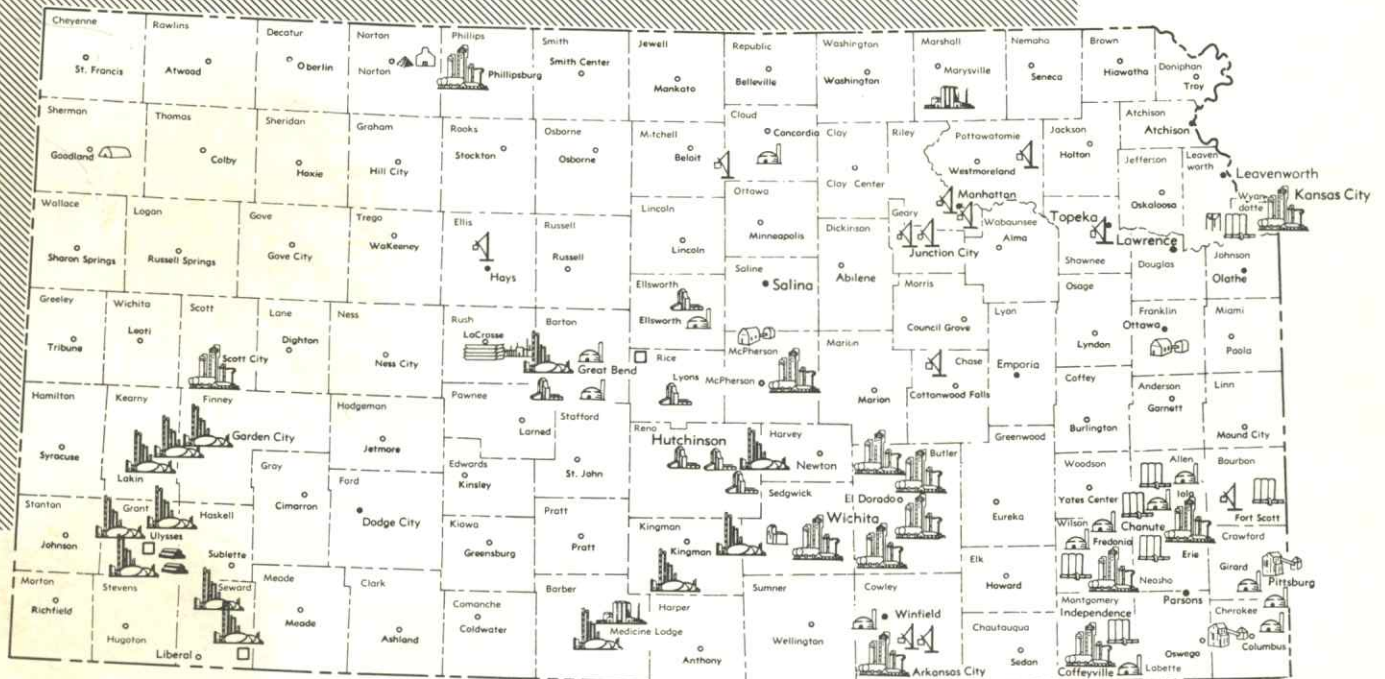




the Kansas Mineral Industry ... 1962

with **Directory of Kansas Mineral Producers**

By

Grace Muilenburg
Ronald G. Hardy
Allison Hornbaker

SPECIAL DISTRIBUTION PUBLICATION 1

State Geological Survey

The University of Kansas, Lawrence, Kansas

Kansas Geological Survey

January 1963

Return in 30 Days

the Kansas Mineral Industry . . . 1962

Part 1 Estimated Values of Mineral Commodities for 1962

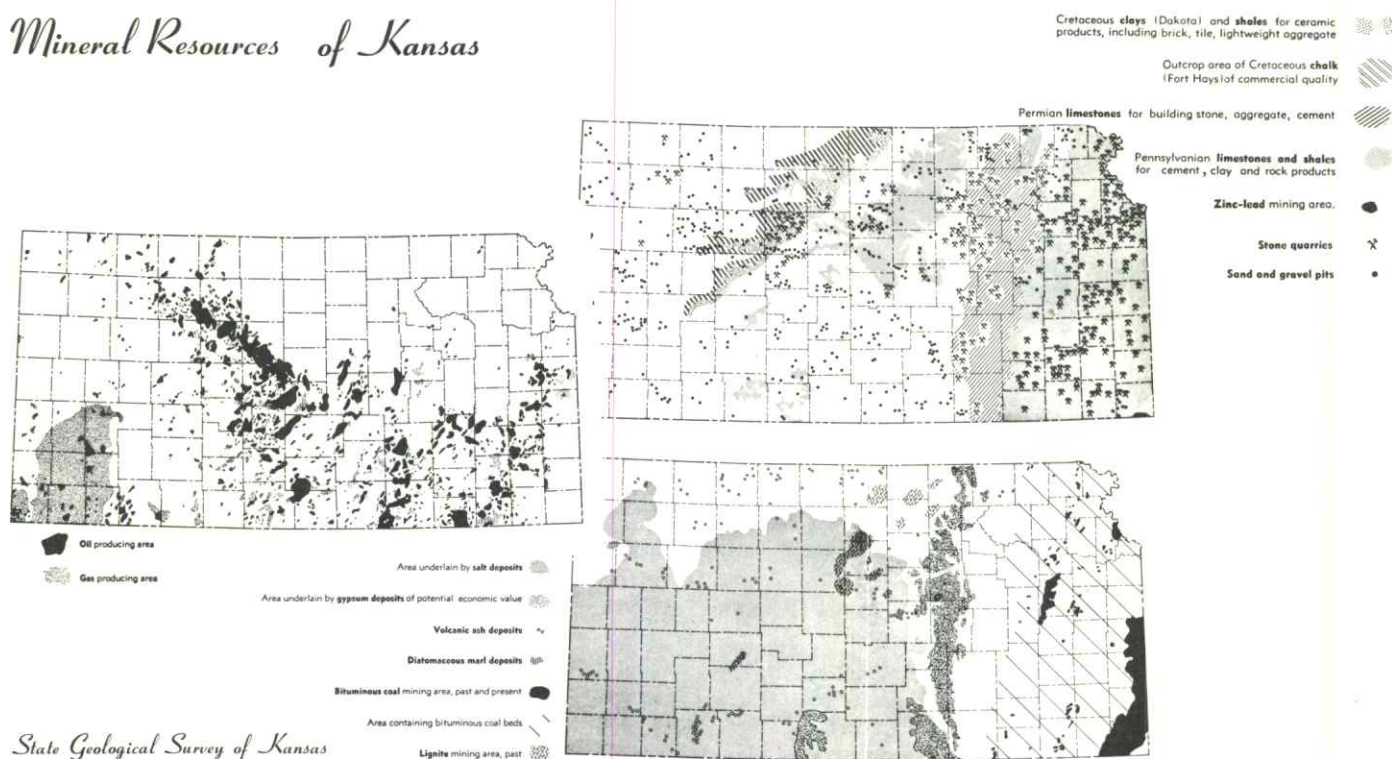
Part 2 Directory of Kansas Mineral Producers . . . 1963

Including

Statistical summary of mineral commodities

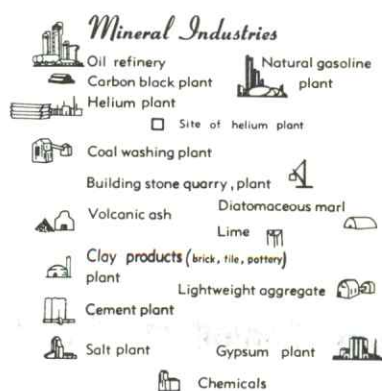
Graphic presentation of production and value

Mineral Resources of Kansas



State Geological Survey of Kansas

Cover



January 1963

State Geological Survey of Kansas
THE UNIVERSITY OF KANSAS
LAWRENCE

FRANK C. FOLEY, State Geologist and Director
WILLIAM W. HAMBLETON, Assoc. State Geologist and Assoc. Director

the Kansas Mineral Industry . . . 1962
Part 1

Mineral Production

Estimated values presented in this newsletter and on the accompanying chart are based mainly on statistical data obtained from Kansas mineral producers and from the Kansas State Corporation Commission, State Mine Inspector, the United States Bureau of Mines, and other sources. Some estimates have been adjusted on the basis of personal visits with producers by Allison Hornbaker, head of the Division of Mineral Resources, and Ronald G. Hardy, also of the Division of Mineral Resources. Mr. Hornbaker, Mr. Hardy, and Edwin D. Goebel, head of the Survey's Oil and Gas Division, prepared the estimates.

Estimated Values of Mineral Commodities for 1962

What do these estimates mean?

What was said for the Kansas mineral industry in 1960 and again in 1961 can be resaid in 1962—mineral production is at a high level, high enough to keep Kansas among the upper 20 percent of the mineral-producing states, but the small gains evident in the minerals categories could point more to annual reprieves from a deteriorating position than to long-range assurances that all is well and that we will continue to gain.

The 1962 Kansas mineral production value of \$521,500,000, estimated by the State Geological Survey of Kansas on the basis of statistical reports from various groups and visits with mineral producers, is an increase of about 1.8 percent over the 1961 value of \$512,322,000, which in turn was an increase of about 1.3 percent over the 1960 value of \$505,500,000. This is a progressive start for the 1960s and would seem to generate confidence. Further, 1962 is the state's third highest year for value of mineral production (1957, credited with a value of \$536,100,000, was the highest), and 1962 is the seventh consecutive year that value of raw mineral products exceeded a half-billion dollars.

Why then be wary about long-range prospects?

Looking back 20 years—21 years of mineral production values are presented graphically on the accompanying chart (page 9)—, annual mineral production value has tripled, or increased about 210 percent from \$168,000,000 in 1942 to an estimated \$521,500,000 in 1962, and the 1962 value is about one-fifteenth of the total \$8,060,700,000 recorded for the 21 years. On the other hand, even though the period 1952-1962 accounted for more than five-eighths of the two-decade total, the increase of the 1952 production value (\$416,000,000) over the 1942 value is more than 147 percent, as contrasted with only about 25.3 percent for 1962 over 1952.

A comparison of recorded annual values for the 1942-1962 period does not tell the complete minerals story, for no adjustment is made for increases resulting from inflation and changes in unit prices and value totals caused by differences in the economy, including such abnormal events as war, drought, and flood. Nonetheless, changes in production values, on a year-to-year basis, are less noticeable during the last six years than during any six years of the two decades.

Each of the major categories of mineral fuels, nonmetallics other than mineral fuels, and metals showed small value gains in 1962 over 1961, as did 1961 over 1960. The unspectacular gains, in spite of only a few offsets in commodity-value losses, fade into a pattern of "business as usual" for the Kansas minerals industry in 1962.

Combined value of the mineral fuels crude oil, natural gas, and liquefied petroleum gases (LPG) advanced from \$416,965,000 in 1960 to \$421,244,000 in 1961 and to an estimated \$423,300,000 in 1962. Including carbon black and helium, the production of which constitutes a segment of the petroleum industry, values in this mineral fuels category added up to \$422,915,000 (1960), \$427,921,000 (1961), and an estimated \$431,300,000 (1962).

Crude oil—responsible more than any mineral resource for Kansas' rank among the top 12 mineral-producing states for 4 1/2 decades and among the top 10 for the last three decades—surprisingly enough made only a slight showing in the production value gains of the mineral fuels category. Crude oil in fact dropped about \$3,000,000 in total value from 1960 to 1961 (final recorded value for 1961 was \$333,266,000), and the estimated value of \$333,300,000 for 1962 means only a minor increase over 1961. Although still accounting for almost 64 percent of the 1962 total of the state's mineral production value, crude oil production has been generally on the decline since peak production in 1957. Considering that Kansas has been an

oil-producing state for three-fourths of a century, that production comes from many small scattered fields and only a few large ones rather than from many large fields, that much easy-to-find oil in heavily explored Kansas regions has been found, lessening the incentive for exploration—considering these facts, along with other economic conditions, such as the shifting of petroleum markets, declines in the industry are understandable. A nonrenewable resource much in demand, crude oil undoubtedly will be produced from Kansas reservoirs for many years.

In another facet of the petroleum industry, natural gas, natural gasoline, and LPG, the trend in production and production value is still upward. These fuels had their best year in history in 1962. Natural gas production, valued at an estimated \$76,000,000 for 1962, was up about 2 percent from the 1961 value of \$74,386,000. Natural gasoline and LPG, at an estimated value of \$14,000,000 for 1962, increased about 3 percent over the 1961 value of \$13,592,000. A large percentage of the gas comes from the Hugoton Gas Area, which after three decades of production is still the world's largest known gas reserve area. Kansas has approximately 15 operating natural gasoline plants and a network of natural gas and natural-gas products lines having both intra- and interstate destinations. It would seem that making these fuel commodities available could be an enticement to additions to Kansas industry.

Production of carbon black and helium, included in the miscellaneous listing in the table on the attached chart, is a significant extension of the petroleum industry. Recovered from natural gas in the Hugoton Gas Area of southwestern Kansas, carbon black was worth \$6,500,000 in 1962, approximately a 4.1 percent increase over the \$6,243,000 credited to 1961. The \$1,500,000 realized from helium shipments (all from Otis) in 1962 brought this Kansas mineral resource into the one-million dollar class for the first time. Soon helium will be extracted from helium-bearing gas in central and southwestern Kansas at four Kansas plants; much of it will be piped to Texas for storage. One helium plant has been operating at Otis, Rush County, since the mid 1940s; one, near Bushton on the Ellsworth County side of the Ellsworth-Rice County line, was completed and put into operation in 1962; and two are under construction in the Hugoton area, one near Ulysses in Grant County and one, to be the world's largest, near Liberal in Seward County. Of strategic importance in the program of the Atomic Energy Commission and increasingly in demand in space-age science, Kansas helium can be expected to feature prominently in the country's well being in the 1960s. (The world's largest natural gasoline plant also was added in 1962; the plant is located in Rice County just south of the Bushton helium operation, with which it is associated.)

Nonmetallics other than petroleum and associated petroleum products have shown modest gains from the beginning year of the 1960s—\$80,600,000 (1960), \$86,220,000 (1961), and \$88,600,000 (1962). Many of the commodities in this broad category have low unit values, so it perhaps is not fair to justify their performance by what they sell for initially, for this tends to minimize their considerable contribution to the state's industrial complex. Many of these nonmetallics, especially construction materials, are consumed locally. Reserves commonly are large enough to be classified as almost unlimited, and profits to the producers depend upon volume produced. In a real sense, the true worth of these materials begins with their utilization. Producers should be cognizant of the fact that within this nonmetallics category there may well be many raw products for which processing may present additional industrial potential.

Be that as it may, increased values for the commodities of the construction industry in 1962 can be verified by increased activity noticed in the construction and building trades in most parts of the state. Even the cement industry, despite a 1.3 percent decrease in production value—from \$26,761,000 in 1961 to an estimated \$26,400,000 in 1962—had some of its best months ever in 1962, according to representatives of the industry. Sand and gravel production (valued at \$7,781,000 in 1961 and at an estimated \$8,700,000 in 1962) and stone production (valued at \$16,411,000 in 1961 and at an estimated \$17,200,000 in 1962) were up about 11.8 percent and 4.8 percent respectively. Large quantities of these low unit value materials were produced and consumed in the metropolitan areas about Kansas City, Wyandotte County; Topeka, Shawnee County; Salina, Saline County; and Great Bend, Barton County. Producers in Lincoln, Sherman, Wallace, Thomas, Finney, and Seward Counties and elsewhere reported increased demands for their products in 1962. In the vicinity of Wichita, Sedgwick County, however, sand and gravel producers felt the effects of an off year (1962) in the construction industry.

The predominant product of the sand-gravel-stone industry is, of course, aggregate, marketed in the form of paving sand and gravel, building sand and gravel, and crushed stone. Much of the aggregate is contracted for specific jobs, as for highways and major public building projects, and the activity of producers is closely related to these construction jobs. Some producers, rather than remain idle between contract jobs or because of slackened construction, have found new uses for their products or have developed specialty products. For example, some of the sand producers in the Wichita area in 1962 began producing sand meeting higher specifications; these sands command higher prices for lesser volumes. Some operators

in the oil-producing areas of central Kansas are selling large quantities of sand for sand fracturing in secondary recovery of oil.

Many of the producers of crushed stone sell, in addition to aggregate, agricultural lime and specialty rock products. With the right economic climate, the market for such products probably could be expanded. Producers of Kansas building stone, now only a small part of the state's stone industry, could profit by a change in attitude of many Kansans who seem to prefer highly advertised out-of-state building stone, commonly more expensive but of no higher quality than Kansas stone.

