

THE MINERALOGICAL MAGAZINE

AND

JOURNAL OF

THE MINERALOGICAL SOCIETY.

No. 119.

December, 1927.

Vol. XXI.

Specific gravities of minerals: an index of some recent determinations.

By L. J. SPENCER, M.A., Sc.D., F.R.S.
Keeper of Minerals in the British Museum
(Natural History).

[Read November 1, 1927.]

AS a first-aid in the identification of non-metallic minerals I have for many years¹ made use of specific gravity, which is a character that can be easily and rapidly determined by the use of heavy liquids. A small, clean fragment of the mineral to be tested is dropped into one or other of a series of tubes containing methylene iodide with various small known crystals as indicators. Adding benzene from a dropping-bottle, the density of the liquid is quickly brought to that of the mineral. This preliminary determination of the specific gravity gives a useful clue as to the nature of the mineral—what it may or may not be; and the same fragment can then be used for confirmatory optical and micro-chemical tests.

The set that I have used consists of eight small glass tubes carried in holes bored in a wooden block measuring 11 × 7 × 6 cm. The methylene iodide is thus protected from the light; and any darkening of the liquid is easily corrected by occasionally leaving a piece of copper wire in the tube. Methylene iodide is expensive, but 1 c.c. or even less is sufficient

¹ L. J. Spencer, *Min. Mag.*, 1897, vol. 11, p. 186.

in each tube. A smaller portable set on the same lines would be useful to prospectors. A similar set of tubes for molten thallium-silver nitrate (sp. gr. 5.0) diluted with water has also been used,¹ but this was found to be much less practical. Clerici's solution,² consisting of an aqueous solution of thallium formate and malonate (sp. gr. 4.0 at 10° and about 5.0 near 100° C.), is said to be convenient for use and has a wider range than methylene iodide (sp. gr. 3.33), but this I have not had the opportunity of trying. For use as indicators in these liquids a large series of clear crystal fragments has been carefully selected, ranging from sylvine (sp. gr. 1.99) to baryte (sp. gr. 4.48). Of these the following have been found to be the most convenient for use in the eight tubes of methylene iodide.

	Sp. gr.		Sp. gr.
No. 1. Chabazite	... 2.12	No. 5. Quartz (Rock-crystal)	2.65
Heulandite	... 2.20	Beryl (Aquamarine)	2.69
Scolecite	... 2.30	Calcite (Iceland-spar)	2.72
No. 2. Gypsum	... 2.32	No. 6. Anorthite	... 2.75
Apophyllite	... 2.35	Dolomite	... 2.85
Colemanite	... 2.42	Aragonite	... 2.94
No. 3. Petalite	... 2.45	No. 7. Phenakite	... 2.98
Leucite	... 2.47	Tourmaline (pink)	... 3.02
		Fluorite	... 3.18
No. 4. Orthoclase	... 2.56	No. 8. Apatite	... 3.20
Nepheline	... 2.60	Axinite	... 3.29
Albite	... 2.64	Dioptase	... 3.32

The position of an unknown fragment between two indicators can be approximately judged from the amount of benzene added to the mixture, or from the times taken for each fragment to rise as the benzene evaporates (this can be accelerated with a blowpipe).

In this connexion I have made constant use of the concise table of specific gravities given as an appendix in Sir Henry A. Miers's 'Mineralogy' (1902, pp. 556-561). That table was compiled mainly from Dana's 'System of Mineralogy' (sixth edition, 1892) and gives an estimated mean value to two places of decimals for each mineral species. The more elaborate table of specific gravities published by M. Websky³ in 1868 is not so clearly set out, and is less convenient for reference. In addition to estimated mean values taken from the text-books he also gave a number of actual values taken from the current literature.

¹ L. J. Spencer, *Min. Mag.*, 1904, vol. 14, p. 48.

² *Min. Abstr.*, vol. 2, p. 487.

³ M. Websky, *Die Mineral-Species nach den für das spezifische Gewicht derselben angenommenen und gefundenen Werthen*. Breslau, 1868, vi + 170 pp.

In the following table only actually determined values of specific gravity are listed. These are from the mineralogical literature for the years 1910-27 and have been collected in the first place from 'Mineralogical Abstracts' (in which the literature for 1915-27 is noticed), supplemented in large part from the International Tables of Constants (covering the literature for 1910-24). A brief reference is given to these in each case, so that it is possible to trace the original source of each determination. The addition of author and date would have been a useful guide, but this would have added considerably to the length of the index. The following abbreviations have been used, and the volumes noted indexed :—

M.A. = Mineralogical Abstracts (issued with the Mineralogical Magazine), vol. 1, 1920-22; vol. 2, 1923-25; vol. 3, 1926-27 (to no. 7, p. 864).

M.M. = Mineralogical Magazine, vol. 15 (no. 72), 1910, to vol. 21 (no. 118), 1927.

T.A. = Tables annuelles de constantes et données numériques de chimie, de physique et de technologie. Paris, Cambridge, and Chicago.

Vol. 1 (année 1910), 1912, pp. 588-559.

„ 2 („ 1911), 1913, pp. 616-621.

„ 3 („ 1912), 1914, pp. 426-433.

„ 4 (années 1913-16), 1922, pp. 1026-1056.

„ 5 („ 1917-22), 1926, pp. 1286-1342.

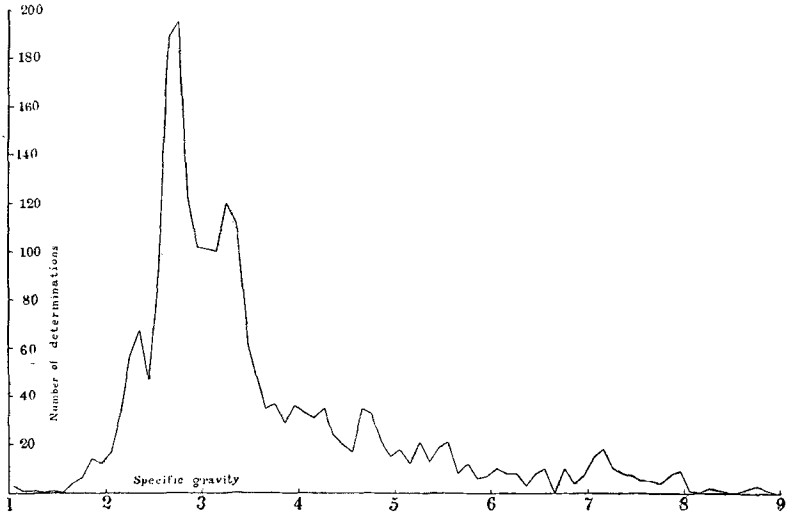
„ 6 („ 1923-24), 1928, pp. 1226-1252.

[The arrangement there being alphabetical according to mineral names, only the volumes, and not the pages, are quoted below. Reprints of the Crystallography and Mineralogy chapters from vols. 3, 4, and 5 have been issued separately.]

The number (2277) of specific gravities collected through these sources is by no means complete for the period mentioned. It represents rather the selection that was made at the time of recording for the Abstracts and for the Tables of Constants. Isolated and doubtful determinations, usually made solely for the purposes of identification, were generally omitted, and preference was given to cases where other constants had been also determined on the same sample of material. Many of these are, however, still open to criticism; and this is especially evident from the minimum and maximum recorded values given in the second table below in the alphabetical list of mineral names. The values are copied as in the original papers, but in a few cases they have been cut down to three places of decimals. Unfortunately it is not always clear from the original papers whether the specific gravity as given is the value compared with water at the temperature of the experiment or the corrected density (weight in grams of 1 c.c. in vacuo).¹

¹ See A. Hutchinson, A graphical method for the rapid correction of specific gravity determinations. *Min. Mag.*, 1924, vol. 20, pp. 198-200, pl. IV; L. Ahlers, *Zeits. Krist.*, 1924, vol. 59, p. 298 [*Min. Abstr.*, vol. 2, p. 874].

The data here given are limited to the direct determinations of specific gravity, and do not include the many values recently determined from crystal-structures as determined by X-ray methods. This method may perhaps come to be of importance in cases where only small amounts of pure material are available for examination. At present, however, some discrepancies are to be noted. For example, the following values have



Frequency-curve of the specific gravity of minerals.¹

been recently and independently given for the density of mercury telluride HgTe (coloradoite): 8.025 (W. Hartwig, 1926), 8.20 (W. F. de Jong, 1926), and 8.42 (W. Zachariasen, 1926).² Still it must be remembered that previous determinations for coloradoite by ordinary methods show far greater variations: 8.627 (F. A. Genth, 1877), 9.21 (E. S. Simpson, 1898), and 8.07 (L. J. Spencer, 1903).³

In the numerical index it will be noticed that there is a great preponderance of determinations between 2.0 and 4.0, nearly three-quarters of the values (1646 out of 2277) falling between these limits. Counting the number of determinations for each tenth of a unit, i.e. those falling between 2.0-2.099, 2.1-2.199, &c., the greatest number (195) is at 2.7-

¹ Forty-four values from the last number (no. 118) of the Magazine are not included in this diagram.

² Min. Abstr., vol. 3, p. 178.

³ Min. Mag., 1903, vol. 13, p. 276.

2.799. The accompanying frequency-curve has been obtained by plotting the number of determinations between these limits as 2.05, 2.15, 2.75, &c. The two smaller peaks at the sides of the remarkable peak at 2.75 correspond with the accidental number of determinations for zeolites and the ferromagnesian rock-forming minerals. The curve rises on the left much more steeply than on the right, and the average for all the values is shifted to the right. An approximate arithmetical mean has been arrived at by reckoning 195 values as 2.75, &c. This gives the average value 3.62. The mode at 2.75 corresponds closely with H. S. Washington's (1920)¹ value of 2.77 (or 2.75) for the average density of the earth's crust. The above average value 3.62 no doubt indicates that the number of determinations made on metallic minerals is greater than the relative abundance of such minerals in the earth's crust.

