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STATE OF ILLINOIS

DEPARTMENT OF REGISTRATION AND EDUCATION

SUMMARY OF ILLINOIS
MINERAL PRODUCTION
BY COMMODITIES
1941 - 1960

W L BUSCH

ILLINOIS STATE GEOLOGICAL SURVEY
MINERAL ECONOMICS BRIEF #4

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SUMMARY OF ILLINOIS MINERAL PRODUCTION

BY COMMODITIES, 1941-1960

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The Illinois State Geological Survey has issued for many years a report summarizing the annual mineral production of Illinois. Since most of these reports are now out of print the following pages present in concise, tabular form figures from the reports showing the amounts and values of minerals produced in Illinois for a 20-year period, 1941-1960.

During this period the total annual value of Illinois minerals reported produced has grown from about 333 million dollars in 1941 to more than 600 million dollars for each of the five years, 1956-1960. A broad variety of mineral commodities is included in the Illinois mineral industry and the production records of these various minerals are tabulated in the accompanying tables. Total quantity figures and total value figures are useful for following the production performance of mineral commodities. For comparing the increase or decrease of each mineral commodity's percentage of the total value of all mineral production in Illinois, the table on page 8 shows the percentage of state total value contributed by the various segments of the Illinois mineral industry. In order to show these percentage values graphically the chart on page 9 illustrates the comparative amounts of value contributed by each commodity group of the Illinois mineral industry to the state total value, 1941-1960.

COMMODITY GROUPS

Fuels. - The value of the fuels—coal, crude oil and associated products—produced in Illinois in 1960 was about 68 percent of the total value of all minerals, compared to a high of 83 percent in 1941.

The annual value of coal produced in Illinois furnishes a substantial portion of the total value of all minerals produced in this state. In 1944 and

1945 coal contributed about 50 percent of the state's total mineral value and averaged about 30 percent during 1954-1960.

Crude oil and its associated products—natural gas, natural gasoline, and liquefied petroleum gases—supplied about 53 percent of the Illinois total mineral value in 1941, but in 1960 this value declined to about 38 percent. The oil production figures on page 4 are for crude oil only, while figures for the value of natural gas, natural gasoline, and liquefied petroleum gases are combined in the total under "Other commodities." However, crude oil and its associated products were combined for figuring their percentage contribution to the state's total mineral value, 1941-1960.


Stone products. - The second largest group of Illinois minerals in terms of total value is stone products, which includes crushed stone, cement, and lime. Production figures for these commodities are given on page 5. Since 1941, when the combined value of these three commodities produced about 6.5 percent of the Illinois total mineral value, the stone products group has grown in value and in 1960 furnished about 15 percent of the state's total mineral value.

Clay products.- The value of clay products in Illinois, as a percentage of the state total mineral value, has maintained a very even record of production over the years. Although the clay products industry supplied only about 4.7 percent of Illinois total mineral value in 1944, the industry has contributed about nine percent or more of the state's total mineral value for many of the years 1941-1960. The value figures given on page 6 are for clay products only. The value of minor amounts of clay as such, for years when it was produced and sold, is grouped with "Other commodities" value. However, the value of these minor amounts of clay are included in the major category of clay and clay products to determine the percentage of value contributed by this group to the state total mineral value, 1941 through 1960.

Sand and gravel. - On page 6 of this report separate production figures for common sand and common gravel for the years 1941-1960 are recorded. The value of silica sand, natural bonded molding sand, and ground siliceous materials is given under the heading "Special sands." For purposes of calculating the percentage of total state value produced by this segment of the Illinois mineral industry, all sand and gravel values have been combined for each year, 1941 through 1960.

Fluorspar and metals. - The fluorspar and metals industries in Illinois, although old and well known, supply relatively small amounts of value to the state's annual total mineral value. The annual production figures for fluorspar, zinc, and lead, 1941-1960, are shown on page 7. Production figures for silver are recorded on page 8 for the same period. Fluorspar and metal values were combined to determine their percentage of the Illinois total annual mineral value for the years 1941 through 1960.