Clay and clay products, at an estimated \$14,000,000 for 1962, commanded the same value as in 1961. Most producers seem to be confident, however, generally expressing the feeling that structural clay and tile and lightweight concrete aggregate are in line for more of an in-state market than in some recent years. Kansas has extensive deposits of clays and shales known to be suitable for a variety of uses that could develop in a favorable industrial climate. For example, tests in the Geological Survey's ceramics laboratories have shown that many Kansas clays and shales are suitable for heavy ceramic aggregate, and some high-quality central Kansas clays could be produced as refractory clays for use in furnaces and other high-temperature equipment.

Salt, valued at an estimated \$12,000,000 in 1962, was up about 5.2 percent from the \$11,409,000 reported for 1961. The increase was in part because of the use of salt on icy roads in the severe 1962 winter. An important Kansas mineral industry since the discovery of rock salt under central Kansas in the late 1880s, salt production has been fairly steady for a number of years, despite fluctuations interrelated with transportation and competition from out-of-state producers. To rely on past performance and to say that Kansas has enough salt to supply the country's needs, if need be, for several hundred years does not, however, automatically mean that the Kansas salt industry will progress on this momentum. One forward look might be to attract related industries that would locate on Kansas soil to produce Kansas salt for special uses.

The Kansas coal industry, with four decades of general decline behind it, has somehow stayed alive in an increasingly competitive fuels market, and in 1962 claimed a product worth \$3,700,000, about 16.7 percent above the 1961 value, \$3,170,000. Utilization of coal as a stand-by fuel in severe winters and the prospects for greater use of coal as fuel for electric utilities are on the credit side of the future of the coal industry. Kansas now has, on the other hand, few major coal producers, and any long-range planning

surely must be based on coal for other purposes than for fuel. Coal for use in the manufacture of chemicals, for example, has definite promise, and industrial research in this direction is now being intensified.

The Kansas metals industry, still fighting for its life, managed to climb from a value status of \$863,000 in 1961 to \$1,600,000 in 1962, probably because of price supports, which went into effect in 1962 in time to help some of the small producers. Even so, lead slipped from \$300,000 in 1961 to \$200,000 in 1962; zinc increased from \$563,000 in 1961 to \$1,400,000 in 1962. The Kansas metals industry, however, can expect no major recovery in view of present known mineable reserves in the state. The industry's only probable hope for a comeback lies in the discovery of new reserves, which Kansas may or may not have and which can be determined only through complicated exploration techniques involving geophysics and related sciences.

Miscellaneous minerals—gypsum, volcanic ash, natural cement, diatomaceous marl, and salt brine—added an estimated \$6,600,000 to the 1962 Kansas minerals value total. (The \$14,600,000 given in the table on the accompanying chart also includes carbon black and helium, mentioned in the part of this newsletter dealing with the petroleum industry.) Miscellaneous is a misnomer for some of the minerals listed in this category, in particular Kansas gypsum, a superior raw material that is the basis for a long-established multimillion dollar Kansas mineral industry. Listed under miscellaneous because the state currently supports only two gypsum producers, Kansas gypsum deposits have potential for further development. The same can be said to a lesser degree for volcanic ash, of which Kansas was once, from about 1916 to 1944, the leading producer. When utilization of the resource for abrasives and scouring compounds was replaced by other materials, new uses for volcanic ash were not immediately developed. A 1962 Kansas Geological Survey publication, "What's New in Volcanic Ash for Industry?", points out some of the additional possibilities of this material in product development, as the suitability of the ash in "popped" form for filtering. Other "miscellaneous" materials, some currently being produced on a limited scale and some not at all, undoubtedly have industrial possibilities. Also, in line with this thought, as higher-priced minerals diminish or become less accessible, it would seem wise to give more attention generally to what should be the industrial role of the more abundant materials of the nonmetallics category.

In the last analysis, it must be said that the Kansas mineral industry cannot be measured alone on value of raw mineral commodities produced, for once produced and released in the industrial complex, a chain reaction of values develops. We might call it the multiplier effect; for as minerals are used in manufacturing

processes, in the manufacture of products, and in product development, original values increase many times. The Kansas mineral industry in 1962, in its basic or projected form, contributed its share to the Kansas economy. But in analyzing the year's mineral production it would seem that an established pattern prevails. It also seems evident that many new uses for our mineral resources could be developed for a progressive rural-to-urban economy in which industry and agriculture complement, rather than compete with, each other. This is a time for cooperation among community groups interested in community and state welfare, research groups, and industry. One aspect could be revitalization of the mineral industry, lest a pattern of production ease into large-scale diminishing returns.

What can we expect in 1963?

Statement by Dr. Frank C. Foley, Director of the State Geological Survey
at The University of Kansas...

All Kansas residents are involved in and benefit from the Kansas minerals industry in one way or another. Some are engaged in the production or processing of primary mineral commodities, some with manufacture of products from or by the use of raw mineral materials. Many of us operate, daily or intermittently, machines or equipment constructed at least in part of minerals and dependent upon mineral commodities for operating power. All Kansans are certainly users of water—be it for drinking, for irrigating, for running industry or doing the laundry. We are all consumers or users of many products processed by, made with, or manufactured of mineral commodities.

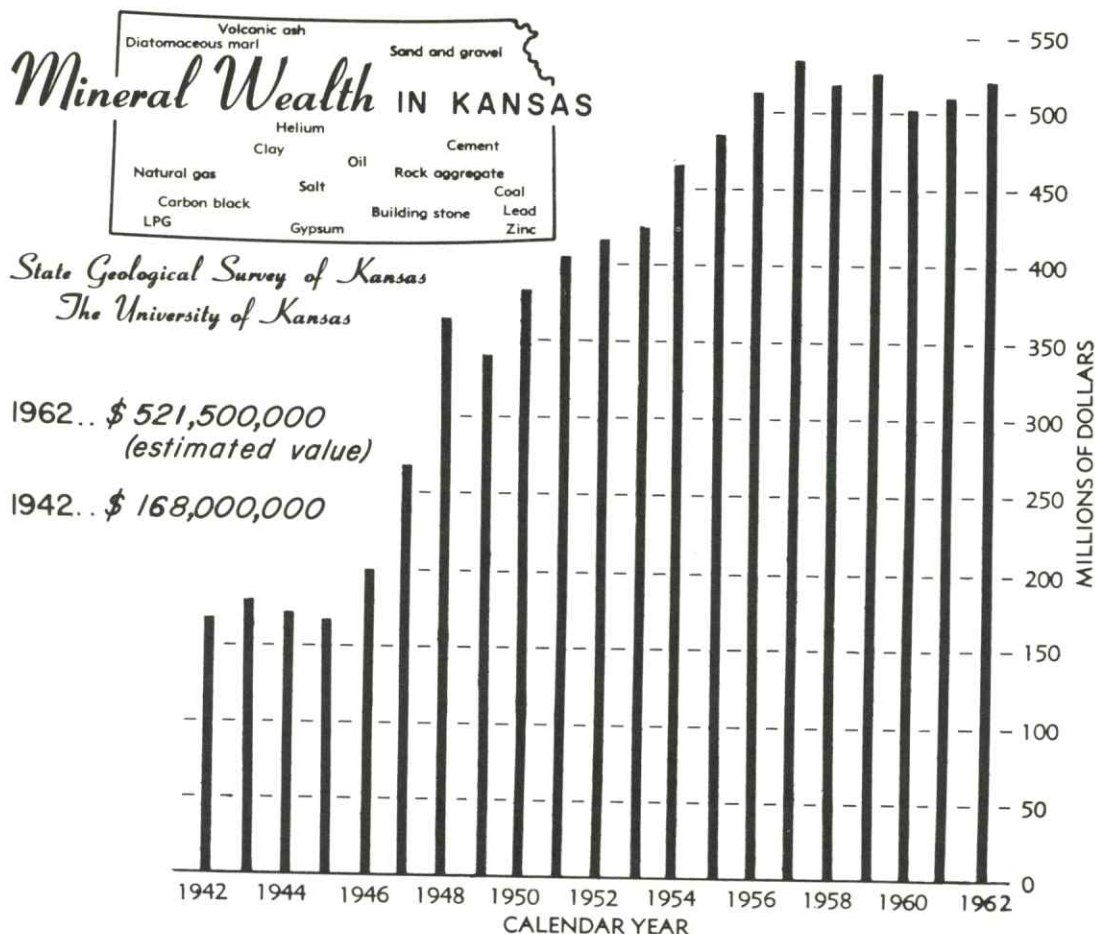
Once a mineral is produced, its value may continue to increase through many manufacturing processes until it is worth many times the initial value. This multiplier effect can transform a raw mineral commodity of low unit value into one of the most valuable of materials in its ultimate form, if there is an ultimate

form. For example, sand, gravel, stone, and cement are essential in modern society—concrete and asphalt highways, buildings of stone and concrete products, dams and other massive public structures that require large amounts of cement and aggregate. Clay and shale may be evident in many places and forms—in buildings of brick or of concrete blocks made of lightweight concrete aggregate, in useful or ornamental pottery pieces, even in certain foods. It is obvious that the establishment of industries that process our mineral raw materials is most worthwhile and must be encouraged. One mineral resource, water—not mentioned in the 1962 mineral value estimates simply because much of it cannot be easily assigned a dollar value—is necessary for industrial development in any community. Agriculture depends on it and municipalities must have adequate water supplies. We require water, in fact, for our very existence.

The State Geological Survey of Kansas is vitally concerned with our mineral resources and how they are used to further the welfare of the state. Our cooperative ground-water program of the United States and State Geological Surveys and the State Boards of Agriculture and Health is committed to obtaining factual data on availability of ground water for agricultural, industrial, and municipal use. The Kansas Water Resources Board is relying on such facts for planning water-resource development, and the Division of Water Resources of the State Board of Agriculture for administration of Kansas water law. Ground-water investigations are in progress or have been made in more than three-fourths of the state's counties.

Our newly organized Mineral Resources Division is busy getting a more precise accounting of our industrial minerals, from the widespread raw materials of the construction industry to some of the more inaccessible and rarer mineral materials, many of which are in demand in modern electronics, chemicals, and space-age industries. Our intention is to make our research on mineral resources as meaningful and as timely as possible, always keeping in mind the need for wise development and use of these resources.

The end-of-the-year mineral production estimates for 1962, just released by the Geological Survey, are important working tools. Such estimates are useful guides in directing our activities and in helping us keep close liaison with our mineral producers.



ESTIMATED VALUE OF

MINERAL PRODUCTION IN KANSAS.....1962

Cement (portland and masonry).....	\$ 26,400,000
Clay and clay products.....	14,000,000
Coal.....	3,700,000
Lead.....	200,000
Natural gas.....	76,000,000
Natural gasoline and LPG.....	14,000,000
Petroleum, crude.....	333,300,000
Salt.....	12,000,000
Sand and gravel.....	8,700,000
Stone (building stone, crushed rock, etc.).....	17,200,000
Zinc.....	1,400,000
Misc. (gypsum, volcanic ash, natural cement, carbon black, helium, diatomaceous marl, etc.).....	14,600,000
	<u>\$ 521,500,000</u>

Each January the State Geological Survey makes mineral-production estimates to cover the year just ended. These estimates are based on figures and trends obtained from producers and other sources: trade journals, State Mine Inspector, State Corporation Commission, and U.S. Bureau of Mines, with which agency the Geological Survey has a cooperative agreement in getting statistical information other than for petroleum, coal, and metals.

the Kansas Mineral Industry... 1962
Part 2

January, 1963

State Geological Survey of Kansas
 THE UNIVERSITY OF KANSAS
 LAWRENCE

FRANK C. FOLEY, State Geologist and Director

WILLIAM W. HAMBLETON, Assoc. State Geologist and Assoc. Director

Directory of Kansas Mineral Producers **1963**

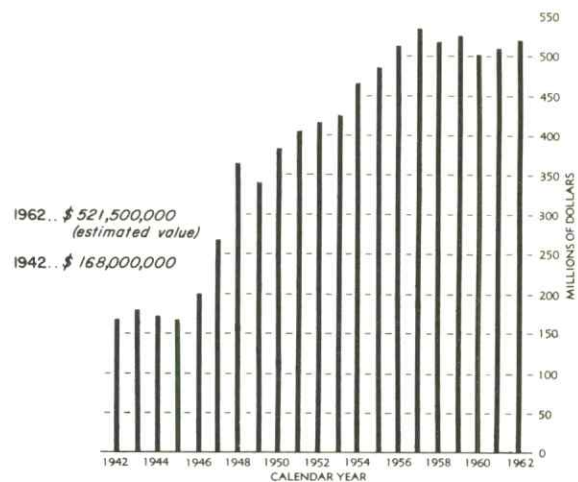
General statement.....	(1)...	g 1
Construction materials	(3)...	cm1-2
Sand and gravel	(5)...	sg 1-17
Stone.....	(23)...	st 1-10
Clay and clay products.....	(33)...	cl 1-2
Cement.....	(35)...	cg 1
Gypsum	(36)...	cg 2
Salt.....	(37)...	sa 1
Coal.....	(39)...	co 1-2
Misc. industrial minerals.....	(41)...	m 1
Volcanic ash.....	(41)...	m 1
Diatomaceous marl.....	(41)...	m 1
Lead and zinc.....	(43)...	lz 1

page section

Including
 Statistical summary of mineral commodities
 Graphic presentation of production and value



SPECIAL DISTRIBUTION PUBLICATION 1



MINERAL PRODUCTION VALUE IN KANSAS,
1942-1962

Purpose . . .

The State Geological Survey at The University of Kansas a year and a half ago organized a Division of Mineral Resources. Guideposts of the Division's activities are the major role of mineral resources in the state's economy and the growing concern of Kansans regarding the state's economic future. One of our directives is the compiling of data on the state's existing and potential mineral resources, supported by the further objectives of preparing commodity reports, initiating or stimulating research where most needed, and keeping close liaison with Kansas mineral industries. Thus we hope to be more aware of problems of mineral production, processing, and marketing, thereby to be as realistic as possible in suggesting additional uses for resources, especially for product development. It should be obvious to all that greater use of Kansas resources in preference to out-of-state materials is a basic step toward strengthening the Kansas economy.

The Division during 1962 made a major start on these objectives. This Directory of Kansas Mineral Producers, supplemented by graphic presentation of some of our mineral production statistics, is one effort on our part to bring our work and the Kansas mineral industry closer together.

DIVISION OF MINERAL RESOURCES

Allison L. Hornbaker, Economic Geologist
and Head of Division
Ronald G. Hardy, Economic Geologist

State Geological Survey of Kansas

THE UNIVERSITY OF KANSAS
LAWRENCE, KANSAS

GENERAL STATEMENT

Each year the State Geological Survey of Kansas receives reports on mineral production from most of the state's 105 counties. According to these reports, more than 100 of the counties contributed to the over-all value of Kansas mineral production in 1961 and in 1962.

In 1961, minerals exceeding \$15,000,000 in value were produced in each of the following counties: Ellis, Barton, Russell, Butler, Stafford, Grant, Graham, Rooks, and Stevens. Estimates of mineral values for 1962 do not indicate any major change in the relative values of mineral production in these counties for 1962.

More than one-half of the state's counties reported mineral wealth of \$1,000,000 or more for each of the years, and in more than one-half of the counties crude oil or natural gas was listed as the leading mineral commodity. For 1961, Wyandotte and Shawnee were the only counties in the million-dollar category that had no oil or gas production; estimates for 1962 point to their retaining this position.

Mineral commodities produced in Kansas in 1961 and 1962 are listed in the table below; quantities and values for 1961 are final figures and for 1962, preliminary figures (estimates). Assuming accuracy of the estimates, the value of total Kansas mineral production in 1962 increased almost 1.8 percent from 1961. A value increase of about 0.8 percent is noted for the commodities of the petroleum industry (including crude oil, natural gas, natural gasoline and liquefied petroleum gases, carbon black, and helium); this compares with a value increase of about 6 percent for the nonmetallics group including cement, clay and clay products, coal, salt, sand and gravel, stone, gypsum, volcanic ash, and diatomaceous marl. The nonmetallics in the petroleum group contributed about 83.53 percent of the total mineral wealth for 1961 and about 82.65 percent of the total for 1962, as compared with about 16.3 percent (1961) and 17 percent (1962) for the nonmetallics not directly allied with the petroleum industry. The metals lead and zinc, despite an 85 percent value increase from 1961 to 1962, accounted for only 0.17 percent of the total mineral wealth in 1961 and only 0.35 percent in 1962.