Numerical Index of determined Specific Gravities of Minerals.

1.03	Retinite . . .	M.A. 3-218	1.885	Inyoite . . .	M.A. 1-410
1.051	" . . .	M.A. 3-218	1.899	Halotrichite . . .	T.A. 3
1.092	Flagstaffite . . .	M.A. 1-123	1.90	Allophane . . .	M.A. 2-470
1.122	Schungite . . .	M.A. 2-191	1.901	Fibroferrite . . .	M.A. 2-40
1.21	Curtisite . . .	M.A. 3-239	1.91	Ulexite . . .	M.A. 1-341
1.43	Hoelite . . .	M.A. 2-10	1.924	Evansite . . .	M.A. 2-142
1.541	Ajkaite . . .	M.A. 3-362	1.929	" . . .	M.A. 3-349
1.645	Tschermigite . . .	M.A. 1-344	1.93	Trudellite . . .	M.A. 3-112
1.664	Tachyhydrite . . .	T.A. 4	1.94	Allophane . . .	T.A. 4
1.665	" . . .	T.A. 1	1.94	Racewinite . . .	M.A. 1-23
1.669	" . . .	M.A. 3-298	1.950	Pisanite . . .	M.A. 1-347
1.718	Alunogen . . .	M.A. 3-354	1.953	Kernite . . .	M.A. 3-272
1.72	" . . .	T.A. 3	1.98	Racewinite . . .	M.A. 1-23
1.735	" . . .	T.A. 3	1.998	Al-phosphate . . .	M.A. 1-262
1.75	Quisquite . . .	T.A. 1	1.999	Delvauxite . . .	M.A. 2-142
—	CaCO ₃ .6H ₂ O (art.)	M.A. 1-166	2.004	Cryptohalite . . .	M.A. 3-309
1.757	Hexahydrite . . .	T.A. 2	2.02	Meerschaum . . .	T.A. 4
1.777	CaCO ₃ .6H ₂ O (art.)	M.A. 2-217	—	Boothite (calc.)	M.A. 1-348
1.807	Halotrichite . . .	T.A. 3	—	Zn-Cu-Melanterite	M.A. 1-121
1.81	Chlorophaeite . . .	M.M. 20-437	2.045	Gmelinite . . .	T.A. 5
1.815	Delvauxite . . .	M.A. 2-142	2.05	Bolivarite . . .	M.A. 1-378
1.830	CaCO ₃ .5H ₂ O (art.)	M.A. 3-165	2.06	Opal . . .	M.A. 2-430
1.833	" . . .	M.A. 3-165	—	Gmelinite . . .	M.M. 17-297
1.835	" . . .	M.A. 3-164	2.07	" . . .	M.M. 17-297
1.84	Pickeringite . . .	M.A. 3-354	2.074	Monoclinic sulphur	M.A. 1-64
1.845	Anthraxolite . . .	M.A. 2-191	2.08	Opal . . .	M.A. 2-430
1.85	Thaumasite . . .	T.A. 2	—	Fibroferrite . . .	T.A. 3
1.875	Inyoite . . .	M.A. 1-410	2.087	Copiapite . . .	M.A. 2-40
1.877	Thaumasite . . .	T.A. 5	2.09	Chabazite . . .	M.M. 17-297
1.879	" . . .	T.A. 5	—	Gmelinite . . .	M.M. 17-297
1.88	Allophane . . .	M.A. 2-470	—	Fibroferrite . . .	T.A. 3

¹ H. S. Washington, Journ. Franklin Inst., 1920, vol. 190, p. 804 [Min. Abstr., vol. 1, p. 160].

2-090 Gmelinite	T.A. 5	2-239 Natrolite	M.A. 2-118
2-10 Ptilolite	M.A. 2-59	— Analcime	T.A. 5
2-102 Flokite = ptilolite	M.A. 1-24	2-24 "	T.A. 4
2-105 Destinezite	M.A. 2-142	— Epinatrolite	T.A. 2
2-11 Paternoite	M.A. 1-150	2-244 Analcime	M.A. 2-58
2-116 Stilbite	M.A. 3-349	2-248 Natrolite	T.A. 5
2-12 Ptilolite	M.A. 2-59	2-249 Heulandite	T.A. 4
2-120 Meyerhofferite	T.A. 4	2-25 Flint (ignited)	T.A. 5
2-125 Mordenite	M.A. 2-301	— Lucianite	M.A. 1-255
2-13 Opal	M.A. 2-111	— Analcime	T.A. 2
2-132 Kainite	T.A. 1	2-252 Scolecite	T.A. 5
2-133 Chabazite	M.A. 3-349	2-254 Analcime	T.A. 3
2-135 Gmelinite	T.A. 5	2-256 Thomsonite	T.A. 4
2-139 Krenzburgite	M.A. 1-125	2-257 Analcime	T.A. 3
2-14 Trona	M.A. 2-47	— Mesolite	T.A. 5
2-148 Mordenite	T.A. 5	2-26 Arduinite	T.A. 4
2-15 Stevensite	M.A. 1-31	2-260 Analcime	T.A. 3
2-150 Ferrierite	M.A. 1-26	— Mesolite	T.A. 5
2-152 Hydrogiobertite	T.A. 1	2-265 Analcime	T.A. 2
— Hydromagnesite	M.A. 2-320	2-267 Tridymite	M.A. 2-160
— Epidesmine	T.A. 4	2-27 "	T.A. 5
— "	T.A. 4	— α -Tridymite (art.)	T.A. 5
— Heulandite	M.M. 15-378	2-270 Tridymite (art.)	T.A. 4
— "	M.M. 15-379	2-272 Laumontite	T.A. 4
— Hydromagnesite	M.A. 1-107	2-279 Scolecite	M.A. 1-153
2-161 Stichtite	T.A. 4	2-28 Oxalite	T.A. 1
2-162 Stilbite	T.A. 5	— 'Zeolite A' (art.)	T.A. 5
2-166 Halite	T.A. 5	2-283 Laumontite	T.A. 5
2-168 Chabazite	M.A. 2-118	2-285 "	M.A. 3-349
2-17 Heulandite	T.A. 4	— Analcime	M.A. 2-58
— 'Zeolite X' (art.)	T.A. 5	2-29 Chalcoalumite	M.A. 2-520
2-172 Stilbite	T.A. 5	— Nontronite	T.A. 4
2-175 Chalcedony (ignited)	T.A. 5	2-290 "	T.A. 4
2-183 Natrolite	T.A. 5	2-291 Paravauxite	M.A. 2-148
2-193 Mordenite	T.A. 5	2-292 Pinnoite	T.A. 1
2-194 Zebedassite	M.A. 1-25	2-295 Sodalite	M.A. 3-280
— Silica glass	T.A. 5	— Nontronite	T.A. 4
2-198 Scolecite	M.A. 3-349	2-299 Thomsonite	T.A. 5
2-2 Analcime (art.)	T.A. 5	2-30 Paravauxite	T.A. 5
2-20 Penwithite	M.A. 3-214	— Ptilolite	M.A. 1-31
— Stevensite	M.A. 1-31	— Sodalite	M.A. 3-118
2-201 Leonite	T.A. 1	— "	M.A. 3-280
2-206 Okenite	M.A. 1-21	2-302 Okenite	M.A. 3-288
2-208 Silica glass	T.A. 6	2-306 Kornelite	M.A. 3-7
2-21 Stilbite	T.A. 4	2-309 Griffithite	M.A. 1-206
2-213 Silica glass	T.A. 5	2-31 Apophyllite	M.A. 15-382
2-215 Natrolite	M.A. 2-118	2-313 γ -Spodumene	T.A. 3
2-216 Graphite	T.A. 1	2-317 β -Spodumene	T.A. 4
— Heulandite	T.A. 5	2-32 Bloedite	T.A. 1
— Glaucochroite	T.A. 1	— Cristobalite (art.)	M.A. 3-165
2-218 Heulandite	M.A. 3-349	— Gypsum	M.M. 16-138
2-219 Analcime	T.A. 3	— 'Zeolite A' (art.)	T.A. 5
2-22 Opal	M.A. 1-139	2-323 Apophyllite	T.A. 4
— Crestmoreite	T.A. 5	— Okenite	M.A. 2-59
— Thomsonite	T.A. 6	2-325 Wavellite	M.A. 1-112
2-223 Analcime	T.A. 3	— Okenite	M.A. 2-59
2-227 "	T.A. 5	2-326 "	M.A. 2-59
2-228 Scolecite	M.A. 3-349	2-33 Cristobalite	T.A. 5
2-231 Analcime	T.A. 3	— " (art.)	T.A. 5
2-235 Epinatrolite	T.A. 2	— Sodalite	M.A. 3-118

