	---	---	---
Limestone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1
Common sand and gravel	4	5	5	2	2	2	2	2	2	2	2	2	4	4	4	---	---	---
Kaolin and ball clay	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale	2	2	---	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Fuller's earth	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Rock salt	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1
Sulfur	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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: 1933¹—Continued

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

MAINE

INDUSTRY	STATE			ANDROSCOGGIN			ARCADE			CUMBERLAND		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	33	34	11	3	3	2	—	1	1	2	2	1
Limestone, crushed and broken	3	3	2	—	—	—	—	—	—	—	—	—
Granite, crushed and broken	3	3	3	1	1	1	1	1	1	—	—	—
Granite, rough dimension	6	6	—	—	—	—	—	—	—	—	—	—
Slate, rough dimension	2	2	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	3	3	3	1	1	1	—	—	—	1	1	1
Common clay and shale	2	2	—	1	1	—	—	—	—	—	—	—
Feldspar	6	6	—	—	—	—	—	—	—	—	—	—
Mica	1	1	—	—	—	—	—	—	—	—	—	—
Peat	3	4	3	—	—	—	—	—	—	—	—	—

INDUSTRY	HANCOCK			KENNEBEC			KNOX			OXFORD			PENOBSCOT		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	—	1	1	1	6	6	2	3	3	—	1	1	1
Limestone, crushed and broken	—	—	—	—	—	—	3	3	2	—	—	—	—	—	—
Granite, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	2	2	—	—	—	—	3	3	—	—	—	—	—	—	—
Slate, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Feldspar	—	—	—	—	—	—	—	—	—	2	2	—	—	—	—
Mica	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Peat	—	—	—	—	—	—	—	—	—	—	—	—	1	2	1

INDUSTRY	PISCATAQUIS			SAGadahOC			WALDO			WASHINGTON			YORK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	—	6	6	—	1	1	—	3	3	2	2	2	1
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Granite, rough dimension	—	—	—	—	—	—	1	1	—	1	1	—	1	1	—
Slate, rough dimension	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Feldspar	—	—	—	6	6	—	—	—	—	—	—	—	—	—	—
Mica	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Peat	—	—	—	—	—	—	—	—	—	2	2	2	—	—	—

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)

MARYLAND

INDUSTRY	STATE			ALLEGANY			ANNE ARUNDEL			BALTIMORE			BALTIMORE CITY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	142	169	58	59	65	4	5	5	3	19	23	14	7	8	6
Bituminous coal-----	76	85	1	51	56	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	12	12	10	1	1	1	---	---	---	3	3	3	---	---	---
Granite, crushed and broken-----	4	4	3	1	1	1	---	---	---	2	2	2	---	---	---
Granite, rough dimension-----	3	3	---	---	---	---	---	---	---	1	1	---	1	1	---
Basalt, crushed and broken-----	4	6	6	---	---	---	---	---	---	3	3	3	2	2	2
Sandstone, rough dimension-----	4	4	---	---	---	---	---	---	---	3	3	---	---	---	---
Slate, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Marble, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken-----	3	3	1	---	---	---	---	---	---	2	2	1	---	---	---
Common sand and gravel-----	17	28	28	2	2	2	2	3	3	4	4	4	3	3	3
Kaolin and ball clay-----	2	2	---	---	---	---	---	---	---	2	2	---	---	---	---
Fire clay-----	5	6	1	3	4	---	1	1	---	---	---	---	---	---	---
Common clay and shale-----	11	11	3	1	1	---	2	1	---	3	3	1	2	2	1
Asbestos-----	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Diatomite-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Talc and soapstone-----	3	3	2	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	CALVERT			CARROLL			CECIL			FREDERICK			GARRETT		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	1	3	3	2	4	6	5	6	6	2	25	27	1
Bituminous coal-----	---	---	---	1	1	1	---	---	---	4	4	2	25	27	1
Limestone, crushed and broken-----	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---
Granite, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Basalt, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sandstone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Slate, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	3	5	5	---	---	---	---	---	---
Kaolin and ball clay-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	2	2	---	---	---	---
Asbestos-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Diatomite-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Talc and soapstone-----	---	---	---	2	2	1	---	---	---	---	---	---	---	---	---

INDUSTRY	HARFORD			MONTGOMERY			PRINCE GEORGES			WASHINGTON			WICOMICO		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	5	5	4	3	3	---	6	12	12	4	4	4	1	1	---
Bituminous coal-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	---	---	---	---	---	---	---	---	---	3	3	3	---	---	---
Granite, crushed and broken-----	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---
Granite, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Basalt, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Sandstone, rough dimension-----	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---
Slate, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Marble, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken-----	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	5	11	11	---	---	---	---	---	---
Kaolin and ball clay-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fire clay-----	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	1	1	1	1	1	---
Asbestos-----	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Diatomite-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Talc and soapstone-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---

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)

MASSACHUSETTS

INDUSTRY	STATE ²			BARNSTABLE			BERKSHIRE			BRISTOL		
	Oper- ating com- pan- ies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- pan- ies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- pan- ies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- pan- ies	Mines and quar- ries	Prepa- ration plants
All industries, total-----	102	112	87	4	4	2	13	15	12	9	9	8
Manganese ore-----	1	1	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	6	7	7	---	---	---	---	---	---	---	---	---
Granite, crushed and broken-----	3	3	3	---	---	---	6	7	7	---	---	---
Granite, rough dimension-----	16	17	3	---	---	---	---	---	---	1	1	1
Basalt, crushed and broken-----	10	12	12	---	---	---	2	2	---	---	---	---
Sandstone, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---
Sandstone, rough dimension-----	1	1	---	---	---	---	1	1	1	---	---	---
Marble, rough dimension-----	1	1	---	---	---	---	1	1	---	---	---	---
Miscellaneous stone, crushed and broken-----	4	4	4	2	2	2	---	1	---	---	---	---
Common sand and gravel-----	50	55	55	---	---	---	3	4	4	7	7	7
Foundry sand-----	3	4	2	2	2	---	---	---	---	---	---	---
Common clay and shale-----	6	6	---	---	---	---	---	---	---	1	1	---

INDUSTRY	ESSEX			FRANKLIN			HAMDEN			HAMPSHIRE		
	Oper- ating com- pan- ies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- pan- ies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- pan- ies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- pan- ies	Mines and quar- ries	Prepa- ration plants
All industries, total-----	8	8	7	2	2	2	10	11	9	3	3	2
Manganese ore-----	---	---	---	---	---	---	---	---	---	1	1	---
Limestone, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---
Granite, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---
Granite, rough dimension-----	1	1	---	---	---	---	---	---	---	---	---	---
Basalt, crushed and broken-----	2	2	2	1	1	1	2	3	3	1	1	1
Sandstone, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---
Sandstone, rough dimension-----	---	---	---	---	---	---	1	1	---	---	---	---
Marble, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	4	4	4	1	1	1	6	6	6	1	1	1
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	1	1	---	---	---	---

INDUSTRY	MIDDLESEX			NORFOLK ³			PLYMOUTH			SUFFOLK			WORCHESTER		
	Oper- ating com- pan- ies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- pan- ies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- pan- ies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- pan- ies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- pan- ies	Mines and quar- ries	Prepa- ration plants
All industries, total-----	23	26	19	11	12	10	8	8	4	3	3	3	11	11	9
Manganese ore-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, crushed and broken-----	1	1	1	1	1	1	---	---	---	---	---	---	---	---	---
Granite, rough dimension-----	7	7	2	2	2	---	9	3	1	---	---	---	2	2	---
Basalt, crushed and broken-----	2	2	2	---	---	---	---	---	---	2	2	2	1	1	1
Sandstone, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sandstone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	9	12	12	8	9	9	2	2	2	1	1	1	8	8	8
Foundry sand-----	1	1	1	---	---	---	1	1	1	---	---	---	---	---	---
Common clay and shale-----	2	2	---	---	---	---	2	2	---	---	---	---	---	---	---

See footnotes at end of table.

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

INDUSTRY	STATE			ALCONA			ALPENA			BARRY			BAY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	158	173	106	1	1	1	4	4	5	1	1	1	5	5	1
Natural gasoline	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal	11	11	5	—	—	—	—	—	—	—	—	—	5	5	1
Iron ore	22	56	6	—	—	—	—	—	—	—	—	—	—	—	—
Copper ore	4	6	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	16	16	15	—	—	—	5	5	5	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	59	68	69	1	1	1	—	—	—	1	1	1	—	—	—
Glass sand	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Foundry sand	6	11	5	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	12	12	4	—	—	—	1	1	—	—	—	—	—	—	—
Gypsum	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Peat	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Rock salt	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	BENNETT			BRANCH			CALHOUN			CHIPPEWA			DELTA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	1	2	5	2	1	1	1	1	1	1	1	1	1
Limestone, crushed and broken	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Foundry sand	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—

INDUSTRY	DICKINSON			KATON			EMMET			GENESSEE			GLADWIN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	5	8	2	3	3	2	2	2	2	5	5	5	1	1	1
Iron ore	3	6	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	2	2	2	—	—	—	2	2	2	—	—	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	5	5	5	1	1	1
Common clay and shale	—	—	—	3	3	2	—	—	—	—	—	—	—	—	—

INDUSTRY	GOGEBIC			GRATIOT			HOUGHTON			HURON			INGHAM		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	7	9	—	1	1	1	5	7	7	1	1	1	5	5	5
Iron ore	7	9	—	—	—	—	—	—	—	—	—	—	—	—	—
Copper ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	4	6	6	—	—	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Fire clay	—	—	—	1	1	1	1	1	1	—	—	—	2	2	2
	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1

INDUSTRY	IONIA			IOSCO			IRON			JACKSON			KALAMAZOO		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	2	2	1	8	11	1	1	1	1	2	5	5
Iron ore	—	—	—	—	—	—	7	10	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	1	1	1	—	—	—	1	1	1	1	1	1	—	—	—
Gypsum	—	—	—	2	2	1	—	—	—	—	—	—	2	5	5

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: 1939.—Continued

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

MICHIGAN—Concluded

INDUSTRY	KENT			LEMAWEE			LIVINGSTON			MACKINAC			MACOMB			MANISTEE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	10	11	10	3	4	2	1	1	1	1	1	—	4	5	4	1	2	2
Limestone, crushed and broken	—	—	—	1	1	—	—	—	—	1	1	—	—	—	—	—	—	—
Common sand and gravel	7	8	8	2	2	2	1	1	1	—	—	—	5	4	4	1	1	1
Foundry sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Common clay and shale	—	—	—	1	1	—	—	—	—	—	—	—	1	1	—	—	—	—
Gypsum	3	3	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	MARQUETTE			MASON			MIDLAND			MONROE			MONTCALM			MUSKOGEE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	11	16	2	1	1	—	1	—	1	1	1	1	1	1	1	2	2	2
Natural gasoline	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—
Iron ore	9	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	1	1	1	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Foundry sand	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	2	2	2

INDUSTRY	OAKLAND			OSCEOLA			OTTAWA			PRESQUE ISLE			SAGINAW			ST. CLAIR		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	16	16	15	2	1	1	3	3	2	1	1	1	7	6	1	3	4	4
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	6	5	1	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Common sand and gravel	15	15	15	1	1	1	2	2	2	—	—	—	—	—	—	2	3	3
Foundry sand	—	—	—	—	—	—	1	1	—	—	—	—	1	1	—	—	—	—
Common clay and shale	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Peat	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	SCHOOLCRAFT			SHIAWASSEE			TUSCOLA			VAN BUREN			WASHTENAW			WAYNE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	3	3	1	5	7	3	2	2	2	1	1	1	10	10	7
Bituminous coal	—	—	—	2	2	—	1	1	1	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Common sand and gravel	—	—	—	1	1	1	2	2	2	2	2	2	1	1	1	3	3	3
Glass sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	1	1
Foundry sand	—	—	—	—	—	—	2	4	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	1
Rock salt	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1

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)

MINNESOTA

INDUSTRY	STATE			AITKIN			ANOKA			BECKER			BELTRAMI		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	110	170	83	1	1	1	1	1	1	1	1	1	1	1	1
Iron ore-----	29	69	17	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	9	10	10	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, rough dimension-----	2	2	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, crushed and broken-----	1	---	1	---	---	---	---	---	---	---	---	---	---	---	---
Granite, rough dimension-----	21	30	2	---	---	---	---	---	---	---	---	---	---	---	---
Basalt, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	37	44	44	---	---	---	---	---	---	1	1	1	---	---	---
Foundry sand-----	4	4	3	---	---	---	1	1	1	---	---	---	---	---	---
Common clay and shale-----	6	6	1	---	---	---	---	---	---	---	---	---	1	1	---
Natural abrasives-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Peat-----	2	2	2	1	1	1	---	---	---	---	---	---	---	---	---

INDUSTRY	BENTON			BIG STONE			BLUE EARTH			BROWN			CARLTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	---	1	1	---	4	5	4	1	1	1	2	2	1
Iron ore-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Limestone, rough dimension-----	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---
Granite, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, rough dimension-----	1	1	---	1	1	---	---	---	---	---	---	---	---	---	---
Basalt, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	2	3	3	---	---	---	1	1	1
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	1	1	1	1	1	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peat-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	CARVER			CLAY			CROW WING			DAKOTA			FILLMORE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	---	2	2	2	5	10	3	5	5	4	1	1	---
Iron ore-----	---	---	---	---	---	---	5	10	3	---	---	---	1	1	1
Limestone, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Basalt, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	2	2	2	---	---	---	3	3	3	---	---	---
Foundry sand-----	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---
Common clay and shale-----	1	1	---	---	---	---	---	---	---	1	1	---	---	---	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peat-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	GOODHUE			HIBERNIA			ITASCA			KANABEC			KANDIYOH		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	---	11	12	12	12	25	12	1	1	---	1	1	1
Iron ore-----	---	---	---	---	---	---	11	24	11	---	---	---	---	---	---
Limestone, crushed and broken-----	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
Limestone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, rough dimension-----	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---
Basalt, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	10	10	10	1	1	1	---	---	---	1	1	1
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Peat-----	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---

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)

MINNESOTA—Concluded

INDUSTRY	LAC QUI PARLE			LAKE			LE SUEUR			MILLE LACS			MORRISON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	4	4	—	1	1	—	1	1	—	1	1	1	1	1	1
Iron ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, rough dimension	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Granite, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	4	4	—	1	1	—	—	—	—	1	1	1	—	—	—
Basalt, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Foundry sand—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Natural abrasives—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Peat—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	MOWER			NICOLLET			OLMSTED			PIPESTONE			POLK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	5	5	5	1	1	1	2	2	2	1	1	1	2	5	5
Iron ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	2	2	2	—	—	—	1	1	1	—	—	—	—	—	—
Limestone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	1	1	1	1	1	1	1	1	1	1	1	1	2	5	5
Foundry sand—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Natural abrasives—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Peat—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	RAMSEY			REDWOOD			RENVILLE			ROCK			ST. LOUIS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	5	5	5	4	4	1	5	5	1	2	2	2	25	42	9
Iron ore—	—	—	—	—	—	—	—	—	—	—	—	—	25	35	3
Limestone, crushed and broken	1	1	1	—	—	—	—	—	—	1	1	1	—	—	—
Limestone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	—	—	—	3	3	—	3	3	1	—	—	—	1	1	—
Basalt, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Miscellaneous stone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	3	3	3	1	1	1	—	—	—	—	—	—	4	5	5
Foundry sand—	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Natural abrasives—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Peat—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	STEARN			STEELE			WASHINGTON			WINONA			YELLOW MEDICINE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	10	12	1	5	5	5	1	1	1	3	4	4	2	2	—
Iron ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	1	1	1	—	—	—	1	1	1	—	—	—
Limestone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken	9	12	—	—	—	—	—	—	—	—	—	—	2	2	—
Miscellaneous stone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	—	—	—	2	2	2	1	1	1	2	3	3	—	—	—
Foundry sand—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Natural abrasives—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Peat—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

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)

MISSISSIPPI

INDUSTRY	STATE			ADAMS			ALCORN			CARROLL		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	30	46	37	1	5	5	1	1	—	1	1	1
Common sand and gravel—	20	34	34	1	5	5	—	—	—	1	1	1
Kaolin and ball clay—	1	1	1	—	—	—	—	—	—	—	—	—
Common clay and shale—	6	6	—	—	—	—	1	1	—	—	—	—
Bentonite—	3	4	2	—	—	—	—	—	—	—	—	—

INDUSTRY	COPIAH			FORREST			FRANKLIN			HANCOCK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	1	1	1	5	4	3	1	1	1	1	1	1
Common sand and gravel—	1	1	1	2	5	5	1	1	1	1	1	1
Kaolin and ball clay—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	1	1	—	—	—	—	—	—	—
Bentonite—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	HINDS			HOLMES			ITAWAMBA			LAWRENCE			LINCOLN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	1	1	—	1	10	10	1	1	—	1	1	1	1	1	—
Common sand and gravel—	—	—	—	1	10	10	—	—	—	1	1	1	—	—	—
Kaolin and ball clay—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Bentonite—	—	—	—	—	—	—	1	1	—	—	—	—	1	1	—

INDUSTRY	LOWDES			MONROE			PANOLA			PEARL RIVER			PERCY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	5	5	4	5	5	5	1	1	1	1	1	1	1	1	1
Common sand and gravel—	4	4	4	4	4	4	1	1	1	—	—	—	1	1	1
Kaolin and ball clay—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Common clay and shale—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Bentonite—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—

INDUSTRY	PONTOTOC			SMITH			TISHOMINGO			WASHINGTON			WINSTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	1	1	1	1	1	—	1	1	1	2	2	2	1	1	—
Common sand and gravel—	—	—	—	—	—	—	1	1	1	2	2	2	—	—	—
Kaolin and ball clay—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Bentonite—	1	1	1	1	1	—	—	—	—	—	—	—	—	—	—

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: 1939—Continued

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

MISSOURI

INDUSTRY	STATE ²			ADAIR			AUDRAIN			BARTON			BATES		
	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	580	456	157	8	8	—	6	6	1	10	9	2	12	12	2
Bituminous coal	179	180	10	8	8	—	—	—	—	8	8	1	12	12	2
Iron ore	4	6	—	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore	6	9	8	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore	20	19	11	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	54	80	85	—	—	—	1	1	1	—	—	—	—	—	—
Limestone, rough dimension	2	3	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Slate, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Marble, rough dimension	5	5	1	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	27	30	30	—	—	—	—	—	—	—	—	—	—	—	—
Glass sand	4	4	4	—	—	—	—	—	—	—	—	—	—	—	—
Pumice sand	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	40	68	1	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	15	17	3	—	—	—	5	5	—	—	—	—	—	—	—
Barite	17	25	17	—	—	—	—	—	—	—	—	—	—	—	—
Native asphalt and bitumens	2	1	1	—	—	—	—	—	—	2	1	1	—	—	—
Pyrites	5	5	1	—	—	—	—	—	—	—	—	—	—	—	—
Trippell	2	4	2	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	BEWTON			BOLLINGER			BOONE			BUCHANAN			BUTLER		
	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1	1	1	1	1	11	11	5	4	4	3	1	1	1
Bituminous coal	—	—	—	—	—	—	6	6	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	4	4	3	2	2	2	—	—	—
Common sand and gravel	—	—	—	1	1	1	—	—	—	1	1	1	1	1	1
Common clay and shale	—	—	—	—	—	—	1	1	—	1	1	—	—	—	—
Barite	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	CALLAWAY			CAMDEN			CAPE GIRARDEAU			CASS			CHARITON		
	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	10	18	—	3	4	2	6	6	4	2	2	1	5	5	1
Bituminous coal	4	4	—	—	—	—	—	—	—	—	—	—	2	2	—
Limestone, crushed and broken	—	—	—	—	—	—	4	4	3	1	1	1	1	1	1
Common sand and gravel	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Fire clay	6	14	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	1	1	—	1	1	—	—	—	—
Barite	—	—	—	5	4	2	—	—	—	—	—	—	—	—	—

INDUSTRY	CHRISTIAN			CLARK			CLAY			CLINTON			COLE		
	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	1	1	1	2	2	—	9	9	2	1	1	1	4	4	4
Bituminous coal	—	—	—	2	2	—	6	6	—	—	—	—	—	—	—
Zinc ore	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	3	3	2	1	1	1	—	—	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Common clay and shale	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Barite	—	—	—	—	—	—	—	—	—	—	—	—	2	2	2

INDUSTRY	COOPER			CRAWFORD			DADE			DAVIES			DEBT		
	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants	Oper- ating com- p- nies	Mines and quar- ries	Prepa- ration plants
All industries, total	5	5	2	2	4	—	2	2	—	1	1	—	1	1	—
Bituminous coal	—	—	—	—	—	—	2	2	—	1	1	—	—	—	—
Iron ore	—	—	—	1	3	—	—	—	—	—	—	—	1	1	—
Limestone, crushed and broken	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Pyrites	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—

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)

MISSOURI—Continued

INDUSTRY	FRANKLIN			GASCONAIE			GREENE			GRUNDY			HARRISON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	4	6	1	11	16	1	8	8	7	1	1	—	5	5	2
Bituminous coal	—	—	—	—	—	—	—	—	—	1	1	—	5	5	—
Iron ore	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	7	7	7	—	—	—	2	2	2
Limestone, rough dimension	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Glass sand	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	1	5	—	11	16	1	—	—	—	—	—	—	—	—	—
Pyrites	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
INDUSTRY	HENRY			HOLT			HOWARD			IRON			JACKSON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	15	12	5	2	2	—	5	6	2	5	5	2	9	10	7
Bituminous coal	15	12	5	—	—	—	1	1	—	—	—	—	—	—	—
Lead ore	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Limestone, crushed and broken	—	—	—	1	1	—	1	2	—	—	—	—	8	6	6
Limestone, rough dimension	—	—	—	1	1	—	1	1	—	—	—	—	—	—	—
Granite, rough dimension	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Miscellaneous stone, crushed and broken	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Common sand and gravel	—	—	—	—	—	—	1	1	1	—	—	—	1	1	1
Common clay and shale	—	—	—	—	—	—	1	1	1	—	—	—	1	1	—
INDUSTRY	JASPER			JEFFERSON			JOHNSON			LAFAYETTE			LAWRENCE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	19	16	8	5	5	5	5	5	1	20	25	4	1	1	1
Bituminous coal	1	1	—	—	—	—	2	2	—	19	22	1	—	—	—
Lead ore	1	2	1	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore	15	15	6	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	1	1	1	—	—	—	1	1	1	1	5	5	1	1	1
Marble, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	2	2	2	—	—	—	—	—	—	—	—	—
Glass sand	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Foundry sand	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Barite	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
INDUSTRY	LEWIS			LINCOLN			LENN			LIVINGSTON			MACON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	5	5	1	6	6	—	2	2	1	8	6	1
Bituminous coal	—	—	—	1	1	—	6	6	—	—	—	—	8	6	1
Limestone, crushed and broken	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Common sand and gravel	1	1	1	—	—	—	—	—	—	1	1	1	—	—	—
Fire clay	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
INDUSTRY	MADISON			MARIES			MARION			MONITEAU			MONROE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	5	2	2	4	5	—	2	2	2	2	5	5	2	2	—
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore	5	2	2	—	—	—	—	—	—	—	—	—	2	2	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	—	—	—	4	5	—	2	2	2	—	—	—	—	—	—
Barite	—	—	—	—	—	—	—	—	—	2	5	5	—	—	—

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)

MISSOURI—Concluded

INDUSTRY	MONTGOMERY			MORGAN			NEW MADRID			NEWTON ²			NORMAN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	10	11	—	2	5	1	1	2	2	8	10	6	2	2	1
Bituminous coal	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Zinc ore	—	—	—	—	—	—	—	—	—	5	5	4	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	1	1	—	2	2	1
Common sand and gravel	—	—	—	—	—	—	1	2	2	—	—	—	—	—	—
Fire clay	10	11	—	—	—	—	—	—	—	—	—	—	—	—	—
Barite	—	—	—	1	2	1	—	—	—	—	—	—	—	—	—
Trippell	—	—	—	—	—	—	—	—	—	2	4	2	—	—	—

INDUSTRY	OSAGE			PENICOTT			PHELPS			PIKE			PLATE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	5	4	—	2	2	2	4	4	1	2	2	2	5	5	2
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	1	1	1	2	2	2
Common sand and gravel	—	—	—	2	2	2	—	—	—	1	1	1	—	—	—
Fire clay	5	4	—	—	—	—	5	5	—	—	—	—	—	—	—
Pyrites	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—

INDUSTRY	PUTNAM			RAILS			RANDOLPH			RAY			RIPLEY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	17	17	—	4	4	2	14	15	2	27	26	1	1	1	1
Bituminous coal	17	17	—	2	2	—	14	15	2	25	24	—	—	—	—
Limestone, crushed and broken	—	—	—	2	2	2	—	—	—	2	2	1	1	1	1
Common sand and gravel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	ST. CHARLES			ST. CLAIR			ST. FRANCOIS			ST. LOUIS			ST. LOUIS CITY			STE. OBSEVIEVE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	5	5	5	1	1	1	4	7	6	26	27	20	10	11	6	6	6	2
Lead ore	—	—	—	—	—	—	1	4	4	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	2	2	2	1	1	1	1	1	1	10	11	10	1	1	2	4	4	1
Granite, crushed and broken	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Granite, rough dimension	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Slate, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Marble, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	1
Common sand and gravel	—	—	—	—	—	—	—	—	—	7	7	7	4	4	4	—	—	—
Glass sand	1	1	1	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Fire clay	—	—	—	—	—	—	—	—	—	2	2	1	2	2	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	6	6	1	2	3	—	—	—	—

INDUSTRY	SALINE			STODDARD			VERNON			WARREN			WASHINGTON			WAYNE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	1	1	1	1	10	9	—	5	5	—	8	10	7	1	1	—
Bituminous coal	—	—	—	—	—	—	10	9	—	1	1	—	—	—	—	—	—	—
Iron ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Limestone, crushed and broken	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	1	1	1	—	—	—	2	2	—	—	—	—	—	—	—
Fire clay	—	—	—	—	—	—	—	—	—	—	—	—	8	10	7	—	—	—
Barite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)

MONTANA

INDUSTRY	STATE			BEAVERHEAD			BLAINE			BROADWATER			CARBON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	276	296	70	12	12	2	2	2	—	14	15	5	8	9	2
Natural gasoline	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal	56	59	2	—	—	—	2	2	—	—	—	—	6	7	1
Lignite	17	17	—	—	—	—	—	—	—	—	—	—	—	—	—
Lode gold	109	106	42	5	5	2	—	—	—	11	10	5	—	—	—
Placer gold	29	30	—	1	1	—	—	—	—	2	2	—	—	—	—
Silver ore	29	28	8	4	4	—	—	—	—	—	—	—	—	—	—
Copper ore	2	10	1	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore	7	7	1	1	1	—	—	—	—	1	1	—	—	—	—
Manganese ore	6	15	3	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	7	7	3	—	—	—	—	—	—	—	—	—	1	1	—
Limestone, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	1	1	—	1	1	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	7	7	7	—	—	—	—	—	—	—	—	—	1	1	1
Common clay and shale	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Gypsum	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—
Phosphate rock	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Vermiculite	2	1	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	CASCADE			CHOUTEAU			CUSTER			DEER LODGE			FERGUS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	19	19	6	4	4	—	3	4	—	6	6	3	7	7	2
Bituminous coal	11	11	1	3	3	—	3	3	—	—	—	—	1	1	—
Lignite	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Lode gold	—	—	—	—	—	—	—	—	—	4	4	2	2	2	1
Silver ore	5	5	4	—	—	—	—	—	—	1	1	—	1	1	—
Limestone, crushed and broken	1	1	—	—	—	—	—	—	—	1	1	1	—	—	—
Granite, rough dimension	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	1	1	1	—	—	—	—	—	—	—	—	—	1	1	—
Common clay and shale	1	1	—	—	—	—	—	—	—	—	—	—	2	2	1
Gypsum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	FLATHEAD			GALLATIN			GLACIER			GRANITE			HILL		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	5	3	1	3	3	1	1	—	1	18	28	4	4	4	—
Natural gasoline	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—
Bituminous coal	1	1	—	1	1	—	—	—	—	—	—	—	4	4	—
Lode gold	—	—	—	—	—	—	—	—	—	6	6	1	—	—	—
Placer gold	—	—	—	—	—	—	—	—	—	3	3	—	—	—	—
Silver ore	1	1	—	—	—	—	—	—	—	5	4	1	—	—	—
Manganese ore	—	—	—	—	—	—	—	—	—	4	14	2	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Common sand and gravel	1	1	1	2	2	1	—	—	—	—	—	—	—	—	—

INDUSTRY	JEFFERSON			JUDITH BASIN			LEWIS AND CLARK			LINCOLN			MCCONE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	20	19	5	2	2	—	30	29	9	4	5	2	2	2	—
Bituminous coal	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Lignite	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—
Lode gold	11	10	2	—	—	—	18	17	8	1	1	1	—	—	—
Placer gold	4	5	—	—	—	—	9	9	—	1	1	—	—	—	—
Silver ore	4	3	2	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore	—	—	—	1	1	—	2	2	—	—	—	—	—	—	—
Limestone, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Vermiculite	—	—	—	—	—	—	—	—	—	2	1	1	—	—	—

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)

MONTANA—Concluded

INDUSTRY	MADISON			MEACHER			MINERAL			MISSOULA			MISSOULISHELL		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	39	39	12	1	1	-----	2	2	1	4	4	1	14	14	-----
Bituminous coal-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lode gold-----	36	36	12	-----	-----	-----	1	1	1	2	2	1	14	14	-----
Placer gold-----	2	2	-----	1	1	-----	1	1	-----	2	2	-----	-----	-----	-----
Lead ore-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

INDUSTRY	PARK			PHILLIPS			POWDER			POWDER RIVER			POWELL		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	7	7	3	5	5	4	2	2	-----	4	4	-----	12	11	1
Bituminous coal-----	2	2	-----	1	1	-----	2	2	-----	4	4	-----	-----	-----	-----
Lode gold-----	2	2	2	2	2	2	-----	-----	-----	-----	-----	-----	7	6	1
Placer gold-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	2	2	-----
Silver ore-----	1	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	-----
Limestone, rough dimension-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Common sand and gravel-----	-----	-----	-----	2	2	2	-----	-----	-----	-----	-----	-----	-----	-----	-----
Phosphate rock-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	2	2	-----

INDUSTRY	RAVALLI			RICHLAND			ROOSEVELT			ROSBUD			SANDERS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	-----	2	2	-----	4	4	-----	2	2	-----	2	2	1
Bituminous coal-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	2	2	-----	-----	-----	-----
Lignite-----	-----	-----	-----	2	2	-----	4	4	-----	-----	-----	-----	-----	-----	-----
Silver ore-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	-----
Copper ore-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	1
Lead ore-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

INDUSTRY	SHERIDAN			SILVER BOW			VALLEY			WIBAUT			YELLOWSTONE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	6	6	-----	9	18	3	1	1	-----	1	1	-----	1	1	1
Lignite-----	6	6	-----	-----	-----	-----	1	1	-----	1	1	-----	-----	-----	-----
Lode gold-----	-----	-----	-----	2	2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Silver ore-----	-----	-----	-----	5	6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Copper ore-----	-----	-----	-----	1	9	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Manganese ore-----	-----	-----	-----	2	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Common sand and gravel-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	1

See footnotes at end of table.