Mineral production in Kansas... 1961 (final figures) and 1962 (estimates)

Commodity	Unit	1961		1962 (estimated) [†]	
		Quantity	Value	Quantity	Value
Carbon black	Pound	89,936,100	\$ 6,243,000	91,000,000	\$ 6,500,000
Cement	376-lb. bbl.	8,407,000	26,761,000	8,500,000	26,400,000
Clay and shale products	-----	-----	14,000,000	-----	14,000,000
Coal	Short ton	666,800	3,170,000	814,000	3,700,000
Helium--shipments	Cu. ft.	23,251,000	434,000	41,221,600	1,500,000
Lead (recoverable content of ores)	Short ton	1,500	300,000	1,190	200,000
Natural gas	M cu. ft.	676,235,500	74,386,000	688,000,000	76,000,000
Natural gas liquids (butane, natural gasoline, LPG, propane)	Gallon	258,303,600	13,592,000	315,000,000	14,000,000
Petroleum (crude)	42-gal. bbl.	112,210,900	333,266,000	112,229,000	333,300,000
Salt	Short ton	913,000	11,409,000	958,000	12,000,000
Sand and gravel	Short ton	11,366,000	7,781,000	12,500,000	8,700,000
Stone (limestone, sandstone, chat)	Short ton	12,328,000	16,411,000	13,800,000	17,200,000
Zinc (recoverable content of ores)	Short ton	2,500	563,000	6,200	1,400,000
Miscellaneous (diatomaceous marl, gypsum, lime, natural cement, saltbrine, volcanic ash)	-----	-----	6,700,000	-----	6,600,000
Total value			\$512,322,000*		\$521,500,000

*Total adjusted to eliminate duplication in value of raw materials utilized in cement manufacture.

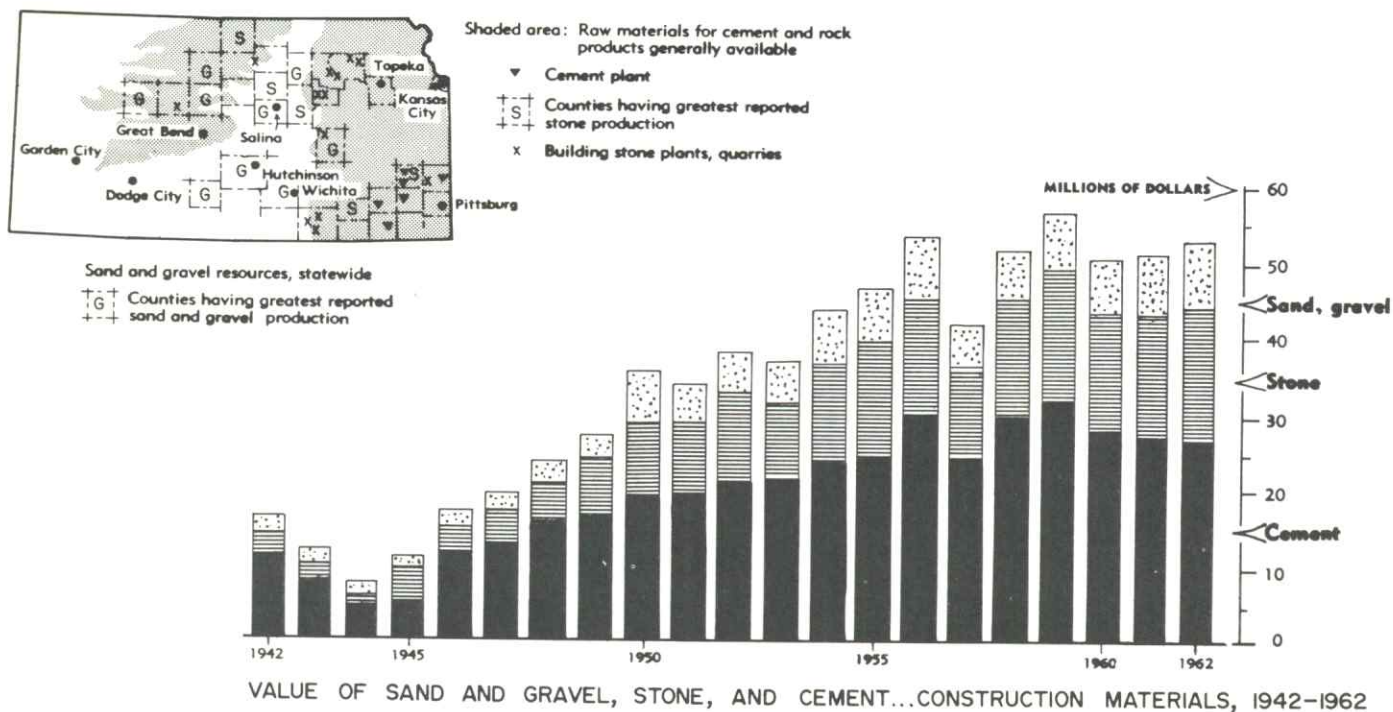
[†]Final figures for 1962 will be available early in the fall of 1963.

Principal sources for listings and statistical data presented in this DIRECTORY...

Kansas mineral producers—by questionnaire, letter,
personal contact
Reports of the United States Bureau of Mines
Publications and files of the State Geological Survey
of Kansas

An up-to-date List of Publications of the State Geological Survey of Kansas is free on request.

Most minerals produced in Kansas belong to the nonmetallics category. These include the liquid and gaseous hydrocarbons and other commodities allied with the petroleum industry, as well as cement, clay and clay products, coal, salt, sand and gravel, stone, gypsum, volcanic ash, and diatomaceous marl. In this DIRECTORY, however, the nonmetallics associated with the petroleum industry are not referred to beyond the GENERAL STATEMENT and table on MINERAL PRODUCTION for 1961 and 1962; nor are the producers listed. For information on this aspect of the mineral industry, consult Kansas Geological Survey Bulletin 160: Oil and Gas Developments in Kansas During 1961 by E. D. Goebel and others.

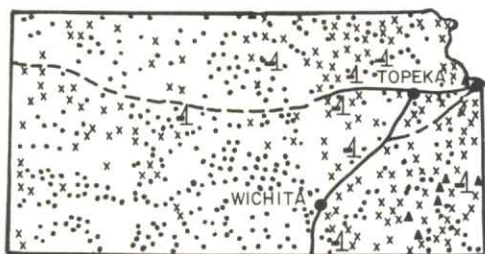


CONSTRUCTION ACTIVITY IN KANSAS

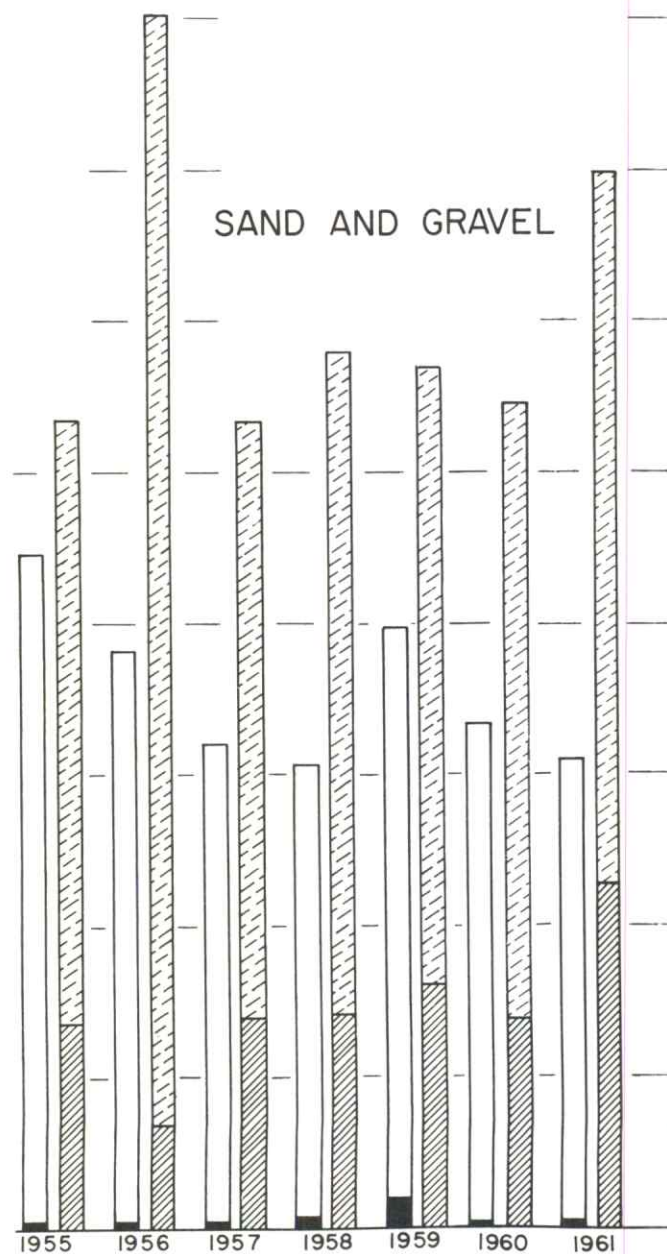
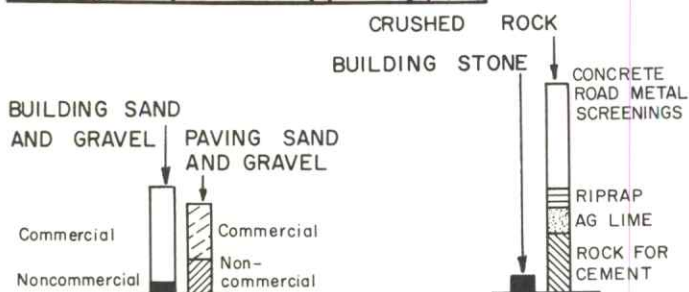
Value of construction contracts in Kansas in 1962 was up from 1961, showing a net gain of approximately 10 percent for total construction; that is, for total public works and utilities plus total building. Contract values for public works and utilities showed a slight decline, about 2.5 percent, but building contract values had a substantial increase, approximately 19 percent.

In the segment of building contracts, residential building contract values increased substantially in certain areas, notably in Wyandotte and Johnson Counties and to a lesser degree in Sedgwick and Shawnee Counties. Nonresidential construction contract values showed only modest gains and some decreases for the principal metropolitan areas.

The close alliance between the quantity of construction in Kansas and a substantial portion of the nonfuel minerals produced has resulted in a general increase in the production of these commodities. Sand and gravel, stone, gypsum, cement, and clay and clay products are among the principal mineral commodities used by the construction industry.



KANSAS CITY
TOPEKA
WICHITA
X- Stone
•- Sand and gravel
▲- Building stone
■- Cement rock



12
MILLIONS
OF
TONS

11

10

9

8

7

6

5

4

3

2

1

MILLIONS
OF
TONS

STONE

1955 1956 1957 1958 1959 1960 1961

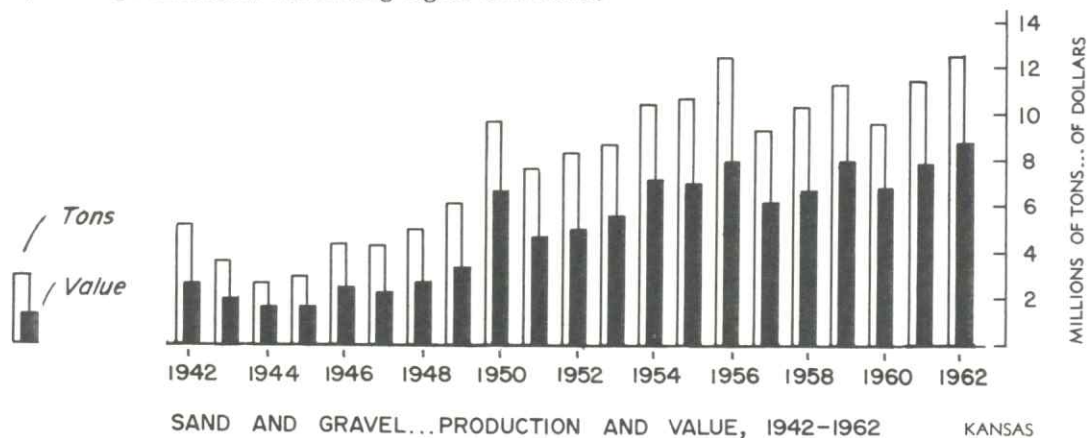
PRODUCTION OF SAND AND GRAVEL...STONE...BY USES, 1955-1961

* MILLIONS OF CUBIC FEET

SAND AND GRAVEL

An estimated total of approximately 12,500,000 short tons of sand and gravel valued at \$8,700,000 was produced in Kansas in 1962, according to the Kansas Geological Survey. The tonnage is approximately 10 percent greater than that for 1961 and the value almost 12 percent greater.

Sand and gravel production is widespread over the state and in tons produced reflects the activity of construction put in place. Thus, sand and gravel produced for paving in 1962 probably did not exceed that produced for this purpose in 1961, as there was no great change of pace in paving projects within the two years. There was, however, a net gain in building sand and gravel produced, because building activity was great enough to cause increased utilization of sand and gravel aggregate in this segment of the construction industry. Some producers in areas of lessened construction activity offset volume losses by production of sand meeting special specifications and having higher unit value.



KANSAS SAND AND GRAVEL PRODUCERS... LISTED ALPHABETICALLY BY NAME OF PRODUCER

<u>Producer</u>	<u>Address*</u>	<u>County in which producing</u>
Allen County Highway Department	Iola	Allen
John J. Alsop Sand Co.	Belleville	Clay, Republic
Sam Alsop Construction Co.	1207 Pinecrest, Garden City	Finney
American Sand and Material Co.	5731 Kansas Avenue, Kansas City	Wyandotte
Anderson County Highway Department	Garnett	Anderson
Anderson-Oxandale	P. O. Box 425, Herington	Dickinson, Nemaha, Pottawatomie
Andrews Sand and Gravel Co.	P. O. Box 314, Arkansas City	Cowley
Arensman Sand and Gravel Co.	Chase	Rice

*Kansas unless otherwise noted.

SAND AND GRAVEL...continued

<u>Producer</u>	<u>Address</u>	<u>County in which producing</u>
Arkansas Sand and Gravel Co.	1423 Second Street, Great Bend	Barton
Atchison, Topeka, and Santa Fe Railroad	919 Railway Exchange, Chicago 4, Illinois	Haskell, Pratt
Atwood Sand and Rock	Atwood	Rawlins
Baker Construction Co.	Holton	Jackson
Barber County Highway Department	Medicine Lodge	Barber
Barnes Sand Co.	R. F. D. 4, Topeka	Shawnee, Wabaunsee
Barton County Highway Department	Great Bend	Barton
Earl Beaver Sand Co.	Glasco	Cloud
Bentley Sand and Gravel Co.	Bentley	Harvey, Sedgwick
Roderic Bently	Shields	Lane
Dan Berghouse	Plains	Meade
G. W. Beydler	Kiowa	Barber
Big Three Sand and Gravel Co.	2010 North Market Street, Wichita	Sedgwick
Ray Bigbee	Grinnell	Gove
Boyd Blair Construction Co.	Quinter	Gove
Blue River Sand and Gravel Co.	P. O. Box 38, Blue Rapids	Marshall
Dave Bollinger	Quinter	Gove
Bowersock Mills and Power Co.	546 Massachusetts, Lawrence	Douglas
Tony Braun	Marienthal	Wichita
Broce and Smith	Dodge City	Barton, Ellsworth
Brown County Highway Department	Hiawatha	Brown
Bryant Sand Co.	Burrton	Harvey
Builders Sand Co.	2602 West Central, Wichita	Sedgwick
Carlisle Sand and Gravel	Liberal	Seward
Carr Rock Products Co.	Arkansas City	Cowley
Central Kansas Sand, Inc.	Mentor	Saline
Chase County Highway Department	Cottonwood Falls	Chase
Cherokee County Highway Department	Columbus	Cherokee
Cheyenne County Highway Department	St. Francis	Cheyenne

SAND AND GRAVEL, ...continued

<u>Producer</u>	<u>Address</u>	<u>County in which producing</u>
Clark County Highway Department	Ashland	Clark
Clay Center Concrete Co.	Clay Center	Clay
Howard Clevenger	R. F. D., Leoti	Wichita
Cloud County Commissioner	6500 West 21st Street, Wichita	Sedgwick
Coffey County Highway Department	Burlington	Coffey
Comanche County Road Department	Coldwater	Comanche
Consumers Sand Co.	Railroad and N. Lincoln Street, Topeka	Osage, Shawnee
Bob Cook Construction Co.	Goodland	Sherman
Cowley County Highway Department	Winfield	Cowley
Crawford County Highway Department	Girard	Crawford
Davis Sand Co.	Route 1, Dodge City	Ford, Haskell
Decatur County Highway Department	Oberlin	Decatur
James Dirks Sand and Gravel	Pawnee Rock	Barton
Dodge City Sand Co.	P. O. Box 430, Dodge City	Ford
Dolese Brothers Co.	13 N. W. 13th Street, Oklahoma City, Oklahoma	Sedgwick
Doniphan County Highway Department	Troy	Doniphan
DuBois Stone and Sand Co.	P. O. Box 872, Great Bend	Barton
Eagle-Picher Co.	P. O. Box 910, Miami, Oklahoma	Cherokee
Elk County Highway Department	Howard	Elk
Ellsworth County Highway Department	Ellsworth	Ellsworth
Elof Erickson	Rexford	Rawlins
Finlayson Gravel	Barnes	Washington
Finney County Road Department	Garden City	Finney
S. A. Fones, Inc.	P. O. Box 147, Baxter Springs	Cherokee
Ford County Highway Department	Dodge City	Ford
Fountain Sand Pit	Arlington	Reno
Fyfe Sand and Gravel Co.	Concordia	Clay, Cloud
Gable Redi-Mix and Sand Co.	Hill City	Graham, Sheridan
C. V. Garrett	Blue Rapids	Marshall

