MINERALS YEARBOOK, 1953

TABLE 34.—Stone, commercial and noncommercial, sold or used, 1952–53, by uses

	1952		1953	
Use	Quantity	Value	Quantity	Value
Dimension stone: Rough construction and rubbleshort tons_ Rough architectural and dressed stonecubic feet Approximate equivalent in short tons Monuments and mausoleumscubic feet Approximate equivalent in short tons	39, 916 40, 075 3, 259 35, 266 2, 892	\$163, 800 174, 262 254, 777	11, 431 9, 492 776 29, 571 2, 400	\$44, 645 92, 808 148, 823
Flaggingcubic feet_ Approximate equivalent in short tons	7, 529 640	11,000	3, 133 246	4, 617
Total dimension stone (quantities approximate, in short tons)	46,707	603, 839	14,853	290, 893
Crushed and broken stone: Riprap	994, 892 86, 481 9, 984, 529 526, 654 279	404, 843	872, 172 63, 021 10, 434, 506 704, 729	1, 539, 269 185, 092 10, 771, 937 697, 948
Agricultural do Chemical do Miscellaneous ¹ do	506, 661 2, 228, 727	1, 719 1, 210, 942 3, 392, 733	1, 095 614, 076 1, 809, 728	3, 488 1, 896, 794 3, 093, 731
Total crushed and broken stonedo	14, 328, 223	17, 093, 246	14, 499, 327	18, 188, 259
Grand total (quantities approximate, in short tons)	14, 374, 930	17, 697, 085	14, 514, 180	18, 479, 152

¹ Includes whiting or whiting substitute, filler, mineral food, poultry grit, stucco, roofing granules, filter beds, terrazzo, and miscellaneous uses.

Strontium Minerals.—Pan Chemical Co. produced a small tonnage

of celestite in the Fish Mountain district, San Diego County. Sulfur.—Sulfur-ore output in 1953 was the largest ever attained in the State. Other than a relatively small tonnage of sulfur ore mined in Inyo County for soil conditioning, the 1953 California production was from the Anaconda Copper Mining Co. Leviathan openpit mine in Alpine County. The ore, which contained an average of 25 percent sulfur, was shipped to Yerington, Nev., for sulfuric acid manufacture. There was some development during 1953 at a sulfur deposit near Bartlett Springs, Lake County. Brimstone was recovered as a byproduct in the liquid purification of gas by oil companies in Los Angeles County. Hydrogen sulfide having a total sulfur content of 59,175 tons was obtained at oil refineries in the refining process in Los Angeles and Contra Costa Counties. The American Smelting & Refining Co. recovered liquid sulfur dioxide as a byproduct of the smelting of sulfide ores at Selby, Contra Costa County, and sulfur paste and sludge from spent acid were shipped to chemical plants from oil refineries in Contra Costa County.

Talc, Pyrophyllite, and Soapstone.—Production of crude talc, pyrophyllite, and soapstone increased 5 percent in quantity over 1952, but no direct comparison can be made in value, as the 1953 figure is "mine value," and the 1952 value pertains to ground material. Of the total crude California material mined in 1953, 56,750 tons valued at \$679,674 was produced in San Bernardino County (talc and pyrophyllite), 48,006 tons valued at \$382,171 in Inyo County (talc), and the remainder (21,686 tons valued at \$70,855) in Los Angeles County (soapstone), El Dorado County (soapstone), Mono County (pyrophyllite), and Riverside County (pyrophyllite). Grinding mills were

fallagher & Burk. iles, miscellaneous e, near Richmond. s) crushed miscelthe Pacific Coast 4 plants). Other ck & Gravel Co., and Bell Sand & sed principally in

, by counties

n order of value

ım compounds, stone, bro-

s. sand and gravel. ver, pumice.

one, chromite, gold, silver. tungsten concentrate, gold,

nd gravel, peat. e, mercury, gold, silver, d gravel, chromite, copper,

, natural gas, sand and en concentrate, marl, clays,

one, manganese ore, clays,

on dioxide, pumice, stone,

, silver, sodium carbonate. a, clays, perlite, sand and anic cinders, gold, boron

atural gas, boron minerals, ys, gypsum and gypsite, ite, pumice, silver, silica

gas liquids, gypsite, sand

anese ore, chromite.

cinders.

atural gas, sand and gravel c, diatomite, iodine, clays,

, pumice, sand and gravel,

old, tungsten concentrate,

mercury, gold. anic cinders, peat, gold,

clays, pyrophyllite, gold,

, magnesium compounds, und sand, silica (quartz),

ry, diatomite, sand and

per. natural gas, sand and

gold, chromite, asbestos, ese ore, gold, stone, man-

el, clays, gypsum, stone, hyllite.