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: 1939—Continued

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

NEBRASKA

INDUSTRY	STATE			ADAMS			CASS			CEDAR			COLFAX		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	57	64	47	1	1	---	10	15	10	1	1	1	1	1	1
Limestone, crushed and broken	6	12	5	---	---	---	6	9	5	---	---	---	---	---	---
Limestone, rough dimension	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel	24	26	26	---	---	---	4	5	5	1	1	1	1	1	1
Common clay and shale	6	8	5	1	1	---	1	1	---	---	---	---	---	---	---
Natural abrasives	1	5	1	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	CUMING			DANSON			DODGE			DOWD			FRONTIER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	1	2	2	4	4	4	4	5	5	1	5	1
Limestone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, rough dimension	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel	1	1	1	1	2	2	4	4	4	5	4	4	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---
Natural abrasives	---	---	---	---	---	---	---	---	---	---	---	---	1	5	1

INDUSTRY	HALL			HITCHCOCK			JEFFERSON			KEITH			LANCASTER			MADISON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	1	1	1	6	6	5	2	5	5	1	1	1	2	2	2
Limestone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, rough dimension	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel	2	2	2	1	1	1	5	5	5	2	5	5	---	---	---	2	2	2
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---
Natural abrasives	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	MORRIS			MORRILL			NEMO			OTOE			PHELPS			PLATTE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	1	1	1	2	2	---	1	1	1	1	1	1	2	2	2
Limestone, crushed and broken	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---
Limestone, rough dimension	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---
Common sand and gravel	1	1	1	1	1	1	---	---	---	1	1	1	1	1	1	2	2	2
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	REDWILL			RICHARDSON			SARPY			SAUNDERS			SCOTT BLUFF			THAYER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	---	2	5	---	1	1	1	1	1	1	1	1	1	1	1	1
Limestone, crushed and broken	1	1	---	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, rough dimension	---	---	---	1	2	---	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel	---	---	---	---	---	---	1	1	1	1	1	1	1	1	1	1	1	1
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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: 1939.—Continued

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

NEVADA

INDUSTRY	STATE			CHURCHILL			CLARK			ELKO			HUMBOLDT		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	265	279	90	6	6	2	25	27	17	14	14	9	21	19	7
Lode gold-----	145	142	46	2	2	1	9	9	5	7	7	3	15	13	5
Placer gold-----	15	16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Silver ore-----	42	47	6	4	4	1	2	2	1	2	2	1	2	2	1
Copper ore-----	4	5	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lead ore-----	3	3	-----	-----	-----	-----	1	1	-----	2	2	-----	-----	-----	-----
Zinc ore-----	4	3	-----	-----	-----	-----	3	2	-----	-----	-----	-----	-----	-----	-----
Antimony ore-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mercury-----	13	12	12	-----	-----	-----	-----	-----	-----	1	1	1	1	1	1
Tungsten ore-----	6	10	7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Limestone, crushed and broken-----	1	1	1	-----	-----	-----	1	1	1	-----	-----	-----	-----	-----	-----
Miscellaneous stone, crushed and broken-----	1	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Common sand and gravel-----	1	2	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Glass sand-----	5	7	7	-----	-----	-----	3	7	7	-----	-----	-----	-----	-----	-----
Foundry sand-----	2	3	3	-----	-----	-----	2	3	3	-----	-----	-----	-----	-----	-----
Ballin and ball clay-----	2	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Common clay and shale-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fuller's earth-----	2	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Bentonite-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Barite-----	4	4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Diatomite-----	2	2	1	-----	-----	-----	-----	-----	-----	1	1	1	-----	-----	-----
Fluorspar-----	2	2	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Graphite-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Minite-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Gypsum-----	4	4	1	-----	-----	-----	2	2	-----	-----	-----	-----	-----	-----	-----
Kyanite, andalusite, and dumortierite-----	2	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Magnesite and brucite-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Natural sodium compounds-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Talc and soapstone-----	2	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

INDUSTRY	EUREKA			HUMBOLDT			LANDER			LINCOLN			LYNN			MINERAL		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	13	16	1	14	13	10	22	23	4	10	9	1	15	12	7	20	19	3
Lode gold-----	8	11	1	7	7	6	13	14	2	5	4	1	10	7	5	9	8	1
Placer gold-----	-----	-----	-----	-----	-----	-----	3	3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Silver ore-----	4	4	-----	2	2	-----	3	3	2	5	3	-----	-----	-----	-----	6	6	-----
Copper ore-----	-----	-----	-----	-----	-----	-----	1	1	-----	-----	1	-----	-----	-----	-----	-----	-----	-----
Zinc ore-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mercury-----	-----	-----	-----	5	4	4	-----	-----	-----	1	1	-----	-----	-----	-----	2	2	2
Tungsten ore-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Common sand and gravel-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	1	-----	-----	-----
Fuller's earth-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	-----	-----	-----	-----
Bentonite-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Barite-----	1	1	-----	-----	-----	-----	2	2	-----	-----	-----	-----	-----	-----	-----	2	2	-----
Fluorspar-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	-----	-----	-----	-----
Gypsum-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	-----	-----	-----	-----
Kyanite, andalusite, and dumortierite-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	-----

INDUSTRY	NYE			OROSBY			PERKINS			STOREY			WASHOE			WHITE PINE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	40	42	9	2	2	-----	24	26	8	16	17	8	6	6	1	24	28	5
Lode gold-----	20	20	4	1	1	-----	10	10	3	14	15	7	3	3	-----	11	11	2
Placer gold-----	6	6	-----	-----	-----	-----	3	3	-----	-----	-----	-----	-----	-----	-----	1	1	-----
Silver ore-----	5	7	-----	-----	-----	-----	3	3	-----	-----	-----	-----	-----	-----	-----	2	3	1
Copper ore-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Antimony ore-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mercury-----	3	3	3	-----	-----	-----	2	2	2	1	1	1	-----	-----	-----	2	2	2
Tungsten ore-----	-----	-----	-----	-----	-----	-----	3	3	3	-----	-----	-----	-----	-----	-----	-----	-----	-----
Miscellaneous stone, crushed and broken-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	1	-----	-----	-----
Common sand and gravel-----	1	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	-----	1	1	-----
Ballin and ball clay-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	-----	-----	-----	-----
Common clay and shale-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Fuller's earth-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Barite-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Diatomite-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	-----	-----	-----	-----	-----	-----	-----
Fluorspar-----	1	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Graphite-----	-----	-----	-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Minite-----	-----	-----	-----	-----	-----	-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Gypsum-----	-----	-----	-----	-----	-----	-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Kyanite, andalusite, and dumortierite-----	-----	-----	-----	-----	-----	-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Magnesite and brucite-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

See footnotes at end of table.

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)

NEW HAMPSHIRE

INDUSTRY	STATE ⁴			CARROLL			CHESTER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	24	26	15	1	1	1	5	4	2
Granite, crushed and broken-----	4	4	4				1	1	1
Granite, rough dimension-----	8	8	2	1	1	1			
Common sand and gravel-----	4	5	5				1	1	1
Common clay and shale-----	5	5							
Diatomite-----	1	1	1						
Feldspar-----	4	5					1	2	
Natural abrasives-----	1		1						

INDUSTRY	GRAFTON			HILLSBORO			MERRIMACK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	4	4	4	6	6	1	5	5	2
Granite, crushed and broken-----	2	2	2						
Granite, rough dimension-----				5	5		2	2	1
Common sand and gravel-----	1	1	1	1	1	1	1	1	1
Common clay and shale-----									
Diatomite-----									
Feldspar-----	1	1							
Natural abrasives-----	1		1						

INDUSTRY	ROCKINGHAM ⁴			STRAFFORD			SULLIVAN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	3	5	2	3	3	1	2	2	
Granite, crushed and broken-----	1	1	1						
Granite, rough dimension-----									
Common sand and gravel-----				1	1	1			
Common clay and shale-----	1	1		2	2				
Diatomite-----	1	1	1						
Feldspar-----							2	2	
Natural abrasives-----									

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)

NEW JERSEY

INDUSTRY	STATE			ATLANTIC			BERGEN			BURLINGTON			CAMDEN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	117	185	108	1	1	1	6	6	4	12	12	9	8	8	6
Iron ore	5	4	4	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore	1	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	5	6	5	—	—	—	—	—	—	—	—	—	—	—	—
Granite, crushed and broken	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken	17	17	17	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	2	2	1	—	—	—	1	1	—	—	—	—	—	—	—
Marble, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Macellaneous stone, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	44	46	46	—	—	—	4	4	4	3	4	4	4	4	4
Glass sand	4	3	4	—	—	—	—	—	—	—	—	—	—	—	—
Foundry sand	8	14	14	1	1	1	—	—	—	2	2	1	1	1	1
Kaolin and ball clay	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	15	19	6	—	—	—	—	—	—	1	1	—	2	2	—
Common clay and shale	10	12	2	—	—	—	1	1	—	3	3	—	—	—	—
Greensand	4	3	4	—	—	—	—	—	—	3	2	3	—	—	—
Peat	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	CAPE MAY			CUMBERLAND			ESSEX			GLoucester			HUNTERDON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	12	14	16	4	4	4	4	4	4	5	3	3
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Granite, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Basalt, crushed and broken	—	—	—	—	—	—	3	3	3	—	—	—	1	1	1
Common sand and gravel	1	1	1	4	5	5	1	1	1	3	3	3	—	—	—
Glass sand	—	—	—	5	2	3	—	—	—	—	—	—	—	—	—
Foundry sand	—	—	—	5	7	8	—	—	—	1	1	1	—	—	—
Greensand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	MERCER			MIDDLESEX			MONMOUTH			MORRIS			OSCEOLA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	4	5	3	20	26	12	7	7	7	12	12	12	5	5	5
Iron ore	—	—	—	—	—	—	—	—	—	3	3	3	—	—	—
Basalt, crushed and broken	1	1	1	—	—	—	—	—	—	1	1	1	—	—	—
Sandstone, rough dimension	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Macellaneous stone, crushed and broken	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Common sand and gravel	1	—	1	4	4	4	7	7	7	6	6	6	2	2	2
Foundry sand	—	—	—	2	2	2	—	—	—	1	1	1	—	—	—
Kaolin and ball clay	—	—	—	1	1	—	—	—	—	—	—	—	1	1	1
Fire clay	1	1	—	10	14	5	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	4	5	1	—	—	—	—	—	—	—	—	—

INDUSTRY	PASSAIC			SALAM			SOMERSET			SUSSEX			UNION			WARREN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	10	11	10	1	1	—	5	5	4	5	5	6	1	1	1	5	7	5
Iron ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Zinc ore	—	—	—	—	—	—	—	—	—	1	2	2	—	—	—	1	2	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken	6	6	6	—	—	—	4	4	4	—	—	—	1	1	1	1	1	—
Marble, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	2
Common sand and gravel	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Common clay and shale	1	1	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Peat	—	—	—	—	—	—	—	—	—	2	2	2	—	—	—	—	—	—

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)

NEW MEXICO

INDUSTRY	STATE			BERNALILLO			CATRON			CHAVES			COLFAX		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	102	100	80	6	6	2	6	6	1	1	1	1	14	16	2
Natural gasoline	5	—	6	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal	37	42	1	2	2	—	—	—	—	—	—	—	12	14	1
Iron ore	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Lode gold	14	14	5	—	—	—	5	5	1	—	—	—	2	2	1
Placer gold	4	4	—	—	—	—	—	—	—	—	—	—	—	—	—
Silver ore	2	2	—	—	—	—	1	1	—	—	—	—	—	—	—
Copper ore	4	4	2	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore	11	10	4	—	—	—	—	—	—	—	—	—	—	—	—
Manganese ore	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—
Molybdenum ore	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Tungsten ore	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	4	4	4	2	2	2	—	—	—	1	1	1	—	—	—
Fire clay	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	4	4	—	2	2	—	—	—	—	—	—	—	—	—	—
Fluorspar	7	5	5	—	—	—	2	2	—	—	—	—	—	—	—
Island spar	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Natural abrasives	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Potash	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Rock salt	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	DONA ANA			EDDY			GRANT			HIDALGO			LEA			LINCOLN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	—	5	2	5	19	19	5	5	2	2	5	—	6	2	2	—
Natural gasoline	—	—	—	—	—	—	—	—	—	—	—	—	5	—	6	—	—	—
Iron ore	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Lode gold	—	—	—	—	—	—	6	6	1	—	—	—	—	—	—	—	—	—
Placer gold	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Silver ore	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	1	1	—
Copper ore	—	—	—	—	—	—	2	2	1	1	1	1	—	—	—	—	—	—
Zinc ore	—	—	—	—	—	—	8	7	3	—	—	—	—	—	—	—	—	—
Tungsten ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Fire clay	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Common clay and shale	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fluorspar	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Potash	—	—	—	2	2	2	2	2	—	1	—	1	—	—	—	—	—	—
Rock salt	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	LUNA			McKINLEY			QUAY			RIO ARriba			SANDOVAL			SAN JUAN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	4	5	2	14	14	—	1	1	1	2	2	—	5	3	—	2	2	—
Bituminous coal	—	—	—	14	14	—	—	—	—	2	2	—	5	5	—	2	2	—
Lode gold	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manganese ore	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Fluorspar	2	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	SAN MIGUEL			SANTA FE			SIERRA			SOCORRO			TAOS			VALENCIA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	3	6	—	6	6	1	3	3	—	2	2	2	1	1	1
Bituminous coal	—	—	—	1	4	—	—	—	—	1	1	—	—	—	—	—	—	—
Lode gold	—	—	—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—
Placer gold	—	—	—	1	1	—	2	2	—	—	—	—	—	—	—	—	—	—
Copper ore	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Zinc ore	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manganese ore	—	—	—	—	—	—	1	1	1	2	2	—	—	—	—	—	—	—
Molybdenum ore	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Island spar	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Natural abrasives	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1

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 STATES, BY COUNTY, AND BY INDUSTRY: 1939¹—Continued

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

NEW YORK

INDUSTRY	STATE			ALBANY			ALLEGANY			WYOMING			CATTARAUGUS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	250	286	217	12	15	8	2	2	2	3	3	2	7	9	5
Natural gasoline	1		1										1		1
Iron ore	4	4	2												
Zinc ore	1	2	2												
Limestone, crushed and broken	51	62	50	2	2	2									
Granite, crushed and broken	1	1	1												
Granite, rough dimension	3	3													
Basalt, crushed and broken	3	3	3												
Sandstone, crushed and broken	5	4	5												
Sandstone, rough dimension	11	12	1												
Slate, crushed and broken	2	2	2												
Slate, rough dimension	4	4													
Miscellaneous stone, crushed and broken	1	1	1												
Common sand and gravel	85	100	100	1	1	1	2	2	2	2	2	2	3	4	4
Foundry sand	12	26	22	2	5	5							2	2	
Kaolin and ball clay	2	2		2	2										
Common clay and shale	33	54	2	5	5					1	1		1	1	
Diatomite	1	1													
Feldspar	1	2													
Graphite	1	1	1												
Gypsum	8	9	5												
Natural abrasives	2	2	1												
Peat	4	4	4												
Rock salt	2	2	2												
Talc and soapstone	2	5	3												

INDUSTRY	CATOUGA			CHAUTAUQUA			CHEMUNG			CLINTON			COLUMBIA			CORTLAND		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	3	3	3	3	3	2	4	4	4	8	8	6	2	2	2
Iron ore									2	1	1							
Limestone, crushed and broken	1	1	1						2	2	2	6	4	4				
Miscellaneous stone, crushed and broken																		
Common sand and gravel	1	1	1	3	3	3	2	2	2	1	1	1				2	2	2
Foundry sand							1	1					2	2	1			
Common clay and shale													2	2				

INDUSTRY	DELAWARE			DUTCHESS			ERIE			ESSEX			FULTON			GREENE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	7	7	2	8	8	7	16	17	11	2	2	2	1	1	1	7	7	6
Iron ore										1	1	1						
Limestone, crushed and broken				2	2	2	3	3	2				1	1	1	3	3	3
Sandstone, crushed and broken	1	1	1															
Sandstone, rough dimension	5	5					7	8	6	1	1	1				1	1	1
Common sand and gravel	1	1	1	1	1		3	3								3	3	2
Common clay and shale																		
Gypsum				1	1	1												
Peat																		

INDUSTRY	GREENE			HEWITT			JEFFERSON			KINGS			LEWIS			LIVINGSTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	6	6	5	4	4	5	1	1	1	1	1	1	1	1	1	2	3	3
Limestone, crushed and broken	3	3	3	2	2	2	1	1	1				1	1	1			
Sandstone, crushed and broken	1	1	1							1	1	1				1	2	2
Common sand and gravel				1	1	1												
Foundry sand	1	1	1															
Common clay and shale	1	1																
Diatomite				1	1											1	1	1
Rock salt																		

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: 1939—Continued

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

NEW YORK—Concluded

INDUSTRY	MADISON			MONROE			MONTGOMERY			NASSAU			NIAGARA			ONEIDA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	7	10	10	4	4	4	14	15	14	5	5	4	10	13	10
Iron ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Limestone, crushed and broken	2	2	2	2	5	5	5	5	5	—	—	—	2	2	2	4	4	4
Sandstone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Common sand and gravel	—	—	—	—	5	5	1	1	1	12	13	18	—	—	—	5	4	4
Foundry sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	3	2
Common clay and shale	—	—	—	—	—	—	—	—	—	2	2	1	1	1	—	—	—	—
Gypsum	—	—	—	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
INDUSTRY	ONONDAGA			ONTARIO			ORANGE			ORLEANS			OSWEGO			OTSEGO		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	8	8	6	4	4	5	9	9	8	5	5	5	1	1	1	5	5	5
Limestone, crushed and broken	1	1	1	1	1	1	1	1	1	2	2	2	—	—	—	1	1	1
Sandstone, rough dimension	—	—	—	—	—	—	—	—	—	3	3	1	—	—	—	—	—	—
Common sand and gravel	4	4	4	2	2	2	4	4	4	—	—	—	1	1	1	2	2	2
Common clay and shale	5	5	1	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Gypsum	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Peat	—	—	—	—	—	—	5	5	5	—	—	—	—	—	—	—	—	—
INDUSTRY	PUTNAM			QUEENS			RENSSELAIR			ROCKLAND			ST. LAWRENCE			SARATOGA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	2	2	2	4	4	2	6	7	6	6	10	8	10	15	15
Zinc ore	—	—	—	—	—	—	—	—	—	—	—	—	1	2	2	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	1	1	1	1	1	1	5	5	5
Granite, crushed and broken	1	1	1	—	—	—	—	—	—	5	5	5	—	—	—	—	—	—
Basalt, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	2	2	2	2	2	2	2	2	2	1	1	1	7	12	12
Foundry sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	2	2	—	1	1	—	1	1	1	—	—	—
Graphite	—	—	—	—	—	—	—	—	—	—	—	—	2	5	5	—	—	—
Talc and soapstone	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
INDUSTRY	SCHENECTADY			SCHOHARIE			STEUBEN			SUFFOLK			TIOGA			TOMPKINS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	5	5	5	2	2	2	13	13	13	1	1	1	5	5	5
Limestone, crushed and broken	—	—	—	5	5	5	—	—	—	—	—	—	—	—	—	1	1	1
Common sand and gravel	1	1	1	—	—	—	2	2	2	13	13	13	1	1	1	1	1	1
Foundry sand	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Rock salt	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
INDUSTRY	ULSTER			WARREN			WASHINGTON			WAYNE			WESTCHESTER			WYOMING		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	13	12	1	3	5	5	7	7	5	2	2	1	10	11	5	2	2	—
Iron ore	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Limestone, crushed and broken	2	2	—	2	2	2	1	1	1	1	1	1	2	2	2	—	—	—
Granite, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	2	2	—	—	—	—
Sandstone, crushed and broken	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—
Slate, crushed and broken	—	—	—	—	—	—	2	2	2	—	—	—	—	—	—	—	—	—
Slate, rough dimension	—	—	—	—	—	—	4	4	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	—	—	—	3	5	5	—	—	—
Common clay and shale	8	8	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Feldspar	—	—	—	—	—	—	—	—	—	—	—	—	1	2	—	—	—	—
Natural abrasives	—	—	—	1	1	1	—	—	—	—	—	—	1	1	—	—	—	—

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: 1939.—Continued

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

NORTH CAROLINA

INDUSTRY	STATE			ALAMANCE			ALLEGANY			ANSON			AVERY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	85	111	60	2	2	1	1	1	1	5	2	3	5	4	1
Copper ore-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Manganese ore-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Limestone, crushed and broken-----	5	5	5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Granite, crushed and broken-----	5	21	22	-----	-----	-----	1	1	1	-----	-----	-----	-----	-----	-----
Granite, rough dimension-----	7	7	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Basalt, crushed and broken-----	1	1	1	1	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Sandstone, crushed and broken-----	1	-----	1	-----	-----	-----	-----	-----	-----	1	-----	1	-----	-----	-----
Sandstone, rough dimension-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Marble, rough dimension-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Miscellaneous stone, crushed and broken-----	1	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Common sand and gravel-----	8	9	9	-----	-----	-----	-----	-----	-----	2	2	2	-----	-----	-----
Waxlin and ball clay-----	5	5	5	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	1
Common clay and shale-----	22	25	-----	1	1	-----	-----	-----	-----	-----	-----	-----	5	2	-----
Feldspar-----	13	17	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Gyrite, andalusite, and dumortierite-----	1	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mica-----	12	11	7	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	-----
Natural abrasives-----	1	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Talc and soapstone-----	5	5	5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Vermiculite-----	2	2	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

INDUSTRY	BUNCOMBE			BURKE			CATAMBA			CHATHAM			CHEROKEE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	1	2	2	2	1	1	1	1	1	-----	2	2	-----
Granite, crushed and broken-----	-----	-----	-----	1	1	1	1	1	1	-----	-----	-----	1	1	-----
Sandstone, rough dimension-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	-----
Marble, rough dimension-----	-----	-----	-----	1	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Miscellaneous stone, crushed and broken-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Common sand and gravel-----	1	1	1	-----	-----	-----	-----	-----	-----	1	1	-----	-----	-----	-----
Common clay and shale-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

INDUSTRY	CLEVELAND			COLUMBUS			GRAVEN			CUMBERLAND			DAVIDSON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	-----	1	1	-----	1	1	-----	1	1	-----	1	1	-----
Granite, rough dimension-----	1	1	-----	-----	-----	-----	1	1	-----	1	1	-----	1	1	-----
Common clay and shale-----	-----	-----	-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

INDUSTRY	FORSYTH			GASTON			GUILFORD			HALLFAX			HARRITT		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	1	2	2	-----	2	2	1	2	2	1	2	2	1
Granite, crushed and broken-----	1	1	1	-----	-----	-----	1	1	1	1	1	1	-----	-----	-----
Granite, rough dimension-----	-----	-----	-----	1	1	-----	-----	-----	-----	-----	-----	-----	1	1	1
Common sand and gravel-----	-----	-----	-----	1	1	-----	1	1	-----	1	1	-----	1	1	-----
Common clay and shale-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

INDUSTRY	HAYWOOD			HENDERSON			IRENELL			LEE			LINCOLN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	-----	2	5	1	2	2	1	2	2	-----	1	1	1
Limestone, crushed and broken-----	-----	-----	-----	1	1	1	-----	1	1	1	-----	-----	1	1	1
Granite, crushed and broken-----	-----	-----	-----	1	2	-----	1	1	-----	2	2	-----	-----	-----	-----
Common clay and shale-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mica-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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)

NORTH CAROLINA—Continued

INDUSTRY	MCDOWELL			MACON			MADISON			MITCHELL			MONTGOMERY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	1	5	5	3	3	3	3	15	16	7	1	1	
Manganese ore	1	1													
Limestone, crushed and broken	1	1	1												
Granite, crushed and broken				1	1	1				1	1	1			
Common sand and gravel							1	1	1						
Kaolin and ball clay										2	5	3			
Common clay and shale													1	1	
Feldspar										7	9				
Mica				2	2					5	3	3			
Talc and soapstone							2	2	2						
Vermiculite				2	2	2									

INDUSTRY	MOORE			NASH			RANDOLPH			ROCKINGHAM			ROWAN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	3	3	3	1	1		1	1	1	1	1	1	9	9	5
Granite, crushed and broken										1	1	1	4	3	4
Granite, rough dimension													4	4	
Common sand and gravel	1	1	1												
Common clay and shale				1	1								1	1	
Natural abrasives													1	1	1
Talc and soapstone	2	2	2				1	1	1						

INDUSTRY	RUTHERFORD			STANLY			STOKES			SURRY			SWAIN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	3	3	2	2	2		1	1		2	2	2	3	3	1
Copper ore													1	1	
Limestone, crushed and broken													1	1	1
Granite, crushed and broken	1	1	1							1	1	1			
Granite, rough dimension										1	1	1			
Common sand and gravel	1	1	1												
Common clay and shale	1	1		2	2		1	1							
Feldspar													1	1	

INDUSTRY	TRANSYLVANIA			VANCE			WAKE			WAYNE			YADKIN			YANCEY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	1	1	1	1	2	2	2	3	2	1	1	1	10	11	7
Granite, crushed and broken	1	1	1	1	1	1	1	2	2				1	1	1			
Common sand and gravel										1	2	2						1
Kaolin and ball clay																1	1	
Common clay and shale										1	1						5	1
Feldspar																		
Quartzite, andalusite and chert																1	1	1
Mica																4	4	4