2-33	Toadstone-clay	M.M. 20-155	2-414	Petalite	T.A. 4
2-332	Okenite	M.A. 2-59	2-417	Chrysozoolla	T.A. 4
2-338	"	T.A. 5	2-42	Heulandite	T.A. 5
—	Cristobalite (art.)	T.A. 4	—	Laumontite (β -leon-	
2-336	β -Spodumene	T.A. 4	—	hardite)	M.A. 2-178
2-339	Thomsonite	T.A. 5	2-425	Cancrinite	M.A. 3-308
2-34	Davyne	T.A. 4	—	Hydronephelite	M.A. 3-308
—	Magnalite	M.A. 2-54	—	Paradoxite	M.A. 1-392
—	Thomsonite	T.A. 6	2-43	Cancrinite	T.A. 4
2-35	'Zeolite Y' (art.)	T.A. 5	—	Priceite	M.A. 2-319
—	Gyrolite	T.A. 1	2-430	Paradoxite	M.A. 1-392
2-350	Harmotome	M.A. 3-285	2-433	Priceite (pandermit)	
2-355	'Zeolite Z' (art.)	T.A. 5	—		M.A. 2-318
2-36	Cristobalite	M.A. 2-411	2-44	Halloysite	M.A. 1-67
—	Foshagite	M.A. 2-520	—	Bentonite	M.A. 3-72
—	Hamburgite	T.A. 4	2-443	Sulphatic cancrinite	M.A. 1-256
2-365	Pseudo-eucryptite (art.)	T.A. 4	2-45	Halloysite	M.A. 2-112
—	Harmotome	M.A. 3-285	—	Searlesite	M.A. 2-319
2-369	Thomsonite	T.A. 4	—	Vauxite	T.A. 5
2-37	Apophyllite	T.A. 2	—	Radiophyllite	M.A. 2-341
—	"	T.A. 4	2-457	Chrysotile	M.A. 3-100
2-373	β -Spodumene	T.A. 4	—	Pascoite	T.A. 4
2-374	Löweite	T.A. 1	2-46	Cancrinite	T.A. 2
2-375	Vauxite	M.A. 2-148	—	Davyne	M.A. 2-307
2-377	Al-Na-Ca fluoride	T.A. 3	—	Ektropite	M.A. 1-19
2-378	Thomsonite	T.A. 6	—	Hydronephelite	M.A. 3-302
2-379	Apophyllite	T.A. 2	2-463	β -Spodumene	T.A. 4
—	Thomsonite	M.A. 2-118	2-47	Truscottite	M.A. 3-271
2-38	Brucite	T.A. 4	—	Variscite	T.A. 4
—	Jefferisite	M.A. 3-57	—	Cancrinite	T.A. 4
—	Kaolin	M.A. 3-15	2-470	Bardolite	M.A. 2-343
2-385	β -Spodumene	T.A. 4	2-48	Leucite (art.)	T.A. 5
2-386	Chlorite	M.M. 21-76	2-482	Cancrinite	M.A. 3-118
—	Thomsonite	M.A. 3-236	2-487	Davyne	M.A. 3-364
—	"	T.A. 6	2-49	Kaolin	M.A. 2-112
2-388	Spodumene (fused)	T.A. 4	2-492	Davyne	M.A. 3-364
—	Gyrolite	M.A. 3-237	2-495	Ussingite	T.A. 4
2-389	Thomsonite	T.A. 4	2-498	Avogadrite	M.A. 3-238
—	"	T.A. 5	2-5	Neotocite	T.A. 5
2-39	Brucite	T.A. 5	—	Sulphohalite	T.A. 4
—	Petalite	M.M. 20-141	—	Bauxite	M.A. 2-275
2-390	Gyrolite	M.A. 3-237	2-50	Hisingerite	M.A. 3-215
2-393	Chlorite	M.M. 21-76	—	Marialite	M.A. 1-107
2-394	Thomsonite	T.A. 4	—	Uranospathite	M.M. 17-280
2-396	Gyrolite	T.A. 4	—	Allanite	M.A. 2-185
—	Chlorite	M.M. 21-76	2-505	Avogadrite (art.)	M.A. 3-238
2-398	β -Spodumene	T.A. 4	2-506	Marialite	T.A. 5
2-4	Katangite	M.A. 1-250	—	Scapolite	M.A. 2-220
—	Bauxite	M.A. 2-275	2-51	Centrallasilite	M.A. 3-217
2-40	Gyrolite	T.A. 1	—	Colerainite	M.A. 1-9
—	Hydronephelite	M.A. 3-302	—	Leucite (art.)	T.A. 5
2-400	Chrysozoolla	T.A. 4	2-511	Metahewettite	T.A. 4
2-401	β -Spodumene	T.A. 4	2-518	Carnegieite (art.)	T.A. 3
2-405	Calcio-thomsonite	M.A. 2-361	—	"	M.A. 1-167
2-408	Chrysozoolla	T.A. 4	2-52	Epichlorite	M.M. 20-63
2-41	Cancrinite	T.A. 4	—	Lucinite	T.A. 4
2-410	Petalite	T.A. 4	2-524	Anauxite	M.A. 2-306
—	β -Spodumene	T.A. 3	2-528	Nepherine (art.)	T.A. 5
2-411	"	T.A. 4	—	Serpentine	M.A. 2-212
2-412	"	T.A. 4	2-53	Radiophyllite	T.A. 6

2-53	Lucinite	T.A. 4	2-582	Sanidine	T.A. 4
2-533	Titano-elpidite	M.A. 3-235	2-584	Anorthoclase	T.A. 4
2-536	Orthoclase (calc.)	M.A. 2-374	2-585	Cordierite	T.A. 4
2-54	Orthoclase	T.A. 5	2-59	Anorthoclase	M.A. 2-76
—	Variscite	T.A. 3	—	Bertrandite	M.M. 17-17
—	μ -CaCO ₃ (art.)	M.A. 1-166	—	Kämmererite	M.A. 3-57
—	Lithomarge	M.A. 2-135	—	Nepheline	M.A. 3-364
—	Iddingsite	M.A. 3-121	—	Kaolin	T.A. 6
2-545	Beryl	T.A. 5	2-590	Parsettensite	M.A. 2-251
2-548	Kaolin	M.A. 1-205	2-592	Microperthite	T.A. 2
2-55	Chalcedony	M.A. 1-414	2-593	Cordierite	T.A. 1
—	—	T.A. 5	2-595	Microcline	T.A. 5
—	Orthoclase (art.)	T.A. 5	—	Microcline-microperthite	M.A. 1-90
—	Serpentine	M.A. 2-112	—	Microperthite	T.A. 4
—	Lithomarge	M.A. 2-135	2-597	Bertrandite	T.A. 4
—	Rivaite	T.A. 4	2-598	Cordierite	M.M. 20-248
2-554	Hewettite	T.A. 4	2-6	Beryl	T.A. 5
—	Microcline	M.A. 2-125	—	Ferronatrinite	T.A. 5
2-558	Microcline-perthite	M.A. 3-155	—	Collophane	M.A. 1-413
2-56	Kaliophilite	T.A. 4	2-60	Bertrandite	M.A. 2-112
—	Lithidionite	T.A. 4	—	Camellite	M.A. 2-565
—	Microcline	T.A. 4	—	Cordierite	M.A. 1-67
—	Microcline-microperthite	M.A. 2-112	—	Mizzonite	T.A. 1
—	Rivaite	T.A. 4	—	Nepheline	T.A. 4
—	Variscite	M.A. 1-109	—	Radiophyllite	M.A. 2-341
2-560	Marialite	T.A. 1	—	Anorthoclase	T.A. 4
—	Titano-elpidite	M.A. 3-235	—	Prochlorite	T.A. 6
2-561	Orthoclase	T.A. 4	2-600	Cordierite	T.A. 4
2-562	Microcline	T.A. 1	—	Orthoclase (moonstone)	M.A. 1-134
—	—	M.A. 2-224	2-602	Anorthoclase	M.M. 20-336
2-564	Orthoclase	T.A. 4	2-603	Albite	M.A. 2-400
—	Sanidine	M.A. 2-223	—	Cordierite	T.A. 4
2-565	Leifite	M.A. 1-123	2-604	Bertrandite	T.A. 2
2-566	Microcline	M.A. 2-305	2-605	Cordierite	T.A. 4
2-568	Sanidine	T.A. 3	—	Albite	M.A. 2-435
—	—	T.A. 4	—	Anorthoclase	M.M. 20-336
2-57	Adularia	T.A. 4	2-606	Albite-oligoclase	T.A. 6
—	Chalcedony	M.A. 1-414	—	Anorthoclase	M.A. 1-90
—	Chrysotile	T.A. 5	2-61	Kaliophilite	M.A. 3-364
—	Hörnseite	T.A. 5	—	Chalcedony	T.A. 5
—	Microcline-microperthite	M.A. 2-112	—	Serpentine	M.A. 3-207
—	Microcline	M.A. 2-125	—	Flint	T.A. 5
—	Variscite	M.A. 1-109	2-610	Albite	T.A. 4
2-570	Adularia	M.A. 1-90	—	Nepheline	M.A. 3-303
2-571	Cordierite	T.A. 4	—	Scapolite	T.A. 4
—	Natron-sanidine	T.A. 1	2-611	Albite (calc.)	M.A. 2-374
2-573	Kieserite	T.A. 1	2-612	Oligoclase	T.A. 5
2-575	Sanidine	T.A. 5	—	Scapolite	M.A. 3-348
2-576	Microcline (amazonite)	T.A. 1	2-613	Albite	T.A. 4
2-578	Leifite	M.A. 1-123	—	Antigorite	M.A. 2-212
2-579	Microcline	T.A. 4	2-614	Ralstonite	T.A. 3
—	Syngenite	T.A. 4	2-615	Potash-oligoclase	M.M. 20-332
2-58	Kaolin	M.A. 3-15	2-616	Albite	T.A. 4
—	Anorthoclase	T.A. 4	—	Beryl	T.A. 4
—	Serpentine	M.A. 3-207	—	Marialite	T.A. 5
2-581	Cordierite	T.A. 4	2-617	Avogadrite	M.A. 3-238
2-582	'Killinite'	M.A. 3-216	2-618	Albite	M.A. 2-435
—	Orthoclase	M.A. 1-90	2-619	Afwillite	M.M. 20-284