Other commodities. - The figures shown under the heading "Other commodities" are the values of minor amounts of miscellaneous minerals whose production could not be recorded or combined with any of the major mineral commodities tabulated on the following pages. The miscellaneous minerals combined under this category include such items as raw clay, rock wool, natural gas, natural gasoline, liquefied petroleum gases, lime, and other very minor products. During the period 1941-1960 not all of the above-named commodities contributed every year to this miscellaneous grouping. However, when the percentage contribution made by each of the six major mineral groups to the Illinois annual total value was figured, the values of the several miscellaneous minerals were allocated to one of these major groups.



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Summary of Illinois Mineral Production by Commodities, 1941-1960^{a, b}

Year	State total value annual mineral production	Coal			Crude oil			Average per bbl.
		Tons	Value	Average per ton	Barrels	Value	Average per bbl.	
1941	\$333,224,683	55,365,835	\$100,212,000	\$1.81	132,393,000	\$172,100,000	\$1.30	
1942	341,835,444	65,746,204	125,575,000	1.91	106,391,000	144,800,000	1.36	
1943	337,911,551	73,344,761	156,224,000	2.13	82,260,000	112,700,000	1.37	
1944	342,832,317	77,400,031	172,602,000	2.23	77,413,000	107,370,000	1.39	
1945	344,267,070	73,446,930	171,866,000	2.34	75,094,000	105,130,000	1.40	
1946	379,673,186	63,767,082	166,432,000	2.61	75,297,000	119,722,000	1.59	
1947	458,736,783	68,325,241	215,224,000	3.15	66,459,000	139,564,000	2.10	
1948	567,623,654	66,166,805	256,728,000	3.88	64,808,000	179,518,000	2.77	
1949	487,807,686	47,630,380	192,426,000	4.04	64,501,000	178,668,000	2.77	
1950	539,236,400	57,282,303	231,993,000	4.05	62,028,000	171,818,000	2.77	
1951	542,031,000	54,869,679	223,320,000	4.07	60,244,000	166,876,000	2.77	
1952	500,819,600	45,752,588	187,585,600	4.10	60,071,000	166,397,000	2.77	
1953	501,926,200	45,966,114	181,566,200	3.95	59,025,000	171,586,000	2.91	
1954	519,242,267	41,775,752	159,583,373	3.82	66,940,000	200,820,000	3.00	
1955	570,653,395	45,711,555	167,304,290	3.66	81,131,000	237,713,830	2.93	
1956	613,364,460	47,804,040	183,567,514	3.84	82,314,000	242,826,300	2.95	
1957	612,755,172	46,682,889	186,731,556	4.00	76,649,000	239,911,400	3.13	
1958	611,625,000	43,777,130	175,984,063	4.02	80,779,000	242,337,000	3.00	
1959	606,300,000	45,374,626	184,220,982	4.06	76,727,000	230,181,000	3.00	
1960	615,800,000	45,820,632	183,740,734	4.01	77,341,000	230,338,000	2.98	

^a Table based on figures from the Illinois State Geological Survey annual mineral production reports.

^b Subject to revision.

Summary of Illinois Mineral Production by Commodities, 1941-1960 -- Continued^{a, b}