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: 1939—Continued

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

NORTH DAKOTA

INDUSTRY	STATE			ADAMS			BILLINGS			BOWMAN			BURKE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	105	106	4	8	7	—	1	1	—	2	2	—	5	6	—
Lignite	101	102	—	8	7	—	1	1	—	2	2	—	5	6	—
Common sand and gravel	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	BURLINGTON			DIVIDE			EDEN			GOLDEN VALLEY			GRAND FORGE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	5	5	—	4	4	—	1	1	—	3	3	—	1	1	1
Lignite	5	5	—	4	4	—	1	1	—	3	3	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Fire clay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	GRANT			HETTINGER			MCKENZIE			MCLEAN			MERCER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	5	5	—	4	4	—	1	1	—	10	10	—	6	6	—
Lignite	5	5	—	4	4	—	1	1	—	10	10	—	6	6	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	MORTON			MOUNTRAIL			OLIVER			STARK			WARD			WILLIAMS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	7	7	2	3	3	—	2	2	—	5	4	—	23	23	1	11	11	—
Lignite	5	5	—	3	3	—	2	2	—	5	4	—	22	22	—	11	11	—
Common sand and gravel	1	1	1	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Fire clay	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)

OHIO

INDUSTRY	STATE			ADAMS			ALLEN			ASHLAND			ASHTABULA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	970	1,102	554	2	2	2	9	9	9	1	1	1	1	—	1
Natural gasoline	7	—	12	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal	614	656	7	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	115	182	154	1	1	1	9	9	9	—	—	—	—	—	—
Limestone, rough dimension	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	6	7	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	110	150	151	1	1	1	—	—	—	1	1	1	—	—	—
Glass sand	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Foundry sand	14	19	15	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	56	46	11	—	—	—	—	—	—	—	—	—	1	—	1
Common clay and shale	75	88	12	—	—	—	—	—	—	—	—	—	—	—	—
Gypsum	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Native asphalt and bitumens	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Natural abrasives	4	6	5	—	—	—	—	—	—	—	—	—	—	—	—
Peat	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	ATHENS			AUGLAIZE			BELMONT			BROWN			BUTLER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	29	29	5	4	5	5	40	44	5	1	1	1	10	10	5
Bituminous coal	26	25	2	—	—	—	39	45	2	—	—	—	—	—	—
Limestone, crushed and broken	2	2	2	1	1	1	1	1	1	1	1	1	—	—	—
Common sand and gravel	—	—	—	3	4	4	—	—	—	—	—	—	8	8	8
Foundry sand	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—
Common clay and shale	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	CARROLL			CHAMPAIGN			CLARK			CLERMONT			CLINTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	29	32	2	1	1	1	3	3	3	6	6	6	2	5	5
Bituminous coal	25	27	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	1	1	1	4	4	4	2	2	2
Common sand and gravel	—	—	—	1	1	1	2	2	2	2	2	2	1	1	1
Fire clay	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	4	4	2	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	COLUMBIANA			COSHOCTON			CRAWFORD			CUYAHOGA			DARKE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	33	64	7	46	47	5	2	2	2	17	19	12	1	1	1
Natural gasoline	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal	41	51	1	42	45	—	—	—	—	1	—	1	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	1	1	—	2	2	2	—	—	—	—	—	—
Common sand and gravel	4	5	4	2	2	2	—	—	—	1	1	—	—	—	—
Foundry sand	—	—	—	1	1	1	—	—	—	9	9	9	1	1	1
Fire clay	5	7	2	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	3	5	—	—	—	—	—	—	—	6	8	1	—	—	—
Natural abrasives	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—

INDUSTRY	DELAWARE			ERIE			FAIRFIELD			FAYETTE			FRANKLIN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	10	11	9	7	11	6	5	4	5	4	4	4	10	10	7
Natural gasoline	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	7	8	8	3	5	2	1	—	1	—	—	—	—	—	—
Limestone, rough dimension	—	—	—	—	—	—	—	—	—	4	4	4	2	2	2
Sandstone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—
Miscellaneous stone, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	1	5	5	3	5	5	—	—	—	5	5	5
Foundry sand	—	—	—	5	5	1	1	1	1	—	—	—	—	—	—
Common clay and shale	2	2	—	1	1	—	—	—	—	—	—	—	1	1	—

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: 1939.—Continued

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

OHIO—Continued

INDUSTRY	GALLIA			GRADY			CHICKEN			CUMBERLAND			HAMILTON			HANCOCK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	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	5	1	1	1	5	5	2	21	21	1	15	15	15	5	5	5
Bituminous coal	6	6	—	—	—	—	—	—	—	20	20	—	1	—	1	—	—	—
Limestone, crushed and broken	1	1	1	—	—	—	5	5	2	1	1	1	—	—	—	4	5	5
Common sand and gravel	1	1	1	1	1	1	—	—	—	—	—	—	11	15	15	—	—	—
Foundry sand	1	1	1	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—	1	1	1

INDUSTRY	HARDIN			HARRISON			HIGHLAND			HOCKING			HOLMES			HURON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	6	6	6	22	22	2	5	5	5	25	25	—	9	10	—	2	2	1
Bituminous coal	—	—	—	20	20	—	—	—	—	25	25	—	9	9	—	—	—	—
Limestone, crushed and broken	6	6	6	1	1	1	4	4	4	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	1	1	1	1	1	1	5	5	—	1	1	—	1	1	—
Native asphalt and bitumens	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Peat	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1

INDUSTRY	JACKSON			JEFFERSON			KNOX			LAKE			LAWRENCE			LICKING		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	29	50	4	55	55	5	5	5	5	5	5	1	25	27	3	5	4	4
Natural gasoline	—	—	—	—	—	—	—	—	—	—	—	—	14	14	—	1	—	1
Bituminous coal	25	25	—	55	55	1	—	—	—	—	—	—	5	5	—	—	—	—
Limestone, crushed and broken	1	1	1	—	—	—	2	2	2	1	1	1	—	—	—	2	2	2
Common sand and gravel	—	—	—	5	5	5	1	1	1	—	—	—	—	—	—	1	1	1
Glass sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Foundry sand	1	2	2	—	—	—	—	—	—	—	—	—	7	8	2	—	—	—
Fire clay	4	4	1	5	5	1	—	—	—	2	2	—	2	2	—	1	1	—
Common clay and shale	—	—	—	4	4	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	LOGAN			LORAIN			LUCAS			MADISON			MAHONING			MARION		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	5	5	5	2	2	—	6	7	6	2	2	1	20	22	1	5	6	6
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	19	20	—	4	5	5
Limestone, crushed and broken	5	5	5	—	—	—	4	5	5	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	1	1	1	—	—	—	1	1	1	1	1	1	—	—	—	1	1	1
Common sand and gravel	1	1	1	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Fire clay	—	—	—	—	—	—	1	1	—	1	1	—	1	1	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	MEDINA			MEigs			MERGER			MIAMI			MONROE			MONTGOMERY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	7	7	4	24	24	—	2	2	2	5	6	6	6	4	7	7	7	7
Natural gasoline	1	—	1	—	—	—	—	—	—	—	—	—	5	—	3	—	—	—
Bituminous coal	5	—	—	24	24	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	2	2	2	1	1	1	5	4	4	1	1	1
Common sand and gravel	2	5	5	—	—	—	—	—	—	5	4	4	—	—	—	6	6	6
Common clay and shale	1	1	—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Peat	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)

OHIO—Concluded

INDUSTRY	MORGAN			MUSKINGUM			NOBLE			OTTAWA			PAULDING			PERRY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	7	8	5	39	41	6	5	4	2	4	5	3	1	1	1	74	75	4
Natural gasoline	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—
Bituminous coal	3	3	—	35	35	—	2	2	—	—	—	—	—	—	—	64	65	—
Limestone, crushed and broken	4	5	5	2	2	2	1	1	1	3	3	3	1	1	1	—	—	—
Common sand and gravel	—	—	—	2	3	3	—	—	—	—	—	—	—	—	—	—	—	—
Glass sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Foundry sand	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	2	2	2
Fire clay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—
Common clay and shale	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	5	5	1
Gypsum	—	—	—	—	—	—	—	—	—	2	2	—	—	—	—	—	—	—
INDUSTRY	PICKAWAY			PIKE			PORTAGE			PREBLE			PUTNAM			RICHLAND		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	2	2	2	7	8	4	3	3	3	6	7	6	6	5	3
Natural gasoline	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	1
Bituminous coal	—	—	—	—	—	—	3	3	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	1	1	1	5	6	6	—	—	—
Common sand and gravel	1	1	1	2	2	2	3	3	3	2	2	2	—	—	—	2	2	2
Foundry sand	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	1	1	—	—	—	—	1	1	—	3	3	—
INDUSTRY	ROSS			SANDUSKY			SCIOTO			SENECA			SHELBY			STARKE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	4	4	3	7	7	7	7	7	3	4	5	4	1	1	1	48	54	6
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51	34	—
Limestone, crushed and broken	—	—	—	7	7	7	—	—	—	3	4	4	—	—	—	2	2	2
Sandstone, rough dimension	—	—	—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	3	3	3	—	—	—	1	1	1	—	—	—	1	1	1	4	6	6
Foundry sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Fire clay	—	—	—	—	—	—	3	3	2	—	—	—	—	—	—	2	3	—
Common clay and shale	1	1	—	—	—	—	1	1	—	1	1	—	—	—	—	8	8	—
INDUSTRY	SUMMIT			THURBULL			TUSCARAWAS			UNION			VAN WERT			VINTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	8	8	5	1	1	1	112	125	17	3	3	3	2	3	3	17	21	4
Bituminous coal	—	—	—	—	—	—	83	85	—	—	—	—	—	—	—	14	15	—
Limestone, crushed and broken	—	—	—	—	—	—	2	2	1	2	2	2	2	3	3	3	4	4
Common sand and gravel	5	5	5	1	1	1	7	7	7	1	1	1	—	—	—	—	—	—
Foundry sand	—	—	—	—	—	—	1	2	2	—	—	—	—	—	—	—	—	—
Fire clay	—	—	—	—	—	—	10	13	2	—	—	—	—	—	—	—	—	—
Common clay and shale	3	3	—	—	—	—	13	16	5	—	—	—	—	—	—	1	1	1
INDUSTRY	WARREN			WASHINGTON			WAYNE			WILLIAMS			WOOD			WYANDOT		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	8	7	6	6	5	2	2	2	1	5	6	6	6	6	5
Natural gasoline	—	—	—	2	—	2	1	—	1	—	—	—	—	—	—	—	—	—
Bituminous coal	—	—	—	2	2	—	3	3	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	5	6	6	3	3	3
Common sand and gravel	2	2	2	—	—	—	1	1	1	1	1	1	—	—	—	2	2	2
Common clay and shale	—	—	—	—	—	—	1	1	—	1	1	—	—	—	—	1	1	—
Natural abrasives	—	—	—	4	5	4	—	—	—	—	—	—	—	—	—	—	—	—

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)

OKLAHOMA

INDUSTRY	STATE ^a			ALFALFA			ATOKA			BEAVER			BECKMAN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	248	235	223	1	1	1	1	1	1	1	1	1	1	1	1
Natural gasoline-----	55	---	139	---	---	---	---	---	---	---	---	---	1	---	1
Bituminous coal-----	86	88	---	---	---	---	---	---	---	---	---	---	---	---	---
Lead ore-----	4	5	---	---	---	---	---	---	---	---	---	---	---	---	---
Zinc ore-----	59	61	55	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	14	19	19	---	---	---	1	1	1	---	---	---	---	---	---
Granite, rough dimension-----	2	2	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	18	21	21	1	1	1	---	---	---	---	---	---	---	---	---
Glass sand-----	2	2	2	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	7	9	1	---	---	---	---	---	---	---	---	---	---	---	---
Bentonite-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Gypsum-----	3	3	2	---	---	---	---	---	---	---	---	---	---	---	---
Native asphalt and bitumens-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives-----	2	2	1	---	---	---	---	---	---	1	1	1	---	---	---

INDUSTRY	BLAINE			CARTER			CHEROKEE			COAL			COMANCHE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	3	3	2	3	---	4	1	1	1	8	8	1	1	1	1
Natural gasoline-----	---	---	---	3	---	4	---	---	---	---	---	---	---	---	---
Bituminous coal-----	---	---	---	---	---	---	---	---	---	7	7	---	---	---	---
Limestone, crushed and broken-----	---	---	---	---	---	---	1	1	1	1	1	1	1	1	1
Common sand and gravel-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Gypsum-----	3	3	2	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	CRAIG			CREEK			CUSTER			DELANE			DEWEY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	3	3	---	23	1	26	2	1	1	1	1	1	2	2	2
Natural gasoline-----	---	---	---	22	---	26	1	---	1	---	---	---	---	---	---
Bituminous coal-----	3	3	---	---	---	---	---	---	---	1	1	1	---	---	---
Miscellaneous stone, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	2	2	2
Common sand and gravel-----	---	---	---	1	1	---	1	1	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	GARFIELD			GREER			HARMON			HASKELL			HUGHES		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	2	---	2	1	1	---	1	---	1	4	3	---	3	1	2
Natural gasoline-----	2	---	2	---	---	---	1	---	1	---	---	---	2	---	2
Bituminous coal-----	---	---	---	---	---	---	---	---	---	4	3	---	---	---	---
Granite, rough dimension-----	---	---	---	1	1	---	---	---	---	---	---	---	1	1	---
Natural abrasives-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	JOHNSTON			KAY			KIOWA			LATIMER			LE FLORE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	1	2	---	2	1	1	---	3	3	---	29	29	---
Natural gasoline-----	---	---	---	2	---	2	---	---	---	3	3	---	29	29	---
Bituminous coal-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, rough dimension-----	1	1	1	---	---	---	1	1	---	---	---	---	---	---	---
Glass sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

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)

OKLAHOMA—Concluded

INDUSTRY	LINCOLN			LOGAN			MAJOR			MURRAY			MUSKOGEE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	5	—	5	1	—	1	1	1	1	5	4	4	9	8	6
Natural gasoline	5	—	5	1	—	1	—	—	—	—	—	—	1	—	2
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	—	4	—
Limestone, crushed and broken	—	—	—	—	—	—	1	1	1	1	2	2	1	4	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	1	1	1	4	4	4
Native asphalt and bitumens	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—

INDUSTRY	NOBLE			NOWATA			OKTUSKEE			OKLAHOMA			OKMULGEE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	—	3	3	1	5	2	—	3	10	4	16	11	9	2
Natural gasoline	2	—	3	2	—	4	2	—	5	6	—	14	2	—	2
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	9	9	—
Limestone, crushed and broken	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	2	2	2	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	2	2	—	—	—	—

INDUSTRY	OSAGE			OTTAWA ⁶			PAWNEE			PAYNE			PITTSBURG		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	11	1	18	63	67	56	3	1	4	5	1	5	18	19	1
Natural gasoline	10	—	17	—	—	—	2	—	3	4	—	4	—	—	—
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	17	16	—
Lead ore	—	—	—	4	5	—	—	—	—	—	—	—	—	—	—
Zinc ore	—	—	—	59	61	55	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	1	1	1	1	1	1	—	—	—	1	1	1	1	1	1
Common sand and gravel	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—

INDUSTRY	PONTOTOC			POTTAWATOMIE			ROGERS			SEMINOLE			SEQUOYAN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	6	4	5	4	—	4	3	2	1	15	3	25	2	2	1
Natural gasoline	3	—	3	4	—	4	1	—	1	10	—	20	—	—	—
Bituminous coal	—	—	—	—	—	—	2	2	—	—	—	—	1	1	—
Limestone, crushed and broken	1	1	1	—	—	—	—	—	—	2	2	2	1	1	1
Glass sand	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	2	2	—	—	—	—	—	—	—	1	1	1	—	—	—

INDUSTRY	TULSA			WAGONER			WASHINGTON			WOODWARD		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	26	19	22	5	4	3	4	1	4	1	1	1
Natural gasoline	9	—	11	2	—	—	3	—	—	—	—	—
Bituminous coal	6	6	—	2	3	2	—	—	3	—	—	—
Limestone, crushed and broken	3	3	5	—	—	—	1	—	—	—	—	—
Common sand and gravel	8	8	8	1	1	1	—	1	—	—	—	—
Common clay and shale	2	2	—	—	—	—	—	—	—	—	—	—
Bentonite	—	—	—	—	—	—	—	—	—	1	1	1

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)

OREGON

INDUSTRY	STATE			BAKER			BENTON			CLATSOP			CLATSOP		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	114	123	60	17	16	4	3	3	2	4	4	4	2	2	2
Bituminous coal—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Lode gold—	20	18	12	9	8	5	—	—	—	—	—	—	—	—	—
Placer gold—	30	28	—	7	7	—	—	—	—	—	—	—	—	—	—
Mercury—	8	8	8	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	3	4	3	1	1	1	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken—	16	22	21	—	—	—	1	1	1	1	1	1	2	2	2
Basalt, rough dimension—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	29	31	31	—	—	—	1	1	1	3	3	3	—	—	—
Common clay and shale—	5	4	—	—	—	—	1	1	—	—	—	—	—	—	—
Diatomite—	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Natural abrasives—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	COLUMBIA			COOS			CROCK			DESHUTES			DOUGLAS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	1	1	1	4	4	3	3	3	3	2	4	4	4	4	3
Bituminous coal—	—	—	—	1	1	—	—	—	—	—	—	—	1	1	1
Mercury—	—	—	—	—	—	—	3	3	3	—	—	—	—	—	—
Basalt, crushed and broken—	1	1	1	1	1	1	—	—	—	1	3	3	1	1	—
Sandstone, rough dimension—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Common sand and gravel—	—	—	—	2	2	2	—	—	—	1	1	1	2	2	2
Diatomite—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	GRANT			HOOD RIVER			JACKSON			JEFFERSON			JOSEPHINE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	11	10	3	2	3	3	16	16	9	2	2	2	9	9	3
Lode gold—	3	3	3	—	—	—	6	5	3	—	—	—	1	1	1
Placer gold—	8	7	—	—	—	—	7	7	1	1	1	1	5	5	—
Mercury—	—	—	—	—	—	—	1	1	—	—	—	—	1	1	1
Limestone, crushed and broken—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Basalt, crushed and broken—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Sandstone, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken—	—	—	—	1	1	1	—	—	—	—	—	—	1	1	1
Common sand and gravel—	—	—	—	2	2	2	1	1	1	—	—	—	1	1	1

INDUSTRY	KLAMATH			LAKE			LAKE			LINCOLN			LEWIS			MALHEUR		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation 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	—	—	—	—	—	—	—	2	1	—
Placer gold—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mercury—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	1	1	1
Basalt, crushed and broken—	3	3	3	1	2	2	—	—	—	3	3	3	—	—	—	—	—	—
Common sand and gravel—	—	—	—	—	—	—	2	2	2	—	—	—	2	2	2	1	1	1
Diatomite—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Natural abrasives—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	MARION			MILWATMAN			POLK			SHERMAN			WASHINGTON			YAMHILL		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	5	5	4	9	11	8	3	3	2	1	2	2	2	2	2	2	2	1
Limestone, crushed and broken—	—	—	—	—	—	—	2	2	1	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken—	2	2	1	1	1	—	—	—	1	2	2	—	—	—	—	—	—	—
Basalt, rough dimension—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Common sand and gravel—	3	3	3	7	8	8	1	1	1	—	—	—	2	2	2	2	1	1
Common clay and shale—	—	—	—	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—

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)

PENNSYLVANIA

INDUSTRY	STATE			ADAMS			ALLEGHENY			ARMSTRONG			BEAVER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1,066	2,271	658	9	9	8	156	187	23	58	41	9	46	46	16
Natural gasoline	70	—	107	—	—	—	6	—	9	1	—	1	1	—	1
Bituminous coal	1,046	1,258	52	—	—	—	138	155	8	28	29	5	23	23	1
Pennsylvania anthracite	546	507	192	—	—	—	—	—	—	—	—	—	—	—	—
Iron ore	2	4	2	—	—	—	—	—	—	—	—	—	—	—	—
Copper ore	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	157	184	182	4	4	4	—	—	—	2	3	5	—	—	—
Limestone, rough dimension	4	4	1	—	—	—	—	—	—	—	—	—	—	—	—
Granite, crushed and broken	6	6	6	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	10	10	—	—	—	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken	9	10	10	1	1	1	—	—	—	—	—	—	—	—	—
Basalt, rough dimension	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	30	35	24	2	2	2	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	6	6	1	—	—	—	—	—	—	—	—	—	1	1	—
Slate, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Slate, rough dimension	24	24	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	6	6	7	1	1	1	—	—	—	—	—	—	—	—	—
Common sand and gravel	48	53	53	—	—	—	2	2	2	—	—	—	6	8	8
Glass sand	4	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Foundry sand	12	12	5	—	—	—	3	3	2	—	—	—	—	—	—
Naolin and ball clay	6	6	5	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	45	76	11	—	—	—	—	—	—	6	6	2	11	11	4
Common clay and shale	53	59	11	1	1	—	7	7	2	3	3	—	5	5	2
Tals and soapstone	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Tripoli	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	BEDFORD			BERKS			BLAIR			BRADFORD			BUCKS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	23	25	6	17	20	17	26	50	9	2	2	—	18	18	12
Bituminous coal	17	18	1	—	—	—	11	14	—	2	2	—	—	—	—
Pennsylvania anthracite	—	—	—	2	3	3	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	3	4	3	9	10	9	6	6	6	—	—	—	3	3	3
Limestone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Granite, crushed and broken	—	—	—	1	1	1	—	—	—	—	—	—	1	1	1
Granite, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	3	3	—
Basalt, crushed and broken	—	—	—	2	2	2	—	—	—	—	—	—	1	1	1
Sandstone, crushed and broken	2	2	1	1	1	1	4	5	1	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	2	2	2
Common sand and gravel	—	—	—	1	1	1	—	—	—	—	—	—	6	6	5
Glass sand	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Foundry sand	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Fire clay	—	—	—	—	—	—	3	3	—	—	—	—	—	—	—
Common clay and shale	—	—	—	1	2	—	—	—	—	—	—	—	1	1	—

INDUSTRY	BUTLER			CAMBRIA			CAMERON			CARBON			CENTRE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	77	67	24	148	183	15	2	2	—	16	16	11	44	46	3
Natural gasoline	15	—	19	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal	55	57	—	145	177	15	2	2	—	—	—	—	36	38	—
Pennsylvania anthracite	—	—	—	—	—	—	—	—	—	12	12	7	—	—	—
Iron ore	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Limestone, crushed and broken	4	5	4	—	—	—	—	—	—	—	—	—	4	4	3
Sandstone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Sandstone, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Common sand and gravel	1	1	1	—	—	—	—	—	—	1	1	1	—	—	—
Foundry sand	—	—	—	—	—	—	—	—	—	1	1	1	1	1	—
Fire clay	—	—	—	3	5	—	—	—	—	—	—	—	2	2	—
Common clay and shale	5	3	—	1	1	—	—	—	—	—	—	—	—	—	—

INDUSTRY	CHESTER			CLARION			CLEARFIELD			CLINTON			COLUMBIA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	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	10	8	46	42	12	115	145	2	15	15	1	11	15	9
Natural gasoline	—	—	—	7	—	10	—	—	—	—	—	—	—	—	—
Bituminous coal	—	—	—	35	35	—	106	117	—	10	10	—	—	—	—
Pennsylvania anthracite	—	—	—	—	—	—	—	—	—	—	—	—	9	13	8
Limestone, crushed and broken	5	4	3	—	—	—	—	—	—	1	1	1	—	—	—
Granite, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Glass sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Naolin and ball clay	1	1	1	1	1	1	—	—	—	—	—	—	—	—	—
Fire clay	—	—	—	4	5	1	11	26	1	3	3	—	—	—	—
Common clay and shale	1	1	1	1	1	—	2	2	1	1	1	—	1	1	—

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: 1936¹—Continued

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

PENNSYLVANIA—Continued

INDUSTRY	CRAWFORD			CUMBERLAND			DAUPHIN			DELAWARE			ELK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	14	3	15	9	9	8	18	20	16	9	9	2	15	19	2
Natural gasoline—	11	—	13	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal—	1	1	—	—	—	—	—	—	—	—	—	—	1	—	1
Pennsylvania anthracite—	—	—	—	—	—	—	—	—	—	—	—	—	21	25	—
Limestone, crushed and broken—	—	—	—	7	7	7	6	7	7	—	—	—	—	—	—
Granite, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Basalt, crushed and broken—	—	—	—	—	—	—	—	—	—	4	4	—	—	—	—
Basalt, rough dimension—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Sandstone, crushed and broken—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Common sand and gravel—	2	2	2	—	—	—	1	1	1	—	—	—	—	—	—
Foundry sand—	—	—	—	—	—	—	2	2	2	—	—	—	—	—	—
Shale and ball clay—	—	—	—	1	1	1	—	—	—	—	—	—	1	1	1
Fire clay—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	1	1	—	2	2	—	2	2	—

INDUSTRY	ERIE			FAIRFAX			FOREST			FRANKLIN			FULFORD		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	4	5	5	89	115	9	6	2	5	12	12	11	4	4	1
Natural gasoline—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal—	—	—	—	81	107	3	4	1	4	—	—	—	1	1	—
Limestone, crushed and broken—	—	—	—	2	2	2	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken—	—	—	—	5	5	2	—	—	—	11	11	10	5	5	1
Common sand and gravel—	2	5	3	2	2	2	1	1	1	1	1	1	—	—	—
Foundry sand—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	GREENE			HUNTINGDON			INDIANA			JEFFERSON			JUNIATA			LACKAWANNA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	19	15	7	21	22	11	58	47	3	43	43	3	2	2	1	127	146	58
Natural gasoline—	4	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal—	14	14	2	9	10	1	35	42	1	37	37	1	—	—	—	—	—	—
Pennsylvania anthracite—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	—	—	—	6	6	6	1	1	1	—	—	—	1	1	1	127	146	58
Sandstone, crushed and broken—	—	—	—	4	4	2	1	1	1	—	—	—	1	1	—	—	—	—
Glass sand—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay—	—	—	—	1	1	1	3	3	—	5	5	1	—	—	—	—	—	—
Common clay and shale—	1	1	—	—	—	—	—	—	—	3	3	1	—	—	—	—	—	—

INDUSTRY	LANCASTER			LAWRENCE			LEBANON			LEHIGH			LUKEBURG			LYCOMING		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	50	51	30	18	18	8	11	14	11	19	19	6	112	133	55	17	17	8
Bituminous coal—	—	—	—	7	7	—	—	—	—	—	—	—	—	—	—	10	9	—
Pennsylvania anthracite—	—	—	—	—	—	—	1	1	1	1	1	1	105	144	50	—	—	—
Iron ore—	—	—	—	—	—	—	1	3	1	—	—	—	—	—	—	—	—	—
Copper ore—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	—	—	—	—	—	—	8	9	7	6	7	5	—	—	—	3	3	2
Limestone, rough dimension—	25	26	26	7	7	7	—	—	—	1	1	—	—	—	—	—	—	—
Sandstone, crushed and broken—	—	—	—	—	—	—	1	1	1	—	—	—	3	3	3	—	—	—
Slate, rough dimension—	—	—	—	—	—	—	—	—	—	9	9	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	1	1	1	—	—	—	—	—	—	—	—	—	4	4	4	3	3	5
Foundry sand—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Shale and ball clay—	2	2	2	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Fire clay—	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	2	2	1	1	1	—	—	—	—	—	—	—	1	1	—	1	1	1
Tripled—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)