2-619	Albite	T.A. 4	2-653	Oligoclase	T.A. 5
—	Gajite	T.A. 2	2-654	Quartz	T.A. 4
—	Pennine	M.M. 16-266	2-655	Xonotlite	M.A. 2-531
—	Soda-nepheline (art.)	T.A. 3	2-657	Clinochlore	M.A. 3-57
—	"	M.A. 1-167	2-658	α -Catapleiite	M.A. 2-385
2-62	Albite	T.A. 4	—	Scapolite	M.A. 3-348
2-620	Potash-oligoclase	M.M. 20-332	2-659	Leuchtenbergite	M.A. 2-213
—	Albite-oligoclase	T.A. 6	—	Pyrophyllite	T.A. 4
2-622	Albite	T.A. 4	2-66	Oligoclase	T.A. 4
—	"	T.A. 5	2-660	Cordierite	T.A. 4
—	Oligoclase	T.A. 5	—	Scapolite	T.A. 1
2-623	Albite	M.A. 1-281	2-661	Beryl	M.A. 3-310
2-624	"	M.A. 2-64	—	Pennine	M.A. 2-215
—	"	T.A. 6	2-662	Scapolite	M.A. 3-348
2-625	"	M.A. 2-435	2-663	Andesine	M.A. 3-35
—	"	M.A. 3-155	2-664	Beryl	M.A. 1-111
—	Potash-oligoclase	M.M. 20-332	—	Nepheline	M.A. 3-118
—	Couzeranite	T.A. 1	2-665	Andesine	T.A. 5
2-626	Albite	T.A. 4	2-666	Rumpfite	T.A. 2
—	Beryl	T.A. 1	2-667	Eucryptite	T.A. 4
2-627	Albite	T.A. 6	—	Andesine	T.A. 5
2-628	Beryl	T.A. 4	2-668	"	M.A. 3-35
2-629	Albite-oligoclase	T.A. 6	2-669	Beryl	T.A. 4
2-63	Albite	M.A. 3-292	2-67	Alunite	M.A. 1-378
—	Alunite	M.A. 1-379	—	Andesine	M.A. 1-281
—	Anorthoclase	T.A. 5	—	Beryl	M.A. 2-287
—	K-Na-felspar	M.A. 2-75	—	Kämmererite	M.A. 3-57
—	Chalcedony	T.A. 5	—	Prochlorite	M.A. 3-56
—	Flint	T.A. 5	—	Scapolite	M.A. 1-12
2-630	Afwillite	M.M. 20-284	—	Thenardite	M.A. 2-562
2-631	Oligoclase	M.A. 2-305	2-671	Andesine	T.A. 5
—	Albite	T.A. 6	—	Beryl	T.A. 4
2-632	Scapolite	T.A. 4	—	Ekmannite	M.A. 2-476
2-633	"	M.A. 3-348	2-672	Oligoclase	T.A. 4
2-634	Albite	T.A. 6	—	Marialite	T.A. 5
2-638	Beryl	T.A. 4	2-673	Clinochlore	M.A. 3-57
—	Quartz sand	T.A. 6	—	Andesine	T.A. 5
2-639	Marialite	T.A. 5	2-674	$Ab_{35}An_{65}$ (art.)	T.A. 1
2-64	Riversideite	T.A. 5	—	Beryl	T.A. 4
2-640	Oligoclase-albite	T.A. 2	2-675	Andesine	M.A. 3-79
2-644	Rhodochrome	M.A. 2-215	—	Beryl	T.A. 4
2-645	Beryl	M.A. 2-139	2-676	"	T.A. 4
—	Nepheline	T.A. 5	—	Scapolite	T.A. 1
2-646	Oligoclase	T.A. 5	—	"	M.A. 3-348
—	"	M.A. 3-292	—	Al-Na-fluoride	T.A. 3
2-647	Beryl	M.A. 2-139	2-678	Allanite	T.A. 4
—	Nepheline	T.A. 5	—	Vivianite	M.A. 3-50
2-648	Leuchtenbergite	M.A. 2-213	2-679	Beryl	T.A. 4
—	Emerald	M.A. 3-298	—	Clinochlore	M.A. 2-215
2-649	Quartz	T.A. 2	2-68	Albite	T.A. 4
2-65	Leuchtenbergite	M.A. 2-215	—	Allanite	T.A. 4
—	Lublinite	T.A. 4	—	Beryl	M.A. 1-332
—	Mn-silicate	M.A. 1-389	—	Pseudonepheline	T.A. 1
—	Nepheline	M.A. 1-108	—	Scapolite	M.A. 2-178
—	Potash-nepheline (art.)	T.A. 3	2-681	Parsettsentite (errite)	M.A. 2-251
—	Quartz	T.A. 5	—	"	M.A. 2-215
—	Patronite	T.A. 1	2-682	Pennine	T.A. 4
2-651	Quartz	M.A. 2-374	—	Anorthite (fused)	T.A. 4
2-652	Beryl	M.A. 2-139	2-683	"	T.A. 4
—	Nepheline	T.A. 5	2-684	Anemousite "	T.A. 1

2-685	Beryl	T.A. 4	2-710	Ab ₁₅ An ₈₅ (art.)	T.A. 1
—	Eakleite	M.A. 1-206	—	Gearksutite	M.M. 19-32
2-686	Labradorite	M.A. 3-292	—	Scapolite	T.A. 4
2-688	Albite	T.A. 4	—	Beryl	T.A. 3
—	Scapolite	T.A. 5	2-711	Scapolite	M.A. 2-126
2-689	Labradorite	T.A. 5	—	Beryl	T.A. 1
—	Beryl	T.A. 4	—	—	T.A. 3
—	—	T.A. 3	2-712	—	T.A. 3
2-69	Allanite	T.A. 4	—	—	T.A. 4
—	Ascharite	T.A. 1	—	Ab _{12.5} An _{87.5}	M.A. 2-433
—	Labradorite	T.A. 4	2-713	Beryl	T.A. 3
—	Lanthanite	T.A. 1	—	—	T.A. 1
2-690	Labradorite	T.A. 4	—	Creedite	M.A. 1-417
2-692	Beryl	T.A. 3	—	Calcite	T.A. 4
—	Scapolite	M.A. 3-348	—	Scapolite	T.A. 1
—	—	M.A. 2-220	2-714	Beryl	T.A. 1
—	Marialite	T.A. 5	—	Halloysite	T.A. 5
—	Biotite	T.A. 4	—	Myeline	M.A. 1-264
2-693	Beryl	T.A. 3	—	Ab _{12.5} An _{87.5} (art.)	T.A. 1
—	—	M.A. 2-139	—	Beryl	T.A. 3
—	Labradorite	T.A. 5	2-715	—	T.A. 3
—	Pseudophite	M.M. 20-242	—	Gearksutite	M.M. 19-32
—	Vivianite	M.A. 2-475	—	Scapolite	M.A. 2-267
2-694	Beryl	T.A. 4	2-716	—	T.A. 5
—	Emerald	M.A. 3-298	—	Beryl	T.A. 3
2-695	Labradorite	T.A. 4	—	—	T.A. 1
—	Pseudophite	T.A. 6	2-717	—	T.A. 3
2-697	Quartz	T.A. 4	—	Calcite	T.A. 5
—	Allanite	T.A. 4	2-718	Beryl	T.A. 3
—	Beryl	T.A. 4	—	—	T.A. 4
2-698	—	T.A. 4	—	—	T.A. 2
—	Labradorite	T.A. 4	—	—	T.A. 1
—	Scapolite	T.A. 5	—	Labradorite	T.A. 1
—	—	T.A. 4	2-719	Beryl	T.A. 1
2-699	Calcite	T.A. 5	—	—	T.A. 2
2-7	Aphthitalite	T.A. 5	—	—	T.A. 3
2-70	Calcite	M.A. 3-192	—	—	T.A. 4
—	Glauconite	M.M. 19-330	2-72	Calcite	M.A. 3-266
—	Na-K-alunite	M.A. 3-206	—	Phosphorite	M.A. 2-92
—	Ab ₂₅ An ₇₅ (art.)	T.A. 1	2-720	Calcite	T.A. 5
—	Scorodite	T.A. 6	—	Beryl	T.A. 3
2-701	Beryl	T.A. 4	—	—	T.A. 4
—	—	M.A. 3-310	—	Gearksutite	M.M. 19-32
2-702	—	M.A. 2-139	—	Scapolite	T.A. 4
—	Scapolite	T.A. 5	2-721	Anorthite (cyclopit)	M.A. 2-62
—	Sheridanite	T.A. 3	—	Beryl	T.A. 3
2-703	Beryl	T.A. 1	—	—	T.A. 3
—	—	T.A. 3	2-722	—	T.A. 5
—	Anorthite	T.A. 1	—	Scapolite	T.A. 1
2-705	Beryl	M.A. 2-139	—	Ab ₁₀ An ₉₀ (art.)	T.A. 1
—	Eakleite	M.A. 1-206	—	Calcite	T.A. 4
—	—	T.A. 5	2-724	Allanite	T.A. 4
—	Labradorite	T.A. 5	—	Calcite	T.A. 5
—	—	T.A. 6	2-725	Beryl	T.A. 4
2-706	Beryl	T.A. 4	—	—	M.A. 1-76
—	Labradorite	M.M. 16-269	2-726	Alunite	M.A. 3-56
2-708	Ab ₂₀ An ₈₀ (art.)	T.A. 1	—	Phosphosiderite?	M.A. 1-417
2-709	Emerald	M.A. 3-298	2-727	Beryl	T.A. 4
—	Beryl	T.A. 3	2-729	Anorthite	T.A. 1
2-71	Patronite	T.A. 1	—	Scapolite	T.A. 5