Year	Crushed stone			Cement			Lime			
	Tons	Value	Average per ton	Barrels	Value	Average per bbl.	Tons	Value	Average per ton	
1941	12,206,136	\$11,104,104	\$0.91	6,033,440	\$ 8,799,667	\$1.46	246,278	\$1,723,850	\$ 6.99	
1942	14,006,556	13,014,429	0.93	7,087,400	10,284,111	1.45	314,077	2,266,152	7.21	
1943	11,429,102	10,654,148	0.93	4,504,442	6,965,607	1.55	314,735	2,386,540	7.58	
1944	10,668,128	10,689,477	1.00	3,597,074	5,592,703	1.55	290,988	2,266,539	7.78	
1945	11,122,679	11,340,341	1.02	4,509,932	7,654,876	1.70	287,607	2,228,909	7.75	
1946	16,199,882	17,512,579	1.08	7,069,779	12,421,968	1.76	280,051	2,365,455	8.45	
1947	15,786,379	18,424,089	1.17	7,515,955	14,164,976	1.88	299,187	2,736,262	9.15	
1948	18,593,042	23,379,762	1.26	7,875,758	16,078,433	2.04	283,090	3,000,225	10.60	
1949	17,300,130	21,328,699	1.23	8,200,148	17,340,782	2.11	276,161	3,197,890	11.58	
1950	18,283,655	22,099,967	1.21	8,145,885	17,810,417	2.19	367,485	4,465,413	12.15	
1951	19,005,400	23,082,600	1.20	8,648,647	20,775,900	2.40	462,690	5,878,300	12.70	
1952	22,606,000	28,835,300	1.27	9,042,260	21,663,400	2.40	460,775	5,917,000	12.84	
1953	22,000,000	27,300,000	1.24	9,100,000	23,114,000	2.54	520,000	6,987,000	13.44	
1954	23,089,000	29,400,700	1.27	9,419,600	24,246,500	2.57	532,050	7,420,850	13.95	
1955	24,400,630	29,829,205	1.22	9,397,098	25,031,520	2.66	644,180	9,416,135	14.62	
1956	28,005,490	38,092,089	1.36	9,301,189	27,263,794	2.93	Lime	Value	in	Other ^c
1957	28,140,100	38,750,105	1.38	8,575,129	26,356,365	3.07	"	"	"	"
1958	33,064,789	43,876,091	1.33	9,618,339	30,858,270	3.21	"	"	"	"
1959	31,909,142	41,746,465	1.31	9,924,486	31,793,942	3.20	"	"	"	"
1960	37,032,017	50,978,358	1.38	9,139,300	30,732,000	3.36	"	"	"	"

^a Table based on figures from the Illinois State Geological Survey annual mineral production reports.

^b Subject to revision.

^c Figures on lime production restricted after 1955. Lime value 1956-1960 recorded in "Other commodities" value column.

Summary of Illinois Mineral Production by Commodities, 1941-1960 - Continued^{a,b}