PENNSYLVANIA—Concluded

INDUSTRY	McKEAN			MERCER			MIFFLIN			MONROE			MONTGOMERY			MONTGOMERY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	5	2	6	15	17	4	5	5	4	2	2	1	30	31	21	3	3	2
Natural gasoline	5	—	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal	—	—	—	12	14	1	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	1	1	1	1	1	1	11	12	9	3	3	2
Limestone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	2	2	1	—	—	—
Granite, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	2	2	2	—	—	—
Basalt, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	4	4	4	—	—	—
Basalt, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Sandstone, crushed and broken	—	—	—	—	—	—	1	1	—	—	—	—	2	2	2	—	—	—
Sandstone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Miscellaneous stone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	5	5	2	—	—	—
Common sand and gravel	—	—	—	3	3	3	1	1	1	—	—	—	1	1	1	—	—	—
Glass sand	—	—	—	—	—	—	2	2	2	—	—	—	—	—	—	—	—	—
Kaolin and ball clay	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Fire clay	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	1	1	1	—	—	—	—	—	—	—	—	—	5	5	—	—	—	—
INDUSTRY	NORTHAMPTON			NORTHUMBERLAND			PERRY			PHILADELPHIA			SCHUYLKILL			SNYDER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	30	30	15	30	50	24	1	2	2	4	4	—	78	126	50	1	1	1
Pennsylvania anthracite	1	1	1	24	44	21	—	—	—	—	—	—	75	124	49	—	—	—
Limestone, crushed and broken	12	12	12	1	1	1	1	1	1	—	—	—	—	—	—	1	1	1
Granite, rough dimension	—	—	—	—	—	—	—	—	—	2	2	—	—	—	—	—	—	—
Sandstone, crushed and broken	—	—	—	1	1	1	1	1	1	—	—	—	1	1	1	—	—	—
Sandstone, rough dimension	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Slate, rough dimension	15	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Foundry sand	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	2	2	1	—	—	—	1	1	—	1	1	—	—	—	—
Talc and soapstone	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
INDUSTRY	SOMERSET			SULLIVAN			SUSQUEHANNA			TIOGA			UNION			YEMANCO		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	92	115	5	4	6	4	4	4	1	14	15	3	1	1	1	20	8	19
Natural gasoline	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12	—	16
Bituminous coal	86	106	2	—	—	—	—	—	—	15	14	2	—	—	—	5	5	—
Pennsylvania anthracite	—	—	—	4	6	4	3	3	1	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	3	4	2	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Sandstone, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	2	2	2
Common sand and gravel	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Foundry sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Fire clay	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
INDUSTRY	WARREN			WASHINGTON			WAYNE			WESTMORELAND			WYOMING			YORK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	21	3	21	76	87	9	3	3	2	101	118	6	2	2	2	13	13	20
Natural gasoline	18	—	20	4	—	4	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal	1	1	—	73	84	5	—	—	—	96	113	6	—	—	—	1	1	1
Pennsylvania anthracite	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	8	8	7
Sandstone, crushed and broken	—	—	—	—	—	—	1	1	1	2	2	2	—	—	—	—	—	—
Slate, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Common sand and gravel	1	1	1	—	—	—	1	1	1	—	—	—	2	2	2	—	—	—
Common clay and shale	1	1	—	5	3	—	—	—	—	2	2	—	—	—	—	3	3	1

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: 1936¹—Continued

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

RHODE ISLAND

INDUSTRY	STATE			BRISTOL			KENT			NEWPORT			PROVIDENCE			WASHINGTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	20	21	16	2	2	1	2	2	1	3	3	3	9	10	10	4	4	1
Limestone, crushed and broken—	1	1	1										1	1	1			
Granite, crushed and broken—	1	1	1															
Granite, rough dimension—	4	4	1							1	1	1						
Basalt, crushed and broken—	2	2	2													4	4	1
Miscellaneous stone, crushed and broken—	3	3	3										2	2	2			
Common sand and gravel—	8	8	8	1	1	1	1	1	1	2	2	2	3	3	3			
Foundry sand—	1	1					1	1					4	4	4			
Common clay and shale—	1	1		1	1													

SOUTH CAROLINA

INDUSTRY	STATE			Aiken			Allendale			Calhoun			Charleston		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	54	44	23	8	14	6	1	1	1	1	1	1	1	1	1
Lode gold—	2	2	1												
Limestone, crushed and broken—	4	4	3							1	1	1			
Granite, crushed and broken—	4	4	4												
Granite, rough dimension—	1	1													
Common sand and gravel—	5	7	7	1	1	1	1	1	1				1	1	1
Glass sand—	1	1	1												
Kaolin and ball clay—	6	12	7	6	12	7									
Common clay and shale—	11	12		1	1										
Barite—	1	1													

INDUSTRY	CHEROKEE			DARLINGTON			DORCHESTER			FAIRFIELD			GREENWOOD		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	5	5	1	1	1		1	1		2	2	1	1	1	1
Limestone, crushed and broken—	1	1	1							1	1	1	1	1	1
Granite, crushed and broken—															
Granite, rough dimension—															
Common sand and gravel—															
Glass sand—															
Kaolin and ball clay—															
Common clay and shale—	1	1		1	1		1	1		1	1				
Barite—	1	1													

INDUSTRY	LANCASTER			LEXINGTON			MARION			MARLBORO			NEWBERRY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	2	2	1	4	4	3	2	2		3	3	1	1	1	
Lode gold—	1	1	1												
Limestone, crushed and broken—				1	1	1									
Granite, crushed and broken—															
Granite, rough dimension—										1	1	1	1	1	
Common sand and gravel—				2	2	2									
Glass sand—															
Kaolin and ball clay—															
Common clay and shale—	1	1		1	1		2	2		2	2				
Barite—															

INDUSTRY	ORANGEBURG			PICKENS			RICHLAND			WILLIAMSBURG			YORK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	1	1		1	1	1	3	3	2	1	1	1	1	1	
Lode gold—													1	1	
Limestone, crushed and broken—	1	1		1	1	1	1	1	1						
Granite, crushed and broken—															
Granite, rough dimension—															
Common sand and gravel—							1	1	1						
Glass sand—										1	1	1			
Kaolin and ball clay—															
Common clay and shale—							1	1							
Barite—															

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)

SOUTH DAKOTA

INDUSTRY	STATE			BUTTE			CODINGTON			CUSTER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	55	55	23	4	5	2	1	1	1	12	12	
Lignite	4	4										
Lode gold	9	8	9									
Limestone, crushed and broken	4	4	2							1	1	
Granite, crushed and broken	1	1	1									
Granite, rough dimension	6	6										
Sandstone, crushed and broken	4	4	4									
Sandstone, rough dimension	3	3								2	2	
Common sand and gravel	4	4	4				1	1	1			
Common clay and shale	1	1		1	1							
Bentonite	5	4	3	3	2	2						
Feldspar	11	11								9	9	
Lithium minerals	2	2										
Gypsum	1	1										
Mica	2	2										

INDUSTRY	DEBKI			FALL RIVER			GRANT			HANSON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	3	3		3	5	1	6	6		2	2	2
Lignite	3	3										
Lode gold												
Limestone, crushed and broken												
Granite, crushed and broken												
Granite, rough dimension							6	6				
Sandstone, crushed and broken										2	2	2
Sandstone, rough dimension				1	1							
Common sand and gravel				1	1	1						
Common clay and shale												
Bentonite				1	1							
Feldspar												
Lithium minerals												
Gypsum												
Mica												

INDUSTRY	LAWRENCE			MEADE			MINNEHAHA			PENNINGTON			PERKINS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	7	6	7	2	2	1	5	6	5	10	10	4	1	1	
Lignite															
Lode gold	6	5	6							3	3	5	1	1	
Limestone, crushed and broken	1	1	1				1	1		1	1	1			
Granite, crushed and broken							1	1	1						
Granite, rough dimension															
Sandstone, crushed and broken							2	2	2						
Sandstone, rough dimension															
Common sand and gravel							2	2	2						
Common clay and shale															
Bentonite				1	1	1									
Feldspar										2	2				
Lithium minerals										2	2				
Gypsum				1	1										
Mica										2	2				

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: 1938¹—Continued

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

TENNESSEE

INDUSTRY	STATE			ANDERSON			BENTON			BLECKEE			BLOUNT		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	212	256	88	12	14	---	4	5	4	4	4	1	6	7	4
Bituminous coal-----	114	125	4	12	14	---	---	---	---	5	5	---	---	---	---
Iron ore-----	1	2	1	---	---	---	---	---	---	---	---	---	---	---	---
Copper ore-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Lead ore ² -----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Zinc ore-----	2	3	2	---	---	---	---	---	---	---	---	---	---	---	---
Manganese ore-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Limestone, crushed and broken-----	32	37	50	---	---	---	---	---	---	1	1	1	2	2	2
Sandstone, rough dimension-----	4	4	1	---	---	---	---	---	---	---	---	---	---	---	---
Marble, crushed and broken-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Marble, rough dimension-----	6	12	1	---	---	---	---	---	---	---	---	---	3	3	1
Common sand and gravel-----	16	20	20	---	---	---	2	5	3	---	---	---	1	1	1
Glass sand-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Foundry sand-----	3	3	1	---	---	---	2	2	1	---	---	---	---	---	---
Kaolin and ball clay-----	5	8	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	13	16	---	---	---	---	---	---	---	---	---	---	1	1	---
Fuller's earth-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Barite-----	5	6	6	---	---	---	---	---	---	---	---	---	---	---	---
Phosphate rock-----	12	14	15	---	---	---	---	---	---	---	---	---	---	---	---
Tripoli-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	CAMPBELL			CARROLL			CARTER			CLAIBORNE			COCKE			CUMBERLAND		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	29	31	2	1	1	---	1	1	1	10	11	---	1	1	1	8	8	1
Bituminous coal-----	28	30	1	---	---	---	---	---	---	10	11	---	---	---	---	4	4	---
Limestone, crushed and broken-----	---	---	---	---	---	---	1	1	1	---	---	---	1	1	1	1	1	1
Sandstone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5	5	---
Common sand and gravel-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kaolin and ball clay-----	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	DAVIDSON			DECATUR			DICKSON			FENTRESS			FRANKLIN			GILLES		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	8	9	5	1	1	1	1	1	1	7	6	2	5	5	5	1	1	2
Bituminous coal-----	---	---	---	---	---	---	---	---	---	5	5	---	---	---	---	---	---	---
Limestone, crushed and broken-----	2	3	1	---	---	---	1	1	1	---	---	---	5	5	3	---	---	---
Common sand and gravel-----	3	3	3	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---
Glass sand-----	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---
Common clay and shale-----	2	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Barite-----	---	---	---	---	---	---	---	---	---	2	1	2	---	---	---	1	1	2
Phosphate rock-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tripoli-----	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	GRAINGER			GREENE			HUNTER			HAMILTON			HENRY			HICKMAN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	---	1	1	1	1	1	1	14	15	3	3	4	1	1	2	2
Bituminous coal-----	---	---	---	---	---	---	1	1	1	7	7	---	---	---	---	---	---	---
Iron ore-----	---	---	---	1	1	1	---	---	---	2	2	2	---	---	---	1	1	1
Limestone, crushed and broken-----	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	1	1	1
Sandstone, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Marble, rough dimension-----	1	1	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Kaolin and ball clay-----	---	---	---	---	---	---	---	---	---	---	---	---	2	5	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	4	4	---	1	1	1	---	---	---
Fuller's earth-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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)

TENNESSEE—Concluded

INDUSTRY	HOUSTON			HUMPHREYS			JEFFERSON			JOHNSON			KNOX			LEWIS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	—	1	1	1	1	1	1	1	1	—	15	19	7	1	1	1
Iron ore	—	—	—	—	—	—	—	—	—	—	—	—	1	2	1	1	1	1
Zinc ore	—	—	—	—	—	—	1	1	1	—	—	—	4	4	2	—	—	—
Limestone, crushed and broken	1	1	—	—	—	—	—	—	—	1	1	—	1	1	1	—	—	—
Marble, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	4	7	—	—	—	—
Marble, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	3	3	3	—	—	—
Common sand and gravel	—	—	—	1	1	1	—	—	—	—	—	—	2	2	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	MCMINN			MADISON			MARION			MARSHALL			MAURY			MONROE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	1	1	—	15	15	3	1	1	1	12	15	15	1	5	1
Bituminous coal	—	—	—	—	—	—	11	11	1	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	1	1	1	1	1	1	1	1	1	—	—	—
Common sand and gravel	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	1	5	1
Barite	2	2	2	—	—	—	—	—	—	—	—	—	11	12	12	—	—	—
Phosphate rock	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	MONTGOMERY			MORGAN			OVERTON			POLK			PUTNAM			RHEA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	9	9	1	3	3	1	1	2	1	4	4	1	5	3	—
Bituminous coal	—	—	—	9	9	1	2	2	—	—	—	—	3	3	—	2	2	—
Copper ore	1	1	1	—	—	—	—	—	—	1	2	1	—	—	—	—	—	—
Limestone, crushed and broken	1	1	1	—	—	—	1	1	1	—	—	—	1	1	1	—	—	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Common clay and shale	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	ROANE			SCOTT			SEQUATCHIE			SHELBY			SULLIVAN			UNION		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	1	10	10	—	4	4	—	5	5	3	2	3	2	1	1	—
Bituminous coal	—	—	—	10	10	—	4	4	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Marble, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Common sand and gravel	1	1	1	—	—	—	—	—	—	3	3	3	1	1	1	—	—	—
Common clay and shale	1	1	—	—	—	—	—	—	—	2	2	—	1	1	—	—	—	—

INDUSTRY	VAN BUREN			WASHINGTON			WRAKLEY			WHITE			WILLIAMSON			WILSON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	3	3	—	2	3	2	2	4	—	9	9	4	1	1	1	1	1	1
Bituminous coal	3	3	—	—	—	—	—	—	—	4	4	—	—	—	—	—	—	—
Lead ore	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Manganese ore	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	5	5	4	1	1	1	1	1	1
Kaolin and ball clay	—	—	—	—	—	—	2	4	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—

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: 1939*—Continued

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

TEXAS

INDUSTRY	STATE			ANDERSON			ANDREWS			ARCELITA			ARANSAS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	246	192	282	4	—	5	1	1	1	1	1	1	1	—	1
Natural gasoline	90	—	169	4	—	5	—	—	—	—	—	—	2	—	1
Bituminous coal	4	4	1	—	—	—	—	—	—	—	—	—	—	—	—
Lignite	8	8	—	—	—	—	—	—	—	—	—	—	—	—	—
Iron ore	2	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Silver ore	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—
Mercury	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	21	24	17	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, rough dimension	5	3	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	7	7	—	—	—	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Marble, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Miscellaneous stone, crushed and broken	5	5	3	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	40	54	54	—	—	—	—	—	—	—	—	—	—	—	—
Glass sand	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Foundry sand	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Ballin and ball clay	8	6	4	—	—	—	1	1	1	1	1	1	—	—	—
Fire clay	5	5	1	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	26	52	1	—	—	—	—	—	—	—	—	—	—	—	—
Fuller's earth	9	10	7	—	—	—	—	—	—	—	—	—	—	—	—
Bentonite	5	4	5	—	—	—	—	—	—	—	—	—	—	—	—
Gypsum	6	6	2	—	—	—	—	—	—	—	—	—	—	—	—
Native asphalt and bitumens	5	5	5	—	—	—	—	—	—	—	—	—	—	—	—
Natural sodium compounds	2	2	5	—	—	—	—	—	—	—	—	—	—	—	—
Rock salt	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Sulfur	4	5	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	ARCHER			ATASCOSA			AUSTIN			BASTROP			BELL		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	—	1	2	2	2	1	—	1	4	4	1	1	1	1
Natural gasoline	1	—	1	—	—	—	1	—	1	—	—	—	—	—	—
Lignite	—	—	—	—	—	—	—	—	—	2	2	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Glass sand	—	—	—	2	2	2	—	—	—	—	—	—	—	—	—
Fire clay	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—

INDUSTRY	BEKAR			BOWIE			BRAZORIA			BRAZOS			BREWSTER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	11	11	8	1	5	5	4	2	2	1	1	—	2	2	2
Natural gasoline	—	—	—	—	—	—	2	—	2	—	—	—	—	—	—
Mercury	—	—	—	—	—	—	—	—	—	—	—	—	2	2	2
Limestone, crushed and broken	5	5	2	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	5	5	5	1	5	5	—	—	—	—	—	—	—	—	—
Foundry sand	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	2	2	—	—	—	—	—	—	—	1	1	—	—	—	—
Sulfur	—	—	—	—	—	—	2	2	—	—	—	—	—	—	—

INDUSTRY	BRESCOE			BROOKS			BROWN			BURDET			CALHOUN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	1	1	1	5	2	3	5	5	4	1	—	1
Natural gasoline	—	—	—	—	—	—	5	—	2	—	—	—	1	—	1
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	2	4	4	—	—	—
Granite, rough dimension	—	—	—	—	—	—	1	—	1	1	1	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fuller's earth	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Gypsum	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—

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)

TEXAS—Continued

INDUSTRY	CALLAHAN			CARSON			CASS			CLAY			COLEMAN			COLORADO		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	---	1	5	---	8	4	2	2	1	---	1	2	1	1	2	2	2
Natural gasoline	1	---	1	5	---	8	1	---	1	1	---	1	1	---	1	---	---	---
Iron ore	---	---	---	---	---	---	2	1	1	---	---	---	---	---	---	---	---	---
Common sand and gravel	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	2
Common clay and shale	---	---	---	---	---	---	1	1	---	---	---	---	1	1	---	---	---	---

INDUSTRY	COMAL			COMANCHE			CRANE			CULBERSON			DALLAS			DENTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	1	1	---	1	1	---	1	1	1	---	9	10	9	2	2	1
Natural gasoline	---	---	---	1	---	1	1	---	1	---	1	---	---	---	---	---	---	---
Silver ore	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---
Limestone, crushed and broken	2	2	1	---	---	---	---	---	---	---	---	---	2	2	2	---	---	---
Common sand and gravel	---	---	---	---	---	---	---	---	---	---	---	---	6	7	7	1	1	1
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---	1	1	---

INDUSTRY	DUVAL			EASTLAND			ECTOR			ELLIS			EL PASO			ERATH		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	---	1	7	---	9	5	---	4	4	4	1	6	6	5	1	---	1
Natural gasoline	1	---	1	7	---	9	5	---	4	---	---	---	---	---	---	1	---	1
Limestone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	5	5	5	---	---	---
Common sand and gravel	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Shalin and ball clay	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	5	5	---	---	---	---	---	---	---

INDUSTRY	FAYETTE			FISHER			FLOYD			FOARD			FORT BEND			GALVESTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	4	5	4	2	5	1	1	1	1	1	---	1	1	1	---	1	---	1
Natural gasoline	---	---	---	---	---	---	---	---	---	1	---	1	---	---	---	1	---	1
Common sand and gravel	2	2	2	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
Bentonite	2	5	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Gypsum	---	---	---	2	5	1	---	---	---	---	---	---	1	1	---	---	---	---
Sulfur	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	GILLESPIE			GONZALES			GRAY			GRAYSON			GRIMM			GUADALUPE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	---	1	1	1	10	1	14	1	1	1	10	---	10	2	2	1
Natural gasoline	---	---	---	---	---	---	9	---	15	---	---	---	10	---	10	---	---	---
Granite, rough dimension	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Miscellaneous stone, crushed and broken	---	---	---	---	---	---	1	1	1	1	1	1	---	---	---	1	1	1
Common sand and gravel	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---
Common clay and shale	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---	1	1	---
Fuller's earth	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Gypsum	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	HARRISMAN			HARRIS			HARRISON			HENDERSON			HIDALGO			HOOD		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	2	---	14	15	14	1	2	---	5	5	2	2	2	1	1	1	1
Natural gasoline	---	---	---	5	---	8	---	---	---	2	---	2	---	---	---	---	---	---
Lignite	---	---	---	5	5	5	---	---	---	1	1	---	---	---	---	---	---	---
Common sand and gravel	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1	1	1	1
Fire clay	---	---	---	5	5	1	---	---	---	1	1	---	---	---	---	---	---	---
Common clay and shale	---	---	---	2	4	1	1	2	---	1	1	---	1	1	---	---	---	---
Fuller's earth	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Gypsum	1	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Rock salt	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---

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: 1939*—Continued

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

TEXAS—Continued

INDUSTRY	HOPKINS			HOUSTON			HOWARD			HUESPETH			HUTCHINSON			JACK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	---	1	---	1	1	1	1	2	2	2	5	---	11	4	1	4
Natural gasoline-----	---	---	---	1	---	1	---	---	---	---	---	---	5	---	11	3	---	3
Limestone, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1
Miscellaneous stones, crushed and broken-----	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
Kaolin and ball clay-----	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Fire clay-----	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	JEFFERSON			JONES			LIBERTY			LIMESTONE			LIARD			LYNN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	1	2	2	---	2	1	2	1	1	---	6	6	2	1	1	1
Natural gasoline-----	---	---	---	---	---	---	1	---	1	---	---	---	---	---	---	---	---	---
Limestone, rough dimension-----	---	---	---	2	2	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---
Granite, rough dimension-----	---	---	---	---	---	---	---	---	---	---	---	---	4	4	---	---	---	---
Marble, crushed and broken-----	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---
Common sand and gravel-----	1	1	1	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---	1	1	1
Natural sodium compounds-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	MCLENNAN			MARION			MASON			MATAGORDA			MEDINA			MILAM		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	5	4	3	1	---	2	1	1	---	2	1	2	1	1	---	5	5	1
Natural gasoline-----	---	---	---	1	---	2	---	---	---	1	---	1	---	---	---	---	---	---
Lignite-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	2	---
Limestone, crushed and broken-----	2	2	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Granite, rough dimension-----	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	1	2	2	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1
Kaolin and ball clay-----	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---
Gypsum-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	MONTAGUE			MONTGOMERY			MOORE			NACOGDOCHES			NAVARO			NOLAN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	1	1	1	2	---	2	5	---	5	5	2	1	1	1	---	2	2	1
Natural gasoline-----	---	---	---	2	---	2	5	---	5	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	1	1	1	---	---	---	---	---	---	1	1	---	1	1	---	1	1	1
Common clay and shale-----	---	---	---	---	---	---	---	---	---	2	1	1	---	---	---	1	1	---
Fuller's earth-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Gypsum-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

INDUSTRY	NUECES			OLDHAM			PALO PINTO			PANOLA			PARKER			POLK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	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	1	1	1	2	1	1	1	---	1	2	2	---	2	1	2
Natural gasoline-----	9	---	9	---	---	---	1	---	1	---	---	---	---	---	---	1	---	1
Bituminous coal-----	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---
Common sand and gravel-----	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---	1	1	1
Foundry sand-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale-----	---	---	---	---	---	---	---	---	---	---	---	2	2	---	---	---	---	---

INDUSTRY	POTTER			PRESIDIO			REAGAN			RENFREO			ROBERTSON			ROCK		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total-----	5	1	3	1	1	1	1	---	1	2	---	2	1	1	1	5	---	9
Natural gasoline-----	2	---	2	---	---	---	1	---	1	---	---	2	---	---	---	---	---	---
Silver ore-----	---	---	---	1	1	1	---	---	---	---	---	---	1	1	1	---	---	---
Common sand and gravel-----	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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: 1939*—Continued

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

TEXAS—Concluded

INDUSTRY	SAN JACINTO			SAN PATRICIO			SHACKELFORD			SHELBY			SMITH			STEPHENS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	2	1	2	2	---	3	1	---	1	1	1	---	5	---	7
Natural gasoline	---	---	---	1	---	1	2	---	5	1	---	1	---	---	---	5	---	7
Common sand and gravel	1	1	1	1	1	1	---	---	---	---	---	---	1	1	---	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
INDUSTRY	STONEMAN			TARRANT			TERRY			TITUS			TRAVIS			TUNNITT		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	2	2	2	1	1	1	1	1	---	6	6	4	1	1	1
Lignite	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---
Limestone, crushed and broken	---	---	---	1	1	1	---	---	---	---	---	---	1	1	---	---	---	---
Common sand and gravel	1	1	1	1	1	1	---	---	---	---	---	---	4	4	4	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---
Bentonite	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1
Natural sodium compounds	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
INDUSTRY	HUTTON			UVALDE			VAN ZANDT			VICTORIA			WALKER			WARD		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	---	4	4	4	2	1	2	2	3	3	3	3	5	4	1	4
Natural gasoline	---	---	---	---	---	---	1	---	1	---	---	---	---	---	---	3	---	3
Basalt, crushed and broken	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---
Sandstone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---
Common sand and gravel	---	---	---	---	---	---	---	---	---	2	3	3	---	---	---	---	---	---
Keolin and ball clay	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Fuller's earth	---	---	---	---	---	---	---	---	---	---	---	---	2	2	2	---	---	---
Native asphalt and bitumens	---	---	---	3	3	3	---	---	---	---	---	---	---	---	---	---	---	---
Natural sodium compounds	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1
Rock salt	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
INDUSTRY	WEBB			WHARTON			WHEELER			WICHITA			WILBARGER			WILLIAMSON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	2	2	---	5	---	5	10	1	12	2	---	2	3	3	1
Natural gasoline	---	---	---	---	---	---	5	---	5	9	---	11	2	---	2	---	---	---
Bituminous coal	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	2	2	1
Limestone, crushed and broken	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---
Limestone, rough dimension	---	---	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Common sand and gravel	---	---	---	2	2	---	---	---	---	---	---	---	---	---	---	---	---	---
Sulfur	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
INDUSTRY	WILSON			WINKLER			WISE			WOOD			YOAKUM			YOUNG		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	1	3	---	3	4	4	1	2	2	---	1	---	1	3	---	3
Natural gasoline	---	---	---	3	---	3	---	---	---	---	---	---	1	---	1	3	---	3
Bituminous coal	---	---	---	---	---	---	2	2	---	---	---	---	---	---	---	---	---	---
Lignite	---	---	---	---	---	---	---	---	2	2	---	---	---	---	---	---	---	---
Limestone, crushed and broken	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
Common sand and gravel	1	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale	1	1	---	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---

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)

UTAH

INDUSTRY	STATE			BEAVER			BOX ELDER			CACHE			CARBON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	158	185	58	6	6	1	2	2	—	2	2	2	27	28	1
Bituminous coal	50	51	1	—	—	—	—	—	—	—	—	—	—	—	—
Iron ore	2	2	—	—	—	—	1	1	—	—	—	—	26	27	—
Lode gold	27	50	2	—	—	—	—	—	—	—	—	—	—	—	—
Silver ore	16	22	—	—	—	—	1	1	—	—	—	—	—	—	—
Copper ore	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore	16	22	6	3	5	—	—	—	—	—	—	—	—	—	—
Zinc ore	5	2	1	1	1	—	—	—	—	—	—	—	—	—	—
Vanadium and uranium ore	5	3	2	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	10	10	6	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	1	1	—	—	—	—	—	—	—	1	1	1	—	—	—
Common sand and gravel	10	9	9	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	3	4	—	—	—	—	—	—	—	1	1	1	—	—	—
Common clay and shale	3	4	—	—	—	—	—	—	—	—	—	—	—	—	—
Bentonite	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Fluorspar	1	1	—	1	1	—	—	—	—	—	—	—	—	—	—
Gypsum	4	4	1	—	—	—	—	—	—	—	—	—	—	—	—
Native asphalt and bitumens	9	9	5	—	—	—	—	—	—	—	—	—	1	1	1
Natural sodium compounds	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Potash	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—
Rock salt	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—
Sulfur	1	1	1	1	1	1	—	—	—	—	—	—	—	—	—

INDUSTRY	DAVIS			DOHERTY			EMERY			GRAND			IRON			JUAN		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	4	5	2	15	15	1	5	5	—	5	5	—	15	19	1
Bituminous coal	—	—	—	—	—	—	15	15	1	2	2	—	2	2	—	—	—	—
Iron ore	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—	—	—	—
Lode gold	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Silver ore	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	8	6	—
Lead ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	8	—
Vanadium and uranium ore	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	2	1	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Sandstone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Common sand and gravel	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Gypsum	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	2	2	1
Native asphalt and bitumens	—	—	—	4	5	2	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	MORGAN			PIUTE			SALT LAKE			SAN JUAN			SANPETE			SEVIER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	4	4	—	16	22	9	2	2	2	1	1	—	6	6	2
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—
Lode gold	—	—	—	3	3	—	5	5	—	—	—	—	—	—	—	—	—	—
Silver ore	—	—	—	—	—	—	2	5	—	—	—	—	—	—	—	—	—	—
Copper ore	—	—	—	—	—	—	2	2	2	—	—	—	—	—	—	—	—	—
Lead ore	—	—	—	—	—	—	4	5	1	—	—	—	—	—	—	—	—	—
Vanadium and uranium ore	—	—	—	—	—	—	—	—	2	2	2	—	—	—	—	—	—	—
Limestone, crushed and broken	1	1	1	—	—	—	2	2	1	—	—	—	—	—	—	1	1	—
Common sand and gravel	—	—	—	—	—	—	4	4	4	—	—	—	—	—	—	—	—	—
Bentonite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Gypsum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Natural sodium compounds	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	1	1	—
Potash	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Rock salt	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	1	1	1