2-729	Beryl	T.A. 3	2-764	Beryl	T.A. 3
2-73	"	T.A. 1	—	Scapolite	T.A. 5
—	Calcite (plumbocalcite)	T.A. 5	2-765	Beryl	T.A. 3
—	Dolomite-rock	M.A. 1-75	2-768	Gearsutite	M.A. 1-205
—	Glauconite	M.A. 1-419	—	Sulphate-scapolite	T.A. 5
2-730	Creedite	M.A. 1-205	2-769	Calcite	T.A. 4
—	Scapolite	T.A. 4	2-77	average for earth's crust	
2-731	Beryl	T.A. 3	—	Allanite	M.A. 1-160
2-732	"	T.A. 3	—	Amesite	T.A. 4
2-735	Leuchtenbergite	M.A. 3-57	—	Diabantite	M.A. 1-71
2-736	Beryl	T.A. 4	—	Diabantite	M.A. 1-171
—	Pectolite	M.A. 3-25	2-770	Beryl	T.A. 3
—	Scapolite	T.A. 1	2-771	Sulphate-scapolite	T.A. 5
2-737	Phlogopite	M.A. 3-82	2-772	"	T.A. 5
—	Beryl	T.A. 3	—	Beryl	T.A. 3
2-738	"	T.A. 1	2-774	Cryolithionite	T.A. 3
—	"	T.A. 3	2-775	Beryl	T.A. 3
2-739	"	T.A. 4	2-78	Sulphate-scapolite	T.A. 5
2-74	"	T.A. 4	—	Bentonite	M.A. 3-72
—	Scapolite	M.A. 2-220	2-780	Pinite	M.A. 1-422
—	Lanthanite	T.A. 1	2-782	Beryl	T.A. 3
2-740	Beryl	T.A. 4	2-783	Hydrophlogopite	T.A. 6
—	Ab ₅ An ₉₅ (art.)	T.A. 1	2-784	Beryl	T.A. 3
2-741	Allanite	T.A. 4	2-785	"	T.A. 1
—	Scapolite	T.A. 5	—	Diabantit.	T.A. 5
—	Calcite	T.A. 4	2-786	Phlogopite	T.A. 6
2-742	Beryl	T.A. 3	2-787	Clinochlore	M.A. 2-215
—	Scapolite	T.A. 5	—	Manganophyllite	M.A. 2-424
2-743	Beryl	T.A. 3	2-79	Beryl	T.A. 1
—	Manganophyllite	M.A. 2-424	—	Biotite	M.A. 2-112
2-744	Anorthite	T.A. 5	—	Diabantite	M.M. 20-152
—	Calcite	T.A. 5	—	Pectolite	M.A. 1-398
2-745	Beryl	T.A. 3	2-791	Phlogopite (calc.)	M.A. 2-425
2-746	Anorthite	T.A. 5	2-792	Dolomite	T.A. 5
—	Beryl	T.A. 3	—	Phlogopite	T.A. 6
2-748	"	T.A. 1	2-793	Manganophyllite	M.A. 2-424
—	"	T.A. 3	2-797	Muscovite	T.A. 6
—	Sulphate-scapolite	M.A. 1-284	2-798	Sericite	M.M. 16-264
2-749	Beryl	T.A. 4	2-799	Lepidolite	T.A. 1
2-75	"	T.A. 2	2-8	Limnrite	M.M. 18-340
—	Emerald	M.A. 2-5	2-80	Bazzite	M.A. 1-204
—	Jurupaite	M.A. 1-254	—	Beryl	T.A. 1
—	Phlogopite	M.A. 2-126	—	Iddingsite	M.A. 3-121
2-750	Scapolite	T.A. 5	2-800	Beryl	T.A. 3
—	Beryl	T.A. 4	2-801	Lepidolite (calc.)	M.A. 2-425
2-751	"	T.A. 4	2-802	Muscovite (calc.)	M.A. 2-425
2-752	Anorthite (calc.)	M.A. 2-374	2-803	Muscovite	T.A. 4
—	Beryl	T.A. 3	—	Tabergite	M.A. 2-215
2-754	Anorthite (art.)	T.A. 1	—	Lepidolite	T.A. 1
2-755	Calcite	T.A. 5	2-806	Beryl	T.A. 3
—	Sulphate-scapolite	M.A. 1-284	2-808	"	T.A. 3
2-757	Anorthite	T.A. 4	2-809	Muscovite	M.A. 3-356
2-758	"	T.A. 4	2-81	Beryl	T.A. 2
—	Beryl	T.A. 3	—	Manganocalcite	M.A. 2-360
2-76	Szajbelyite	M.A. 3-316	—	Phlogopite	M.A. 2-126
2-760	Anorthite	M.A. 1-281	2-812	Beryl	T.A. 3
—	Manganophyllite	M.A. 2-424	2-815	Meionite	T.A. 1
2-761	Pectolite	M.A. 3-25	2-816	Muscovite	T.A. 4
2-762	Anorthite	T.A. 5	—	Phlogopite	T.A. 6
2-763	"	T.A. 5	2-819	Allanite	T.A. 4

2-819	Huronite . . .	M.A. 2-238	2-869	Phlogopite . . .	M.A. 3-82
2-82	Beryl . . .	T.A. 1	2-87	Dolomite . . .	T.A. 5
—	Calcite . . .	T.A. 5	—	Sourmansite . . .	T.A. 1
—	Glauconite . . .	M.A. 1-419	2-870	Beryl . . .	T.A. 4
2-820	Beryl . . .	T.A. 3	—	Prochlorite . . .	M.A. 3-25
—	Lepidolite . . .	T.A. 6	2-872	Damourite . . .	M.A. 3-155
2-821	Muscovite . . .	T.A. 6	—	Dolomite . . .	T.A. 5
2-829	Dolomite . . .	M.A. 3-130	2-875	Muscovite . . .	T.A. 6
2-83	Muscovite . . .	M.A. 3-214	—	Prehnite . . .	T.A. 5
2-831	Beryl . . .	T.A. 4	2-876	Muscovite . . .	T.A. 6
—	Phlogopite . . .	M.A. 3-32	2-88	Dolomite . . .	M.A. 1-75
2-832	Talc . . .	T.A. 6	—	Prehnite . . .	M.M. 16-217
2-834	Pectolite . . .	M.A. 2-528	—	Salmsonite . . .	T.A. 3
—	Dolomite . . .	T.A. 4	2-880	Beryl . . .	T.A. 1
2-835	Beryl . . .	T.A. 4	—	" . . .	T.A. 3
—	Muscovite . . .	T.A. 6	2-881	Corundophyllite . . .	M.A. 2-215
2-837	Lepidolite . . .	T.A. 6	—	Lepidolite . . .	T.A. 6
2-838	Muscovite . . .	T.A. 6	—	Beryl . . .	T.A. 3
2-839	Phlogopite . . .	T.A. 6	—	Dolomite . . .	T.A. 5
2-84	Beryl . . .	M.A. 3-205	2-882	" . . .	M.A. 1-350
—	Eudialyte . . .	M.A. 2-264	—	Stilpnomelane . . .	M.A. 2-568
—	Sincosite . . .	M.A. 2-381	—	Muscovite . . .	T.A. 4
—	Strengite . . .	T.A. 4	2-883	" . . .	T.A. 6
—	Turquoise . . .	T.A. 3	2-884	Prehnite . . .	T.A. 5
2-842	Lepidolite . . .	M.A. 1-352	2-885	Ferrisymplesite . . .	M.A. 2-382
2-843	Muscovite . . .	T.A. 6	—	Fe-muscovite (calc.) . . .	M.A. 2-425
2-844	Xanthoxenite . . .	M.A. 1-125	2-886	Beryl . . .	T.A. 4
2-846	Muscovite . . .	M.A. 3-356	2-887	Dolomite . . .	T.A. 5
2-847	Beryl . . .	T.A. 2	—	" . . .	T.A. 4
—	" . . .	T.A. 3	2-889	" . . .	T.A. 5
2-848	" . . .	T.A. 4	2-89	" . . .	T.A. 5
2-849	Dolomite . . .	T.A. 5	—	Fluoborite . . .	M.A. 3-110
2-85	" . . .	M.A. 1-75	—	Prehnite . . .	T.A. 4
—	Muscovite . . .	M.A. 3-214	—	Viridite . . .	M.A. 1-255
—	Stilpnomelane . . .	M.M. 20-194	—	Boracite (stassfurtite) . . .	T.A. 1
2-850	Muscovite . . .	T.A. 6	2-890	Dolomite . . .	T.A. 4
—	Braunite . . .	T.A. 4	—	" . . .	T.A. 5
2-855	Muscovite . . .	T.A. 6	2-891	" . . .	T.A. 4
2-856	" . . .	T.A. 6	—	Muscovite . . .	T.A. 4
2-857	Pectolite . . .	M.A. 3-285	2-897	Biotite . . .	T.A. 6
2-86	Beryl . . .	T.A. 1	—	Manganophyllite . . .	M.A. 2-424
—	Eudialyte . . .	M.A. 2-264	—	Wollastonite . . .	T.A. 5
—	Minguetite . . .	T.A. 1	2-9	Collophane . . .	M.A. 1-413
—	Phosphorite . . .	M.A. 2-92	2-90	Dolomite . . .	M.A. 1-75
—	Strengite . . .	M.A. 1-417	—	Hyalophane . . .	M.A. 3-312
—	'Rare-earth zeolite' . . .	M.A. 2-263	—	Prochlorite . . .	T.A. 6
—	Scorodite . . .	T.A. 6	—	Beraunite . . .	T.A. 4
2-860	Dolomite . . .	T.A. 4	2-900	Dolomite . . .	M.A. 3-59
2-861	Aragonite . . .	M.A. 2-476	—	Prehnite . . .	M.A. 3-285
2-863	Monetite . . .	M.A. 3-126	2-901	Dolomite . . .	T.A. 5
2-865	Dolomite . . .	T.A. 4	2-904	Aragonite . . .	M.M. 20-417
—	" . . .	T.A. 5	—	Prehnite . . .	T.A. 5
—	Manganophyllite . . .	M.A. 2-424	2-906	" . . .	M.A. 1-48
—	Dolomite . . .	T.A. 4	2-907	Annabergite . . .	M.A. 2-382
2-867	" . . .	T.A. 5	—	Dolomite . . .	T.A. 4
2-868	" . . .	T.A. 5	2-91	Custerite . . .	T.A. 4
—	" . . .	T.A. 4	—	Dolomite . . .	T.A. 5
2-869	" . . .	T.A. 5	—	Boracite (stassfurtite) . . .	T.A. 1
--	Lepidolite . . .	M.A. 2-401	—	Beraunite . . .	T.A. 4