Year	Clay products			Common Sand			Gravel			Special sands ^c	
	Value	Tons	Average per ton	Value	Tons	Average per ton	Value	Tons	Average per ton	Value	Value
1941	\$19,593,325	5,038,032	\$0.45	\$2,249,091	8,336,247	\$0.46	\$3,832,278	8,336,247	\$0.46	\$3,923,270	\$3,923,270
1942	19,624,015	5,469,306	0.48	2,627,665	9,350,636	0.52	4,831,864	9,350,636	0.52	5,391,124	5,391,124
1943	17,254,351	3,552,391	0.50	1,763,612	6,789,760	0.49	3,348,897	6,789,760	0.49	6,394,566	6,394,566
1944	15,076,524	2,956,570	0.49	1,450,369	6,057,765	0.49	2,968,300	6,057,765	0.49	5,930,270	5,930,270
1945	18,577,913	3,306,383	0.49	1,708,718	6,093,060	0.49	2,975,805	6,093,060	0.49	4,854,100	4,854,100
1946	32,197,366	4,830,604	0.59	2,851,548	10,259,669	0.57	5,809,757	10,259,669	0.57	4,742,883	4,742,883
1947	32,740,735	4,535,616	0.69	3,110,206	8,275,141	0.58	4,818,399	8,275,141	0.58	6,141,706	6,141,706
1948	43,406,183	5,738,402	0.72	4,133,668	9,353,275	0.65	6,059,445	9,353,275	0.65	6,661,154	6,661,154
1949	37,081,260	6,767,406	0.74	5,007,363	8,510,918	0.65	5,516,198	8,510,918	0.65	6,034,859	6,034,859
1950	47,155,311	6,467,478	0.74	4,777,106	9,763,933	0.68	6,687,958	9,763,933	0.68	7,428,555	7,428,555
1951	53,594,300	6,607,153	0.74	4,854,700	8,521,200	0.75	6,398,500	8,521,200	0.75	9,066,000	9,066,000
1952	43,351,400	6,822,660	0.72	4,924,600	8,758,635	0.71	6,253,800	8,758,635	0.71	8,675,600	8,675,600
1953	46,160,400	6,882,850	0.74	5,108,500	8,108,750	0.76	6,166,200	8,108,750	0.76	8,703,200	8,703,200
1954	47,200,625	8,050,990	0.73	5,911,535	11,991,625	0.78	9,350,965	11,991,625	0.78	10,283,200	10,283,200
1955	54,855,665	7,750,860	0.77	5,996,735	10,637,000	0.85	8,990,175	10,637,000	0.85	10,782,275	10,782,275
1956	59,101,572	10,461,300	0.75	7,852,592	12,776,606	0.83	10,570,480	12,776,606	0.83	12,056,475	12,056,475
1957	60,671,157	9,424,163	0.77	7,252,004	12,817,007	0.86	11,018,425	12,817,007	0.86	11,264,529	11,264,529
1958	55,276,000	11,461,532	0.90	10,360,460	16,578,457	0.95	15,696,087	16,578,457	0.95	9,420,987	9,420,987
1959	58,343,921	10,977,478	0.90	9,895,321	14,075,667	0.91	12,829,862	14,075,667	0.91	10,396,376	10,396,376
1960	56,621,065	11,988,786	0.89	10,633,054	14,615,153	0.94	13,694,589	14,615,153	0.94	9,818,110	9,818,110

^a Table based on figures from the Illinois State Geological Survey annual mineral production reports.

^b Subject to revision.

^c Includes silica sand, natural bonded molding sand, and ground siliceous materials.

Summary of Illinois Mineral Production by Commodities, 1941-1960 - Continued^{a, b}

Year	Fluorspar			Zinc			Lead		
	Tons	Value	Average per ton	Tons	Value	Average per ton	Tons	Value	Average per ton
1941	133,333	\$3,047,247	\$22.85	9,198	\$1,379,700	\$150.00	2,376	\$	\$114.00
1942	161,949	4,306,750	26.59	9,389	1,746,354	186.00	2,344	314,096	134.00
1943	198,789	6,292,789	31.66	5,851	1,263,816	216.00	2,043	306,450	150.00
1944	176,259	5,954,991	33.79	7,262	1,655,736	228.00	1,971	315,360	160.00
1945	147,251	5,014,807	34.06	8,310	1,911,300	230.00	3,005	516,860	172.00
1946	154,525	5,493,642	35.55	8,798	2,146,712	244.00	3,865	842,570	218.00
1947	167,157	6,148,654	36.78	10,073	2,437,666	242.00	2,325	674,250	290.00
1948	172,561	6,322,246	36.64	12,980	3,452,680	266.00	3,695	1,322,810	358.00
1949	120,881	4,621,733	38.23	18,157	4,502,936	248.00	3,824	1,208,384	316.00
1950	154,623	6,110,765	39.52	26,982	7,500,996	278.00	2,729	725,914	266.00
1951	204,328	9,294,700	45.49	21,776	7,926,500	364.00	3,160	1,093,364	346.00
1952	188,300	9,481,200	50.35	18,816	6,246,900	332.00	4,262	1,372,400	322.00
1953	163,300	8,567,000	52.46	14,556	3,173,200	218.00	3,391	902,000	266.00
1954	107,830	5,989,219	55.54	14,427	3,116,230	216.00	3,232	885,570	274.00
1955	166,337	7,838,470	47.12	21,700	5,338,200	246.00	4,544	1,354,112	298.00
1956	178,254	8,469,450	47.51	24,039	6,586,686	274.00	3,832	1,203,248	314.00
1957	169,939	8,827,171	51.94	22,185	5,146,920	232.00	2,970	849,420	286.00
1958	152,087	7,930,613	52.15	24,940	5,087,760	204.00	1,610	376,740	234.00
1959	112,469	5,908,307	52.53	26,815	6,167,450	230.00	2,570	591,100	230.00
1960	134,529	6,935,511	51.55	29,550	7,623,900	258.00	3,000	702,000	234.00