INDUSTRY	SUMMIT			TUCKER			VINNIE			UTAH			WASATCH			WEBER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	10	10	1	22	25	9	5	6	—	15	15	5	4	5	—	5	5	2
Bituminous coal	4	4	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Lode gold	1	1	—	10	10	—	—	—	—	2	4	—	—	—	—	—	—	—
Silver ore	2	2	—	—	—	—	—	—	—	4	4	—	5	4	—	—	—	—
Lead ore	1	1	1	9	11	4	—	—	—	1	1	—	—	—	—	—	—	—
Zinc ore	—	—	—	1	1	1	—	—	—	—	—	—	1	1	—	—	—	—
Limestone, crushed and broken	—	—	—	1	1	1	—	—	—	5	5	2	—	—	—	—	—	—
Common sand and gravel	—	—	—	1	1	1	—	—	—	2	1	1	—	—	—	2	2	2
Fire clay	—	—	—	1	1	—	—	—	—	5	5	—	—	—	—	—	—	—
Common clay and shale	2	2	—	1	1	—	—	—	—	—	—	—	—	—	—	1	1	—
Native asphalt and bitumens	—	—	—	—	—	—	4	5	—	—	—	—	—	—	—	—	—	—
Potash	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—

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)

VERMONT

INDUSTRY	STATE			ADDISON			BENNINGTON			CALEDONIA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	60	77	21	5	5	5	1	1	1	2	2	1
Limestone, crushed and broken	9	10	8	5	5	5	1	1	1			
Granite, crushed and broken	2	2	1							1	1	1
Granite, rough dimension	9	10	1							1	1	
Sandstone, crushed and broken	1	1	1									
Slate, crushed and broken	1	1	1									
Slate, rough dimension	30	34										
Marble, rough dimension	5	10										
Common sand and gravel	2	3	5									
Asbestos	1	1	1									
Mica	1	1	1									
Talc and scapolite	5	4	4									

INDUSTRY	CHITTENDEN			FRANKLIN			GRAND ISLE			LAMOTHE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	5	5	1	1	1		2	2	2
Limestone, crushed and broken	1	1	1	2	2	1						
Granite, crushed and broken												
Granite, rough dimension												
Sandstone, crushed and broken	1	1	1									
Slate, crushed and broken												
Slate, rough dimension												
Marble, rough dimension				1	1		1	1				
Common sand and gravel												
Asbestos										1	1	1
Mica										1	1	1
Talc and scapolite												

INDUSTRY	ORANGE			RUTLAND			WASHINGTON			WINDHAM			WINDSOR		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2		35	46	5	8	9	2	2	2	1	4	4	5
Limestone, crushed and broken				2	2	1							1	1	1
Granite, crushed and broken										1	1				
Granite, rough dimension	2	2					6	7	1						
Sandstone, crushed and broken															
Slate, crushed and broken				1	1	1									
Slate, rough dimension				30	34										
Marble, rough dimension				2	6		1	1					1	1	
Common sand and gravel				2	5	5									
Asbestos															
Mica													1	1	1
Talc and scapolite							1	1	1	1	1	1	1	1	1

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

INDUSTRY	STATE			ALBEMARLE			ALLEGHANY			AMHERST			ARLINGTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	221	255	115	2	2	2	2	2	2	2	2	2	4	5	
Mitimus coal	91	112	15												
Iron ore	2	2													
Lode gold	2	2	2												
Zinc ore	1	1	1												
Manganese ore	5	5	5												
Titanium ore	2	2	2							1	1	1			
Limestone, crushed and broken	59	61	51				2	2	2						
Limestone, rough dimension	1	1													
Granite, crushed and broken	4	6	6												
Granite, rough dimension	1	1													
Basalt, crushed and broken	1	2	2	1	1	1									
Basalt, rough dimension	1	1	1												
Sandstone, crushed and broken	1	1	1												
Sandstone, rough dimension	2	2													
Slate, crushed and broken	1	2	2	1	1	1									
Slate, rough dimension	5	5													
Marble, crushed and broken	1	1	1												
Marble, rough dimension	1	1	1												
Miscellaneous stone, crushed and broken	1	1	1												
Common sand and gravel	10	11	11							1	1	1			
Glass sand	2	2	2												
Foundry sand	1	2	2												
Kaolin and ball clay	1	1	1												
Common clay and shale	17	17	1										4	5	
Barite	1	1	1												
Feldspar	4	4													
Oxides	3	2	1												
Kyanite, andalusite, and dumortierite	1	1	1												
Mica	2	2	1												
Pyrites	1	1	1												
Talc and soapstone	2	2	2												

INDUSTRY	AUGUSTA			BATH			BERKSFORD			BLAND			BOYNTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	7	7	5	1	1	1	5	5		5	5	1	6	7	5
Iron ore													1	1	
Manganese ore	1	1	1							5	5	1	4	5	5
Limestone, crushed and broken	5	5	2	1	1	1									
Sandstone, crushed and broken	1	1	1												
Kaolin and ball clay	1	1	1												
Common clay and shale	1	1					5	5					1	1	
Feldspar															

INDUSTRY	BUCHANAN			BUCKINGHAM			CARROLL			CHARLES CITY			CHESTERTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	15	16	4	5	5	2	2	2	2	1	1		5	4	5
Mitimus coal	15	16	4												
Lode gold				1	1	1									
Limestone, crushed and broken							1	1	1						
Slate, crushed and broken				1	1	1									
Slate, rough dimension				5	5										
Common sand and gravel													1	2	2
Foundry sand													1	1	1
Common clay and shale										1	1		1	1	
Pyrites							2	1	1						

INDUSTRY	CLARKE			CRAIG			CULPEPER			DICKINSON			ELIZABETH CITY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	2	2	2	1	1	1	5	7	1	1	1	
Mitimus coal															
Limestone, crushed and broken				2	2	2				5	7	1			
Basalt, rough dimension							1	1	1						
Miscellaneous stone, crushed and broken	1	1	1												
Common clay and shale													1	1	

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

INDUSTRY	FAIRFAX			FRANKLIN			FREDERICK			GILES			GOOCHLAND			GREENSVILLE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	3	3	2	4	5	3	3	3	2	1	1	1	2	2	1
Limestone, crushed and broken	—	—	—	—	—	—	2	3	2	3	3	2	—	—	—	—	—	—
Granite, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1	1	1
Basalt, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Glass sand	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	1	1	—
Mica	—	—	—	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—
Talc and soapstone	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	HALIFAX			HENRICO			LEE			LOUDOUN			LYNCHBURG CITY			MONTGOMERY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	2	2	6	6	4	18	23	1	2	2	2	1	1	—	5	5	2
Bituminous coal	—	—	—	—	—	—	17	22	—	—	—	—	—	—	—	4	4	2
Lode gold	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	1	1	1	2	2	2	—	—	—	1	1	—
Granite, crushed and broken	1	1	1	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Common sand and gravel	—	—	—	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Foundry sand	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	MANASSAS			NELSON			NORFOLK			NOTTAWAY			PAGE			PITTSBURGH		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	5	5	2	1	1	1	2	2	1	2	2	2	2	2	2
Bituminous coal	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	2	2	2	—	—	—
Granite, crushed and broken	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Granite, rough dimension	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	1	1	1
Common sand and gravel	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Barite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Feldspar	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	1	1	1
Talc and soapstone	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	PRINCE EDWARD			PRINCE GEORGE			PRINCE WILLIAM			PRINCESS ANNE			PULASKI			ROANOKE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	2	2	2	2	2	1	1	1	—	3	3	1	4	4	3
Bituminous coal	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Iron ore	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	3	3	3
Sandstone, rough dimension	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kyanite, andalusite, and diaspore	1	1	1	—	—	—	1	1	1	1	1	—	—	—	—	1	1	—

INDUSTRY	ROCKBRIDGE			ROCKINGHAM			RUSSELL			SCOTT			SHERIDAN			SMITH		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	4	4	3	7	7	6	13	13	3	5	5	1	8	8	4	5	5	3
Bituminous coal	—	—	—	—	—	—	12	14	2	4	4	—	—	—	—	1	1	1
Manganese ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	2	2	2	4	4	4	1	1	1	1	1	1	8	8	4	3	3	3
Limestone, rough dimension	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Marble, crushed and broken	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Marble, rough dimension	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Glass sand	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gypsum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	1	1

INDUSTRY	SPOTSYLVANIA			TAYLOR			WARREN			WASHINGTON			WISE			WYTHE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	17	19	9	2	2	2	2	2	1	24	31	1	5	8	4
Bituminous coal	—	—	—	12	14	6	—	—	—	—	—	—	24	30	—	—	—	—
Limestone, crushed and broken	—	—	—	4	4	5	2	2	2	1	1	1	1	1	1	1	1	1
Common sand and gravel	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Gypsum	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—

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: 1939*—Continued

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

WASHINGTON

INDUSTRY	STATE			ADAMS			CHIEHAN			CLARK			COLUMBIA			COWLITZ		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	145	165	77	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1
Bituminous coal	42	52	18															
Iron ore	3	3																
Lode gold	17	18	6				1	1										
Placer gold	6	6																
Silver ore	3	3	2															
Copper ore	3	3	1				1	1	1									
Lead ore	1	1																
Zinc ore	2	2	2															
Molybdenum ore	1	1	1															
Tungsten ore	2	2	2															
Limestone, crushed and broken	14	18	7															
Granite, crushed and broken	2	2	1															
Granite, rough dimension	1	1																
Basalt, crushed and broken	9	9	9										1	1	1	1	1	1
Sandstone, rough dimension	2	2																
Miscellaneous stone, crushed and broken	1	2	2															
Common sand and gravel	21	18	18	1	1	1				1	1	1						
Foundry sand	1	1	1															
Fire clay	3	6																
Common clay and shale	8	10	1															
Diatomite	3	3	3															
Magnetite and brucite	1	1	1															
Peat	1	1	1															
Tile and scapolite	1	1	1															

INDUSTRY	DOUGLAS			FERRY			GRANT			GRAYS HARBOR			JEFFERSON			KING		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	5	4	2	11	12	1	2	2	2	1	1	1	1	1	1	35	39	20
Bituminous coal																19	24	11
Lode gold				8	9	1										1	1	1
Placer gold	1	1		2	2													
Limestone, crushed and broken				1	1											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				6	4	4
Foundry sand																1	1	1
Fire clay	1	1														1	2	
Common clay and shale																4	4	1
Diatomite							2	2	2									

INDUSTRY	KITSAP			KITKID			LEWIS			ORANOGAN			PACIFIC			PEND OREILLE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	6	10	3	9	9	3	7	7	3	1	1	1	3	4	3
Bituminous coal				5	9	2	6	6	1									
Iron ore										1	1					1	1	
Lode gold										4	4	2						
Placer gold										1	1							
Silver ore										1	1	1				2	2	2
Zinc ore																1	1	1
Limestone, crushed and broken							1	1	1				1	1	1			
Basalt, crushed and broken							1	1	1									
Common sand and gravel	1	1	1				1	1	1									
Common clay and shale				1	1	1												
Diatomite																		

INDUSTRY	PIRECK			SAN JUAN			SEAGUY			SHAMANTA			SHOENHORN			SPONKARE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	15	15	5	3	4		2	2	1	1	1	1	6	6	1	10	10	5
Bituminous coal	10	10	1										2	2				
Copper ore	1	1	1	3	4		1	1					2	2				
Limestone, crushed and broken													1	1				
Granite, crushed and broken																1	1	1
Granite, rough dimension										1	1	1						
Basalt, crushed and broken																		
Sandstone, rough dimension	1	1											1	1	1	5	4	4
Common sand and gravel	3	3	3													1	1	1
Fire clay																2	3	
Common clay and shale							1	1	1									
Tile and scapolite																		

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)

WASHINGTON—Concluded

INDUSTRY	STEVENS			THURSTON			WAKIACUM			WHATCOM			WHITMAN			YAKIMA		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	16	17	9	2	2	1	1	1	1	8	6	6	1	1	1	1	1	—
Bituminous coal	—	—	—	1	1	1	—	—	—	2	2	2	—	—	—	—	—	—
Iron ore	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gold	1	1	1	—	—	—	—	—	—	2	2	1	—	—	—	—	—	—
Placer gold	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Silver ore	2	2	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lead ore	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Molybdenum ore	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tungsten ore	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	4	4	3	—	—	—	—	—	—	2	2	1	—	—	—	—	—	—
Granite, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—
Basalt, crushed and broken	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Fire clay	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
Magnetite and brucite	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Peat	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—

WEST VIRGINIA

INDUSTRY	STATE			BARBOUR			BERKELEY			BOONE			BRAITON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	645	795	259	15	12	—	6	6	5	15	19	2	4	4	—
Natural gasoline	24	—	76	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal	557	721	107	13	12	—	—	—	—	15	19	2	4	4	—
Limestone, crushed and broken	22	25	23	—	—	—	4	4	5	—	—	—	—	—	—
Sandstone, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	14	18	18	—	—	—	—	—	—	—	—	—	—	—	—
Glass sand	3	3	3	—	—	—	—	—	—	—	—	—	—	—	—
Foundry sand	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Fire clay	7	7	3	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	10	10	1	—	—	—	2	2	—	—	—	—	—	—	—
Natural abrasives	6	7	5	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	BROCKE			GABELL			CLAY			DODDRIIDGE			PAYETTE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	25	27	2	5	4	3	8	6	2	2	—	2	45	68	5
Natural gasoline	1	—	1	1	—	1	1	—	1	2	—	2	—	—	—
Bituminous coal	24	26	—	—	—	—	7	6	1	—	—	—	44	67	4
Common sand and gravel	1	1	1	2	2	2	—	—	—	—	—	—	1	1	1
Glass sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	2	2	—	—	—	—	—	—	—	—	—	—

INDUSTRY	GILMER			GRANT			GREENHIER			HANCOCK			HARDY		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	5	2	1	5	5	—	24	24	5	12	12	3	2	2	2
Natural gasoline	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Bituminous coal	2	2	—	3	3	—	19	19	—	7	7	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	5	5	5	—	—	—	2	2	2
Fire clay	—	—	—	—	—	—	—	—	—	5	5	3	—	—	—

INDUSTRY	HARRISON			JACKSON			JEFFERSON			KANAWHA			LEWIS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	32	31	4	4	2	3	4	5	4	49	54	22	5	2	4
Natural gasoline	2	—	4	2	—	2	—	—	—	8	—	17	3	—	4
Bituminous coal	30	31	—	—	—	—	—	—	—	54	47	2	2	2	—
Limestone, crushed and broken	—	—	—	—	—	—	4	5	4	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Common sand and gravel	—	—	—	1	1	1	—	—	—	2	2	2	—	—	—
Fire clay	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	3	3	1	—	—	—
Natural abrasives	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—

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: 1939—Continued

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

WEST VIRGINIA—Concluded

INDUSTRY	LINCOLN			LOGAN			MCDOWELL			MARION			MARSHALL			MASON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	2	---	2	56	60	16	50	75	32	22	27	5	5	5	---	15	11	1
Natural gasoline	2	---	2	---	---	---	---	---	---	2	---	5	---	---	---	---	---	---
Bituminous coal	---	---	---	56	60	16	50	75	32	19	26	---	5	5	---	12	10	---
Common sand and gravel	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---	1	1	1
Fire clay	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
INDUSTRY	MERCER			MINERAL			MINGO			MONONGALIA			MORGAN			NICHOLAS		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	15	18	12	10	9	1	18	21	5	49	47	14	1	2	2	18	18	---
Natural gasoline	---	---	---	---	---	---	---	---	---	2	---	5	---	---	---	---	---	---
Bituminous coal	12	15	10	9	8	---	17	20	4	40	40	4	---	---	---	18	18	---
Limestone, crushed and broken	2	2	2	1	1	1	---	---	---	2	2	2	---	---	---	---	---	---
Common sand and gravel	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
Glass sand	---	---	---	---	---	---	---	---	---	1	1	1	1	1	1	---	---	---
Foundry sand	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Common clay and shale	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Natural abrasives	---	---	---	---	---	---	---	---	---	4	4	4	---	---	---	---	---	---
INDUSTRY	OHIO			PENDLETON			PLEASANTS			PRESTON			PUTNAM			RALEIGH		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	12	15	2	1	1	1	6	5	5	32	35	1	5	6	---	35	79	26
Natural gasoline	---	---	---	---	---	---	3	---	3	---	---	---	---	---	---	---	---	---
Bituminous coal	11	12	1	---	---	---	---	---	---	31	32	---	5	6	---	35	79	26
Limestone, crushed and broken	---	---	---	1	1	1	---	---	---	1	1	1	---	---	---	---	---	---
Common sand and gravel	1	1	1	---	---	---	1	1	1	---	---	---	---	---	---	---	---	---
Natural abrasives	---	---	---	---	---	---	2	2	1	---	---	---	---	---	---	---	---	---
INDUSTRY	RANDOLPH			RITCHIE			ROANE			TAYLOR			TUCKER			TYLER		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	20	19	1	5	---	12	1	---	2	13	14	1	4	7	1	6	---	9
Natural gasoline	---	---	---	5	---	12	1	---	2	---	---	---	---	---	---	6	---	9
Bituminous coal	19	18	---	---	---	---	---	---	---	11	12	---	3	6	---	---	---	---
Limestone, crushed and broken	1	1	1	---	---	---	---	---	---	1	1	1	---	---	---	---	---	---
Common sand and gravel	---	---	---	---	---	---	---	---	---	1	1	---	1	1	2	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
INDUSTRY	UPSHUR			WAYNE			WEBSTER			WETZEL			WOOD			WYOMING		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	7	7	---	4	4	1	8	10	---	8	1	10	5	8	7	17	17	5
Natural gasoline	---	---	---	---	---	---	---	---	---	7	---	9	2	---	2	---	---	---
Bituminous coal	7	7	---	3	3	---	8	10	---	---	---	---	---	---	---	17	17	5
Common sand and gravel	---	---	---	1	1	1	---	---	---	1	1	1	2	5	5	---	---	---
Common clay and shale	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---

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)

WISCONSIN

INDUSTRY	STATE			ASHLAND			BAKON			BROWN			BUFFALO			CALUMET		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	151	155	126	5	5	1	2	2	2	6	7	6	2	2	1	2	5	5
Iron ore	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore	4	4	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Molybdenum ore	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	37	49	48	—	—	—	—	—	—	1	1	1	2	2	1	1	2	2
Limestone, rough dimension	14	14	9	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Granite, crushed and broken	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	11	11	1	5	5	1	—	—	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	4	4	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	52	58	53	—	—	—	2	2	2	4	4	4	—	—	—	1	1	1
Foundry sand	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	4	4	1	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—

INDUSTRY	CHIPPEWA			COLUMBIA			CRAWFORD			DANE			DODGE			DOOR		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	2	2	1	1	1	1	5	5	2	4	4	5	2	2	2
Iron ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Molybdenum ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	1	1	—	—	—	—	—	—	—	5	5	2	1	1	1
Limestone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Common sand and gravel	1	1	1	—	—	—	1	1	1	2	2	2	1	1	1	1	1	1
Foundry sand	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	DURN			EAU CLAIRE			FOND DU LAC			GRANT			IOWA			IRON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	—	1	1	1	6	6	5	5	5	5	4	4	5	2	2	—
Iron ore	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—	2	2	—
Zinc ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—
Molybdenum ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	2	2	2	5	5	5	2	2	2	—	—	—
Limestone, rough dimension	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Granite, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	—	—	—	1	1	1	2	2	2	—	—	—	—	—	—	—	—	—
Foundry sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—

INDUSTRY	JACKSON			KENOSHA			LA CROSSE			LAFAYETTE			LINCOLN			MANITOWOC		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total	1	1	1	1	1	1	1	1	1	2	2	5	1	1	1	7	7	7
Iron ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore	—	—	—	—	—	—	—	—	—	2	2	5	—	—	—	—	—	—
Molybdenum ore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	2
Limestone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel	1	1	1	1	1	1	1	1	1	—	—	—	1	1	1	4	4	4
Foundry sand	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1

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: 1939—Continued

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

WISCONSIN—Concluded

INDUSTRY	MARATHON			MARINETTE			MARQUETTE			MILWAUKEE			MONROE			OUTAUMIE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	7	7	1	3	5	2	1	1	—	6	5	6	1	1	1	5	5	5
Iron ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Molybdenum ore—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	—	—	—	—	—	—	—	—	—	2	2	2	—	—	—	4	4	4
Limestone, rough dimension—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Granite, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension—	5	5	—	1	1	—	1	1	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	1	1	1	1	1	1	—	—	—	2	2	2	1	1	1	1	1	1
Foundry sand—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
INDUSTRY	OZAUKEE			PIERCE			POLK			PORTAGE			PRICE			RACINE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
Iron ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Molybdenum ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1
Limestone, rough dimension—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension—	—	—	—	—	—	—	—	—	—	1	1	1	1	1	1	1	1	1
Common sand and gravel—	5	5	5	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Foundry sand—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
INDUSTRY	RICHLAND			ROCK			ST. CROIX			DAWK			SHENANDOAH			THOMPSTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	1	4	4	3	3	3	1	1	1	5	8	7	3	4	4	1	5	5
Iron ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Molybdenum ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	1	4	4	—	—	—	1	1	1	2	4	4	1	1	1	1	5	5
Limestone, rough dimension—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Basalt, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	—	—	—	3	3	3	—	—	—	1	1	1	2	5	3	—	—	—
Foundry sand—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
INDUSTRY	WALNORTH			WASHINGTON			WASHKESHA			WAUPACA			WAUSHARA			WIDDERBAGO		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	2	2	2	1	1	1	20	22	17	5	5	2	2	2	—	6	6	6
Iron ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Zinc ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Molybdenum ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	—	—	—	—	—	—	1	1	1	2	2	2	—	—	—	4	4	4
Limestone, rough dimension—	1	1	1	—	—	—	20	10	5	—	—	—	1	1	—	—	—	—
Granite, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Granite, rough dimension—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—
Basalt, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sandstone, rough dimension—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	1	1	1	1	1	1	8	20	20	—	—	—	—	—	—	2	2	2
Foundry sand—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—

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)

WYOMING

INDUSTRY	STATE			ALBANY			BIG HORN			CAMPBELL			CARBON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	85	89	17	5	5	—	2	2	1	1	1	—	15	14	2
Natural gasoline—	5	—	7	—	—	—	—	—	—	—	—	—	1	—	1
Bituminous coal—	33	66	—	—	—	—	—	—	—	1	1	—	12	12	—
Iron ore—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Placer gold—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	6	6	2	1	1	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	2	2	2	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	1	1	—	—	—	—	1	1	1	—	—	—	—	—	—
Bentonite—	8	6	5	—	—	—	—	—	—	—	—	—	—	—	—
Feldspar—	1	1	—	1	1	—	—	—	—	—	—	—	—	—	—
Cypsum—	1	1	—	1	1	—	—	—	—	—	—	—	—	—	—
Natural sodium compounds—	2	2	1	—	—	—	—	—	—	—	—	—	1	1	1
Vermiculite—	2	2	—	—	—	—	—	—	—	—	—	—	1	1	—

INDUSTRY	CONVERSE			CROOK			FREMONT			HOT SPRINGS			JOHNSON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	5	5	—	1	1	—	6	5	2	9	8	1	2	2	—
Natural gasoline—	—	—	—	—	—	—	1	—	1	1	—	1	—	—	—
Bituminous coal—	4	4	—	1	1	—	5	5	—	8	8	—	2	2	—
Iron ore—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Placer gold—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common sand and gravel—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bentonite—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Feldspar—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cypsum—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Natural sodium compounds—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Vermiculite—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	LARAMIE			LINCOLN			NATRONA			NIOBRARA			PLATTE		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	2	2	2	6	6	—	4	2	2	1	—	1	5	5	—
Natural gasoline—	—	—	—	—	—	—	2	—	2	1	—	1	—	—	—
Bituminous coal—	—	—	—	6	6	—	1	1	—	—	—	—	1	1	—
Iron ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Placer gold—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	2	2	2	—	—	—	—	—	—	—	—	—	2	2	—
Common sand and gravel—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bentonite—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Feldspar—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cypsum—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Natural sodium compounds—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Vermiculite—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

INDUSTRY	SHERIDAN			SWEETWATER			TETON			UINTA			WESTON		
	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants	Operating companies	Mines and quarries	Preparation plants
All industries, total—	7	8	—	8	16	2	1	1	—	5	5	—	7	5	4
Natural gasoline—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—
Bituminous coal—	7	8	—	6	16	—	—	—	—	5	5	—	—	—	—
Iron ore—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Placer gold—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Limestone, crushed and broken—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—
Common sand and gravel—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—
Common clay and shale—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bentonite—	—	—	—	—	—	—	—	—	—	—	—	—	7	5	4
Feldspar—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cypsum—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Natural sodium compounds—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Vermiculite—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

¹Companies with operations in more than 1 county or in more than 1 industry are counted only once in the totals.

²Includes 1 tripoli mine in Ottawa County, Oklahoma.

³Includes 1 diatomite mine for which statistics are included with those for the associated mill in Rockingham County, New Hampshire.

⁴Includes 1 diatomite mine in Norfolk County, Massachusetts.

⁵Includes 2 tripoli mines for which statistics are included with those for the associated mills in Cherokee County, Kansas, and Newton County, Missouri.

⁶In all other tables except the Tennessee table 2, State and County Statistics, figures for this mine and mill have been included with those for the zinc-ore industry to avoid 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 canvass, 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 gas-field 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 ores, 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, diatomite, 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:

FORM NUMBER	SCHEDULE TITLE AND INDUSTRY
Mail Canvass	
100-MQ-A	Pennsylvania anthracite
100-MQ-AC	Pennsylvania anthracite strip-pit contractor (strip-pit and culm-bank contractors)
100-MQ-L	Lignite
100-MQ-P	Crude petroleum
100-MQ-N	Natural gas
100-MQ-G	Natural gasoline
100-MQ-OC	Oil and gas contractor
100-MQ-OCF	Central office (crude petroleum, natural gas, and natural gasoline)
100-MQ-HF	Nonferrous metals (gold and silver, copper, lead, and zinc ores)
100-MQ-HFS	Nonferrous metals—short form (smaller gold and silver operations)
100-MQ-F	Iron ore (iron ore, manganese iron ore, and manganese ore)
100-MQ	General schedule (antimony ore; asbestos; barite; bauxite; chromite; feldspar; fluorapatite; graphite; greenand; gypsum; Iceland spar; kyanite, andalusite, and dumortierite; lithium minerals; magnesite and brucite; mercury (quicksilver); mica; molybdenum ore; natural sodium compounds; native asphalt and bitumens; peat; phosphate rock; pinitite; potash; pyrites; rock salt; sulfur; tin; titanium ore; tungsten ore; vanadium and uranium ore; and vermiculite)
100-MQ-OC	General contractor (contractors performing general services for mineral industries, except contractors performing oil- and gas-field services and Pennsylvania anthracite strip-pit and culm-bank contractors)
100-MQ-CC	Central office (central offices in industries canvassed by mail, except crude petroleum and natural gas, natural gasoline, and bituminous coal)
Enumerative Canvass	
100-MQ-S	Stone (basalt; granite; limestone; marble; sandstone; slate; miscellaneous stone; diatomite; natural abrasives, including emery, flint lining and pebbles, garnet, pumice and pumicite, grindstones, pulpstones, millstones, oilstones, whetstones, and other abrasive stones; talc, soapstone, and pyrophyllite; and tripoli)
100-MQ-SG	Sand and gravel (common sand and gravel, glass sand, and foundry sand)
100-MQ-C	Clay (common clay and shale, kaolin and ball clay, fire clay, fuller's earth, and bentonite)
10	General office (central offices in industries canvassed by enumerators)
Cooperative Canvass	
BCE Form T-1	Bituminous coal mines over 50 tons daily average (including anthracite and semianthracite not mined in Pennsylvania)
	Supplement to BCE Form T-1 (central cleaning plants)
BCE Form T-2-C	Bituminous coal truck mines—under 50 tons daily average
BCE Form T-20	Central office for bituminous-coal industry

Efforts to obtain maximum coverage of mineral operations.—Every effort was made to canvass all companies engaged in operating or developing mineral properties. Files of Federal and State agencies were carefully checked, trade-association 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, records of drilling permits were consulted and special field

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 wage 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.