2-910	Beryl	T.A. 3	2-975	Ripidolite	T.A. 4
2-912	Wollastonite (art.)	T.A. 4	2-976	Pachnolite	T.A. 3
—	Dolomite	T.A. 5	2-978	Tourmaline	T.A. 1
2-913	Actinolite	T.A. 4	2-98	Justite	M.A. 2-22
2-914	Prehnite	M.A. 1-48	—	Phenakite	M.M. 16-55
—	Dolomite	T.A. 4	—	”	M.M. 16-59
2-916	Prehnite	M.A. 3-49	—	Fluorite	M.A. 1-107
—	Roscherite	T.A. 4	2-980	Åkermanite	T.A. 5
—	Zinnwaldite	M.A. 2-401	2-981	Anhydrite	M.A. 2-356
2-918	Prehnite	T.A. 4	—	Biotite	T.A. 6
2-92	Humboldttilite	T.A. 5	2-982	Thomsenolite	T.A. 3
2-920	Beraunite	T.A. 4	2-985	Asbolane	M.A. 3-264
2-922	Aragonite	M.M. 20-417	2-987	Zinnwaldite	T.A. 6
2-925	Humboldttilite	T.A. 5	2-989	Amblygonite	M.A. 2-400
2-927	Kochite	T.A. 6	—	Cuspidine	T.A. 1
2-928	Prehnite	T.A. 1	2-99	Ankerite	T.A. 4
2-929	Kochite	M.A. 2-51	—	Beraunite	M.M. 21-275
—	Melilite	M.A. 2-165	—	Ferrimolybdite	M.A. 3-131
2-93	Danburite	M.A. 2-469	—	Nephrite	T.A. 4
2-932	Kochite	T.A. 6	2-991	Ankerite	T.A. 5
2-936	Prochlorite	M.A. 2-214	2-992	Wollastonite	T.A. 6
2-938	Nephrite	M.A. 2-67	2-993	Biotite	M.A. 2-162
2-94	Kempite	M.A. 2-838	—	Datolite	M.A. 2-353
—	Stewartite	T.A. 3	—	Dolomite	T.A. 6
2-943	Prehnite	M.A. 2-215	—	Gehlenite-åkermanite (art.)	T.A. 5
2-944	Åkermanite (art.)	M.A. 1-168	2-995	Chiolite	T.A. 3
—	Phenakite	T.A. 5	—	Datolite	M.A. 2-529
2-95	Anthophyllite	T.A. 3	2-997	Spodumene	T.A. 4
—	Magnesite	M.A. 1-15	3-0	Ferrazite	M.A. 1-18
—	Humboldttilite	T.A. 5	3-000	Dahlite	M.A. 1-174
—	Biotite	M.A. 1-71	3-001	Datolite	M.M. 15-413
2-953	Manganophyllite	M.A. 2-424	3-005	Chiolite	T.A. 3
2-954	Magnesite	M.A. 1-333	—	Tourmaline	T.A. 1
—	Manganophyllite	M.A. 2-424	3-008	Montebrasite	M.A. 1-76
2-957	Melilite	T.A. 4	3-01	Ankerite	M.M. 16-220
2-958	Lazulite	T.A. 4	—	Magnesite	M.A. 1-15
—	”	M.A. 1-377	—	Ankerite	M.M. 16-222
2-959	Aphrosiderite	M.A. 1-206	—	Natramblygonite	T.A. 3
2-96	Cebollite	T.A. 4	3-012	Dahlite	T.A. 4
—	Dolomite	T.A. 4	3-015	Tourmaline	T.A. 1
—	Nocerite	M.A. 1-107	3-017	Allanite	T.A. 4
—	Fe-Reddingite	M.A. 3-274	—	Aragonite	M.A. 1-140
2-963	Allanite	T.A. 4	3-018	Gehlenite-åkermanite (art.)	T.A. 5
—	Biotite	M.A. 2-162	—	”	T.A. 6
2-964	Allanite	T.A. 4	—	Zinnwaldite	T.A. 6
2-965	Cuspidine	T.A. 1	3-02	Actinolite	T.A. 6
2-969	Gehlenite-åkermanite (art.)	T.A. 5	—	Gehlenite	T.A. 5
2-97	Amphibole-asbestos	M.A. 2-429	—	Imerinite	T.A. 1
—	Eucolite	T.A. 4	—	Magnesite	M.A. 1-15
—	Cuspidine	T.A. 4	—	”	M.A. 3-238
—	Phenakite	M.A. 1-296	—	Manganolangbeinite (art.)	M.A. 2-383
—	Zinnwaldite (calc.)	M.A. 2-425	3-020	Ankerite	T.A. 4
—	Fluorite	M.A. 1-106	—	Tourmaline (rubellite)	T.A. 1
2-970	Zinnwaldite	T.A. 6	3-021	Biotite	T.A. 6
2-973	Lithionite	T.A. 1	3-025	Ankerite	T.A. 5
2-974	Danburite	M.A. 2-67	3-028	Tourmaline	T.A. 4
—	Grodnolite	M.A. 2-343	3-029	Biotite	T.A. 4
2-975	Humboldttilite	T.A. 5	—	Amblygonite	T.A. 5

3-029	Magnesite	T.A. 5	3-085	Biotite	M.A. 3 82
—	Inesite	M.A. 2 252	3-086	Tourmaline	T.A. 4
3-03	Tourmaline	T.A. 2	3-089	Pargasite (ignited)	T.A. 5
—	Inesite (agnolite)	M.A. 2-352	—	Tourmaline	T.A. 3
—	Hopeite	M.A. 1 6	3-09	Arakawaite	M.A. 1 251
—	Manganolangebeinite (art.)	M.A. 2-383	—	Euclase	T.A. 4
3-037	Diopside	T.A. 6	—	Magnesite	T.A. 5
3-038	Gehlenite (art.)	M.A. 1 167	3-090	Grothine	M.A. 1 107
—	Velardeñite (art.)	T.A. 4	—	Dahllite	T.A. 4
3-039	Amblygonite	T.A. 5	3-093	Clintonite	T.A. 5
—	Gehlenite	T.A. 5	3-094	Tourmaline	M.A. 2 359
—	Velardeñite	T.A. 4	—	Dahllite	M.A. 1 174
3-04	Monticellite (art.)	M.A. 1-317	3-097	Amblygonite	T.A. 5
—	Tourmaline	T.A. 3	3-10	Bassetite	M.M. 17 224
—	Xanthitane	M.A. 2-113	—	Magnesite	T.A. 5
3-041	Phenakite	T.A. 4	—	Merrillite	M.A. 2-560
3-042	Amblygonite	T.A. 5	—	Voelckerite	M.M. 17 157
3-047	Tourmaline	T.A. 1	—	Fe-Reddingite	M.A. 2 274
3-048	Actinolite	M.A. 2 212	—	Fibrolite (art.)	T.A. 4
—	Tourmaline (rubellite)	T.A. 1	3-100	Tourmaline	M.A. 2-359
3-049	Amblygonite	T.A. 5	3-101	Amblygonite	M.A. 1-76
3-05	Allanite	T.A. 4	3-102	Tourmaline	T.A. 1
—	Ankerite	T.A. 3	3-105	Ankerite	T.A. 4
—	Euclase	M.M. 20-189	3-106	Bementite	M.A. 1-176
—	Magnesite	T.A. 5	—	Tourmaline	T.A. 1
—	Orientite	M.A. 1-202	3-107	Biotite	T.A. 6
—	Tourmaline	T.A. 3	3-11	Ankerite	T.A. 5
3-052	Magnesite	M.A. 2-230	—	Magnesite	M.A. 2 430
3-053	Tourmaline	T.A. 3	—	Natrojarosite	M.A. 1-355
3-054	"	T.A. 4	—	Tourmaline	T.A. 3
3-055	"	T.A. 4	3-111	"	T.A. 1
—	Amblygonite	T.A. 5	3-118	Andalusite	T.A. 4
3-056	Magnesite	M.A. 1-851	—	Uralite	T.A. 4
3-059	Tourmaline	T.A. 4	3-119	Tourmaline	T.A. 4
3-06	Ankerite	M.A. 3-213	3-12	Lawsonite	T.A. 4
—	Nephrite	T.A. 4	—	Magnesite	T.A. 5
—	Voelckerite	M.M. 17 159	—	Tourmaline	T.A. 3
—	Natramblygonite	T.A. 3	3-120	"	T.A. 4
3-061	Tourmaline	T.A. 1	3-121	Ankerite	T.A. 5
3-064	"	T.A. 4	3-123	Spencerite	M.A. 1-5
3-065	Amblygonite	M.A. 1-76	3-125	Biotite	T.A. 6
3-066	Biotite	M.A. 2-162	3-126	Lacroixite	T.A. 4
—	Tourmaline	T.A. 4	3-127	Tourmaline	T.A. 1
—	Pargasite	T.A. 5	3-128	Heterogenite	M.A. 1 243
3-069	Thuringite	M.A. 2 352	3-129	Plazolite	M.A. 1-151
—	Tourmaline	M.M. 18 133	3-13	Fluosiderite	M.A. 1-107
—	Biotite	M.A. 1-71	—	Hornblende	T.A. 6
3-071	Magnesite	T.A. 4	—	Norbergite	M.A. 3-110
3-072	Tourmaline	T.A. 1	3-138	Anthophyllite	M.A. 2-212
3-078	Monticellite	T.A. 5	3-14	Svanbergite	T.A. 5
3-079	Actinolite	M.A. 2-305	—	Chlor-apatite (art.)	T.A. 4
—	Biotite	T.A. 6	—	Palaito	T.A. 3
—	Grothine	M.A. 1-107	3-142	Spencerite	M.M. 18 78
3-08	Ankerite	M.A. 3-262	3-144	Tourmaline	T.A. 4
3-080	Allanite	T.A. 4	3-145	Spencerite	M.M. 18-78
3-081	Phosphophyllite	M.A. 1-125	3-147	Spodumene	T.A. 3
—	Xanthophyllite	T.A. 4	3-148	Protolithionite	T.A. 6
3-082	Volgerite	M.A. 1-354	3-149	Erythrite-annabergite	M.A. 2-332
—	Phosphophyllite	T.A. 5	3-15	Tourmaline	T.A. 4