SAND AND GRAVEL,...continued

<u>Producer</u>	<u>Address</u>	<u>County in which producing</u>
Burl Gaunt	Medicine Lodge	Barber
Glass Sand Co.	8700 S. Hydraulic, Wichita	Sedgwick
Globe Construction Co.	1041 North Water, Wichita	Sedgwick
Gove County Highway Department	Gove	Gove
Grant County Highway Department	Ulysses	Grant
Gray County Highway Department	Cimarron	Gray
D. G. Hansen	Logan	Decatur, Logan, Phillips
Walter Hoffman	Kanopolis	Ellsworth
Mrs. C. D. Hogard	507 South Mound Street, Pratt	Pratt
Holliday Sand and Gravel Co.	P. O. Box 276, Bonner Springs	Douglas, Johnson, Wyandotte
Hoskinson Sand and Gravel Co.	Burrton	Harvey
Hunter Ready Mix Co., Inc.	Hays	Ellis
Hutchinson City Manager	Hutchinson	Reno
Hy-Grade Construction Materials Co.	St. Paul	Neosho
J and H Sand Co.	6700 South Hydraulic, Wichita	Sedgwick
Johnson Sand and Gravel Co.	P. O. Box 545, Larned	Pawnee
Junction City Sand and Gravel Co.	Route 3, Junction City	Geary
Charles Kaminsky	Medicine Lodge	Barber
Kansas Sand Co., Inc.	531 North Tyler, Topeka	Shawnee
Kaw Valley Sand Co.	38th and Kansas, Kansas City	Wyandotte
Kearny County Highway Department	Lakin	Kearny
Harry Keith Construction Co.	1607 West 7th, Coffeyville	Labette
Walter Keeler Co.	Box 1972, 1101 S. Mosley Avenue, Wichita 1	Sedgwick
Kerr Sand Co.	Cimarron	Gray
Kingman County Road Department	Kingman	Kingman
Kinsley Sand and Gravel Co.	Kinsley	Edwards
Kiowa County Highway Department	Greensburg	Kiowa
Klepper Sand Co.	Claflin	Barton
Koppes Brothers	Marysville	Marshall
Larned Sand and Gravel Co.	P. O. Box 227, R. F. D. 2, Larned	Pawnee

SAND AND GRAVEL...continued

<u>Producer</u>	<u>Address</u>	<u>County in which producing</u>
Leavenworth County Highway Department	Leavenworth	Leavenworth
Linn County Highway Department	Mound City	Linn
Logan County Highway Department	Russell Springs	Logan
Jim Marcy Sand and Gravel	Vermillion	Nemaha
Marshall County Highway Department	Marysville	Marshall
William Martin	Tribune	Greeley
McFarland Gravel Co.	730 N. D Street, Arkansas City	Cowley
Malcolm McFee	Atwood	Rawlins
McKinster and Gore Sand Co.	537 West McArthur, Wichita	Sedgwick
McPherson County Road Department	McPherson	McPherson
Meade County Highway Department	Meade	Meade
Metcalf Fill Dirt and Gravel	Route 3, Box 241, Dunlap	Morris
Miles Sand, Inc.	4857 North Meridian, Wichita 4	Sedgwick
Jake Miller	Atwood	Rawlins
Miller Sand and Gravel Co.	Route 1, Dodge City	Ford
Miller Sand and Gravel Co.	Route 2, Pratt	Pratt
Missouri-Kansas Development Co.	P. O. Box 784, Joplin, Missouri	Cherokee
Missouri Valley Sand Co.	P. O. Box 89, Leavenworth	Leavenworth
Montgomery County Highway Department	Independence	Montgomery
More Sand Co.	626 West 6th Street, Junction City	Geary
Morris County Highway Department	Council Grove	Morris
Morton Sand and Gravel	Oberlin	Decatur
Mueller Brothers Sand and Gravel	P. O. Box 57, Hanover	Washington
Mulvane Sand Co., Inc.	503 East Mulvane, Mulvane	Sumner
Dale Murphy	Goodland	Sherman
George M. Myers, Inc. Myers Materials Co.	P. O. Box 911, El Dorado	Cowley
Nemaha County Highway Department	Seneca	Nemaha
New Era Sand and Gravel Co.	St. Francis	Cheyenne
North Plains Concrete Co.	Perryton, Texas	Meade

SAND AND GRAVEL... continued

<u>Producer</u>	<u>Address</u>	<u>County in which producing</u>
North County Highway Department	Norton	Norton
Lee Oldham	Leoti	Wichita
Osage County Highway Department	Lyndon	Osage
Osborne County Highway Department	Osborne	Osborne
Oxford Sand and Gravel Co.	P. O. Box 266, Oxford	Cowley, Sumner
Wesley Parks	648 Oak Street, Emporia	Lyon
Partin Sand and Gravel Co.	P. O. Box 274, Stafford	Stafford
Ted Passmore	Elmdale	Chase
Pawnee County Sand and Gravel	Larned	Pawnee
Peck-Woolf Sand Co.	1920 Paseo Boulevard, Kansas City 8, Missouri	Wyandotte
Phillips County Highway Department	Phillipsburg	Phillips
Pioneer Sand Co.	202 West Francis, St. Joseph, Mo.	Wyandotte
Popejoy Sand and Gravel	Ulysses	Sherman, Kearny
Pottawatomie County Highway Department	Westmoreland	Pottawatomie
Prairie States Construction Co.	1000 Kiewilt Plaza, Omaha 31, Neb.	Harper
Pratt County Sand Pit	R. F. D. 2, Pratt	Pratt
Provence Sand Co.	Route 1, P. O. Box 988, Wichita	Sedgwick
Purma Drag Line Co.	975 Second Street, Colby	Thomas
Rawlins County Highway Department	Atwood	Rawlins
Reece Construction Co.	Scandia	Republic, Trego
Reed and Stinemetz	East Fulton Street, Garden City	Finney
Ebb Rees	1228 Homer Street, Kansas City	Wyandotte
Reed Sand and Gravel	1321 High Street, Wichita	Sedgwick
Reno Construction Co.	Overland Park	Montgomery
Reno County Sand and Gravel	Hutchinson	Reno
Republic County Highway Department	Belleville	Republic
Willis Rermer	Selkirk	Wichita
Walt Rhodes	Goodland	Sherman
Rice County Highway Department	Lyons	Rice

SAND AND GRAVEL... continued

<u>Producer</u>	<u>Address</u>	<u>County in which producing</u>
Riddle Quarries, Inc.	P. O. Box 1268, Salina	Dickinson
Ritchie Brothers Construction Co.	P. O. Box 2178, Wichita 1	Sedgwick
River Sand Co.	P. O. Box 233, Topeka	Shawnee
Dale Roberts	Gove	Gove
Rockhill Sand and Gravel Co.	2361 East McArthur, Wichita	Sedgwick
Justin Rottinghaus	Baileyville	Nemaha
Ralph Rotz	Hiawatha	Nemaha
Rush County Highway Department	La Crosse	Rush
Russell County Highway Department	Russell	Russell
Salina Sand Co.	Salina	Saline
San Ore Construction Co., Inc.	P. O. Box 417, McPherson	Gove, Graham, Harper, Meade, McPherson, Osborne, Thomas
Lewis C. Schmidberger	P. O. Box 93, Victoria	Ellis
Schrader Brothers	Rush Center	Rush
Seacat Sand and Excavation Department	Greensburg	Sedgwick
Sedgwick County Highway Department	P. O. Box 2483, Wichita 12	Sedgwick
Ralph Seidel	R. F. D. 1, Pratt	Pratt
Seward County Highway Department	Liberal	Seward
Shawnee County Highway Department	Courthouse, Topeka	Shawnee
J. H. Shears Sons, Inc.	P. O. Box 227, Hutchinson	Reno, Stafford
Sheridan County Highway Department	Hoxie	Sheridan
Sherman County Highway Department	P. O. Box 22, Goodland	Sherman
Shoffner Sand and Gravel Co.	134 East Jewell, Salina	Dickinson, Ellsworth, Geary, Reno, Saline, Shawnee
Showalter Sand and Gravel	Garfield	Edwards
Siebert Sand Co.	P. O. Box 302, Ness City	Lane, Logan, Ness, Sherman, Thomas, Trego, Wallace
Albert Smith	WaKeeney	Trego
Smith County Highway Department	Smith Center	Smith
Smith Sand Co., Inc.	P. O. Box 391, 1206 East Fulton, Garden City	Finney
Ray Snavelly	Woodston	Rooks

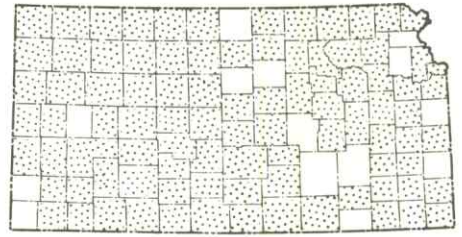
SAND AND GRAVEL...continued

<u>Producer</u>	<u>Address</u>	<u>County in which producing</u>
South End Sand and Gravel	4700 South Washington, Wichita	Sedgwick
Southwest Sand and Gravel Co.	4605 SW Boulevard, Wichita 15	Sedgwick
Stafford County Highway Department	St. John	Stafford
Raymond Stanton	Ransom	Trego
Staley Construction	Russell	Russell
State Highway Commission	Topeka (Local: Russell Springs, Atwood, Sharon Springs)	Logan, Rawlins, Wallace
J. E. Steele Sand Co.	R. F. D. 4, Hutchinson	Reno
Stevens County Engineer	Hugoton	Stevens
Stewart Sand and Material Co.	4049 Pennsylvania, Kansas City 8	Wyandotte
Stoppel Construction Co.	Wilson	Ellsworth
Sumner County Highway Department	Wellington	Sumner
Superior Sand Co., Inc.	6500 West 21st Street, Route 7, Wichita 3	Sedgwick
Superior Sand and Gravel Co.	P. O. Box 145, Muncie	Wyandotte
Syracuse Sand and Ready Mix	107 North Elizabeth, Syracuse	Hamilton
Thach Sand Pit	Route 1, Burrton	Harvey
Thomas County Road Department	Colby	Thomas
A. Tobias, Wright, and Birchenough	P. O. Box 470, Lyons	Rice
Topeka Sand Co.	Route 4, Topeka	Shawnee
Trego County Highway Department	WaKeeney	Trego
Steve Truhlar	1213 Spring, Ellsworth	Ellsworth
Uhlig and Reise	Seneca	Nemaha
Vic's Sand and Gravel Co.	6600 West 21st Street, Wichita	Sedgwick
Victory Sand and Stone Co.	P. O. Box 281, Foot of Waite, Topeka	Shawnee
Hugo P. Vogler	Waterville	Marshall
Wabaunsee County Highway Department	Alma	Wabaunsee
Wallace County Highway Department	Sharon Springs	Wallace
Walters Sand Co.	P. O. Box 949, Manhattan	Riley
Wamego Sand Co.	P. O. Box 164, Wamego	Pottawatomie, Wabaunsee

SAND AND GRAVEL, . . . continued

<u>Producer</u>	<u>Address</u>	<u>County in which producing</u>
Robert Washburn	Winona	Logan
Washington County Highway Department	Washington	Washington
Harry Waterman	R. F. D. 1, Emporia	Lyons
Ray Wells	Route 1, Kingman	Kingman
Marvin J. Werth Sand Co.	Schoenchen	Ellis
White Brothers Construction Co.	Kanopolis	Ellsworth
White Brothers	Westmoreland	Pottawatomie
Lawrence Whitfield Sand Co.	Medicine Lodge	Barber, Pratt
Wichita Big River Sand Co.	Leoti	Sedgwick
Mrs. W. E. Willis	Leoti	Wichita
Wilson Brothers	P. O. Box 59, Route 3, Arkansas City	Cowley
Wilson County Highway Department	Fredonia	Wilson
Woodson County Highway Department	Yates Center	Woodson
York Sand Co.	P. O. Box 306, Sedgwick	Sedgwick

KANSAS SAND AND GRAVEL PRODUCERS... LISTED BY COUNTY
(Address of producers in Kansas unless otherwise noted.)



Allen

Allen County Highway Department, Iola

Anderson

Anderson County Highway Department, Garnett

Barber

Barber County Highway Department, Medicine Lodge

G. W. Beydler, Kiowa

Burl Gaunt, Medicine Lodge

Charles Kaminsky, Medicine Lodge

Lawrence Whitfield, Medicine Lodge

Barton

Arkansas Sand and Gravel Co., 1423 Second Street,
Great Bend

Barton County Highway Department, Great Bend

Broce and Smith, Larned

James Dirks Sand and Gravel, Pawnee Rock

DuBois Stone and Sand Co., P. O. Box 872,
South Washington Street, Great Bend

Klepper Sand Co., Claflin

Brown

Brown County Highway Department, Hiawatha

Chase

Chase County Highway Department, Cottonwood Falls

Ted Passmore, Elmdale

Cherokee

Cherokee County Highway Department, Columbus

Eagle-Picher Company, P. O. Box 910,
Miami, Oklahoma

S. A. Fones, Inc., P. O. Box 147, Baxter Springs

Missouri-Kansas Development Co., P. O. Box 784,
Joplin, Missouri

Cheyenne

Cheyenne County Highway Department, St. Francis

New Era Sand and Gravel Co., St. Francis

Clark

Clark County Highway Department, Ashland

Clay

John H. Alsop Sand Co., Belleville

Clay Center Concrete Co., Clay Center

Fyfe Sand and Gravel Co., Concordia

Cloud

Earl Beaver Sand Co., Glasco

Cloud County Highway Department, Concordia

Fyfe Sand and Gravel Co., Concordia

Coffey

Coffey County Highway Department, Burlington

Comanche

Comanche County Highway Department, Coldwater

Cowley

Andrews Sand and Gravel Co., P. O. Box 314,
Arkansas City

Carr Rock Products Co., Arkansas City

Cowley County Highway Department, Winfield

McFarland Gravel Co., 730 N. D Street, Arkansas City

George M. Myers, Inc., Myers Materials Co.,
P. O. Box 911, El Dorado

Oxford Sand and Gravel Co., P. O. Box 266, Oxford

Wilson Brothers, P. O. Box 59, Route 3,
Arkansas City

Crawford

Crawford County Highway Department, Girard

Decatur

Decatur County Highway Department, Oberlin

D. G. Hansen, Logan

Morton Sand and Gravel Co., Oberlin

Dickinson

Anderson-Oxandale, P. O. Box 425, Herington

Riddle Quarries, Inc., P. O. Box 1268, Salina

Shoffner Sand and Gravel Co., 134 East Jewell Street,
Salina

Doniphan

Doniphan County Highway Department, Troy

Jim Herring, Wathena

Douglas

Bowersock Mills and Power Co.,
546 Massachusetts Street, Lawrence

Holliday Sand and Gravel Co., P. O. Box 276,
Bonner Springs

Edwards

Kinsley Sand and Gravel Co., Kinsley

Showalter Sand and Gravel Co., Garfield

Elk

Elk County Highway Department, Howard

Ellis

Hunter Ready-Mix Co., Inc., Hays

Lewis C. Schmidtberger, P. O. Box 93, Victoria

Marvin J. Werth Sand Co., Schoenchen

Ellsworth

Broce and Smith, P. O. Box 711, Larned

Ellsworth County Highway Department, Ellsworth

Harry Henery, Inc., P. O. Box 229, Herington

Walter Hoffman, Kanopolis

Shoffner Sand and Gravel Co., 134 East Jewell, Salina

Stoppel Construction Co., Wilson

Steve Truhlar, 1213 Spring, Ellsworth

White Brothers Construction Co., Kanopolis

Finney

Sam Alsop Construction Co., 1207 Pinecrest,
Garden City

Finney County Road Department, Garden City

Reed and Stinemetz, East Fulton Street, Garden City

Smith Sand Co., Inc., P. O. Box 391,
1206 East Fulton, Garden City

Ford

Davis Sand Co., Route 1, Dodge City

Dodge City Sand Co., P. O. Box 430, Dodge City

SAND AND GRAVEL...continued

Ford, continued

Ford County Engineer, Dodge City

Miller Sand and Gravel Co., Route 1, Dodge City

Franklin

Harry Henery, Inc., P. O. Box 229, Herington

Geary

Junction City Sand and Gravel Co., Route 3,
Junction City

More Sand Co., 626 West 6th Street, Junction City

Shoffner Sand and Gravel Co., 134 East Jewell, Salina

Gove

Boyd Blair Construction Co., Quinter

Dave Bollinger, Quinter

Gove County Highway Department, Gove

Dale Roberts, Gove

San Ore Construction Co., Inc., P. O. Box 417,
McPherson

Graham

Gable Redi-Mix, Hill City

San Ore Construction Co., Inc., P. O. Box 417,
McPherson

Grant

Grant County Highway Department, Ulysses

Gray

Gray County Road Department, Cimarron

Kerr Sand Co., Cimarron

Greeley

Greeley County Highway Department, Tribune

William Martin, Tribune

Hamilton

Hamilton County Highway Department, Syracuse

Syracuse Sand and Ready Mix, 107 North Elizabeth,
Syracuse

Harper

Harper County Highway Department, Anthony

Hi-Grade Sand Co., Harper

Prairie States Construction Co., 1000 Kiewilt Plaza,
Omaha 31, Nebraska

San Ore Construction Co., Inc., P. O. Box 417,
McPherson

Harvey

Bentley Sand and Gravel, Bentley

Bryant Sand Co., Burrton

Hoskinson Sand and Gravel Co., Burrton

Thach Sand Pit, Route 1, Burrton

Haskell

Atchison, Topeka, and Santa Fe Railroad,
919 Railway Exchange, Chicago 4, Illinois