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 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 <h2 style="margin: 0;">CRUDE PETROLEUM SCHEDULE</h2> <p style="font-size: small; margin: 0;">16-370</p>	File No. _____
---	---	----------------

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-gasoline 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 offices (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 use only.)

INQUIRY 1—NAME, LOCATION, AND DESCRIPTION OF OPERATIONS:

A. Name and home address of the concern operating the properties reported on this schedule. _____

Key
A-1

1. Is this concern incorporated? _____ (Yes or no)

2. Is this concern a subsidiary or an affiliate of some other concern? _____ (Yes or no)

If so, give name and address of such other concern _____

3. Did this concern operate natural-gas wells during 1939? _____ (Yes or no) or natural-gasoline plants? _____ (Yes or no)

B. Location of producing properties covered by this report:

1. State _____ 2. Does this report cover all of your oil-well operating and oil-well drilling activities in this State? _____ (Yes or no)

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? _____ (Yes or no) If so, how many? _____

(Continued on next page)

INQUIRY 1—Continued.

C. Number of OIL wells on property designated under B:

	Number	
		Key
1. Producing oil December 31, 1938 (including wells temporarily idle because of proration restrictions).....		M-1
2. Shut in (idle) December 31, 1938 (excluding wells temporarily idle because of proration restrictions).....		M-2
3. Drilled on the property, and completed during 1939 (include wells drilled and abandoned before completion):		
(a) On contract.....		M-3
(b) By own company.....		M-4
4. Purchased (or leased) during 1939.....		M-5
Total (1+2+3(a)+3(b)+4).....		M-6

(The sum of 1, 2, 3, and 4 should equal the sum of 6, 7, 8, and 9)

5. Number of wells in process of drilling (on contract or by own company) December 31, 1938.....

Key
M-7

	Number	
		Key
6. Producing oil December 31, 1939 (including wells temporarily idle because of proration restrictions).....		M-8
7. Shut in (idle) December 31, 1939 (excluding wells temporarily idle because of proration restrictions).....		M-9
8. Abandoned during 1939.....		M-10
9. Sold (or leased) during 1939.....		M-11
Total (6+7+8+9).....		
10. Wells being used for repressuring and flooding December 31, 1939.....		M-12

11. Number of wells in process of drilling (on contract or by own company) December 31, 1939.....

Key
M-13

12. Does the number of wells drilled during 1939 (as reported under C-3(a) above) include wells drilled by an organization affiliated with the concern operating the properties reported on this schedule?

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 produce oil) during 1939?

(Yes or no)

If so, how many?

INQUIRY 2—QUANTITY AND VALUE OF PRODUCTS AND VALUE OF WORK DONE FOR OTHERS.—Report entire output of wells, including royalty interests.

Product or work done	Item	Unit of measure	Quantity D-4	Total value at wells (omit cents) D-5
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:				
(a) Marketed production.....	262	M cu. ft.....		\$.....
(b) All other production (your best estimate). What disposition was made of this gas?.....	263	M cu. ft.....		x x x x x
Gross production of natural gas (a) + (b).....	261	M cu. ft.....		x x x x x
Total value of oil and gas 1+2(a).....	1	x x x x x	x x x x x x x x x	\$.....
B. Other products, if any (specify kind).....	2			\$.....
C. Electric energy generated at your wells and sold. (Do not include energy reported under Inquiry 7C).....	3	Kw.-hr.....		\$.....
D. Amount received for work or services performed for other establishments, such as drilling, hauling, pumping, etc. (specify):				
1.				\$.....
2.				\$.....
Total amount received.....	4	x x x x x	x x x x x x x x x	\$.....
Grand total value (A+B+C+D).....				
		Code	Key	
			A-3	\$.....
				A-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 engaged in oil-well operating or oil-well drilling and related activities (including office, laboratory, and exploration work). Exclude from this schedule any employees reported separately on the Central Office Schedule for Crude Petroleum, Natural Gas, and Natural Gasoline (Form 100-MQ-COP). Also exclude from this schedule employees reported on the Natural Gas Schedule (Form 100-MQ-N) or on the Natural Gasoline Schedule (Form 100-MQ-G). Exclude employees engaged in oil transportation, petroleum refining, and related activities. Exclude employees engaged by contracting corporations reported under Inquiry 3 and not on direct pay roll of your company.

Class	Number of persons	Key
A. Salaried employees. Report here salaried officers of corporations; managers, superintendents, and other supervisory personnel; responsible professional and technical employees such as engineers, geologists, chemists, etc.; and all clerical employees. (Exclude gang and straw bosses and working foremen who should be reported under "Wage earners").		A-5
B. Wage earners. Report here all employees who performed manual work, used tools, operated machines, and cared for wells, etc., regardless of whether they were paid on a wage or salary basis. (Include both full-time and part-time workers)		
Total employees (A+B)		
C. Proprietors and firm members (not applicable to corporations)		A-6
1. Proprietors and firm members (included in C above) regularly performing manual labor in or about the wells		A-7

INQUIRY 4—SALARIES AND WAGES.—Report amounts paid for the entire calendar year 1939 to the same classes of persons as reported under Inquiry 3. Include 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. (Read instructions for Inquiry 4 at end of schedule for disposition of salaries or wages earned by owners or partners.)

Class of persons	Total salaries and wages paid (omit cents)	Key
A. Salaried employees. Report here salaried officers of corporations; managers, superintendents, and other supervisory personnel; responsible professional and technical employees such as engineers, geologists, chemists, etc.; and all clerical employees. (Exclude gang and straw bosses and working foremen who should be reported under "Wage earners").	\$	A-8
B. Wage earners. Report here all employees who performed manual work, used tools, operated machines, and cared for wells, etc., regardless of whether they were paid on a wage or salary basis. (Include both full-time and part-time workers)	\$	A-9
Total salaries and wages paid (A+B)	\$	A-10

INQUIRY 5—WAGE EARNERS EMPLOYED, BY MONTHS.—Report the number of wage earners receiving pay for any time during the pay-roll period ended nearest the 15th of each month. Figures given in this inquiry should include only the class of employees reported under Inquiry 3B above.

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 TYPE OF WORK AND WORKING TIME.—Figures given in this inquiry should include only the class of employees reported under Inquiry 3B above. If book figures are not available for some of the items called for, report carefully prepared estimates.

A. Average number of wage earners, man-hours, and length of workweek during 1939.

Type of work	Item	Total man-hours worked during 1939 E-2	Average number of wage earners receiving pay*			Number of hours per wage earner in full-time workweek (exclusive of overtime)		
			Total E-3	Full-time workers E-4	Part-time workers E-5	E-14		
1. Operating and maintaining wells (reported under Inquiry 1C)	3						Code	Key
2. Drilling wells and rig building (exclude employees of contractors)	4							E-15
3. Other work (specify):								A-13
								E-15
Total of above (1+2+3)	9						X X X X	X X X X

*The average number of wage earners should represent the average number during active periods when wage earners were actually drilling wells or performing other related work during 1939. The following method of computing the average number of wage earners is suggested: Count the number of wage earners receiving pay on each weekly, semi-monthly, or monthly active period (for which over 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. 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 operation. See also instructions at end of schedule.

B. Do you keep actual records of man-hours?	Key	A-16	Code	Key
	E-13			
(Yes or no)				A-17

INQUIRY 7—SUPPLIES, MATERIALS, FUELS, AND ELECTRIC ENERGY CONSUMED.—The figures given here should represent the quantity and cost of supplies, fuel, and electric energy *actually used* during 1939 in oil-well operations covered by this report. Include all supplies, fuels, and electric energy used to operate the wells and drill the wells (except supplies, etc., furnished by contractors) that are reported under Inquiry 1C. Include the cost of delivery. Include the quantity and value of supplies and fuels which were both produced and consumed by you.

Item	Unit	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.....	xxxxxxx	xxxxxxxxxxxxx	\$..... B-1
B. Fuel:			
1. Coal, bituminous (soft, including lignite).....	Short ton.....	F-1	\$.....
2. Coal, anthracite (hard).....	Short ton.....	F-2	\$.....
3. Fuel oils (including heating oils, but not gasoline or kerosene).....	Bbl. (42 gal.).....	F-3	\$.....
4. Gasoline and kerosene.....	Gal.....	F-4	\$.....
5. Natural gas (used for fuel or power; estimate if necessary).....	M cu. ft.....	F-5	\$.....
6. Other (specify).....			\$.....
Total value of fuels.....	xxxxxxx	xxxxxxxxxxxxx	\$..... B-2
C. Electric energy used:			
1. Generated by your company.....	Kw.-hr.....	F-6	xxxxxxx
2. Purchased.....	Kw.-hr.....	F-7	\$..... B-3

INQUIRY 8—AMOUNT PAID TO CONTRACTORS FOR WORK DONE DURING 1939.—Include all such contract work as drilling and completing wells, rig building, cementing, logging and surveying, acidizing or chemical treatment, shooting, bailing and cleaning out, pulling tubing, plugging, hauling, etc. Exclude payments to workmen employed by your company whose compensation should be reported under Inquiry 4. 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.

Name and address of contractor	Nature of contract work	Amount paid (omit cents)
A.		\$.....
B.		\$.....
C.		\$.....
D.		\$.....
E.		\$.....
(If more space is needed use a separate sheet and attach here)		\$.....
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 construction of company residences, bunkhouses, 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. Exclude the cost of old equipment or material used in this construction unless purchased from others. Exclude value of land. Exclude the cost of drilling wells, but include the cost of construction of derricks.....	\$..... B-5
B. Cost of all new machinery and equipment in 1939. Exclude any equipment reported under A. Include the cost of new casing, wellhead fittings, and equipment for flowing or pumping wells (but exclude the cost of old casing). Include the cost of new lease tanks, drilling equipment, etc.....	\$..... B-6
C. Cost of all purchased second-hand machinery and equipment. Include the cost of used casing if purchased from others. Exclude any used material reported under A.....	\$..... B-7
Total (A+B+C).....	\$..... B-8

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. Include all power equipment at oil-well operations except that owned by contractors.

Kind of power equipment	Number		Total horsepower rating	
		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
2. Prime movers not driving generators.....		G-5		G-6
Total prime movers (1+2).....		G-9		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.....		H-1		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 only the costs specified; do not include other costs such as taxes, interest on investment, etc.

KIND OF WELLS DRILLED	Item	WELLS COMPLETED DURING 1939		COST OF DRILLING AND EQUIPPING WELLS, including amounts paid to contractors (omit cents)					Total amounts paid to (or due) contractors for drilling and/or equipping wells (omit cents)
		Number of wells	Total footage drilled	Cost of Drilling	Cost of Well Equipment			Total of preceding cost items	
				(Report cost of labor, supplies, water, fuel, and power used in such operations as erecting and dismantling drilling rig and derrick, drilling hole, running and cementing casing and hauling materials; include machinery and tool charges or rentals; deduct the value of material salvaged after use. DO NOT include here cost of drilling derrick, or any part thereof, that was left over well for production after well completion; report this cost under "Production derrick.")	(Include cost of delivering and installing equipment, but do not duplicate costs reported under "Cost of drilling." Deduct value of your equipment that was salvaged and used again, but include cost of salvaging.)		Production derrick (Report here cost of drilling derrick or any portion thereof, that was retained over well after completion, or report cost of special-production derrick erected after drilling derrick was dismantled.)		
					Casing	Equipment for flowing or pumping (Include tubing, wellhead fittings, gas traps, flow tanks, etc.)			
		N-1	N-2	N-3	N-4	N-5	N-6	N-7	N-8
A. Drilled by own company:									
1. Oil wells.....	1			\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
2. Gas wells*.....	2			\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
3. Dry holes**.....	3			\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
Total.....	4			\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
B. Drilled on contract:									
1. Oil wells.....	5			\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
2. Gas wells*.....	6			\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
3. Dry holes**.....	7			\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
Total.....	8			\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
C. Total wells drilled:									
1. Oil wells.....	9			\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
2. Gas wells*.....	10			\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
3. Dry holes**.....	11			\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
Total.....	12			\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
D. Wells drilled and abandoned before completion (included above).....	17			State reason for abandonment.....					

*Include only wells drilled incidentally while in quest of crude oil. Data relating to all other gas wells should be reported on the Natural Gas Schedule (Form 100-MQ-35).

**Include wells drilled and abandoned before completion during 1939.

EXPLANATIONS—Write here explanations and comments that would aid proper interpretation of your report.

CERTIFICATE

THIS IS TO CERTIFY, That to the best of my knowledge and belief, the information contained in this report is correct and complete for the calendar year 1939.

(Signature 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 crude 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.

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 who 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 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. 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, 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.

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 rent 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 3B.

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 suggested:

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

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:

Pay-roll period	Full-time wage earners	Part-time wage earners	Pay-roll period	Full-time wage earners	Part-time wage earners
Apr. 1-15.....	20	4	Aug. 1-15.....	40	6
Apr. 16-30.....	26	4	Aug. 16-31.....	36	4
May 1-15.....	30	4	Sept. 1-15.....	40	4
May 16-31.....	36	6	Sept. 16-30.....	40	4
June 1-15.....	40	6	Oct. 1-15.....	36	4
June 16-30.....	40	6	Oct. 16-31.....	30	4
July 1-15.....	44	6	Nov. 1-15.....	34	3
July 16-31.....	38	4	Nov. 16-30.....	20	0

In this case, add the numbers of full-time wage earners in active pay-roll 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, 6, 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, overhead 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; laying fuel and water lines; rigging up; drilling hole; making straight-hole 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 off 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 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 gas-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 sworn census employees will use your statements. 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.

<p>DO NOT FILL IN</p> <p>(Industry number)</p> <p>(State and county)</p> <p>(Central office number)</p> <p>(Schedule number)</p> <p>(Type of operation)</p>	<p>FORM 100-MQ-OGC</p> <p>DEPARTMENT OF COMMERCE</p> <p>BUREAU OF THE CENSUS</p> <p>WASHINGTON</p> <p>CENSUS OF MINES AND QUARRIES: 1939</p> <p>OIL AND GAS CONTRACTOR</p> <p>SCHEDULE</p> <p style="font-size: small;">16-366</p> <p style="text-align: right;">File No. _____</p>
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Reply to all the following questions and return as promptly as possible in the enclosed envelope, which requires no postage. Before preparing your report read carefully all instructions on this schedule.

This schedule should be filled out if you were engaged during ANY PART of 1939 in contract work for companies engaged in oil- or gas-well operations. Answer each question and if the answer is "none," so indicate rather than leave the space blank.

This report should cover operations during the calendar year ended December 31, 1939. Report on this schedule ALL work done by you on contract during 1939 for companies producing petroleum or natural gas. DO NOT report on this schedule work done outside the oil and gas industry. DO NOT report on this schedule work in construction of pipe lines other than those in connection with drilling operations.

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

INQUIRY 1—NAME, LOCATION, AND DESCRIPTION OF OPERATION.

A. Name of contractor _____

B. General office address of contractor _____

Key
A-1

1. Is the concern operating this establishment incorporated? _____ (Yes or no)

2. Is this concern a subsidiary or an affiliate of some other concern? _____ (Yes or no)

If so, give name and address of such other concern _____

Key
A-2

C. Did you do any contract work for companies engaged in oil- or gas-well operations during any part of 1939? _____ (Yes or no)

1. List, in order of importance, the States in which you did contract work for such companies _____

D. Were you engaged in contract work for other than oil or gas companies during any part of 1939? _____ (Yes or no)

E. Did you drill any oil or gas wells or dry holes during 1939 for your own account (not on contract for others)? _____ (Yes or no)

F. If this organization 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. List below the names and addresses of companies producing petroleum and natural gas for which you did contract work during 1939, and indicate nature of work performed (such as drilling wells, cementing wells, acidizing, shooting wells, bailing and cleaning out, pulling tubing, operating wells, plugging, hauling, etc.):

Name and address of oil or gas company	Nature of contract work done

(If more space is needed use a separate sheet and attach here)

INQUIRY 2—QUANTITY OF MINERALS PRODUCED AND VALUE OF WORK DONE FOR OTHERS:

	Item	Quantity D-4
A. If you produced any crude petroleum or natural gas during 1939 indicate amount produced:		
1. Crude petroleum.....	250	barrels
2. Natural gas.....	200	M cu. ft.
Was any of the above oil or gas produced for your own account (not on contract)? If so, indicate kind and quantity (Yes or no)		
Was any of this oil or gas paid you for contract services rendered in 1939? If so, indicate quantity (Yes or no)		
B and C. (Omitted; do not apply to contractors.)		
D. Total amount received (or due you) for work done during 1939 for companies producing crude petroleum or natural gas and listed under Inquiry 1G. (Do not include amounts received for work done prior to 1939. If part of the amount received was in oil or gas, estimate carefully the value of this oil or gas and include it in the total amount received).....		
	Item	Key
	4	D-5

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, in contract work for companies producing crude petroleum or natural gas. DO NOT count the same person under more than one of the headings A, B, and C. Exclude employees engaged in pipe-line construction other than those in connection with drilling operations. Exclude employees of oil or gas companies.

Class	Number of persons	Key
A. Salaried employees. Report here salaried officers of corporations; managers, superintendents, and other supervisory personnel; responsible professional and technical employees such as engineers, geologists, chemists, etc.; and all clerical employees. (Exclude gang and straw bosses and working foremen who should be reported under "Wage earners".)		A-5
B. Wage earners. Report here all employees who performed manual work, used tools, operated machines, and cared for wells, etc., regardless of whether they were paid on a wage or salary basis. (Include both full-time and part-time workers).....		
Total employees (A+B).....		
C. Proprietors and firm members (not applicable to corporations).....		A-6
1. Proprietors and firm members (included in C) regularly performing manual labor.....		A-7

INQUIRY 4—SALARIES AND WAGES.—Report amounts paid for the entire calendar year 1939 to the same classes of employees as reported under Inquiry 3. Include 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.

Class of employees	Total salaries and wages paid (omit cents)	Key
A. Salaried employees. Report here salaried officers of corporations; managers, superintendents, and other supervisory personnel; responsible professional and technical employees such as engineers, geologists, chemists, etc.; and all clerical employees. (Exclude gang and straw bosses and working foremen who should be reported under "Wage earners".)	\$.....	A-8
B. Wage earners. Report here all employees who performed manual work, used tools, operated machines, and cared for wells, etc., regardless of whether they were paid on a wage or salary basis. (Include both full-time and part-time workers).....	\$.....	A-9
Total salaries and wages paid (A+B).....	\$.....	A-10

INQUIRY 5—WAGE EARNERS EMPLOYED, BY MONTHS.—Report the number of wage earners receiving pay for any time during the pay-roll period ended nearest the 15th of each month. Figures given in this inquiry should include only the class of employees reported under Inquiry 3B above.

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 TYPE OF WORK AND WORKING TIME.—Figures given in this inquiry should include only the class of employees reported under Inquiry 3B above. If book figures are not available for some of the items called for, report carefully prepared estimates.

A. Average number of wage earners, man-hours, and length of workweek during 1939.

Type of work	Item	Total man-hours worked during 1939 E-2	Average number of wage earners receiving pay*			Number of hours per wage earner in full-time workweek (exclusive of overtime)	
			Total E-3	Full-time workers E-4	Part-time workers E-5	E-14	Code Key
1. Drilling wells and rig building (exclude employees paid by oil and gas companies)	4						{E-15 A-13
2. Other work (specify):							
Total of above (1+2)	9					X X X X	X X X X X X X X

*The average number of wage earners should represent the average number during active periods when wage earners were actually drilling wells or performing other related work during 1939. The following method of computing the average number of wage earners is suggested: Count the number of wage earners receiving pay on each weekly, semi-monthly, or monthly active period (for which over 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. 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. See also instructions at end of schedule.

B. Do you keep actual records of man-hours?

Key
E-13

(Yes or no)

A-14 Code Key
A-15

C. Give number of days during 1939 on which you did any contract work for oil or gas companies

INQUIRIES 7, 8, and 9. (Omitted; do not apply to oil and gas contractors.)

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

Kind of power equipment	Number	Total horsepower rating
A. Prime movers (include steam engines and turbines, internal-combustion engines, water wheels, and hydroturbines)	G-9	G-10
B. Electric motors driven by purchased energy	H-1	H-2
C. Electric motors driven by energy generated by your company	H-5	H-6

INQUIRY 11—COST OF DRILLING AND EQUIPPING WELLS ON CONTRACT COMPLETED BY YOU IN 1939.—Report here the designated costs of drilling and/or equipping all wells drilled by you on contract for companies producing crude petroleum and natural gas. Report *only* the costs specified; do not include other costs such as taxes, interest on investment, etc. If any of the work was sublet by you to other contractors exclude here amounts paid by you to such contractors, but *report the names and addresses and amounts paid* to such contractors under "Explanations" on next page. DO NOT report the cost of wells drilled for your own account and not on contract for oil or gas companies. DO NOT include costs borne directly by oil or gas companies and not covered by the amounts received by you for contract work.

KIND OF WELLS DRILLED	Item	WELLS COMPLETED DURING 1939*		COST OF DRILLING AND EQUIPPING WELLS ON CONTRACT FOR OIL OR GAS COMPANIES. <i>Exclude costs borne directly by these companies (omit cents)</i>				
		Number of wells	Total footage drilled	Cost of Drilling (Report cost of labor, supplies, water, fuel, and power used in such operations as erecting and dismantling drilling rig and derrick, drilling hole, running and cementing casing and hauling materials. Include machinery and tool charges or rentals; deduct the value of material salvaged after use. DO NOT include here cost of drilling derrick, or any part thereof, that was left over well for production after well completion; report this cost under "Production derrick.")	Cost of Well Equipment (Include costs of delivering and installing equipment, but do not duplicate costs reported under "Cost of drilling." Deduct value of your equipment that was salvaged and used again, but include cost of salvaging.)			Total of preceding cost items
					Casing	Equipment for flowing or pumping (Include tubing, wellhead fittings, gas traps, flow tanks, etc.)	Production derrick (Report here cost of drilling derrick or any portion thereof, that was retained over well after completion; or report cost of special production derrick erected after drilling derrick was dismantled.)	
		N-1	N-2	N-3	N-4	N-5	N-6	N-7
A. Oil wells.....	13			\$.....	\$.....	\$.....	\$.....	\$.....
B. Gas wells.....	14			\$.....	\$.....	\$.....	\$.....	\$.....
C. Dry holes*.....	15			\$.....	\$.....	\$.....	\$.....	\$.....
Total.....	16			\$.....	\$.....	\$.....	\$.....	\$.....
D. Wells drilled and abandoned before completion (included above).....	18							
State reason for abandonment.....								

* Include wells drilled and abandoned before completion during 1939. Exclude wells drilled for your own account and not for oil or gas companies.

EXPLANATIONS.—Write here explanations and comments that would aid proper interpretation of your report.

CERTIFICATE

THIS IS TO CERTIFY that, to the best of my knowledge and belief, the information contained in this report is correct and complete for the calendar year 1939.

(Signature and official title of person furnishing information.)

(Address)

(Date of signature)

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 others.—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.

Inquiry 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 salary. Those proprietors or firm members who performed manual labor 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, 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 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 3B.

Man-hours.—A man-hour is the work of 1 man during 1 hour. (If 10 men worked 100 eight-hour shifts 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 (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 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 earners on each weekly, semi-monthly, 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 that you were continuously engaged in contract drilling throughout the 5 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 semi-monthly pay-roll periods:

Pay-roll period	Full-time wage earners	Part-time wage earners	Pay-roll period	Full-time wage earners	Part-time wage earners
Apr. 1-15	10	2	Aug. 1-15	20	1
Apr. 16-30	12	2	Aug. 16-30	18	2
May 1-15	15	2	Sept. 1-15	20	2
May 16-31	18	3	Sept. 16-30	20	2
June 1-15	20	3	Oct. 1-15	18	2
June 16-30	20	3	Oct. 16-31	15	2
July 1-15	22	2	Nov. 1-15	12	1
July 16-31	19	2	Nov. 16-30	10	0

In this case, add the numbers of full-time wage earners in active pay-roll periods (10, 12, 15, 18, 20, etc.), giving a total of 270, 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 270 divided by 16, or 17 full-time wage earners. Similarly, add the numbers of part-time wage earners in active pay-roll periods (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 earners. 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 wage earner in the full-time workweek, exclusive of overtime, at your operations. Do 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 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 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 straight-hole 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 off 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 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 gas-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. Exclude the 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."

(5)

This report is required under the provisions of the Bituminous Coal Act of 1937, pursuant to Section 19 of the Act. The questions are so framed as to supply data needed for administration of the Coal Act and at the same time to provide the statistics for bituminous coal mining for the Sixteenth Decennial Census. Another act of Congress provides for a general census of industry, mines, agriculture, and population to be taken during the year 1940 and to cover operations during the calendar year 1939. By agreement between the Departments of Commerce and of the Interior, the statistics of bituminous coal from mines producing more than 50 tons daily and from mines having rail or river 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 19 of the Coal Act for unauthorized disclosure of confidential data, and the disclosure of the operations of individual producers 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 census, making it unlawful for the Census Bureau to disclose any facts regarding the business of individual producers.

DO NOT FILL IN

(Industry number)

(State and county)

(Central office number)

(Schedule number)

(Type of operation)

Form BCD 281 T-1, March 1940

BCD FORM T-1 1939

UNITED STATES DEPARTMENT OF THE INTERIOR
BITUMINOUS COAL DIVISION
IN COOPERATION WITH
UNITED STATES DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON

DO NOT FILL IN

File No.

BCD Key Code No.

ANNUAL REPORT OF PRODUCTION AND MINE OPERATION: 1939

BITUMINOUS COAL MINES OVER 50 TONS DAILY AVERAGE

10-556

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 tons; 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 office. A SEPARATE REPORT SHOULD BE MADE FOR EACH MINE OR STRIP PIT. Omit data relating to coke ovens.

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.)

INQUIRY 1—NAME, LOCATION, AND DESCRIPTION OF OPERATION:

A. Name of mine

B. Name and address of operator

1. Is the concern operating this establishment incorporated? Key
A-1

(Yes or No)

2. Does this concern operate mines other than the one covered by this report? Key
A-1

(Yes or No)

C. Location of mine workings covered by this report:

1. State 2. County 3. City, town, or village (within which
or nearest which located) 4. Post office nearest to mine

5. Shipping point

6. Coal Act District 7. Field or Trade District Key
A-2

(Yes or No)

D. Was there any production or development work at this mine during any part of 1939?

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 address of the operator for the remaining portion of the year

F. Name or number of coal seam worked

1. Average thickness of coal seam: Including partings inches. Excluding partings inches.

G. If mine produced no coal in 1939, please check below in proper square:

Idle, not abandoned ☐ Permanently abandoned or worked out ☐ Out of business ☐

INQUIRY 2—QUANTITY AND VALUE OF PRODUCTS AND VALUE OF WORK DONE FOR OTHERS:

A. Production of coal in 1939 (include all marketable coal; exclude only washery and other refuse):

- | Item | Quantity in net tons of 2,000 pounds
D-4 |
|---|---|
| 1. Loaded at mine directly into railroad cars or river barges..... | 211 |
| 2. Hauled by truck to railroad siding for shipment by rail..... | 212 |
| 3. Hauled by truck to waterway for shipment by water..... | 213 |
| 4. Shipped by truck or wagon (excluding coal used by mine employees)..... | 214 |
| 5. Coal used by mine employees..... | 215 |
| 6. Taken by locomotive tenders at tippie..... | 216 |
| 7. Used at mine for power and heat (colliery fuel)..... | 217 |
| 8. Made into beehive coke at mine (coal used)..... | 218 |
| 9. Other (specify)..... | |
| 10. Net change in stocks of coal at mine between January 1, 1939, and January 1, 1940. (If increase indicate by plus (+) sign, if decrease indicate by minus (-) sign)..... | |

Total production of coal in 1939..... 1

B. Value of coal produced as reported under A above. (Report total dollars received *f. o. b. mine*, excluding selling expense. Include value of coal not sold but used by producer for mine fuel, coke, or other purposes)

C. Other products from this operation, such as clay, stone (specify):

D. Electric power generated at this operation and sold. (Do not include power reported under Inquiry 7C)

E. Amount received for work or services performed for other establishments, such as hauling, stripping, pumping, shop work, etc.....