3-15	Aragonite (tarnowitzite)	M.A. 2-116	3-2	Fibrolite	T.A. 4
—	Fibrolite (art.)	T.A. 4	—	Pumpellyite	M.A. 3-8
—	Norbergite	M.A. 3-110	3-20	Bavalite	M.A. 2-184
—	Chlor-apatite (art.)	T.A. 4	—	Chlor-apatite	M.A. 2-560
3-150	Merwinite	M.A. 1-254	—	Crocidolite	T.A. 4
3-151	Apatite	T.A. 1	—	Monticellite (art.)	M.M. 19-194
—	Lepidomelane	T.A. 6	—	Falaite	T.A. 3
—	Tourmaline	T.A. 4	3-201	Fluorite	T.A. 2
3-153	Torendrikite	T.A. 5	—	Diopside	T.A. 6
3-154	Andalusite	M.A. 1-396	—	Apatite	T.A. 4
—	Spodumene	T.A. 4	3-202	Viridine	T.A. 5
3-156	Phosphoferrite	M.A. 1-125	3-203	Mangan-neptunite	M.A. 3-103
3-157	Allanite	T.A. 4	3-204	Spodumene	T.A. 4
3-16	Biotite	T.A. 1	3-206	Fluor-apatite	M.A. 1-351
—	Harstigitite	T.A. 5	3-207	Hornblende	T.A. 1
—	Lepidomelane	M.A. 3-303	—	Sulphate-apatite	M.A. 1-256
—	Tourmaline	T.A. 3	3-208	Bronzite	M.A. 2-212
—	Spodumene	T.A. 4	3-209	Fibrolite	M.A. 2-237
3-162	Andalusite	M.A. 1-396	3-21	Parahopeite	M.A. 1-7
3-167	Spodumene	M.A. 3-216	—	Torendrikite	M.A. 1-376
3-168	α -Spodumene	T.A. 3	3-211	Allanite	T.A. 4
3-169	Tourmaline	T.A. 1	3-212	Clinozoisite	M.A. 3-218
3-17	Jarosite	M.A. 2-113	—	Hornblende	T.A. 1
—	Johnstrupite	M.A. 2-263	3-213	Hibbenite	M.A. 1-5
—	Sellaite	T.A. 5	—	Hornblende	M.A. 2-66
3-170	Allanite	T.A. 4	—	"	T.A. 4
3-172	Fibrolite (bucholzite)	M.A. 1-213	3-214	Apatite	T.A. 3
3-175	Chondrodite	T.A. 5	3-216	Forsterite (art.)	T.A. 4
3-177	Tourmaline	T.A. 1	3-218	Apatite	T.A. 3
3-178	Hornblende	M.M. 20-239	3-219	Torbernite	M.M. 19-45
—	Lepidomelane	T.A. 6	3-22	Axinite	M.A. 2-354
3-18	Pababudanite	T.A. 2	—	Parahopeite	T.A. 5
—	Fluor-apatite	T.A. 3	—	"	M.A. 1-7
—	Spodumene (art.)	M.A. 3-191	—	Forsterite	M.A. 3-280
—	Spodumene	T.A. 4	—	Tourmaline	T.A. 3
3-180	Fluorite	M.A. 1-108	3-220	Viridine	M.A. 1-396
—	Fibrolite (bucholzite)	M.A. 1-213	3-221	Axinite	M.A. 2-237
3-181	Pargasite	T.A. 5	3-223	Hornblende	T.A. 1
3-184	Apatite	M.A. 3-303	3-223	"	T.A. 4
3-185	Andalusite	T.A. 4	3-224	"	T.A. 4
3-186	Spodumene	T.A. 4	3-225	"	M.A. 2-224
3-187	Tourmaline	T.A. 1	3-226	"	T.A. 4
—	Epidote	M.A. 1-48	—	Grossular	T.A. 4
3-189	"	M.A. 1-48	3-229	Hornblende	T.A. 1
3-19	Allanite	T.A. 4	3-23	Allanite	T.A. 4
—	Ankerite	T.A. 4	—	Cummingtonite	M.A. 3-153
—	Ludlamite (lehnerite)	M.A. 3-10	—	Epidote (fouqueite)	M.A. 2-410
—	Weibyeite	M.A. 1-204	—	Fibrolite	M.M. 19-110
3-190	Calc-olivine	T.A. 4	—	Forsterite	M.A. 1-93
3-191	Fluorite	M.A. 2-353	3-231	Fluotaramite	M.A. 3-109
3-194	Akrochordite	M.A. 2-51	—	Hornblende	T.A. 1
—	Fluor-apatite	T.A. 4	3-234	Wilkeite	T.A. 4
3-195	Fluorite	M.A. 1-108	3-235	Hornblende	T.A. 1
3-196	Sulphate-apatite	M.A. 1-256	—	Scorodite	T.A. 4
3-198	Autunite	M.A. 3-296	3-236	Diopside	T.A. 5
—	Hornblende	T.A. 1	—	Fluor-diopside	T.A. 5
			—	Parahopeite	M.A. 1-7
			—	Pyroxene	M.A. 2-68
			—	Hornblende	T.A. 4
			3-238	Viridine	T.A. 5

3-24	Ferro-anthophyllite	M.A. 1-253	3-30	β -Corundum (art.)	T.A. 4
—	Meliite (justite)	M.A. 2-22	—	Diopside	T.A. 4
3-240	Allanite	T.A. 4	—	"	T.A. 6
—	Gedrite	T.A. 4	—	Dumortierite	M.A. 3-315
3-242	Augite	M.A. 1-161	—	Rancieite	M.A. 2-144
3-248	"	M.A. 1-288	3-301	Allanite	T.A. 4
3-25	Axinite	T.A. 4	—	Olivine	M.A. 2-212
—	Chlorite	M.A. 1-137	—	Spodumene	T.A. 4
—	Fibrolite	M.M. 19-109	3-303	Enstatite	M.A. 2-212
—	Rancieite	M.A. 2-144	3-305	Protolithionite (calc.)	M.A. 2-425
3-250	Allanite	T.A. 4	3-307	Diopside	T.A. 4
—	Tourmaline	T.A. 4	—	Johannite	M.A. 1-248
3-252	Fibrolite	M.M. 19-109	—	Olivine	T.A. 4
—	Sursassite	M.A. 3-272	3-308	Fassaite	M.A. 2-69
3-254	Enstatite	M.A. 2-305	3-309	Diopside	T.A. 5
3-255	Fibrolite	M.M. 19-109	—	Dumortierite	M.A. 2-39
3-257	Mangan-apatite	M.A. 2-401	—	Pyroxene	M.A. 2-68
3-26	Acmite-augite	M.A. 1-107	3-31	Guarinite	T.A. 5
—	Diopside	T.A. 4	—	Omphacite	M.A. 1-163
—	"	M.A. 1-250	3-311	Grünerite-cummingtonite	T.A. 6
3-262	Spodumene	T.A. 4	3-312	Rhodochrosite	M.A. 2-143
3-265	Diopside	T.A. 5	3-313	Diopside	M.A. 2-38
3-266	Fibrolite	M.A. 3-280	—	Diopside	T.A. 4
—	Hornblende	T.A. 4	3-314	Axinite	M.A. 2-239
3-267	Diopside	M.A. 1-9	—	Bronzite	M.A. 2-160
—	Fluotaramite	M.A. 3-109	3-315	"	T.A. 4
3-268	Forsterite	M.A. 2-212	3-318	Fluotaramite	M.A. 3-109
3-27	Augite	M.A. 1-93	—	Diopside	T.A. 4
—	Hornblende	T.A. 6	—	Bronzite	T.A. 4
—	Planchete	M.A. 1-416	—	Augite	M.A. 2-65
3-270	Apatite	T.A. 5	3-319	Yttriofluorite	T.A. 4
—	Diopside-jadeite	M.A. 1-382	3-32	Fe-Zn-Ca-olivine (art.)	T.A. 5
3-272	Diopside	M.A. 2-38	—	Idocrase	T.A. 5
3-274	Aurichalcite	T.A. 4	—	Lovchorrite	M.A. 3-236
—	Axinite	M.A. 3-306	3-323	Pyroxene	T.A. 4
3-275	Diopside	M.A. 2-38	3-33	Allanite	T.A. 4
3-276	Hornblende	M.A. 2-429	—	Buttgenbachite	M.A. 3-6
3-278	Diopside	M.A. 3-118	—	Gillespite	M.A. 1-375
3-279	Allanite	M.A. 2-237	—	Olivine	M.A. 2-436
3-28	Zeunerite	M.A. 2-353	—	Riebeckite	T.A. 4
3-281	Diopside	T.A. 5	3-330	Diopside-jadeite	T.A. 6
3-282	"	T.A. 5	—	Augite	M.A. 2-65
—	Kyanite	T.A. 4	3-331	Clinozoisite	T.A. 4
3-286	Tinzenite	T.A. 6	3-332	Pyroxene	T.A. 4
3-287	Augite	T.A. 1	3-335	Soda-jadeite	M.A. 1-333
—	Diopside	T.A. 5	—	Grossular	M.A. 2-396
3-289	Helvine	M.A. 3-150	3-336	Idocrase	T.A. 5
3-29	Andalusite	M.A. 3-51	—	Soda-jadeite	T.A. 5
—	Epidote	T.A. 3	3-337	Chrome-diopside	T.A. 4
3-290	Titanaugite	T.A. 4	—	Idocrase	M.A. 3-118
3-291	Augite	M.M. 17-107	3-338	Augite	M.M. 19-179
—	Diopside	T.A. 5	—	Bronzite	T.A. 6
3-294	Lepidomelane	M.A. 3-303	3-34	Augite	T.A. 6
3-295	Spodumene	T.A. 4	—	Grünerite-cummingtonite	T.A. 6
3-296	Axinite	M.A. 1-8	—	Gerhardtite	T.A. 6
—	Diopside	M.A. 1-350	3-340	Lepidomelane (calc.)	M.A. 2-425
3-298	Augite	T.A. 1			
—	Barkevikite	T.A. 4			
3-3	Aegirine	T.A. 4			
—	Ferrazite	M.A. 1-18			