^a Table based on figures from the Illinois State Geological Survey annual mineral production reports.
^b Subject to revision.

Summary of Illinois Mineral Production by Commodities, 1941-1960 -- Continued^{a,b}

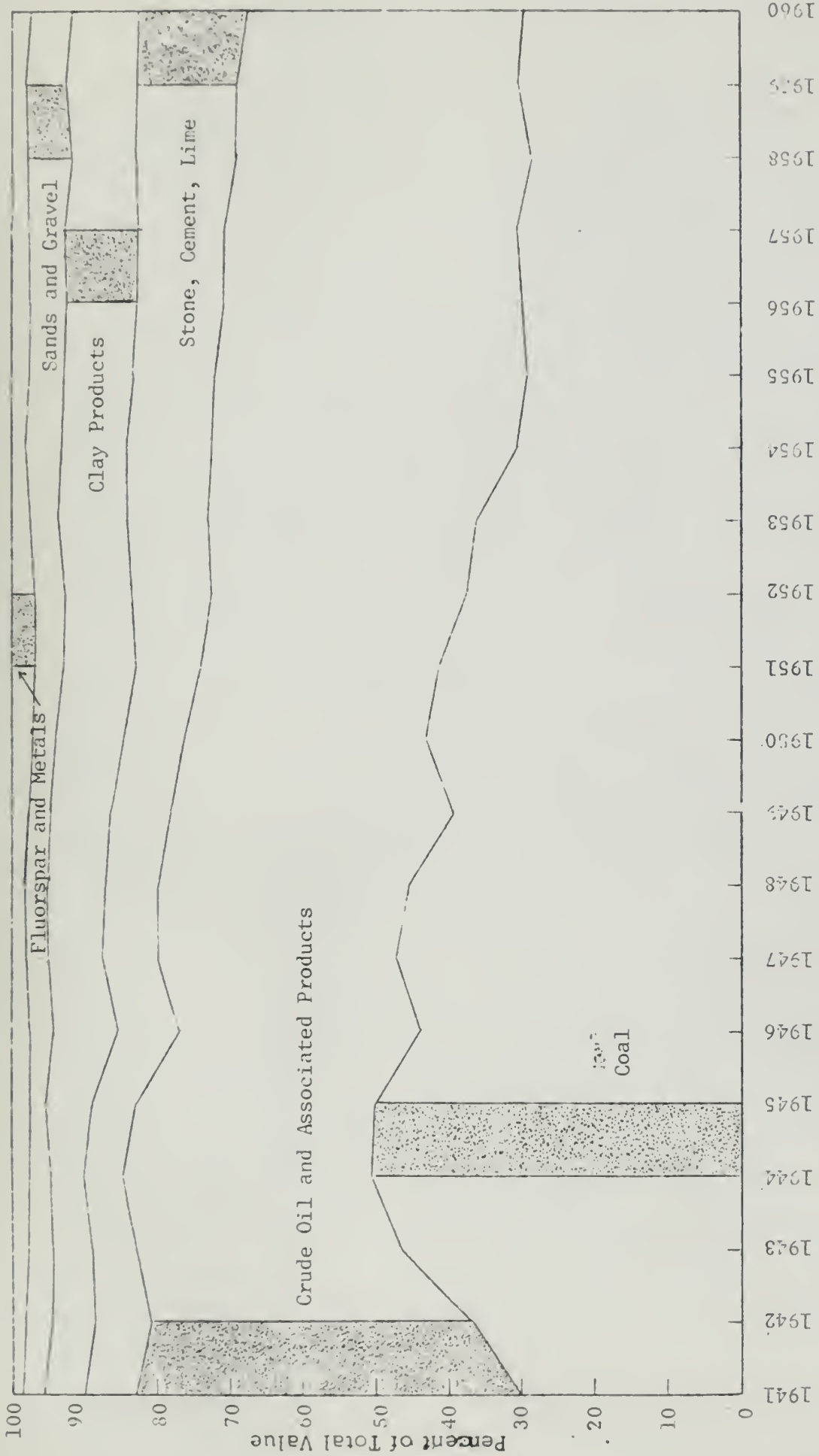
Year	Silver		Average per oz.	Other commodities		Commodity Group Values in Percentage of State Total Mineral Value, 1941-1960 ^c				
	Ounces	Value		Value	Coal	Oil & Stone		Clay	Sand & Gravel	Fluorspar & metals
						Prod.	Prod.			
1941	20,340	\$14,464	\$0.711	\$ 4,974,823	30.1	52.9	6.5	6.1	3.0	1.4
1942	104	74	0.711	7,053,810	36.7	44.2	7.5	5.9	3.8	1.9
1943	2,153	1,531	0.711	12,355,244	46.6	36.3	6.0	5.4	3.4	2.3
1944	2,437	1,733	0.711	10,958,315	50.4	34.2	5.4	4.7	3.0	2.3
1945	2,198	1,563	0.711	10,485,878	49.9	33.3	6.2	5.7	2.7	2.2
1946	2,302	1,860	0.808	7,132,846	43.9	33.2	8.5	8.7	3.5	2.2
1947	1,790	1,620	0.905	12,550,220	46.9	32.9	7.7	7.4	3.1	2.0
1948	4,047	3,663	0.905	17,557,385	45.2	34.5	7.5	7.9	3.0	1.9
1949	3,128	2,831	0.905	10,870,751	39.4	38.7	8.6	7.8	3.4	2.1
1950	2,001	1,811	0.905	10,661,187	43.0	33.6	8.2	9.0	3.5	2.7