Item	Unit of measure	Quantity D-4	Total value D-5
1	x x x x x x	x x x x x x x	\$.....
(Cont.)			
2			\$.....
3	Kw.-hr.		\$.....
4	x x x x x x	x x x x x x x	\$.....
		Code	Key
		A-3	A-4

Grand total value (B+C+D+E).....

INQUIRY 2a—TRANSPORTATION ROUTES:

A. List of railroads or waterways on which product was first loaded for shipment:

Name of railroad or waterway	Net tons loaded on each	Name of railroad or waterway	Net tons loaded on each

B. On coal hauled by truck, if any, to railroad siding or to river for shipment, report below:

Name of railroad	Shipping point	Distance hauled	miles.
Name of river	Loading point	Distance hauled	miles.

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 mine together with its shops, yards, preparation plant, and office, engaged in production, development (including construction), repairs, or maintenance work. Exclude coke-oven and company-store employees. Exclude employees engaged by the contracting corporations reported under Inquiry 8. Include persons employed in a general office having jurisdiction over two or more mines if it is located at or near this mine. DO NOT include employees for a general office that is located at a distance from the site of the mine who are reported on the Central Office Schedule.

Class	Number of persons	Key
A. Salaried employees. Report here salaried officers of corporations; managers, superintendents, and other supervisory personnel; responsible professional and technical employees; and all clerical employees. (Exclude gang and section bosses and working foremen who should be reported under "Wage earners").....		A-3
B. Wage earners (including those paid on time basis and those paid on ton, yard, or other piece-work basis).....		
Total employees (A+B).....		
C. Proprietors and firm members (not applicable to corporations).....		A-6
1. Proprietors and firm members (included in C) regularly performing manual labor in or about the mine.....		A-7

INQUIRY 4—SALARIES AND WAGES.—Report amounts paid for the entire calendar year 1939 to the same classes of employees as reported under Inquiry 3. Include all salaries, wages, bonuses, commissions (and profits when paid to employees) before deductions for Social Security, insurance, dues, etc. If free rent was furnished as part compensation of employees, its value should be included as salaries. 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	Total salaries and wages paid (omit cents)	Key
A. Salaried employees. Report here salaried officers of corporations; managers, superintendents, and other supervisory personnel; responsible professional and technical employees; and all clerical employees. (Exclude gang and section bosses and working foremen who should be reported under "Wage earners".)	\$	A-8
B. Wage earners (including those paid on time basis and those paid on ton, yard, or other piece-work basis)	\$	A-9
Total salaries and wages paid (A+B)	\$	A-10

INQUIRY 5—WAGE EARNERS EMPLOYED, BY MONTHS.—Report the number of wage earners receiving pay for any time during the pay-roll period ended nearest the 15th of each month. Figures given in this inquiry should include only the class of employees reported under Inquiry 3B above.

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 shifts active. (Include the same class of employees as reported under Inquiry 3B engaged in production, development, construction, repairs, or maintenance work in or about the mine. Include gang and section bosses and working foremen. Exclude salaried officers, supervisory, technical, and clerical employees; also exclude employees operating coke ovens, company stores, etc. Convert all parts of shifts to equivalent full shifts.)

Department	Item	Total man-shifts worked during 1939	Length of shift (hours)	Total man-hours worked during 1939	Number of days on which production or development work was done by each department			Average number of wage earners receiving pay (include all shifts)
		E-1		E-2	On first shift	On second shift	On third shift	E-6
1. During active days (devoted to production or development work):								
(a) Underground (mining and development)	1							
(b) In strip pit (mining coal and stripping overburden)	6							
(c) Surface (including tipples, cleaning plant, mine shops and yards but excluding coke ovens and office force)	7							
(d) Total of above	9		XXX		XXX	XXX	XXX	
2. During inactive days (all days in year not included under 1 above) for all departments	0				XXX	XXX	XXX	
3. During both active and inactive days (total of 1 and 2 above)	5		XXX		XXX	XXX	XXX	
DO NOT FILL IN		8	XXXXXXXX	XXX	XXXXXXXX			

B. Do you keep actual records of man-shifts? ☐ Key E-12 or man-hours? ☐ Key E-13
(Yes or No) (Yes or No)

C. Number of wage earners on each shift receiving pay for normal pay period ended nearest October 14, 1939, including number underground, or in strip pit, and on surface. (The "Total" reported in last column should be the same as the number reported in Inquiry 3B)

Item	First shift	Second shift	Third shift	Total
	E-6	E-7	E-8	
8				
(Cont.)				

D. Total number of full days tippie was in operation during the year. (Parts of days should be converted to equivalent full days)
..... days.

E. Report number of hours per wage earner in the full-time workweek (exclusive of overtime):

Underground In strip pit On surface

E-14	Code	Key
		E-15
		A-13

A-14	Code	Key
		A-15

A-16	Code	Key
		A-17

Code	Key
	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	Unit	Quantity		Total cost (omit cents)	
			Key		Key
A. Supplies and materials	x x x x x	x x x x x x x x x		\$	B-1
B. Fuel:					
1. Coal, bituminous	Short ton		F-1	\$	
2. Coal, anthracite	Short ton		F-2	\$	
3. Fuel oils (including heating oils, but not gasoline or lubricants)	Bbl. (42 gal.)		F-3	\$	
4. Gasoline and kerosene	Gal.		F-4	\$	
5. Natural gas (used for fuel or power)	M cu. ft.		F-5	\$	
6. Other (specify)				\$	
Total value of fuels	x x x x x	x x x x x x x x x		\$	B-2
C. Electric energy used:					
1. Generated by your company	Kw.-hr.		F-6	x x x x x x	
2. Purchased	Kw.-hr.		F-7	\$	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)
A.		\$
B.		\$
(If more space is needed use a separate sheet and attach here)		
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.

	Key
A. Cost of new construction or major alterations of <i>buildings and other structures in 1939</i> . 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	B-5
B. Cost of all <i>new</i> 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)	B-6
C. Cost of all machinery and equipment (movable or fixed) <i>purchased in a "used" condition</i> and charged to capital asset account (exclude any used material reported under A)	B-7
Total (A + B + C)	B-8

INQUIRY 12—CUTTING MACHINES AND METHODS OF MINING:

DO NOT FILL IN

	Key	Key
District code.....	P-1	P-2
Seam thickness.....	P-3	P-4

A. Number of mining machines (cutting or shearing) of all types used:

1. Track mounted.....
2. Other types (shortwall, longwall, etc.).....

Total.....

"Permissible" machines		All other	
	Key		Key
	P-5		P-6
	P-7		P-8
	P-9		P-10

B. Coal produced by different methods in 1939:

1. Tons undercut by hand.....
2. Tons shot from solid.....
3. Tons cut by machines.....
4. Tons mined from strip pits.....

Item	Quantity in net tons D-4
228	
229	
230	
231	

INQUIRY 13—MECHANICAL CLEANING BY WET OR PNEUMATIC METHODS (exclude hand picking on tables):

A. Make and type of cleaning equipment (list name).....

B. Sizes of coal mechanically cleaned.....

C. Tons of raw coal cleaned in 1939.....

D. Tons of cleaned product obtained.....

E. Tons of refuse (exclude this refuse in answering Inquiry 2 on page 2).....

Item	Wet-washing methods D-1	Pneumatic methods D-2
232		
233		
234		

INQUIRY 14.—Were there any strikes or labor suspensions in 1939 at the mine? If so, please state number of men affected and duration in days, excluding Sundays and holidays:

Men on strike or suspension.....

Key
P-11

Average number of days.....

Key
P-12

EXPLANATIONS.—Write here explanations and comments that would aid proper interpretation of your report.

CERTIFICATE

THIS IS TO CERTIFY that, to the best of my knowledge and belief, the information contained in this report is correct and complete for the calendar year 1939.

(Signature and official title of person furnishing information)

(Date of signature)

(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, tipples, 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 company.

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 tipples," include only such railroad fuel as is loaded directly into locomotive tenders at the tipples. 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 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 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 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.

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 be based 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 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 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 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, shops, 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 piece-work 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 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.), 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., 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 rent 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-1 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 inactive.

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

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

For "Surface" report employees engaged at the tipples, cleaning plant, mine shops, hoist, fans, 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 tippie 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.

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 tippie loaded coal or on which coal was crushed 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 tippie) 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:

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 1939; 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:

Semi-monthly pay-roll period	Wage earners receiving pay	Semi-monthly pay-roll period	Wage earners receiving pay
Jan. 1-15	262	July 1-15	295
Jan. 16-31	263	July 16-31	296
Feb. 1-15	264	Aug. 1-15	296
Feb. 16-28	268	Aug. 16-31	297
Mar. 1-15	268	Sept. 1-15	218
Mar. 16-31	266	Sept. 16-30	215
Apr. 1-15	4	Oct. 1-15	320
Apr. 16-30	4	Oct. 16-31	325
May 1-15	2	Nov. 1-15	327
May 16-31	4	Nov. 16-30	326
June 1-15	5	Dec. 1-15	329
June 16-30	4	Dec. 16-31	330

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 "On surface."

Under C indicate as nearly as possible how many of the total number of wage earners 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 Janu-

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 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 sinking, 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 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 others).

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 junk. 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 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 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-NF

File No. _____

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON

CENSUS OF MINES AND QUARRIES: 1939

NONFERROUS METALS SCHEDULE

16-389

(Industry classification)

Reply to the following questions and return 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 whether or not mine 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 except where otherwise indicated. If answer is "none," write the word "none" in the appropriate space.

This report should cover the entire mine together with its office, shops, yards, mill, and ore-dressing plant. It should cover all mining operations, including the activities of lessees and sublessees. **USE A SEPARATE SCHEDULE FOR EACH MINE.** Additional blanks will be furnished upon request. If you operate a mill (or an ore-dressing plant) serving more than one mine, or if you operate a custom mill or plant (doing work for the account of others), report data for it on a **separate schedule** (Form 100-MQ-NF).

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

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

INQUIRY 1—NAME, LOCATION, AND DESCRIPTION OF OPERATION:

A. Name of mine (or mill, if reported separately) _____

1. If this report covers both a mine and a mill, give the name of the mill _____

B. Name and address of operator _____

1. Is the concern operating this establishment incorporated? _____

(Yes or No)

2. Does this concern operate mines or mills other than the one covered by this report? _____

(Yes or No)

3. Is this concern a subsidiary or an affiliate of some other concern? _____

(Yes or No)

If so, give name and address of such other concern _____

C. Location of mine (or mill) covered by this report:

1. State _____

2. County _____

3. City, town, or village (within which or

nearest which located) _____

4. Post office nearest to mine (or mill) _____

5. Mining district _____

6. Shipping point _____

D. Was there any production, development work, or construction at this mine (or mill) during any part of 1939? _____

(Yes or No)

E. If this report does not cover the operations of this mine (or mill) during the entire year 1939, give dates of period covered _____

and the name and address of the operator for the remaining portion of the year _____

F. Nature of operations at mine and/or mill covered by this report:

1. Principal kind or kinds of ore produced (specify whether copper, lead, zinc, lead-zinc, silver-lead, dry and siliceous gold, dry and siliceous silver, etc.) _____

2. Metals contained in your ores _____

(Continued on next page)

INQUIRY 1—Continued.

3. Mining methods (check):

(a) Open-cut ☐ Underground ☐ Combination open-cut and underground ☐

(b) If underground, check the mining methods used and underscore the dominant method:

Open stoping (including room-and-pillar and sublevel stoping) ☐ Shrinkage stoping ☐ Square-setting ☐Sublevel caving ☐ Cut-and-fill stoping ☐ Block caving ☐ Top slicing ☐Other (specify) ☐

(c) If placer, check method of working deposit:

Sluicing (small-scale hand methods) ☐ Dredging ☐ Hydraulic mining ☐ Drift mining ☐

4. Specify type of milling or ore dressing used such as flotation, straight gravity, gravity and flotation, amalgamation, cyanidation, etc.

5. If ore was treated at a custom mill or by another operator, give name and address of such mills or operators:

(a)

(b)

6. Maximum daily output:

(a) Maximum tonnage of ore mined within any 24-hour day in 1939 short tons.

(1) If underground, give number of shafts used in raising ore

(b) Maximum tonnage of ore treated by your ore-dressing plant within any 24-hour day in 1939 short tons.

7. Give below the names and addresses of lessees and sublessees whose activities are included in this report:

Name	Address	Name	Address
(a)	(d)
(b)	(e)
(c)	(f)

(If more space is needed use a separate sheet and attach here)

8. If this is a separate report for a mill or an ore-dressing plant serving more than one mine, list below names and locations of mines served:

Name of mine	State	County	City, town, or village	Name of operator
(a)
(b)
(c)

(If more space is needed use a separate sheet and attach here)

9. Give below the names and locations of smelters or reduction plants to which your ores or concentrates are shipped or sold:

Name of smelter or reduction plant	State	County	City, town, or village
(a)
(b)
(c)
(d)
(e)

(If more space is needed use a separate sheet and attach here)

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.

Product	Item	Tons of 2,000 pounds (dry weight) D1-1	Total net value <i>f. o. b. mine or mill</i> (round cents) D1-2	Average metal content by assay (percent)		DO NOT FILL IN			
				Lead	Zinc	Recoverable metal content		Adjustment	
						Zinc (pounds) D1-3	Lead (pounds) D1-4	Zinc D2-3	Lead D2-4
1. Total crude ore mined.....	331		X X X X X	X X	X X	X X X X X	X X X X X	X X X X X	X X X X X
2. Crude ore and tailings sold.....	333		\$						
3. Ore and tailings sent to custom mills for treatment on a custom basis (net value reported should exclude freight to mill and treatment and related charges).....	334		\$						
4. Concentrates produced at this operation (exclude concentrates 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		\$						
(b) Lead:									
(1) Galena ("lead").....			\$						
(2) Carbonate or lead "dry bone".....			\$						
(3) Total lead.....	344		\$						
5. Total of 2+3+4a(4)+4b(3).....	345	X X X X X	\$	X X	X X				
6. Concentrate produced from purchased ores.....	341		X X X X X						
7. Concentrate produced from custom ores.....	342		X X X X X						

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*.

Product	Item	Tons of 2,000 pounds (dry weight) D3-1	Quantities of metals contained, based on assay content					Total net value <i>f. o. b. mine or mill</i> (round cents) D4-5
			Gold (fine ounces) D3-2	Silver (fine ounces) D3-3	Copper (pounds—wet assay) D3-4	Lead (pounds—wet assay) D4-1	Zinc (pounds) D4-2	
1. Total crude ore mined.....	331		X X X X X	X X X X X	X X X X X	X X X X X	X X X X X	X X X X X
2. Direct-smelting ore.....	332							\$
3. Milling ore, tailings, slimes, etc., sold to custom mills or to other operators.....	333							\$
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							\$
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							\$

(Continued on next page)

INQUIRY 2—Continued.

Product or work done	Item	Metal, minerals, or other product		Total net value, f.o.b. mine or mill
		Unit of measure (specify)	Quantity	
			D5-4	D5-5
B. Other products of this mining or concentrating operation than those reported under A-I, A-II, 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):				\$
(a)				\$
(b)				\$
2. Other than mineral products (specify):				\$
(a)				\$
(b)				\$
3. Total value (1+2).....	2	XXXXXX	XXXXXX	\$
C. Electric energy generated at this operation and sold. (Do not include energy reported under Inquiry 7C.)	3	Kw.-hr.		\$
D. Amount received for work done or services performed for other producers and establishments:				
1. Amount received for custom milling and concentration.....			348	\$
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).....			4	\$
(DO NOT FILL IN)				
Grand total value (A+B3+C+D3).....		Key	Code	Key
		A-3		A-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 one mine (or plant) if it is located at this mine (or plant). Under "Wage earners" report all persons who performed manual work including wage earners paid on a time basis, contract miners and persons 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. Exclude employees engaged by the contracting corporations reported under Inquiry 8. Exclude employees, such as company-store employees, *not* engaged in mining, ore dressing, and related activities. Exclude from this report employees for a general office 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	Number of persons	Key
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").....		A-5
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).....		A-6
1. Proprietors and firm members (included in C above) regularly performing manual labor in or about the mine or mill.....		A-7

INQUIRY 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, 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	Total salaries and wages paid (omit cents)	Key
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").....	\$	A-8
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
Total salaries and wages paid (A+B).....	\$	A-10

INQUIRY 5—WAGE EARNERS EMPLOYED, BY MONTHS.—Report the number of wage earners *receiving pay* for any time during the pay-roll period ended nearest the 15th of each month. Figures given in this inquiry should include only the class of employees reported under Inquiry 3B above.

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 during year E-1	Length of shift (hours)	Total man-hours worked during year E-2	Number of mine-shifts (or mill-shifts) worked during 1939. (The number in each column should not exceed 365)			Average number of wage earners receiving pay		
					First shift E-3	Second shift E-4	Third shift E-5	First shift E-6	Second shift E-7	Third shift E-8
1. During <i>active</i> days (devoted to production or development work)—										
(a) At mine:										
(1) Underground (mining and development).....	1									
(2) Open-cut (mining, including surface placers, and stripping).....	6									
(3) Surface (including mine shops and yards).....	7									
(b) At mill or ore-dressing plant (including auxiliary works for mill or plant).....	8									
Total of above.....	9		x x x		x x x	x x x	x x x			
2. During <i>inactive</i> days (all days in year not included under 1 above) for all departments.....	0				x x x	x x x	x x x	x x x	x x x	x x x
3. During both <i>active and inactive</i> days (total of 1 and 2 above).....	5		x x x		x x x	x x x	x x x	x x x	x x x	x x x

B. Do you keep actual records of man-shifts? Key
E-12 or man-hours? Key
E-13

C. Number of days in operation:

1. Number of calendar days mine was active for production or development purposes during each month (count parts of days as full days):

January April July October

February May August November

March June September December

2. Total number of calendar days mill (or ore-dressing plant) was in operation during 1939

D. Report number of hours per wage earner in the full-time workweek (exclusive of overtime):

1. Underground 2. Open-cut 3. Mill

Key	Code	Key
E-14		E-15
A-14		A-15
A-16	Code	Key
		A-17

INQUIRY 7—SUPPLIES, MATERIALS, FUELS, AND ELECTRIC ENERGY CONSUMED.—The items entered here should represent the quantity and cost of supplies, fuel, and purchased electric energy *actually used* during 1939, for any purpose in connection with *the development, maintenance, or the operation* of the mine and mill. 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. Exclude any machinery or equipment which should be reported under Inquiry 9.

Item	Unit	Quantity	Key	Total cost (omit cents)	Key
A. Supplies and materials.....	XXXXXXXX	XXXXXXXXXXXX		\$	B-1
B. Fuel:					
1. Coal, bituminous (soft, including lignite).....	Short ton		F-1	\$	
2. Coal, anthracite (hard).....	Short ton		F-2	\$	
3. Fuel oils (including heating oils, but not gasoline or lubricants).....	Bbl. (42 gal.)		F-3	\$	
4. Gasoline and kerosene.....	Gal.		F-4	\$	
5. Natural gas (used for fuel or power).....	M cu. ft.		F-5	\$	
6. Other (specify).....				\$	
Total value of fuels.....	XXXXXXXX	XXXXXXXXXXXX		\$	B-2
C. Electric energy used:					
1. Generated by your company.....	Kw.-hr.		F-6	XXXXXXXX	
2. Purchased.....	Kw.-hr.		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 (omit cents)	Key
A.		\$	
B.		\$	
C.		\$	
D.		\$	
(If more space is needed use a separate sheet and attach here)		\$	
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.

A. Cost of new construction or major alterations of <i>buildings and other structures in 1939</i> . 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 <i>new</i> machinery and equipment installed in 1939 (include both movable and fixed equipment but exclude any equipment reported under A).....	\$	B-6
C. Cost of all machinery and equipment (movable or fixed) <i>purchased in a "used" condition</i> . (Include the cost of reconditioning; exclude any used material reported under A).....	\$	B-7
Total (A + B + C).....	\$	B-8

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	Stationary				Mobile*			
	Number		Total horsepower rating		Number		Total horsepower rating	
		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		G-7		G-8
Total prime movers (1+2).....		G-9		G-10		G-11		G-12
3. Prime movers, included in 1 and 2, ordinarily idle but held for stand-by (not junk).....		G-13		G-14		G-15		G-16
B. Electric motors driven by purchased energy.....		H-1		H-2		H-3		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 power shovels, scraper loaders, portable pumps, hoists, fans, mine locomotives, surface drills, trucks, tractors, and bulldozers. 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.

Type of equipment	Item	Total Number J-1	Classified by kind of power used				Classified by dipper or bucket capacity in cubic yards			Scraper hoists classified by rated horsepower			
			Steam J-2	Electric or Diesel- electric J-3	Com- pressed air J-4	Gasoline or Diesel J-5	Less than 3 J-6	3-5 inclu- sive J-7	More than 5 J-8	Less than 10 J-9	10-25 inclu- sive J-10	26-100 inclu- sive J-11	More than 100 J-12
A. Surface operation:													
1. Power shovels.....	1				X X X					X X X	X X X	X X X	X X X
2. Dragline excavators.....	2				X X X					X X X	X X X	X X X	X X X
3. Scraper loaders.....	3						X X X	X X X	X X X				
4. Other (specify):													
(a).....										X X X	X X X	X X X	X X X
(b).....										X X X	X X X	X X X	X X X
B. Underground:													
1. Shovel loaders													
(a) Requiring a minimum working height of more than 8 feet.....	10		X X X				X X X	X X X	X X X	X X X	X X X	X X X	X X X
(b) Requiring a minimum working height of 8 feet or less.....	11		X X X				X X X	X X X	X X X	X X X	X X X	X X X	X X X
Total under- ground shov- el loaders.....	12		X X X				X X X	X X X	X X X	X X X	X X X	X X X	X X X
2. Scraper loaders (including slushers).....	13		X X X				X X X	X X X	X X X				
3. Other types (specify):													
(a).....										X X X	X X X	X X X	X X X
(b).....										X X X	X X X	X X X	X X X

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

Number of loaders	Manufacturer	Model No.	Number of loaders	Manufacturer	Model No.
1.			5.		
2.			6.		
3.			7.		
4.			8.		

(If more space is needed use a separate sheet and attach here)

EXPLANATIONS.—Write here explanations and comments that would aid proper interpretation of your report.

CERTIFICATE

THIS IS TO CERTIFY that, to the best of my knowledge and belief, the information contained in this report is correct and complete for the calendar year 1939.

(Signature and official title of person furnishing information)

(Address)

(Date of signature)

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 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 zinc are produced as *byproducts* from major nonferrous ores (gold, silver, copper, lead, and zinc), report the production of such other metals likewise under B-1.

Note that A-1 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—f. 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 smelter at the expense of the mine operator, the transportation cost to the mill or smelter should be deducted from the net receipts reported. Where payment was made for products after deduction for royalties, 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 in 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 B all 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 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 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.

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 development work (including construction). Report here data for all wage earners (for all shifts) receiving pay during active days.

At mine.—For "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 in 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 workings 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 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 $10 \times 100 \times 8$, or 8,000.)

Number of mine-shifts (or mill-shifts).—A mine-shift is the operation of the mine (for either production or development purposes) for the duration of 1 full shift (of 7, 8, 9, or 10 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. 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 semimonthly pay-roll periods:

April 1-15.....	20	Aug. 1-15.....	40
April 16-30.....	25	Aug. 16-31.....	38
May 1-15.....	30	Sept. 1-15.....	40
May 16-31.....	35	Sept. 16-30.....	40
June 1-15.....	40	Oct. 1-15.....	35
June 16-30.....	40	Oct. 16-31.....	30
July 1-15.....	45	Nov. 1-15.....	30
July 16-31.....	38	Nov. 16-30.....	25

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 16. 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 mine 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.

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 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.

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 such contract work 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.

"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 converters.

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 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 (or of scraper hoists for scraper loaders) and each of the sums should equal the number indicated under "Total."

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

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 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.

<p>DO NOT USE</p> <p>(Industry number)</p> <p>(State and County)</p> <p>(Central office number)</p> <p>(Schedule number)</p> <p>(Type of operation)</p>	<p>FORM 100 - MQ - S</p> <p>DEPARTMENT OF COMMERCE</p> <p>BUREAU OF THE CENSUS</p> <p>WASHINGTON</p> <p>CENSUS OF MINES AND QUARRIES: 1939</p> <h2 style="margin: 0;">STONE SCHEDULE</h2> <p>FILE NO.</p>
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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 cement or lime manufacturing report on this schedule information relating to stone quarrying and crushing only. USE A SEPARATE SCHEDULE FOR EACH QUARRY 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-MQ-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.

INQUIRY 1.—LOCATION AND DESCRIPTION OF OPERATION.

A. Name of quarry or mine (or crushing, screening, or washing plant, if reported separately).....

B. Name and address of owner-operator or operator.....

1. Is the concern operating this establishment incorporated?..... (Yes or no) Key
A-1

2. Does this concern operate quarries or mines other than the one covered by this report?..... (Yes or no)

3. Is this concern a subsidiary or affiliate of some other concern?..... (Yes or no)

If so, give name and address of such concern.....

C. Location of quarry or mine covered by this report

1. State..... 2. County..... 3. City, town, or village (within which or nearest which located)..... 4. Post-office address of quarry or mine.....

5. Railroad shipping point, if any..... (Yes or no) Key
A-2

D. Was this quarry or mine active for either production or development purposes during any part of 1939?..... (Yes or no)

E. If this report does not cover the operations of this quarry or mine during the entire year 1939, give dates of period covered..... and the name and address of the operator who operated the quarry or mine for the remaining portion of the year.....

F. Nature of operations at quarry or mine covered by this report

1. Is this quarry or mine operated in conjunction with a dimension stone dressing plant, cement or lime mill?..... (Yes or no) If so, indicate which.....

2. Type of quarrying or mining (specify whether open quarry or underground mine).....

3. Does this report include stone-crushing operations?..... (Yes or no)

4. If this is a separate report for a crushing, screening, or washing plant serving more than one quarry or mine, list below names and locations of quarries or mines served. (Use a separate sheet if more space is needed)

Name of mine or quarry	State	County	City, town, or village
a.
b.
c.

INQUIRY 2.—QUANTITY AND VALUE OF PRODUCTS AND OF WORK DONE FOR OTHERS. Report all products produced during 1939 whether shipped, stocked, or used by you. Report dressed stone products here although the data in answer to all other inquiries should not embrace the stone dressing activities. If book records are not available to answer A-3, report best estimated figures.

Products, classified by use	Indicate kind of stone, such as limestone, granite, sandstone, etc.	Item	Quantity produced in units customarily employed			Quantity in approximate short tons of 2000 lbs.	Total net selling value f.o.b. point of shipment (omit cents)
			Unit of measure	Average weight of single unit pounds	Total quantity		
D-3							
D-4							
D-5							
A. Stone:							
1. Rough dimension stone. (Do not report here any stone included under production of dressed stone or crushed stone):							
a. For use in construction:							
(1) Irregular shaped stone for buildings, foundations, sea walls, bridges, etc.....							
101							
(2) Rubble (cellar foundations, retaining walls, and similar low-priced stone).....							
102							
b. For architecture (buildings and other high-class construction work).....							
103							
c. For monuments and mausoleums.....							
104							
d. Other (specify).....							
Total.....							
110							
2. Dressed dimension stone, including sawed, cut, or split stone. (Do not report here any stone included under A-1 or any stone not quarried by you):							
a. For use in construction or architecture (walls, roofing, foundations, bridges, etc.).....							
111							
b. For monuments and mausoleums.....							
112							
c. Paving blocks.....							
113							
d. Curbing.....							
114							
e. Flagging and floors or walkway slabs.....							
115							
f. Mill stock (blocks, slabs, or pieces).....							
116							
g. Other (specify).....							
Total.....							
124							
3. Rough blocks used to produce stone reported under A-2.....							
125							
4. Crushed, broken, and ground stone:							
a. Riprap.....							
126							
b. Concrete and road metal.....							
127							
c. Railroad ballast.....							
128							
d. Metallurgical (furnace flux).....							
129							
e. Refractory (ganister, mica schist, etc.).....							
130							
f. Agricultural.....							
131							
g. For cement manufacture.....							
132							
h. For lime manufacture.....							
133							
i. Other (specify).....							
Total.....							
139							
5. Natural abrasives:							
a. Millstones, chasers, dragstones, pavers, grindstones, pulstones, scythestones, oilstones, whetstones, hones, rubbing stones, etc.....							
140							
b. Ground natural abrasives.....							
141							
c. Other (specify).....							
Total.....							
149							
Total stone (1-5+6, omitting 2).....							
1							

(Continued on next page)

INQUIRY 2.—CONTINUED

B. Other products of quarrying and mining operations such as coal, top soil, clay, gypsum, etc.
(If reported on a separate schedule, state on what schedule):

Item	Unit of measure	Quantity D-4	Value (omit cents) D-5
1.			\$.....
2.			\$.....
Total value of other products.....			\$.....
C. Electric energy generated by your company and sold. (Do not include energy reported under Inquiry 7-C).....	Kw-hr		\$.....
D. Amount received for work, if any, performed for other establishments, such as hauling, stripping, pumping, dressing, washing, crushing, etc. (specify):			
1.			\$.....
2.			\$.....
Total amount received.....			\$.....