Davis Sand Co., Sublette

Haskell County Highway Department, Sublette

Hodgeman

Hodgeman County Highway Department, Jetmore

Jackson

Baker Construction Co., Holton

Johnson

Builders Sand Co., P. O. Box 658,
Argentine Station, Kansas City

Holliday Sand and Gravel Co., 729 Railway Exchange Bldg.,
Kansas City 6, Missouri

SAND AND GRAVEL, ...continued

Kearny

Kearny County Highway Department, Lakin

Popejoy Sand and Gravel Co., Ulysses

Kingman

Kingman County Road Department, Kingman

Ray Wells, Route 1, Kingman

Kiowa

Kiowa County Highway Department, Greensburg

Seacat Sand and Excavation Co., Greensburg

Labette

Harry Keith Construction Co., 1602 West 7th Street,
Coffeyville

Lane

Roderic Bentley, Shields

Siebert Sand Co., P. O. Box 203, Ness City

Leavenworth

Leavenworth County Highway Department, Leavenworth

Missouri Valley Sand, P. O. Box 89, Leavenworth

Linn

Linn County Highway Department, Mound City

Logan

D. G. Hansen, Logan

Logan County Highway Department, Russell Springs

Siebert Sand Co., P. O. Box 302, Ness City

State Highway Commission, Russell Springs

Robert Washburn, Winona

Lyon

Wesley Parks, 648 Oak Street, Emporia

Harry Waterman, R. F. D. 1, Emporia

Marshall

Blue River Sand and Gravel Co., P. O. Box 38,
Blue Rapids

C. V. Garrett, Blue Rapids

Hall Brothers, Marysville

Heinzelman Construction Co., 506 South 10th Street,
Marysville

Koppes Brothers, Marysville

Marshall County Highway Department, Marysville

Hugo P. Vogler, Waterville

McPherson

McPherson County Road Department, McPherson

San Ore Construction Co., Inc., P. O. Box 417,
McPherson

Meade

Dan Berghouse, Plains

Broce Construction Co., Dodge City

Harry Henery, Inc., P. O. Box 229, Herington

Meade County Highway Department, Meade

North Plains Concrete Co., Perryton, Texas

San Ore Construction Co., Inc., P. O. Box 417,
McPherson

Mitchell

Ralph Haigh, Beloit

Ed Hartman, Beloit

Harry Henery, Inc., P. O. Box 229, Herington

Montgomery

Montgomery County Highway Department, Independence

Reno Construction Co., Overland Park

Morris

Metcalf Fill Dirt and Gravel, Route 3, Dunlap

Morris County Highway Department, Council Grove

Nemaha

Anderson-Oxandale, P. O. Box 425, Herington

Jim Marcy Sand and Gravel, Vermillion

Nemaha County Highway Department, Seneca

Justin Rottinghaus, Baileyville

Ralph Rotz, Hiawatha

Uhlig and Reese, Seneca

Neosho

Hy-Grade Construction Materials, St. Paul

Ness

Siebert Sand and Gravel, P. O. Box 302, Ness City

Norton

Norton County Highway Department, Norton

Osage

Consumers Sand Co., Railroad and North Lincoln,
Topeka

Osage County Highway Department, Lyndon

Osborne

Osborne County Highway Department, Osborne

San Ore Construction Co., Inc., P. O. Box 417,
McPherson

Pawnee

Harry Henery, Inc., P. O. Box 229, Herington

Johnson Sand and Gravel Co., P. O. Box 545, Larned

Larned Sand and Gravel Co., P. O. Box 227,
R.F.D. 2, Larned

Pawnee County Highway Department, Larned

Phillips

D. G. Hansen, Logan

Phillips County Highway Department, Phillipsburg

Pottawatomie

Anderson-Oxandale, P. O. Box 425, Herington

Pottawatomie County Highway Department,
Westmoreland

Wamego Sand Co., P. O. Box 164, Wamego

White Brothers, Westmoreland

Pratt

Atchison, Topeka, and Santa Fe Railroad,
919 Railway Exchange Building, Chicago 4, Illinois

Mrs. C. D. Hogard, 507 South Mound Street, Pratt

Miller Sand and Gravel, Route 2, Pratt

Pratt County Highway Department, R.F.D. 2, Pratt

Ralph Seidel, R.F.D. 1, Pratt

Whitfield Sand Co., Medicine Lodge

Rawlins

Atwood Sand and Rock, Atwood

Elof Erickson, Rexford

Malcolm McFee, Atwood

Jake Miller, Atwood

Rawlins County Highway Department, Atwood

State Highway Department, Atwood

SAND AND GRAVEL....continued

Reno

Fountain Sand Pit, Arlington
Haven Sand Co., Haven
Hutchinson City Manager, Hutchinson
Reno County Sand and Gravel, Hutchinson
J. H. Shears and Sons, P. O. Box 227, Hutchinson
Shoffner Sand and Gravel, Hutchinson
J. E. Steele Sand Co., R.F.D. 4, Hutchinson

Republic

Alsop Sand Co., Wakefield
Reece Construction Co., Scandia
Republic County Highway Department, Belleville

Rice

Arensman Sand and Gravel Co., Chase
Rice County Highway Department, Lyons
A. Tobias, Wright, and Birchenough
P. O. Box 470, Lyons

Riley

Walters Sand Co., P. O. Box 949, Manhattan

Rooks

Ray Snavelly, Woodston

Rush

Rush County Highway Department, La Crosse
Schrader Brothers, Rush Center

Russell

Russell County Highway Department, Russell
Staley Construction, Russell

Saline

Central Kansas Sand, Inc., Mentor
Salina Sand Co., Salina
Shoffner Sand and Gravel, 134 East Jewell, Salina

Sedgwick

Bentley Sand Co., Bentley
Big Three Sand and Gravel Co., 2010 North Market,
Wichita
Builders Sand Co., 2602 West Central, Wichita
H. E. Cochran Sand and Gravel,
6500 West 21st Street, Wichita
Dolese Brothers Co., 13 N W 13th Street,
Oklahoma City, Oklahoma
Gable Sand Co., Hill City
Glass Sand Co., 8700 South Hydraulic, Wichita
Globe Construction Co., 1041 N. Water, Wichita
J and H Sand Co., 6700 South Hydraulic, Wichita
Walter Keeler Co., P. O. Box 1972,
1101 South Mosley Avenue, Wichita 1
McKinster and Gore Sand Co., 537 West McArthur,
Wichita
Miles Sand, Inc., 4857 North Meridian, Wichita 4
Provence Sand Co., Route 1,
P. O. Box 988, Wichita
Reed Sand and Gravel, 1321 High, Wichita
Ritchie Brothers Construction, Co., P. O. Box 2178,
Wichita 1
Rockhill Sand and Gravel Co., 2361 East McArthur, Wichita
Sedgwick County Highway Department,
P. O. Box 2485, Wichita 12
South End Sand and Gravel,
4700 South Washington, Wichita
Southwest Sand and Gravel Co.,
4605 SW Boulevard, Wichita 15
Superior Sand Co., Inc., 6500 West 21st Street,
Route 7, Wichita 3

SAND AND GRAVEL,...continued

Sedgwick, continued

Vic's Sand and Gravel Co., 6600 West 21st, Wichita

Wichita Big River Sand Co.,
623 West 27th Street South, Wichita

Wichita City Engineer, Wichita 2

York Sand Co., P. O. Box 306, Sedgwick

Seward

Carlisle Sand and Gravel, Liberal

Seward County Highway Department, Liberal

Shawnee

Barnes Sand Co., Route 4, Topeka

Consumers Sand Co., 1101 West Railroad, Topeka

Kansas Sand Co., Inc., 531 North Tyler Street, Topeka

River Sand Co., P. O. Box 233, Topeka

Shawnee County Highway Department,
Courthouse, Topeka

Shoffner Sand Co., 134 East Jewell, Salina

Topeka Sand Co., Route 4, Topeka

Victory Sand and Stone Co., P. O. Box 281,
Foot of Waite, Topeka

Sheridan

Sheridan County Highway Department, Hoxie

Sherman

Bob Cook Construction Co., Goodland

Dale Murphy, Goodland

Popejoy Construction Co., Ulysses

Walt Rhodes, Goodland

Sherman County Highway Department,
P. O. Box 22, Goodland

Siebert Sand Co., P. O. Box 302, Ness City

State Highway Department, Norton

Smith

Smith County Highway Department, Smith Center

Stafford

Partin Sand and Gravel Co., P. O. Box 274, Stafford

J. H. Shears and Sons, P. O. Box 227, Hutchinson

Stafford County Highway Department, St. John

Stevens

Stevens County Highway Department, Hugoton

Sumner

Harry Henery, Inc., P. O. Box 15, Ottawa

Mulvane Sand Co., Inc., 503 East Mulvane Street,
Mulvane

Oxford Sand and Gravel Co., P. O. Box 266, Oxford

Sumner County Highway Department, Wellington

Thomas

Purma Drag Line Co., 975 Second Street, Colby

San Ore Construction Co., Inc., P. O. Box 417,
McPherson

Siebert Sand Co., P. O. Box 302, Ness City

Thomas County Road Department, Colby

Trego

Siebert Sand Co., P. O. Box 302, Ness City

Albert Smith, WaKeeney

Raymond Stanton, Ransom

Reece Construction Co., Scandia

Trego County Highway Department, WaKeeney

SAND AND GRAVEL....concluded

Wabaunsee

Barnes Sand and Gravel Co., R. F. D. 4, Topeka

Wabaunsee County Highway Department, Alma

Wamego Sand Co., Wamego

Wallace

Siebert Sand and Gravel Co., P. O. Box 302, Ness City

State Highway Department, Sharon Springs

Wallace County Highway Department, Sharon Springs

Washington

Finlayson Gravel, Barnes

Mueller Brothers Sand and Gravel, Hanover

Washington County Highway Department, Washington

Wichita

Tony Braun, Marienthal

Howard Clevenger, R. F. D., Leoti

Lee Oldham, Leoti

Willis Rermer, Silkirk

Wichita County Highway Department, Leoti

Mrs. W. E. Willis, Leoti

Wilson

Wilson County Highway Department, Fredonia

Woodson

Woodson County Highway Department, Yates Center

Wyandotte

American Sand and Material Co.,
5731 Kansas Avenue, Kansas City

Builders Sand Co., P. O. Box 658,
Argentine Station, Kansas City

Holliday Sand and Gravel Co., P. O. Box 276,
Bonner Springs

Kaw Valley Sand Co., 38th and Kansas, Kansas City

Peck-Woolf Sand Co., 1920 Paseo Boulevard,
Kansas City 8, Missouri

Pioneer Sand Co., 202 West Francis,
St. Joseph, Missouri

Ebb Rees, 1228 Homer Street, Kansas City

Stewart Sand and Material Co., 4049 Pennsylvania,
Kansas City, Missouri

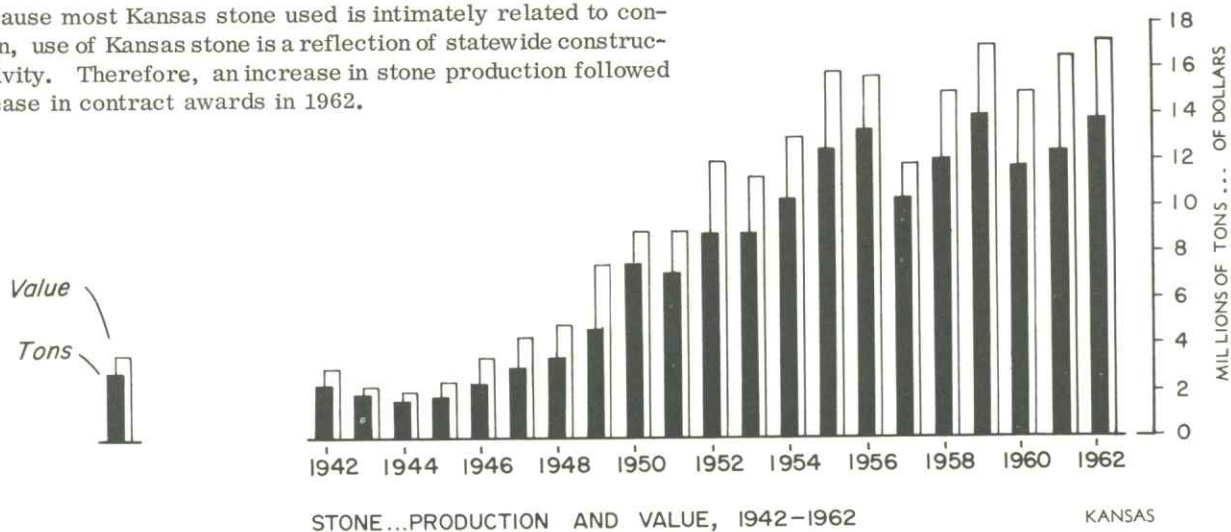
Superior Sand and Gravel Co., P. O. Box 145, Muncie

STONE

Nonmetallics mineral production in the category of crushed rock and building stone totaled an estimated 13,800,000 short tons valued at \$17,200,000 in 1962. Compared with 12,328,000 short tons valued at \$16,411,000 in 1961, this indicates a net tonnage gain of approximately 12 percent and a value gain of almost 4.8 percent.

Approximately two-thirds of the crushed rock (limestone, sandstone, chat) produced in 1962 was for use in concrete and as road metal and screenings. The remaining tonnage was divided among riprap, railroad ballast, agricultural limestone, and rock for portland cement manufacture. At a few quarries in eastern and north-central Kansas rock was produced for building stone.

Because most Kansas stone used is intimately related to construction, use of Kansas stone is a reflection of statewide construction activity. Therefore, an increase in stone production followed an increase in contract awards in 1962.



KANSAS STONE PRODUCERS.... LISTED ALPHABETICALLY BY NAME OF PRODUCER

CRUSHED ROCK

<u>Producer</u>	<u>Address*</u>	<u>County in which producing</u>
Allens , Inc.	200 West 10th Street, Wichita	Sedgwick
Anderson-Oxandale	P. O. Box 425, Herington	Dickinson, Jackson, Lyon, Marion, Marshall, Morris, Pottawatomie, Riley
Atchison County Engineer	Atchison	Atchison
Atwood Sand and Rock	Atwood	Rawlins
Aubel Asphalt Co.	Hays	Ellis
G. W. Baker	Holton	Brown, Doniphan, Jackson, Shawnee
Roy Baker	Valley Falls	Jefferson

*Kansas unless otherwise noted.