TABLE 38.—Mineral production in California in 1953, by counties—Continued

County	Value	Minerals produced, in order of value
Sacramento	\$23, 241, 371	Natural gas, sand and gravel, gold, stone, clays, platinum, silver.
San Benito 3	4, 935, 596	Cement, stone, mercury, petroleum, sand and gravel, natural gas, clays.
San Bernardino 3	59, 704, 292	Cement, sodium carbonate, boron minerals, potassium salts, sodium sulfate, sand and gravel, stone, rare-earth metals concentrate, tungsten concentrate, talc and pyrophyllite, salt, calcium-magnesium chloride, iron ore, clays, lime, lithium salts, bromine, petroleum, silica (quartzite), gold, copper, barite, perlite, pumice, feldspar, silver, natural gas, lead, zing, gypsum.
San Diego		Sand and gravel, stone, salt, magnesium compounds, clays, tungsten concentrate, strontium ore, gold, silver.
San Joaquin 3 San Luis Obispo 3		Sand and gravel, natural gas, stone, manganese ore, clays. Petroleum, natural gas liquids, chromite, natural gas, sand and gravel, stone, gyosite, mercury.
San Mateo	7, 941, 478	Cement, stone, magnesium compounds, sand and gravel, gold.
Santa Barbara	97, 004, 337	Petroleum, diatomite, natural-gas liquids, natural gas, sand and gravel, clays, stone, chromite.
Santa Clara	23, 535, 780	Cement, stone, sand and gravel, chromite, mercury, clays, magnesite, petroleum.
Santa Cruz Shasta	6, 378, 618 911, 585	Cement, sand and gravel, stone, potassium salts. Pyrites, sand and gravel, stone, copper, gold, chromite, iron ore, silver.
SierraSiskiyou	760, 584 1, 061, 288	Gold, silver, copper. Chromite, sand and gravel, volcanic cinders, gold, pumice, stone, silver, asbestos, lead.
Solano Sonoma	10, 922, 549 2, 232, 930	Natural gas, stone, clays, sand and gravel. Sand and gravel, stone, mercury, petroleum, manganiferous ore, natural gas, chromite.
StanislausSutter	494, 547 209, 124	Sand and gravel, clays, mercury. Natural gas, clays, sand and gravel.
TehamaTrinity 3	190, 702	Chromite, sand and gravel, stone. Gold, sand and gravel, stone, chromite, manganiferous ore, manganese ore, silver.
Tulare	1, 834, 073	Natural gas, sand and gravel, tungsten concentrate, stone, clays, petroleum, lead, silver, zinc.
Tuolumne 2	972, 399	Lime, stone, sand and gravel, gold, tungsten concentrate, asbestos, silver.
Ventura	163, 698, 504	Petroleum, natural-gas liquids, natural gas, sand and
Yolo Yuba Undistributed	1, 653, 858 1, 957, 386 953, 633	gravel, stone, clays, gypsum. Sand and gravel, natural gas, stone, mercury. Gold, sand and gravel, platinum, silver. Gem stones, stone, tungsten concentrate.
Total	1, 392, 975, 000	

piles for future beneficiation.

ALPINE

Hope Valley District.—Tungsten ore was shipped by Don Burgner (Alpine mine), W. W. Whitney (Empire mine), and Carson Tungsten Co. (Valpine mine) to custom mills.

Monitor (Mogul) District.—Anaconda Copper Mining Co. produced 151,500 long tons of 25-percent sulfur ore from the Leviathan open-pit mine. The material was to be consumed in the sulfuric acid plant of the company Yerington, Nev., acid-leaching copper project.

AMADOR

Cosumnes River District.—C. J. Lorentz operated a dragline and floating washing plant at the Lorentz mine and recovered gold and silver from the gravel. Sand was produced for a State highway project by contractors.

¹ Included with "Undistributed" to avoid disclosure of mine output.
² 1953 mine production of chromite from Calaveras and Tuolumne counties not included. Concentrate was unsold and in stock.

3 Excludes value of manganese and manganiferous ores sold and blended at Government low-grade stock-