Grand total value (A+B+C+D, omitting A-E).....

INQUIRY 3.—PERSONS ENGAGED, BY CLASSES. Include number of employees receiving pay at 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 quarry or mine together with its crushing, screening, or washing plant and office, engaged in production, development (including construction), repairs, or maintenance work. Do not include employees engaged in dressing dimension stone or in manufacturing cement or lime. Include persons employed in a general office having jurisdiction over two or more quarries or mines if it is located at this quarry or mine. DO NOT include employees for a general office that is located at a distance from the site of the quarry or mine; these employees should be reported on the General Office Schedule Form 10.

Class	Number of persons	Key
A. Salaried employees. Include 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.").....		A-5
B. Wage earners (include both time and piece workers).....		
Total employees (A+B).....		
C. Proprietors and firm members (not applicable to corporations).....		A-6
1. Proprietors and firm members (included in C above) regularly performing manual labor in or about the quarry or mine.....		A-7

INQUIRY 4.—SALARIES AND WAGES. Report amounts paid for the entire calendar year 1939 to the same classes of employees as reported under Inquiry 3. Include bonuses and profits when paid either to officers and salaried employees or to wage earners. Include employees' social-security contributions, if board or rent was furnished as part compensation of employees, its value should be included as salaries and wages.

Class of employees	Total salaries and wages paid (omit cents)	Key
A. Salaried employees. Include 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").....	\$.....	A-8
B. Wage earners (include both time and piece workers).....	\$.....	A-9
Total salaries and wages paid (A+B).....	\$.....	A-10

INQUIRY 5.—WAGE EARNERS EMPLOYED, BY MONTHS. Report the number of wage earners receiving pay at any time during the pay-roll period ended nearest the 15th of each month. Figures given in this inquiry should include only the class of employees reported under Inquiry 3-B above.

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 USE)	
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, days active, man-shifts, length of shift, and man-hours. (Include all wage earners engaged in production, development - including construction - repairs, or maintenance work.)

Department	Time	Total man-shifts worked during year	Length of shift (hours)	Total man-hours worked during year	Number of days quarry, mine, or plant was active			Average number of wage earners (Report average number of wage earners receiving pay when the quarry, mine, or plant was active)		
					First shift	Second shift	Third shift	First shift	Second shift	Third shift
		E-1		E-2	E-3	E-4	E-5	E-6	E-7	E-8
1. During days active for either production or development										
a. At quarry or mine:										
(1) Underground (mining and development).....	1									
(2) Openout (quarrying and stripping).....	6									
(3) Surface (quarry repair shop, etc.).....	7									
b. At crushing, screening, washing, or storage plant.....	8									
Total of above.....	9	XXXXXXXX			XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
2. During inactive days (all days in year not included under 1 above) for all departments.....	0				XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX

B. Do you keep actual records of man-shifts? ☐ Key E-12 or man-hours? ☐ Key E-13 (Yes or no) (Yes or no)

C. Number of days quarry or mine was active for production or development during each month:

January.....	April.....	July.....	October.....	(Do not use)
February.....	May.....	August.....	November.....	
March.....	June.....	September.....	December.....	

D. Report number of hours per wage earner in the full-time workweek (exclusive of overtime):

Underground	Key	Code	Key
Open out	E-14		E-15 A-15

INQUIRY 7.—SUPPLIES, MATERIALS, FUELS, AND ELECTRIC ENERGY CONSUMED. The items entered here should represent the quantity and cost of supplies, fuel, and purchased electric energy actually used during 1939, for any purpose in connection with the development or the operation of the quarry or mine and crushing, screening, or washing plant. Include freight and haulage costs. Include the quantity and value of supplies and fuels which were both produced and consumed by you.

Item	Does figure reported represent amount actually used? (Yes or no)	Unit	Quantity	Total cost (omit cents)
A. Supplies and materials.....		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	Key E-1
B. Fuel:				
1. Coal, bituminous (soft, including lignite).....		Short ton		F-1 \$
2. Coal, anthracite (hard).....		Short ton		F-2 \$
3. Fuel oils (including heating oils, but not gasoline or lubricants).....		Bbl. (42 gals.)		F-3 \$
4. Gasoline and kerosene.....		Gallon		F-4 \$
5. Natural gas (used for fuel or power).....		M. cu. ft.		F-5 \$
6. Other (specify).....				\$
Total value of fuels.....	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	\$ B-2
C. Electric energy used:				
1. Generated by your company.....		Kw-hr		F-6 \$
2. Purchased.....		Kw-hr		F-7 \$ B-3

MINERAL INDUSTRIES

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

Name and address of contractor	Nature of contract work	Amount paid (omit cents)
A.
B.
(If more space is needed please use a separate sheet and attach to schedule)		
Total amount paid contractors.....	

Key
B-6

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.

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.....	B-6
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-6
C. Cost of all machinery and equipment (movable or fixed) purchased in a "used" condition (exclude used material reported under A).....	B-7
Total (A+B+C).....	B-8

INQUIRY 10.—POWER EQUIPMENT.

The figures given in this inquiry should be for equipment as of January 1, 1940.

Kind of power equipment (include all equipment available for use but exclude junk)	Stationary		Mobile*	
	Number	Total horsepower rating	Number	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	G-6	G-7	G-8
Total prime movers (1+2).....	G-9	G-10	G-11	G-12
3. Prime movers, included in 1 and 2, ordinarily idle but held for standby (not junk).....	G-13	G-14	G-15	G-16
B. Electric motors driven by purchased energy.....	H-1	H-2	H-3	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 portable pumps, locomotives, surface drills, trucks, tractors, bulldozers, power shovels, and dragline excavators. Exclude data for locomotives owned by railroad companies.

EXPLANATIONS.—Write here explanations and comments that would aid proper interpretation of your report.

INQUIRY 11.—NUMBER OF MECHANICAL-POWER LOADING MACHINES OR UNITS, BY TYPES.
of January 1, 1940 (exclude junk).

The figures given in this inquiry should represent equipment in use or available for use as of January 1, 1940 (exclude junk).

Type of equipment	Total	Classified by kind of power used					Classified by dipper or bucket capacity in cubic yards			Scraper units classified by rated horsepower			
		Steam J-1	Electricity J-2	Compressed air J-3	All other J-4	J-5	Less than 3 J-6	3-5 inclusive J-7	More than 5 J-8	Less than 10 J-9	10-25 inclusive J-10	25-100 inclusive J-11	More than 100 J-12
A. Surface operation:													
1. Power shovels.....	1				XXXXXXXX					XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
2. Dragline excavators.....	2				XXXXXXXX					XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
3. Scraper loaders.....	3						XXXXXXXX	XXXXXXXX	XXXXXXXX				
4. Clamshells or orange peels.....	4						XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
5. Other types (specify)													
a.										XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
b.										XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
B. Underground:													
1. Shovel loaders													
a. Requiring a minimum working height of more than 6 feet.....	10		XXXXXXXX				XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
b. Requiring a minimum working height of 6 feet or less.....	11		XXXXXXXX				XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
Total underground shovels.....	12		XXXXXXXX				XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
2. Scraper loaders (including slushers).....	13		XXXXXXXX				XXXXXXXX	XXXXXXXX	XXXXXXXX				
3. Other types (specify)													
a.										XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
b.										XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX

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

Number of loaders	Manufacturer	Model number	Number of loaders	Manufacturer	Model number
1.			5.		
2.			6.		
3.			7.		
4.			8.		

(If more space is needed use a separate sheet and attach to schedule.)

CERTIFICATE

THIS IS TO CERTIFY that, to the best of my knowledge and belief, the information contained in this report is correct and complete for the calendar year 1939.

.....
(Signature and official title of person furnishing information)

.....
(Signature of enumerator)

.....
(Address)

GENERAL INSTRUCTIONS

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE FILLING OUT THIS SCHEDULE

I. Disregard "key," "code," and "item" numbers and spaces in the schedule. (These are for Census Office use only.)

II. If you produce more 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 separate 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 crushing. Data relating to these activities should be reported on this schedule despite the fact that they are included with data 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 sched- ule for such plant. It should not be reported on the schedules for the separate quarries or mines served 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 local name of the quarry, mine (or crushing, screening, or washing plant).

Distinguish carefully between A 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 mine as that State, county, city, etc., within which the most important part of the quarry or mine lies.

Inquiry 2.—Quantity and value of products and of work done for others:

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.

Report the net selling value of products at point of production or f.o.b. point of shipment from quarry, mine, or crushing, 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 B 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 the employees of the reporting company. Such 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 before fabrication (estimated, if necessary) of rough blocks quarried in 1939 and used in the production of dressed stone reported under A-2. Semifinished 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 volumetric 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-4-1. 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-h 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 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. 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.

Wage earners.—Report as wage earners under B all 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 paid 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."

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 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 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. 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.—Wage earners employed, by month:

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

Inquiry 6.—Wage earners, 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, screening, or washing plant was active for production or development (including construction) work.

At quarry or mine.—For "Underground," report data relating to wage earners engaged in mining or development work - drilling and blasting, loading, transporting, etc. - whose duties are confined wholly or chiefly to underground operations. For "Openout," report data relating to wage earners engaged in surface quarrying or excavating operations - 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 openout. For "Surface," report data relating to all wage earners at repair shops, hoists, etc., on the surface which chiefly serve underground workings or openout. Do not include wage earners at crushing, screening, or washing plants or at auxiliary shops which chiefly serve such plants.

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

Under A-2 report data for days when the quarry, mine, or crushing, screening, washing, or storage plant was inactive. This should include data for wage earners engaged in maintenance or repair work during all days in the year not included under A-1, including Sundays, holidays, and 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 hour. If the length of one shift is 8 hours, one man-shift represents 8 man-hours. (If 10 men worked 100 eight-hour shifts each, the aggregate number of man-hours worked is $10 \times 100 \times 8$, or 8,000.)

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 part 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 full 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.

Average number of wage earners.—Report the average number of wage earners receiving pay when the quarry, mine, 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, semi-monthly, 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 such periods.

Length of workweek.—Under 4 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 period in the year without attempting 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 the calendar year 1939, which is not necessarily the cost of materials purchased during the calendar 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 any decrease in the inventory of materials on hand on January 1, 1940, as compared with January 1, 1939, or by deducting the increase in such inventory. 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.

Do not include under Inquiry 7 any charges to depreciable capital accounts, such as cost of new equipment, salaries, wages, and miscellaneous expenses; and cost of commodities purchased for resale in same condition.

Electric energy generated at a cement or lime plant and used at a quarry operated in connection therewith should be reported under C-1 of this schedule.

Inquiry 8.—Amount paid for work done during 1939 by contracting corporations:

Report under Inquiry 8 the total amounts paid to contractors for such work as stripping, hauling, boring test holes, tunneling, etc. Do not include any amounts paid in salaries or wages and reported under Inquiry 4.

Under "Nature of contract work" list the major 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 is in material stripped (such as sand and gravel or 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 one year, thus excluding minor additions and replacements.

"Cost" should include the amount paid to and due the seller for the capital addition during the year (excluding amounts paid during 1939 for additions made in preceding years). 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, whether stationary or mobile, and whether or not driving generators, line shafts, or other equipment. Do not include motor-generator sets and rotary converters.

Inquiry 11.—Number of mechanical power loading machines or units, by types:

Report 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 kind or sizes indicated. Account for all units in use or available for use on January 1, 1940. Include emergency or stand-by or idle equipment; exclude only junk. The sum of the numbers of units classified by kind or power used should equal the sum of the numbers of units classified by size of dipper or bucket (or of scraper hoists in the case of scraper loaders) and each of the sums should equal the number indicated under "Total."

Classify Diesel-electric or gasoline-electric power shovels or dragline excavators under "Electricity" for kind of power used. Gasoline power shovels should be classified under "All other."

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 Census Reports Cannot Be Used for Purposes of Taxation, Regulation, or Investigation.

<p>DO NOT FILL IN</p> <p>(Industry number) _____</p> <p>(State and county) _____</p> <p>(Central office number) _____</p> <p>(Schedule number) _____</p> <p>(Type of operation) _____</p>	<p>FORM 100-MQ</p> <p>DEPARTMENT OF COMMERCE</p> <p>BUREAU OF THE CENSUS</p> <p>WASHINGTON</p> <p>CENSUS OF MINES AND QUARRIES: 1939</p> <p>GENERAL SCHEDULE</p> <p>16-349</p> <p>File No. _____</p> <p>_____ (Industry classification)</p>
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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 word "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 a **separate schedule for each mine or quarry**. Additional blanks will be furnished upon request. If you operate a mill or plant serving more 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 separate Mines and Quarries schedule.

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

1. Is the concern operating this establishment incorporated? _____ Key
A-1
(Yes or no)

2. Does this concern operate mines or quarries other than the one covered by this report? _____
(Yes or no)

3. Is this concern a subsidiary or an affiliate of some other concern? _____
(Yes or no)

If so, give name and address of such other concern _____

C. Location of mine or quarry covered by this report:

1. State _____ 2. County _____ 3. City, town, or village (within which or nearest which located) _____ 4. Post office nearest to mine or quarry _____

5. Shipping point _____ Key
A-2

D. Was there any production or development work at this mine or quarry during any part of 1939? _____
(Yes or no)

E. If this report does 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 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) _____

2. Type of mining 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 set-
ting ☐ Sublevel caving ☐ Cut-and-fill stoping ☐ Block caving ☐ Top slicing ☐ Other ☐
(specify) _____

INQUIRY 1.—Continued.

3. Type of milling, concentrating, or other preparation used in connection with mine or quarry _____
4. If this is a separate report for a mill or preparation plant serving more than one mine or quarry, list below names and locations of mines or quarries served:

Name of mine or quarry	State	County	City, town, or village	Name of operator
(a)				
(b)				
(c)				
(d)				

(If more space is needed use a separate sheet and attach here)

INQUIRY 2—QUANTITY AND VALUE OF PRODUCTS AND VALUE OF WORK DONE FOR OTHERS.—Report the quantities of all products produced during 1939, whether *shipped, stocked, or used* by you. For products produced and sold during 1939 report the total net selling value *f. o. b. mine or point of shipment*, exclusive of transportation costs beyond the mine or preparation plant. For crude ore or mineral treated by you, or for products stocked or used by you report carefully estimated mine values. Exclude the cost of containers for product (barrels, bags, etc.). Note special instructions for your industry regarding this inquiry at the end of this schedule.

Product	Item	Crude ore or mineral				Prepared ore or mineral produced by you from crude material mined by you or others (concentrated, washed, ground, or other work treated)			DO NOT FILL IN D1-2 plus D2-4 minus D1-4 D2-5											
		Total mined by you		Treated by you from material mined by you or others		Unit of measure	Quantity	Total value (omit cents)												
		Quantity D1-1	Total value (omit cents) D1-2	Quantity D1-3	Total value (omit cents) D1-4															
A. Kind or grade of mineral produced (specify):																				
1.			\$		\$			\$	\$											
2.			\$		\$			\$	\$											
3.			\$		\$			\$	\$											
4.			\$		\$			\$	\$											
5.			\$		\$			\$	\$											
6.			\$		\$			\$	\$											
7.			\$		\$			\$	\$											
8.			\$		\$			\$	\$											
9.			\$		\$			\$	\$											
Total value.....	1	x x x x	x x x x \$	x x x x	\$	x x x x	x x x x	\$	\$											
B. Other products of this mining or quarrying operation (specify). If reported on a separate schedule, state on which schedule:																				
1.								\$												
2.								\$												
Total value of other products.....	2	x x x x	x x x x x					\$												
C. Electric energy generated at this operation and sold. (Do not include energy reported under Inquiry 7C.).....	3	Kw-hr.						\$												
D. Amount received for work, if any, performed for other establishments, such as hauling, stripping, pumping, shop work, mining, custom milling, etc. (specify):																				
1.						x x x x	x x x x x	\$												
2.						x x x x	x x x x x	\$												
Total amount received.....	4	x x x x	x x x x x					\$												
<table border="1"> <thead> <tr> <th colspan="2">(DO NOT FILL IN)</th> <th>Code</th> <th>Key</th> <th>Key</th> </tr> </thead> <tbody> <tr> <td colspan="2">Grand total value (A+B+C+D).....</td> <td></td> <td>A 3</td> <td>\$</td> <td>A 4</td> </tr> </tbody> </table>										(DO NOT FILL IN)		Code	Key	Key	Grand total value (A+B+C+D).....			A 3	\$	A 4
(DO NOT FILL IN)		Code	Key	Key																
Grand total value (A+B+C+D).....			A 3	\$	A 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 persons under more than one of the headings A, B, and C. Include all persons at the mine or quarry 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 one mine or quarry if it is located at this mine or quarry. Exclude from this report employees for a general office that is located at a distance from the site of mining or quarrying; these employees should be reported on the Central Office Schedule (Form 100-MQ-CO).

Class	Number of persons	Key
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.")		A-5
B. Wage earners (including those paid on time basis and those paid on ton, yard, or other piece-work basis)		
Total employees (A + B)		
C. Proprietors and firm members (not applicable to corporations)		A-6
1. Proprietors and firm members (included in C above) regularly performing manual labor in or about the mine or quarry		A-7

INQUIRY 4—SALARIES AND WAGES.—Report amounts paid *for the entire calendar year 1939* to the same classes of employees as reported under Inquiry 3. Include 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.

Class of employees	Total salaries and wages paid (omit cents)	Key
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.")	\$.....	A-8
B. Wage earners (including those paid on time basis and those paid on ton, yard, or other piece-work basis)	\$.....	A-9
Total salaries and wages paid (A + B)	\$.....	A-10

INQUIRY 5—WAGE EARNERS EMPLOYED, BY MONTHS.—Report the number of wage earners *receiving pay* for any time during the pay-roll period ended nearest the 15th of each month. Figures given in this inquiry should include only the class of employees reported under Inquiry 3B above.

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, quarry, or preparation plant. Exclude salaried officers, supervisory, technical, and clerical employees. Reduce all parts of shifts to equivalent full shifts.)

Department	Item	Total man-shifts worked during year	Length of shift (hours)	Total man-hours worked during year	Number of mine-shifts (or plant-shifts) worked during 1939. (The number in each column should not exceed 365)			Average number of wage earners receiving pay		
					First shift E-3	Second shift E-4	Third shift E-5	First shift E-6	Second shift E-7	Third shift E-8
1. During <i>active</i> days (devoted to production or development work):										
(a) At mine or quarry:										
(1) Underground (mining and development)	1									
(2) Open-cut (mining, quarrying, stripping) and well operations	6									
(3) Surface (including mine shops and yards)	7									
(b) At preparation plant or mill (including auxiliary works for mill or plant)	8									
Total of above	9		x x x		x x x	x x x	x x x			
2. During <i>inactive</i> days (all days in year not included under 1 above) for all departments	0				x x x	x x x	x x x	x x x	x x x	x x x
3. During both <i>active</i> and <i>inactive</i> days (total of 1 and 2 above)	5		x x x		x x x	x x 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
E-12 or man-hours? Key
E-13
(Yes or no) (Yes or no)
- C. Number of days mine or quarry was in operation for production or development purposes during each month (count parts of days as full days):

January..... April..... July..... October.....
February..... May..... August..... November.....
March..... June..... September..... December.....

- D. Report number of hours per wage earner in the full-time workweek (exclusive of overtime):

1. Underground..... 2. Open-cut or wells.....
..... 3. At preparation plant or mill.....

Key	Code	Key
E-14		E-15 A-13
A-14	Code	Key
		A-15

INQUIRY 7—SUPPLIES, MATERIALS, FUELS, AND ELECTRIC ENERGY CONSUMED.—The items entered should represent the quantity and cost of supplies, fuel, and purchased electric energy *actually used* during 1939, for any purpose in connection with the *development, maintenance, or the operation* of the mine or quarry. Include freight and haulage costs. Include the quantity and value of supplies and fuels which were *both produced and consumed* by you.

Item	Unit	Quantity	Total cost (omit cents)
A. Supplies and materials.....			
B. Fuel:	XXXXXXXX	XXXXXXXXXXXX	
1. Coal, bituminous (soft, including lignite).....	Short ton	F-1	\$.....
2. Coal, anthracite (hard).....	Short ton	F-2	\$.....
3. Fuel oils (including heating oils, but not gasoline or lubricants).....	Bbl. (42 gal.)	F-3	\$.....
4. Gasoline and kerosene.....	Gal.	F-4	\$.....
5. Natural gas (used for fuel or power).....	M cu. ft.	F-5	\$.....
6. Other (specify).....			\$.....
Total value of fuels.....	XXXXXXXX	XXXXXXXXXXXX	\$.....
C. Electric energy used:			
1. Generated by your company.....	Kw.-hr.	F-6	XXXXXXXX \$.....
2. Purchased.....	Kw.-hr.	F-7	\$.....

INQUIRY 8—AMOUNT PAID TO CONTRACTING CORPORATIONS FOR WORK DONE DURING 1939.—Include all contract work such as stripping, shaft sinking, well drilling, 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 (omit cents)
A.		\$.....
B.		\$.....
(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 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.

- 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. \$.....
- B. Cost of all *new* machinery and equipment installed in 1939 (include both movable and fixed equipment but exclude any equipment reported under A). \$.....
- C. Cost of all machinery and equipment (movable or fixed) *purchased in a "used" condition* (exclude any used material reported under A). \$.....

Total (A+B+C).....

Key
B-5
B-6
B-7
B-8

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	Stationary				Mobile*			
	Number		Total horsepower rating		Number		Total horsepower rating	
		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		G-7		G-8
Total prime movers (1+2).....		G-9		G-10		G-11		G-12
3. Prime movers, included in 1 and 2, ordinarily idle but held for stand-by (not junk).....		G-13		G-14		G-15		G-16
B. Electric motors driven by purchased energy.....		H-1		H-2		H-3		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 locomotives, surface drills, bulldozers, power shovels, tractors, 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.

Type of equipment	Item	Total J-1	Classified by kind of power used				Classified by dipper or bucket capacity in cubic yards			Scraper hoists classified by rated horsepower			
			Steam J-2	Electric or Diesel-electric J-3	Compressed air J-4	Gasoline or Diesel J-5	Less than 3 J-6	3-5 inclusive J-7	More than 5 J-8	Less than 10 J-9	10-25 inclusive J-10	25-100 inclusive J-11	More than 100 J-12
A. Surface operation:													
1. Power shovels.....	1				x x x					x x x	x x x	x x x	x x x
2. Dragline excavators.....	2				x x x					x x x	x x x	x x x	x x x
3. Scraper loaders.....	3						x x x	x x x	x x x				
4. Clamshell or orange-peel loaders.....	4						x x x	x x x	x x x	x x x	x x x	x x x	x x x
5. Sand, gravel, or matrix pumps.....	5						x x x	x x x	x x x	x x x	x x x	x x x	x x x
6. Other types (specify): (a).....							x x x	x x x	x x x	x x x	x x x	x x x	x x x
(b).....							x x x	x x x	x x x	x x x	x x x	x x x	x x x
B. Underground:													
1. Shovel loaders: (a) Requiring a minimum working height of more than 8 feet.....	10		x x x				x x x	x x x	x x x	x x x	x x x	x x x	x x x
(b) Requiring a minimum working height of 8 feet or less.....	11		x x x				x x x	x x x	x x x	x x x	x x x	x x x	x x x
Total underground shovels.....	12		x x x				x x x	x x x	x x x	x x x	x x x	x x x	x x x
2. Scraper loaders (including slushers).....	13		x x x				x x x	x x x	x x x				
3. Other types (specify): (a).....										x x x	x x x	x x x	x x x
(b).....										x x x	x x x	x x x	x x x

INQUIRY 11.—Continued.

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

Number of loaders	Manufacturer	Model No.	Number of loaders	Manufacturer	Model No.
1.			5.		
2.			6.		
3.			7.		
4.			8.		

(If more space is needed use a separate sheet and attach here)

EXPLANATIONS.—Write here explanations and comments that would aid proper interpretation of your report.

CERTIFICATE

THIS IS TO CERTIFY that, to the best of my knowledge and belief, the information contained in this report is correct and complete for the calendar year 1939.

(Signature and official title of person furnishing information)

(Address)

(Date of signature)

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 sometimes 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 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 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, 1939.

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 ore or mineral" and "Prepared ore or mineral," you should report figures in **all** columns. Under "Total mined by you" report the total quantity and value (estimated, if necessary) of the crude ore 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 shipped 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 prepared material that was recovered from the crude material reported under "Treated by you from material mined by you or others." The 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 follows:

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

Barite: 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 mineral" 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, grahamite, ozokerite, wurtzite (clarite), and other bituminous substances (specifying each kind).

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 Cr_2O_3 .

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 gypsum) mined by you. Do not report anywhere on this schedule data relating to gypsum calcining and the production of gypsum products.

Kyanite, andalusite, and dumortierite: Under "Crude ore or mineral," report crude ores mined. Under "Prepared ore or mineral" 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 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 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 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, MoS_2 , or MoO_3 contained in each.

Peat (check here form in which peat is produced): Raw; shredded; cultivated; kiln-dried Report separately moss peat, reed or sedge peat, peat humus, and other types of raw peat, stating kind. Report raw peat under "Crude ore or mineral," and shredded, cultivated, and kiln-dried peat under "Prepared ore or mineral."

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 "Prepared 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 percent 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, indicate the percent content of TiO_2 .

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 concentrate recovered by you. Indicate the average percent content of WO_3 in concentrate recovered.

Uranium and vanadium (check here principal uranium and vanadium minerals contained in the ore): Carnotite; pitchblende; roscoelite; desclozite; vanadinite; other (specify) Report separately uranium and vanadium ores mined and report the pounds of V_2O_5 and V_2O_6 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, 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, 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 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 bosses, 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 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. 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 earners anywhere in this report. If any convict labor was used, so state under "Explanations."

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 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 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 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**.

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-cut," report data relating to wage earners who were engaged in surface mining or excavating operations, such as drilling and blasting, loading, transporting, hydraulic mining, etc., and in removing overburden, 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, quarries, 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 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 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 $10 \times 100 \times 8$, 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—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 paid by you when the mine, quarry, or preparation plant was in operation for production or development purposes during 1939. If you operated 1 shift per day report the average number of wage earners under the column heading "First shift"; if you worked more than 1 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, semi-monthly, 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. 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 semi-monthly pay-roll periods:

Apr. 1-15	20	July 1-15	41	Oct. 1-15	35
Apr. 16-30	25	July 16-31	38	Oct. 16-31	30
May 1-15	30	Aug. 1-15	40	Nov. 1-15	25
May 16-31	35	Aug. 16-31	39	Nov. 16-30	20
June 1-15	40	Sept. 1-15	39		
June 16-30	40	Sept. 16-30	40		

In this case, add the numbers of wage earners in active pay-roll periods (20, 25, 30, 35, 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 wage earners during 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 earner 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 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 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, hauling, 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 **conduit 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 1 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" which are rated only on the generator, the horsepower rating of the prime mover should be reported as $1\frac{1}{2}$ 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 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. 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 or idle equipment, and include equipment temporarily idle 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 (or of scraper hoists for scraper loaders) and each of the sums should equal the number indicated under "Total."