<u>Producer</u>	<u>Address</u>	<u>County in which producing</u>
Baxter Chat Co.	P. O. Box 71, Baxter Springs	Cherokee
Bayer Construction Co., Inc.	509 Yuma Street, Manhattan	Pottawatomie, Riley, Wabaunsee
Benedict Rock and Lime Co.	Benedict	Wilson
Ralph Bromley and Son	1100 Julia Street, Atchison	Atchison
Harry Byers and Sons, Inc.	500 North Plummer, Chanute	Neosho
Carr Rock Products Co.	P. O. Box 117, Neodesha	Butler, Montgomery, Wilson
Clark Rock Quarry	Baldwin	Douglas
Cloud County Highway Department	Concordia	Cloud
Concrete Materials and Construction, Div. American-Marietta Corp.	P. O. Box 790, Cedar Rapids, Iowa	Elk, Franklin, Geary, Jefferson, Leavenworth, Osage, Pottawatomie, Shawnee, Wabaunsee
Cullor Limestone Co., Inc.	R. F. D. 5, Fort Scott	Bourbon
Daniels Stone Co., Inc.	P. O. Box 134, Winfield	Cowley
Deitz-Hill Development Co.	28th and SW Boulevard, Kansas City 10, Missouri	Johnson
Doniphan County Highway Department	Troy	Doniphan
Ellis County Highway Department	Hays	Ellis
Everett Quarries, Inc.	Plattsburg, Missouri	Doniphan
F. D. Fogle	R. F. D. 1, Ottawa	Franklin
Fort Riley Reservation Post Engineer	Fort Riley	Riley
Fort Scott Hydraulic Cement Co.	P. O. Box 267, Fort Scott	Bourbon
Lee Giles	Greeley	Linn, Greeley
Greeley County Engineer	Tribune	Greeley
Grosshans-Petersen, Inc.	Marysville	Geary, Marshall
H and S Rock Co.	R. F. D. 1, Elk City	Montgomery
Ralph and Elmer Hafer	P. O. Box 115, Cedar	Smith
N. R. Hamm Limestone Quarry	Perry	Jefferson
Hayes Quarries	4550 Main Street, Kansas City 12, Missouri	Miami
Heinzelman Construction Co.	506 South 10th Street, Marysville	Marshall
Hopper Brothers Quarries	Pawnee City, Nebraska	Marshall

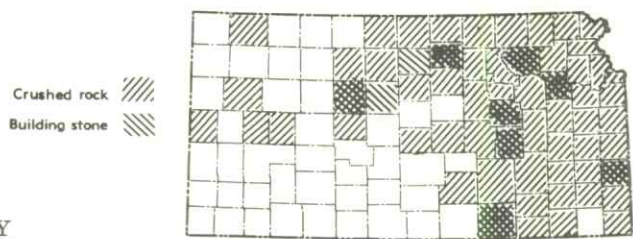
<u>Producer</u>	<u>Address</u>	<u>County in which producing</u>
Hunt Rock Co.	Garnett	Anderson
Irontite of Kansas	Marion	Marion
O. C. Johnston	Dighton	Lane
Jones Rock Co.	P. O. Box 128, Emporia	Coffey, Lyon
Walter Keeler Co.	P. O. Box 1972, 1101 S. Mosley Ave., Wichita 1	Sedgwick, Marion
G. W. Kerford Quarry Co.	Route 1, Atchison	Atchison
Koppes Brothers	Marysville	Marshall
Kunshak Chat Co.	403 North Catalpa Street, Pittsburg	Cherokee
Leavenworth Quarries	1901 South 2nd Street, Leavenworth	Leavenworth
Leins Materials and Construction	5718 West 101 Street Terrace, Overland Park	Johnson
Linn County Highway Department	Mound City	Linn
Loring Quarries, Inc.	P. O. Box 174, Bonner Springs	Leavenworth
Henry C. Luttjohann	Route 8, Topeka	Shawnee
Manhattan Stone Co.	Manhattan	Riley
Marshall County Highway Department	Marysville	Marshall
Miami County Highway Department	Paola	Miami
Murray Limestone Products	P. O. Box 153, Pleasanton	Anderson, Linn
George M. Myers, Inc.	1224 West 6th Street, P. O. Box 911, El Dorado	Butler, Greenwood
Nelson Brothers Rock Co.	La Harpe	Allen, Coffey, Montgomery, Neosho, Woodson
Neosho County Highway Department	Erie	Neosho
Neosho Valley Rock Co.	Burlington 2	Coffey
P. H. Netherland Stone Co.	Route 2, Topeka	Shawnee
Osage County Highway Department	Lyndon	Osage
Osborne County Highway Department	Osborne	Osborne
O'Brien Rock Crusher	St. Paul	Neosho
Peterson's Ready-Mix	Junction City	Geary
Plagmann and Downs	831 Malang Road, Galena	Cherokee
Glen Puett	Manhattan	Riley

STONE....continued

<u>Producer</u>	<u>Address</u>	<u>County in which producing</u>
Quartzite Stone Co.	Lincoln	Lincoln, Ottawa
Reno Construction Co.	P. O. Box 61, Overland Park	Johnson, Miami, Morris
Republic County Highway Department	Belleville	Republic
Rice County Highway Department	Lyons	Rice
Riddle Quarries, Inc.	P. O. Box 1268, Salina	Chase, Clay, Coffey, Dickinson, Marion, McPherson, Morris, Rice, Riley
Rooks County Highway Department	Stockton	Rooks
Rush County Highway Department	La Crosse	Rush
Scott County Highway Department	Scott City	Scott
Sedan Limestone Co.	Sedan	Chautauqua
Sedgwick County Highway Department	1015 Stillwell, Wichita 12	Sedgwick
Shawnee County Highway Department	Court House, Topeka	Shawnee
Smith, Kirk, and Paterson	Tribune	Logan
Southwest Rock and Chat Co.	Baxter Springs	Cherokee
John J. Stark Contractor	P. O. Box 7, Girard	Cherokee, Crawford, Labette, Montgomery
Starnes Excavating Co.	3713 Arkansas Ave., Wichita 4	Butler
J. A. Tobin Construction Co.	3701 Rainbow Boulevard, Kansas City 3	Johnson, Wyandotte
P. J. Tobin	Route 3, Olathe	Johnson
Thompson-Strauss Quarries	7000 Holliday Drive, Kansas City 6	Wyandotte, Johnson
Union Construction Co.	1401 Fairfax Trafficway, Kansas City	Johnson
U. S. Corps of Engineers	1800 Federal Office Building, Kansas City 6, Missouri	Doniphan, Wyandotte
Wabaunsee County Highway Department	Alma	Wabaunsee
Wade Brothers Quarries	La Cygne	Linn, Miami
Walker Stone Co.	Milford	Geary
Westhoff Lime Quarries	Morrowville	Washington
West Lake Quarry and Material Co.	Route 1, P. O. Box 206, Bridgeton, Missouri	Doniphan
Wilson County Highway Department	Fredonia	Wilson
Wolf River Limestone, Inc.	Troy	Doniphan
York Surfacing Materials	2333 "A" NE, Miami, Oklahoma	Cherokee

BUILDING STONE

<u>Producer</u>	<u>Address</u>	<u>County in which producing</u>
Bandera Stone Quarry	Redfield	Bourbon
Bayer Stone, Inc.	Route 1, Manhattan	Pottawatomie
H. J. Born Stone Co.	901 West 35th Street North, Wichita 4	Chase, Cowley
H. J. Born Stone Co., Silverdale Cut Stone Div.	Silverdale	Chase, Cowley
Hays Cut Stone and Veneer	P. O. Box 42, Hays	Ellis
Junction City Stone Co.	Junction City	Morris
J. T. Lardner Stone	128 North Van Buren, Topeka	Chase, Shawnee
Prickett, Inc.	Simpson	Cloud, Mitchell
Raney and Svoboda	511 Kingsley, Ellsworth	Russell
Silverdale Limestone Co.	Route 3, P. O. Box 166, Arkansas City	Cowley



KANSAS STONE PRODUCERS....LISTED BY COUNTY
(Address of producers in Kansas unless otherwise noted.)

CRUSHED ROCK

Allen

Nelson Brothers Rock Co., La Harpe

Anderson

Hunt Rock Co., Garnett

Murray Limestone Products, P. O. Box 153,
Pleasanton

Atchison

Atchison County Highway Department, Atchison

Ralph Bromley and Son, 1100 Julia Street, Atchison

G. W. Kerford Quarry Co., Route 1, Atchison

Bourbon

Cullor Limestone Co., Inc., R. F. D. 5, Fort Scott

Fort Scott Hydraulic Cement Co., P. O. Box 267,
Fort Scott

Brown

G. W. Baker, Holton

Butler

Carr Rock Products Co., P. O. Box 117, Neodesha

George M. Myers, Inc., 1224 West 6th Street,
P. O. Box 911, El Dorado

Starnes Excavating Co., 3713 Arkansas Ave., Wichita

Chase

Riddle Quarries, Inc., P. O. Box 1268, Salina

Chautauqua

Sedan Limestone Co., Sedan

Cherokee

Baxter Chat Co., P. O. Box 71, Baxter Springs

Kunshek Chat Co., 403 North Catalpa Street, Pittsburg

Plagmann and Downs, 831 Malang Road, Galena

Southwest Rock and Chat Co., Baxter Springs

John J. Stark, P. O. Box 7, Girard

York Surfacing Materials, 2333 "A" NE,
Miami, Oklahoma

Clay

Riddle Quarries, Inc., P. O. Box 1268, Salina

Cloud

Cloud County Highway Department, Concordia

Coffey

Jones Rock Co., P. O. Box 128, Emporia

Nelson Brothers Quarries, La Harpe

Neosho Valley Rock Co., Burlington 2

Riddle Quarries, Inc., P. O. Box 1268, Salina

Cowley

Daniels Stone Co., Inc., P. O. Box 134, Winfield

Crawford

John J. Stark, P. O. Box 7, Girard

Dickinson

Anderson-Oxandale, P. O. Box 425, Herington

Riddle Quarries, Inc., P. O. Box 1268, Salina

Doniphan

G. W. Baker, Holton

Doniphan County Highway Department, Troy

Everett Quarries, Inc., Plattsburg, Missouri

U. S. Corps of Engineers, 1800 Federal Office Building,
Kansas City 6, Missouri

West Lake Quarry and Materials Co., Route 1,
P. O. Box 206, Bridgeton, Missouri

Wolf River Limestone, Inc., Troy

Douglas

Clark Rock Quarry, Baldwin

Concrete Materials and Construction,
Div. American-Marietta Corp., P. O. Box 790,
Cedar Rapids, Iowa

Elk

Concrete Materials and Construction,
Div. American-Marietta Corp., P. O. Box 790,
Cedar Rapids, Iowa

Ellis

Ellis County Highway Department, Hays

Aubel Asphalt Co., Hays

Franklin

Concrete Materials and Construction,
Div. American-Marietta Corp., P. O. Box 790,
Cedar Rapids, Iowa

F. D. Fogle, R.F.D. 1, Ottawa

Geary

Concrete Materials and Construction,
Div. American-Marietta Corp., P. O. Box 790,
Cedar Rapids, Iowa

Grosshans-Peterson, Inc., Marysville

Geary, continued

Peterson's Ready-Mix, Junction City

Walker Stone Co., Milford

Greeley

Greeley County Engineer, Tribune

Greenwood

George M. Myers, Inc., 1224 West 6th Street,
P. O. Box 911, El Dorado

Jackson

Anderson-Oxandale, P. O. Box 425, Herington

G. W. Baker, Holton

Jefferson

Roy Baker, Valley Falls

Concrete Materials and Construction,
Div. American-Marietta Corp., P. O. Box 790,
Cedar Rapids, Iowa

N. R. Hamm Limestone Quarry, Inc., Perry

Jewell

Ideal Cement Co., Superior, Nebraska

Johnson

Deitz-Hill Development Co., 28th and SW Boulevard,
Kansas City 10, Missouri

Leins Materials and Construction,
5718 West 101st Street Terrace, Overland Park

Reno Construction Company, P. O. Box 61,
Overland Park

P. J. Tobin, Route 3, Olathe

Thompson-Strauss, 7000 Holliday Drive, Kansas City 6

J. A. Tobin Construction Co., 3701 Rainbow Boulevard,
Kansas City 3

Union Construction Co., 1401 Fairfax Trafficway,
Kansas City

Labette

John J. Stark, P. O. Box 7, Girard

Lane

O. C. Johnston, Dighton

Leavenworth

Concrete Materials and Construction,
Div. American-Marietta Corp., P. O. Box 790,
Cedar Rapids, Iowa

Leavenworth Quarries, 1901 South Second Street,
Leavenworth

Loring Quarries, Inc., P. O. Box 174, Bonner Springs

Lincoln

Quartzite Stone Co., Lincoln

Linn

Lee Giles, Greeley

Linn County Highway Department, Mound City

Murray Limestone Products
P. O. Box 153, Pleasanton

Wade Brothers Agricultural Products, La Cygne

Logan

Smith, Kirk, and Paterson, Tribune

Lyon

Anderson-Oxandale, P. O. Box 425, Herington

G. W. Baker, Holton

Jones Rock Co., P. O. Box 128, Emporia

Marion

Anderson-Oxandale, P. O. Box 425, Herington

Irontite of Kansas, Marion

Keeler Quarries, Inc., P. O. Box 1972, Wichita 1

Riddle Quarries, Inc., P. O. Box 1268, Salina

Marshall

Anderson-Oxandale, P. O. Box 425, Herington

Grosshans-Peterson, Inc., Marysville

Heinzelman Construction Co., Marysville

Hopper Brothers Quarries, Pawnee City

Koppes Brothers, Marysville

McPherson

Riddle Quarries, Inc., P. O. Box 1268, Salina

Miami

Lee Giles, Greeley

Hayes Quarries, Inc., P. O. Box 1268, Salina

Reno Construction Co., P. O. Box 61, Overland Park

Wade Quarries, La Cygne

Montgomery

Carr Rock Products, P. O. Box 117, Neodesha

H and S Rock Co., R. F. D. 1, Elk City

Nelson Brothers Quarries, LaHarpe

John J. Stark, P. O. Box 7, Girard

Morris

Anderson-Oxandale Co., P. O. Box 425, Herington

Riddle Quarries, Inc., P. O. Box 1268, Salina

Reno Construction Co., 135 and Highway 69,
Overland Park

Nemaha

Anderson-Oxandale, P. O. Box 425, Herington

Neosho

Harry Byers and Sons, Inc., 500 North Plummer, Chanute

Nelson Brothers Quarries, La Harpe

Neosho County Highway Department, Erie

Joe O'Brien Rock Crusher, St. Paul

Osage

Concrete Materials and Construction,
Div. American-Marietta Corp., P. O. Box 790,
Cedar Rapids, Iowa

Osage County Engineer, Lyndon

Osborne

Osborne County Highway Department, Osborne

Ottawa

Quartzite Stone Co., Lincoln

Pottawatomie

Anderson-Oxandale, P. O. Box 425, Herington

Bayer Construction Co., Inc., 509 Yuma Street,
Manhattan

Concrete Materials and Construction,
Div. American-Marietta Corp., P. O. Box 790,
Cedar Rapids, Iowa

Rawlins

Atwood Sand and Rock, Atwood

Republic

Republic County Highway Department, Belleville

Rice

Rice County Highway Department, Lyons

Riddle Quarries, Inc., P. O. Box 1268, Salina

Riley

Anderson-Oxandale, P. O. Box 425, Herington

Bayer Construction Co., Inc., 509 Yuma Street,
Manhattan

Fort Riley Reservation, Post Engineer, Fort Riley

Manhattan Stone Co., Manhattan

Glen Puett, Manhattan

Riddle Quarries, Inc., P. O. Box 1268, Salina

Rooks

Rooks County Highway Department, Stockton

Rush

Rush County Highway Department, La Crosse

Scott

Scott County Engineer, Scott City

Sedgwick

Allens, Inc., 200 West 10th Street, Wichita

Sedgwick County Highway Department,
1015 Stillwell, Wichita

Walter Keeler Co., P. O. Box 1972,
1101 South Mosley Avenue, Wichita 1

Shawnee

G. W. Baker, Holton

Concrete Materials and Construction,
Div. American-Marietta Corp., P. O. Box 790,
Cedar Rapids, Iowa

Henry C. Luttjohann, Route 8, Topeka

P. H. Netherland Stone Co., Route 2, Topeka

Shawnee County Highway Department
Court House, Topeka

Smith

Ralph and Elmer Hafer, P. O. Box 115, Cedar

STONE... concluded

Wabaunsee

Bayer Construction Co., Inc.,
509 Yuma Street, Manhattan

Concrete Materials and Construction,
Div. American-Marietta Corp., P. O. Box 790,
Cedar Rapids, Iowa