1951	3,465	3,136	0.905	9,867,000	41.2	32.6	9.2	9.9	3.7	3.4
1952	3,781	3,400	0.905	10,112,000	37.4	35.2	11.3	8.7	4.0	3.4
1953	2,338	2,100	0.905	12,590,400	36.2	36.7	11.4	9.2	4.0	2.5
1954	1,160	1,050	0.905	15,032,450	30.7	41.6	11.8	9.1	4.9	1.9
1955	3,075	2,783	0.905	15,616,135	29.3	42.7	11.3	9.6	4.5	2.6
1956	1,580	1,430	0.905	15,772,830	30.0	40.6	12.2	9.6	5.0	2.6
1957	No production	"	reported	15,976,120	30.5	40.1	12.3	9.9	4.8	2.4
1958	"	"	"	14,420,929	28.7	40.5	13.7	9.0	5.8	2.3
1959	"	"	"	14,225,274	30.4	38.7	13.7	9.6	5.5	2.1
1960	"	"	"	13,982,679	29.8	38.0	15.0	9.2	5.5	2.5

^a Tables based on figures from the Illinois State Geological Survey annual mineral production reports.

^b Subject to revision.

^c Approximate percentage contributed to state total value by each mineral group per year, 1941-1960.

PERCENTAGE OF TOTAL VALUE CONTRIBUTED BY VARIOUS SEGMENTS OF THE ILLINOIS MINERAL INDUSTRY, 1941-1960



Shaded areas show approximate period when percentage of state total value was greatest for each mineral group, 1941-1960