Wabaunsee County Highway Department, Alma

Washington

Westhoff Lime Quarries, Ed Westhoff, Morrowville

Wilson

Benedict Rock and Lime Co., Benedict

Carr Rock Products, P. O. Box 117, Neodesha

Wilson County Highway Department, Fredonia

BUILDING STONE

Bourbon

Bandera Stone Quarry, Redfield

Chase

H. J. Born Stone Co., 901 West 35th Street North,
Wichita 4

H. J. Born Stone Co., Silverdale Cut Stone Div.,
Silverdale

J. T. Lardner Stone, 128 North Van Buren, Topeka

Cowley

H. J. Born Stone Co., 901 West 35th Street North,
Wichita 4

H. J. Born Stone Co., Silverdale Cut Stone Div.,
Silverdale

Silverdale Limestone Co., Route 3,
P. O. Box 166, Arkansas City

Silverdale Cut Stone Co., Silverdale

Woodson

Nelson Brothers Quarries, La Harpe

Wyandotte

Thompson-Strauss Quarries,
7000 Holliday Drive, Kansas City

J. A. Tobin Construction Co.,
3701 Rainbow Boulevard, Kansas City 3

U. S. Corps of Engineers,
1800 Federal Office Building, Kansas City

Ellis

Hays Cut Stone and Veneer, P. O. Box 42, Hays

Mitchell

Prickett, Inc., Simpson

Morris

Junction City Stone Co., Junction City

Pottawatomie

Bayer Stone, Inc., Route 1, Manhattan

Russell

Raney and Svoboda, 511 Kingsley, Ellsworth

Shawnee

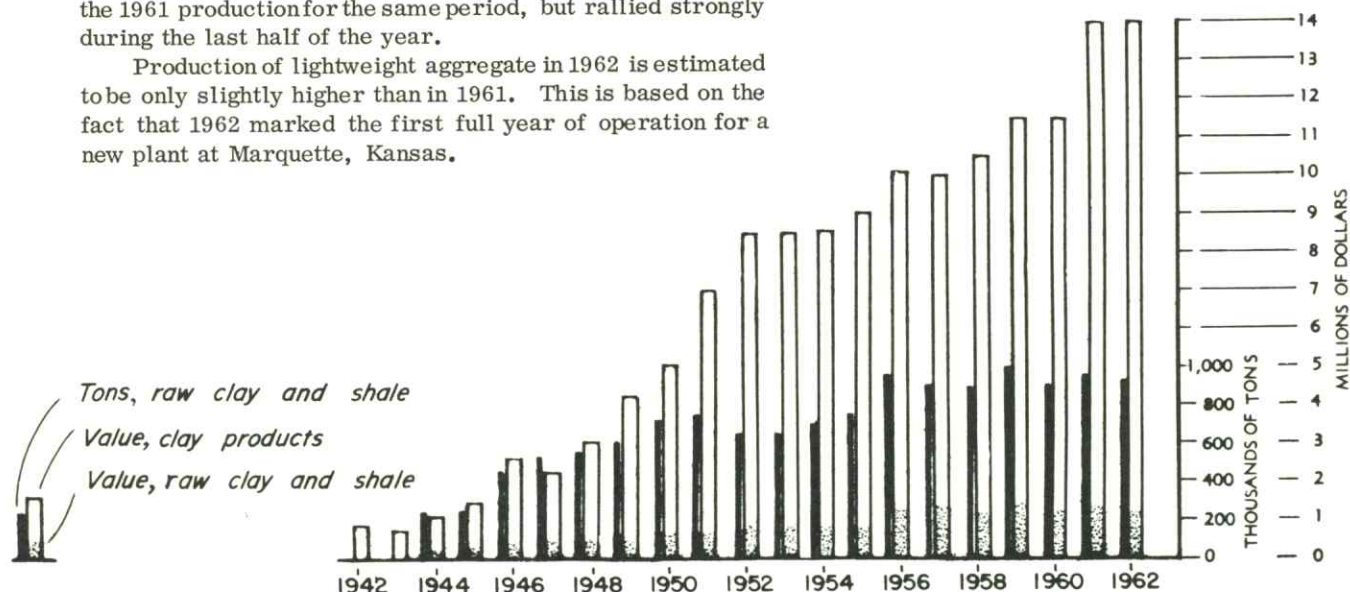
J. T. Lardner Stone, 128 North Van Buren, Topeka



CLAY

The 1962 output of fired clay products, including brick and tile, drain tile, sewer pipe, and lightweight aggregate, showed insignificant change over that of 1961. Production of brick and tile during the first six months of 1962 fell below the 1961 production for the same period, but rallied strongly during the last half of the year.

Production of lightweight aggregate in 1962 is estimated to be only slightly higher than in 1961. This is based on the fact that 1962 marked the first full year of operation for a new plant at Marquette, Kansas.



CLAY...PRODUCTION AND VALUE, 1942-1962

KANSAS

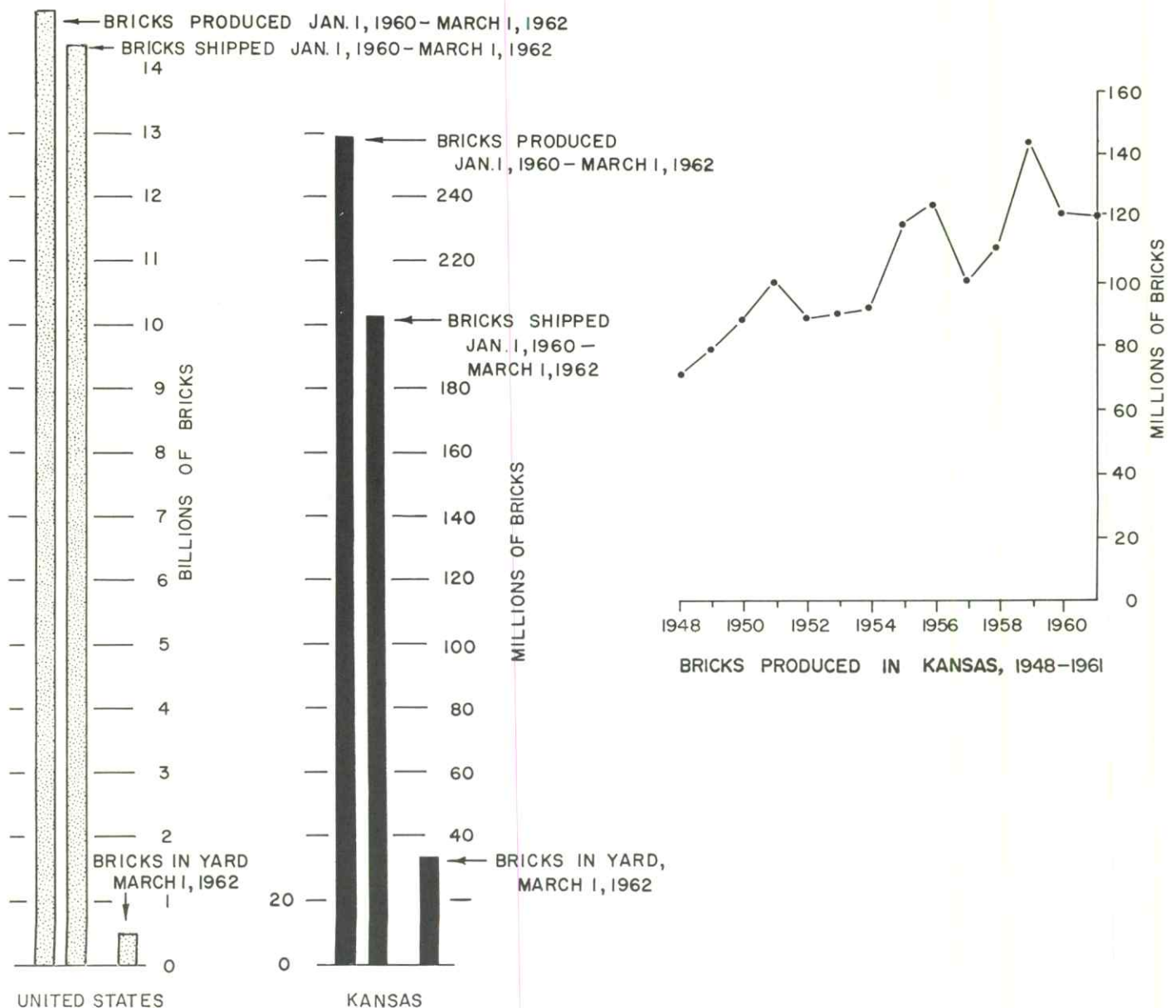
KANSAS PRODUCERS OF CLAY AND SHALE PRODUCTS

(Shale utilized in portland cement manufacture listed under cement producers.)

<u>Producer</u>	<u>Product</u>	<u>Plant and pit location</u>	<u>Office address</u>
Acme Brick Co.	Acid brick	Buffalo, Wilson County	P. O. Box 425, Ft. Worth, Texas
	Brick and tile	Kanopolis, Ellsworth County	
Buildex, Inc.	Lightweight concrete aggregate	Ottawa, Franklin County	P. O. Box 299, Pittsburg, Kansas
	Lightweight concrete aggregate	Marquette, McPherson County	
Cloud Ceramics	Brick	Concordia, Cloud County	Concordia, Kansas
W. S. Dickey Clay Manufacturing Co.	Sewer pipe	Pittsburg, Crawford County (P. O. Box 402)	607-617 Commerce Trust Bldg., Kansas City 6, Missouri
Excelsior Brick Co.	Brick	Fredonia, Wilson County	P. O. Box 32, Fredonia, Kansas
Humboldt Brick and Tile Co.	Brick and tile	Humboldt, Allen County	P. O. Box 97, Humboldt, Kansas
Kansas Brick and Tile Co.	Brick and tile	Hoisington, Barton County	Hoisington, Kansas

<u>Producer</u>	<u>Product</u>	<u>Plant and pit location</u>	<u>Office address</u>
Pittsburg Pottery	Pottery	Pittsburg, Crawford County	P. O. Box 5, Pittsburg, Kansas
Pomona Tile Co.	Wall tile	Arkansas City, Cowley County	Arkansas City, Kansas
United Brick and Tile Co.*	Brick and tile	Coffeyville, Montgomery County	207 Pickwick Bldg., Kansas City Missouri
	Brick and tile	Weir, Cherokee County	

*Effective January 31, 1963, Acme Brick Company.

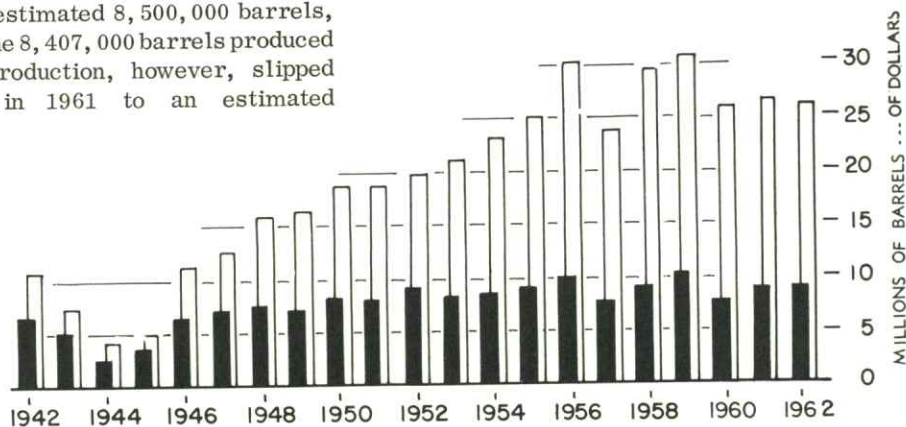


BRICKS PRODUCED AND SHIPPED (JAN. 1, 1960 - MAR. 1, 1962) IN THE UNITED STATES AND KANSAS

CEMENT



The production of cement, an essential mineral commodity of the construction industry, seemingly has been fairly steady since World War II. Quantity produced in 1962, an estimated 8,500,000 barrels, was up slightly from the 8,407,000 barrels produced in 1961. Value of production, however, slipped from \$26,761,000 in 1961 to an estimated \$26,400,000 in 1962.



CEMENT...PRODUCTION AND VALUE, 1942-1962

KANSAS

KANSAS CEMENT PRODUCERS

PORTLAND CEMENT

<u>Producer</u>	<u>Plant and quarry location</u>	<u>Office address</u>
Ash Grove Lime-Portland Cement Co.	Chanute, Neosho County	101 West 11th Street, Kansas City 6, Missouri
Ideal Cement Co.	Jewell County*	Superior, Nebraska
Lehigh Portland Cement	Iola, Allen County	Young Building, 718 Hamilton, Allentown, Pennsylvania
Lone Star Cement Corp.	Bonner Springs, Wyandotte County	P. O. Box 87, Bonner Springs, Kansas
Monarch Cement Co.	Humboldt, Allen County	Humboldt, Kansas
Universal Atlas Cement Co.	Independence, Montgomery County	135 East 42nd Street, New York 17, New York
Victor Portland Cement Division, General Portland Cement Co.	Fredonia, Wilson County	P. O. Box 479, Fredonia, Kansas

NATURAL CEMENT

<u>Producer</u>	<u>Plant and quarry location</u>	<u>Office address</u>
Fort Scott Hydraulic Cement Co.	Fort Scott, Bourbon County	P. O. Box 267, Fort Scott, Kansas

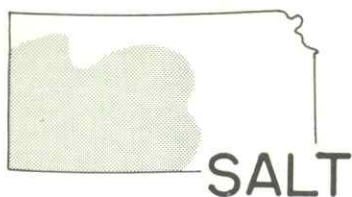
*Quarry only. (Plant is at Superior, Nebraska.)



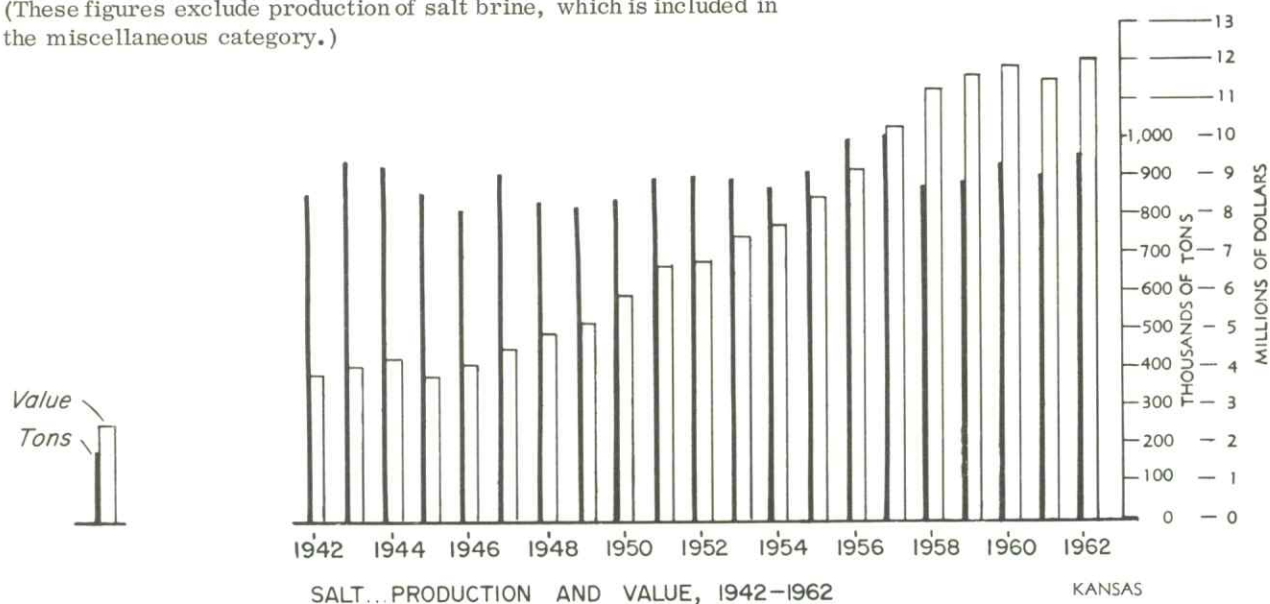
Gypsum is an important Kansas industrial mineral, generally discussed under the category of miscellaneous because production information cannot be revealed if there are no more than two producers. Kansas gypsum is a superior raw material for the manufacture of a variety of specialty plasters and plaster products. Keene cement and wallboard are two of the major products. Gypsum currently is being mined underground in Barber and Marshall Counties, and in 1962 preparations were being made to open a quarry in Barber County.

KANSAS GYPSUM PRODUCERS

<u>Producer</u>	<u>Product</u>	<u>Plant and mine location</u>	<u>Home office</u>
Bestwall Gypsum Co.	Plaster and plaster products	Blue Rapids, Marshall County	120 East Lancaster Avenue, Ardmore, Pennsylvania
National Gypsum Co.	Plaster and plaster products	Medicine Lodge, Barber County	325 Delaware Avenue, Buffalo 2, New York



Kansas salt production has shown remarkable stability for many years, although generally characterized by increases in value of production. In 1962 the salt industry had comparable gains in both production and value. Increases were, respectively, about 4.9 percent, from 913,000 tons in 1961 to 958,000 tons in 1962, and about 5.2 percent, from \$11,409,000 in 1961 to \$12,000,000 in 1962. (These figures exclude production of salt brine, which is included in the miscellaneous category.)



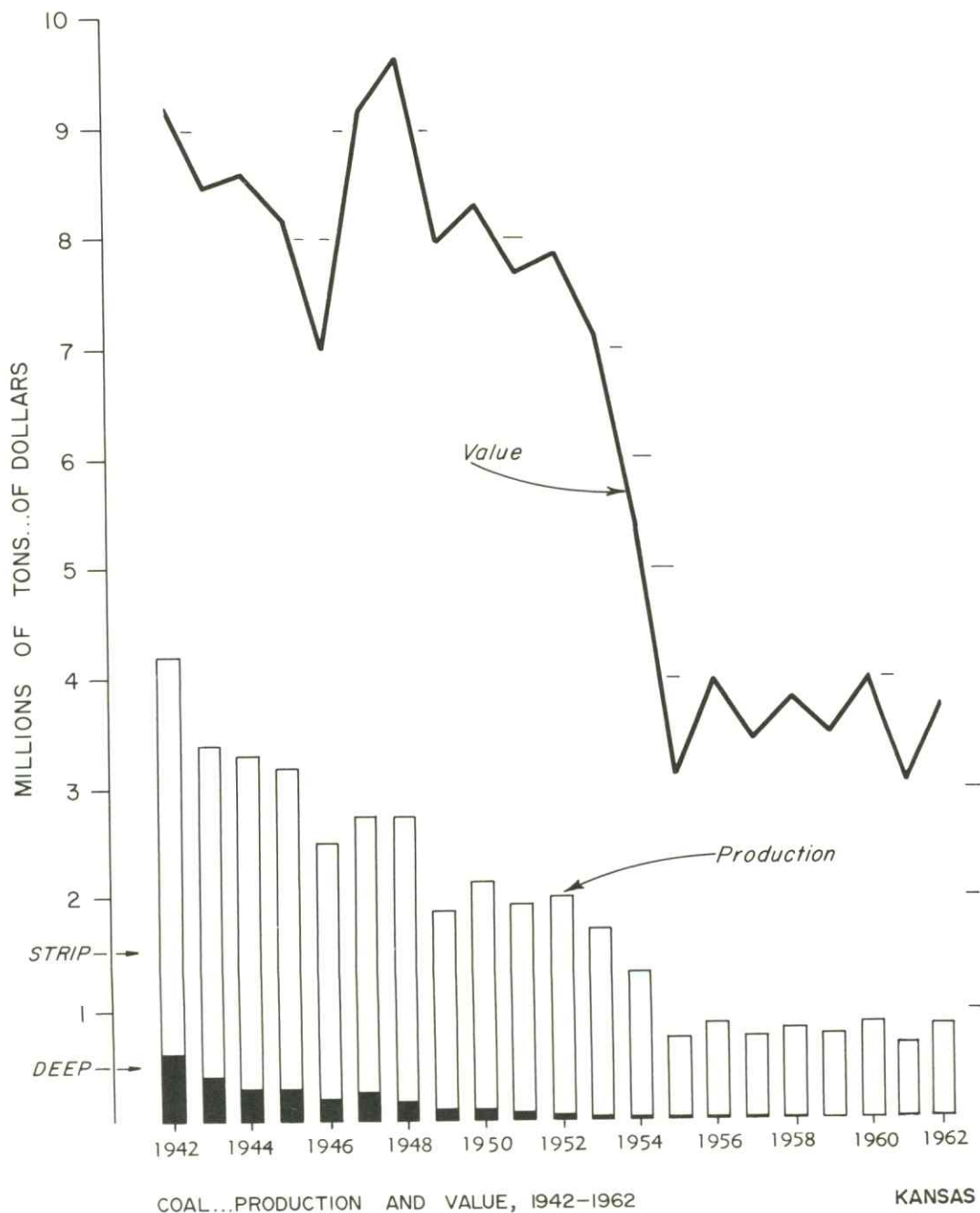
KANSAS SALT PRODUCERS

<u>Producer</u>	<u>Product</u>	<u>Plant and mine (or well) location</u>	<u>Office address</u>
American Salt Corp.	Rock salt and evaporated salt	Lyons, Rice County	630 New York Life Building, Kansas City 6, Missouri
The Barton Salt Co.	Evaporated salt	Hutchinson, Reno County	P. O. Box 989, Hutchinson, Kansas
The Carey Salt Co.	Rock salt and evaporated salt	Hutchinson, Reno County	1800 Carey Boulevard, Hutchinson, Kansas
Frontier Chemical Co. of Kansas, Inc., (Div. of Vulcan Materials Co.)	Salt brine	Wichita, Sedgwick County	P. O. Box 545, Wichita, Kansas
Independent Salt Co.	Rock salt	Kanopolis, Ellsworth County	4115 Packers Avenue, Chicago, Illinois
Morton Salt Co.	Evaporated salt	Hutchinson, Reno County	110 North Wacker Drive, Chicago, Illinois
Pawnee Salt Corp.	Evaporated salt	Pawnee Rock, Barton County	Great Bend, Kansas

COAL

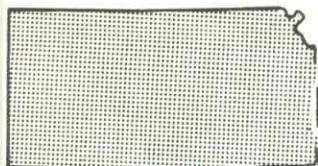


Estimated coal production for 1962 represents an increase of 22 percent over production for 1961, from 666,800 short tons to 814,000 short tons. The principal factor, and one having a twofold effect, in bringing about this increased production was a somewhat prolonged and severe winter season in 1961-1962. Electric power generating and manufacturing plants depending on coal for stand-by fuel were compelled to use more of this stand-by fuel as gas supplies were interrupted. The adverse weather also created a demand for more power, which in turn increased the fuel demand.



KANSAS COAL PRODUCERS

<u>Producer</u>	<u>Address</u>	<u>County in which producing</u>
Bell Coal Co.	Burlingame	Osage
Black Diamond Coal Co.	Route 3, Pittsburg	Cherokee
Clemens Coal Co.	320 North Locust, Pittsburg	Crawford
Cliff-Carr Coal Co.	Route 1, Mulberry	Crawford
Fyock Coal Co.	Prescott	Linn
Garrett Coal Co.	Route 2, Arcadia	Bourbon
Graham Coal Co.	Reading	Osage
Johnson Coal Co.	Scranton	Osage
Noel Coal Co.	La Cygne	Linn
Palmer and Sons Coal Co.	Mulberry	Crawford
Pittsburg-Midway Coal Co.	Hanover Building, 15 West 10th Street, Kansas City 5, Missouri	Cherokee
S. L. Rogers Coal Co.	Lebo	Coffey
Wilkinson Coal Co.	Weir	Cherokee
Wood Coal Co.	Fulton	Linn



MISC. INDUSTRIAL MINERALS

VOLCANIC ASH...

DIATOMACEOUS MARL...

RAW GYPSUM...

SALT BRINE...

NATURAL CEMENT...

Mineral commodities listed in the miscellaneous category include those for which there are fewer than three producers; this precludes the revealing of figures for single commodities. Value of miscellaneous minerals produced in 1961 as compared with 1962 changed little—\$6,700,000 in 1961 and an estimated \$6,600,000 in 1962. Commodities included are diatomaceous marl, gypsum, natural cement, salt brine, volcanic ash, and (1961 only) lime.

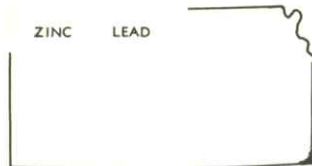
Some of these materials have potential for further development—as suggested for example in Geological Survey Bulletin 157 Part 3: "What's New in Volcanic Ash for Industry?" by Maynard Bauleke—and others not now being produced have industrial potential.

KANSAS VOLCANIC ASH PRODUCERS

<u>Producer</u>	<u>Pit location</u>	<u>Office address</u>
Ernest Hanzlicek	Southwestern Lincoln County	Wilson, Kansas
Wyandotte Chemicals Corp.	Calvert, Norton County	1609 Biddle Avenue, Wyandotte, Michigan

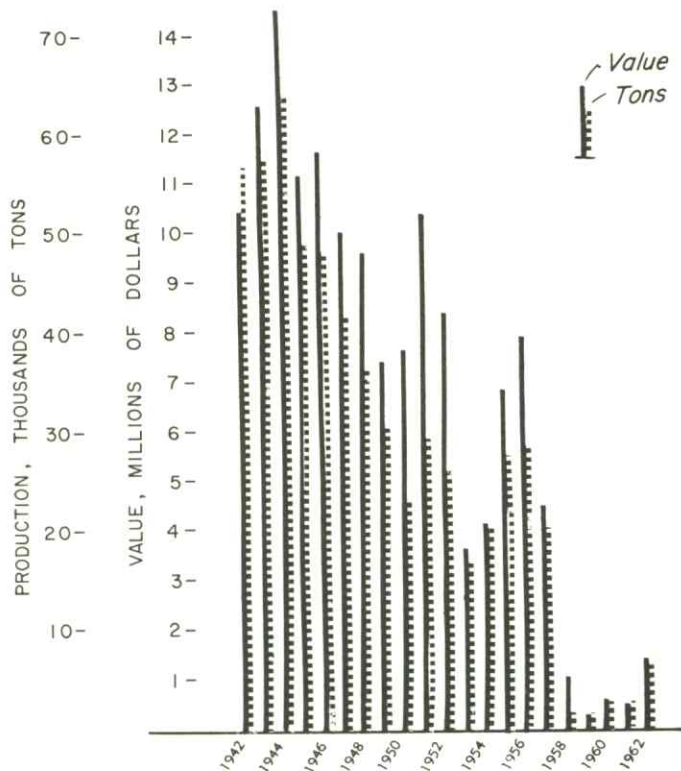
KANSAS DIATOMACEOUS MARL PRODUCER

<u>Producer</u>	<u>Processing plant</u>	<u>Pit location</u>	<u>Home office</u>
National Lead Co. (De Lore Division)	Edson, Sherman County (P. O. Box 588, Edson, Kansas)	Northeastern Wallace County	2800 Carondelet Station, St. Louis, Missouri

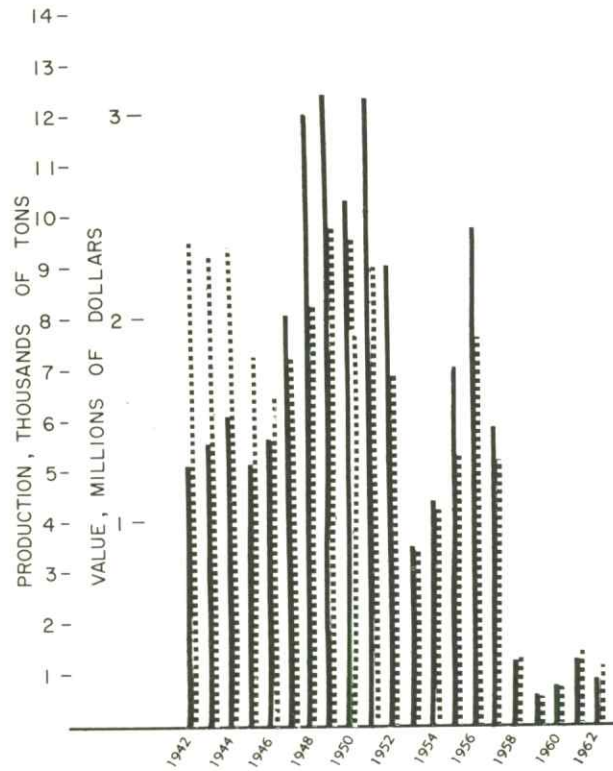


The Kansas metals industry has had few good years since the mid 1950s. Increases in zinc production and value, from 2,500 tons valued at \$563,000 in 1961 to an estimated 6,200 tons valued at \$1,400,000 in 1962, were probably the result of price supports. Lead production and value, however, decreased—from 1,500 tons valued at \$300,000 in 1961 to 1,190 tons valued at \$200,000 in 1962.

ZINC



LEAD

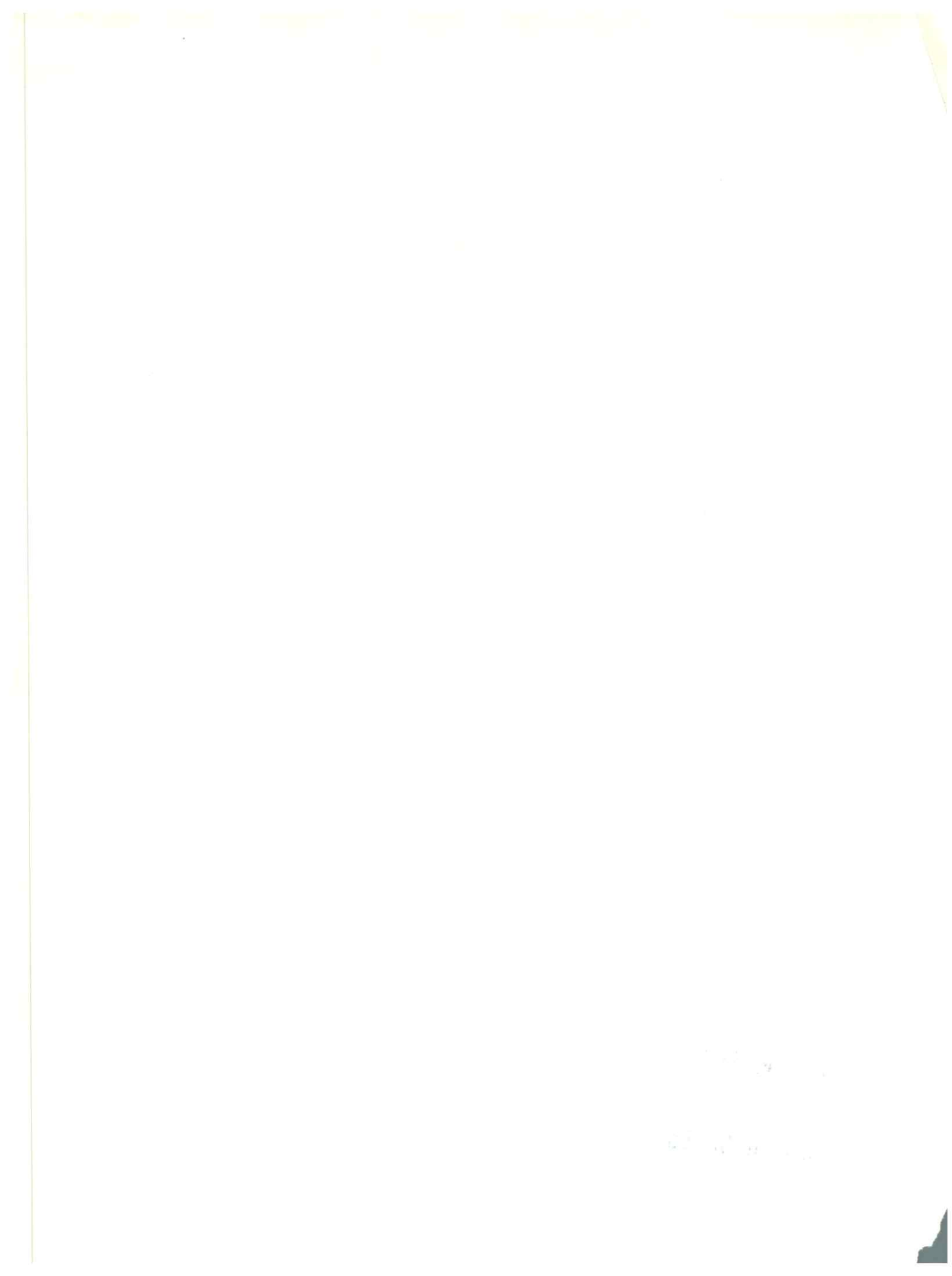


ZINC... LEAD... PRODUCTION AND VALUE, 1942-1962

KANSAS

KANSAS LEAD AND ZINC PRODUCERS

<u>Producer</u>	<u>Address</u>	<u>Mine location</u>
Eagle-Picher Co.	Miami, Oklahoma	Cherokee County, Kansas
Eby Manufacturing Co.	Picher, Oklahoma	Cherokee County, Kansas
Enders Manufacturing Co.	Picher, Oklahoma	Cherokee County, Kansas
General Steel Products Co.	Baxter Springs, Kansas	Cherokee County, Kansas
M and B Mining Co.	230 I Southeast, Miami, Oklahoma	Cherokee County, Kansas
Mid-Continent Lead and Zinc	Baxter Springs, Kansas	Cherokee County, Kansas
Tucker-Henderson Mining Co.	P. O. Box 126, Picher, Oklahoma	Cherokee County, Kansas



Kansas Geological Survey
Loan Copy
Return in 30 Days