3-341	Calc-olivine	. . .	T.A. 4	3-396	Hastingsite	. . .	M.A. 3-400
3-343	Olivine	. . .	M.A. 3-58	3-398	Babingtonite	. . .	T.A. 4
—	Clinozoisite	. . .	M.A. 3-353	3-4	Riebeckite	. . .	M.A. 1-277
3-344	Rhodizite	. . .	T.A. 2	3-40	Gerhardtite	. . .	M.A. 3-53
3-345	Prismatine	. . .	T.A. 1	—	Oinkolite	. . .	M.A. 3-236
3-346	Allanite	. . .	T.A. 4	—	Augite	. . .	T.A. 6
3-348	Clinozoisite	. . .	M.A. 3-353	3-401	Idocrase	. . .	T.A. 6
—	Ampangabeite	. . .	T.A. 4	3-402	Augite	. . .	T.A. 1
3-349	Topaz	. . .	T.A. 4	3-404	Olivine	. . .	M.A. 3-58
3-35	Hornblende	. . .	T.A. 5	—	Trimerite	. . .	M.A. 1-48
—	Zoisite	. . .	M.A. 2-215	3-405	Yttrifluorite	. . .	T.A. 4
3-351	Babingtonite	. . .	T.A. 4	3-41	Allanite	. . .	T.A. 4
—	Olivine	. . .	T.A. 5	—	Idocrase	. . .	M.A. 2-240
—	Clinozoisite	. . .	M.A. 3-353	—	Olivine	. . .	T.A. 5
3-352	„	. . .	M.A. 3-49	3-411	Sphene	. . .	T.A. 5
3-353	„	. . .	M.A. 3-353	3-414	Augite	. . .	T.A. 1
3-354	Hardystonite	. . .	M.A. 2-22	3-415	Hypersthene	. . .	M.A. 2-305
3-356	Clinozoisite	. . .	M.A. 3-49	—	Idocrase	. . .	T.A. 4
3-358	Augite	. . .	M.A. 1-394	3-416	Rhodonite	. . .	T.A. 6
3-359	Babingtonite	. . .	M.A. 2-472	—	Tinzenite	. . .	M.A. 2-252
3-36	Dumortierite	. . .	T.A. 4	3-417	Idocrase	. . .	T.A. 6
—	Hypersthene	. . .	T.A. 1	3-418	Uvarovite	. . .	T.A. 4
—	Idocrase	. . .	T.A. 5	—	Ampangabeite	. . .	T.A. 4
3-360	Clinozoisite	. . .	M.A. 3-353	3-42	Aegirine-augite (vanadiferous)	. . .	T.A. 4
3-363	Allanite	. . .	T.A. 4	—	Allanite	. . .	T.A. 4
3-365	Chloromelanite	. . .	T.A. 6	—	Diopside	. . .	M.M. 16-277
—	Clinozoisite	. . .	M.A. 1-346	—	„	. . .	T.A. 5
3-366	„	. . .	M.A. 3-353	—	Olivine	. . .	M.A. 1-108
3-368	Schallerite	. . .	M.A. 2-420	3-420	Epidote	. . .	T.A. 4
3-369	Clinozoisite	. . .	M.A. 1-78	3-421	Idocrase	. . .	T.A. 6
3-37	Plancheteite	. . .	M.A. 3-265	3-426	Hastingsite	. . .	M.A. 2-400
3-371	Diopside	. . .	T.A. 6	3-427	Allanite	. . .	T.A. 4
—	Osannite	. . .	M.A. 2-401	3-43	Ramsayite	. . .	M.A. 2-251
3-373	Augite	. . .	M.A. 1-162	—	Olivine	. . .	T.A. 5
—	„	. . .	M.A. 2-305	3-431	Sphene	. . .	T.A. 4
3-375	Clinozoisite	. . .	T.A. 4	3-435	Augite	. . .	T.A. 1
—	Diopside	. . .	T.A. 6	—	Epidote	. . .	M.A. 1-109
—	Mesitite	. . .	T.A. 5	3-439	Taramite	. . .	M.A. 3-109
—	Clinozoisite	. . .	M.A. 1-109	—	Allanite	. . .	T.A. 4
3-376	„	. . .	T.A. 4	3-44	„	. . .	T.A. 4
3-379	„	. . .	M.A. 1-78	—	Augite	. . .	M.M. 17-99
3-38	Allanite	. . .	M.A. 3-208	—	Riebeckite	. . .	M.A. 2-239
3-380	Clinozoisite	. . .	M.A. 1-78	3-447	Epidote	. . .	T.A. 4
3-381	Augite	. . .	M.A. 2-433	3-45	Chloritoid	. . .	M.A. 3-204
—	Idocrase	. . .	T.A. 6	—	Sieklertite	. . .	T.A. 3
3-383	Clinozoisite	. . .	M.A. 1-78	3-451	Idocrase	. . .	T.A. 1
3-385	„	. . .	M.A. 1-78	3-456	Sphene	. . .	T.A. 5
—	Diaspore (tanatarite)	. . .	M.A. 3-237	3-46	Gerhardtite	. . .	T.A. 6
—	Clinozoisite	. . .	M.A. 1-109	3-460	Sphene	. . .	T.A. 4
3-39	Allanite	. . .	T.A. 4	3-462	„	. . .	T.A. 4
—	Grossular	. . .	T.A. 5	3-463	Glinkite	. . .	M.A. 2-212
—	Lithiophilite	. . .	M.A. 3-131	3-47	Idocrase	. . .	M.A. 2-180
—	Ti-augite	. . .	M.A. 1-394	—	Ramsayite (art.)	. . .	M.A. 3-163
—	Vogtite (art.)	. . .	M.M. 18-369	3-471	Olivine	. . .	M.A. 3-58
—	Augite	. . .	T.A. 6	3-476	Taramite	. . .	M.A. 3-109
3-391	Riebeckite	. . .	T.A. 2	3-477	Melanovanadite	. . .	M.A. 1-250
3-395	Grünerite	. . .	T.A. 5	3-48	Wöhlerite	. . .	M.A. 2-263
3-396	Allanite	. . .	T.A. 4	3-485	Epidote	. . .	M.A. 1-346
—	Grünerite	. . .	M.A. 1-253	3-487	Aegirine	. . .	M.A. 3-303

3-49	Chrysoberyl . . .	M.A. 2-265	3-60	Sobralite . . .	M.A. 1-253
3-490	Allanite . . .	T.A. 4	3-608	Ellsworthite . . .	M.A. 2-248
3-499	Aegirine . . .	T.A. 2	3-61	Yttrocercite . . .	M.A. 2-263
—	Sphene . . .	M.A. 2-429	3-611	Grossular . . .	T.A. 4
—	" . . .	T.A. 6	3-620	Chrysoberyl (alexandrite)	T.A. 2
3-5	Dufrenite . . .	T.A. 5	3-63	Chalybite . . .	T.A. 4
3-50	Andradite . . .	M.A. 3-207	3-633	" . . .	T.A. 5
—	Hedenbergite . . .	T.A. 3	—	Hessonite . . .	T.A. 4
3-506	Grossular . . .	T.A. 4	3-637	Chrysoberyl . . .	T.A. 4
3-507	Allanite . . .	T.A. 4	3-64	Aurichalcite . . .	M.A. 2-111
—	Epidote . . .	T.A. 4	—	Jarosite . . .	M.A. 2-113
3-509	Sphene . . .	T.A. 4	—	Pyrope . . .	T.A. 1
3-510	Pyrope (calc.) . . .	T.A. 4	—	Sarcopside . . .	M.A. 1-175
3-513	Diamond . . .	M.A. 1-216	3-645	Allanite . . .	T.A. 4
3-514	" . . .	T.A. 1	3-65	Grossular . . .	T.A. 5
3-516	Dannemorite . . .	T.A. 6	—	Hinsdalite . . .	T.A. 2
3-518	Ferromorite . . .	M.M. 16-85	3-658	Allanite . . .	M.A. 2-236
—	Hornblende (barkevikite)	T.A. 5	3-660	Andradite . . .	T.A. 4
3-52	Sphene . . .	M.A. 1-379	3-666	Metabruceite (art.) . . .	T.A. 4
—	Grossular . . .	M.A. 2-396	3-668	Rhodochrosite . . .	M.A. 3-124
3-525	" . . .	T.A. 4	3-67	Alstonite . . .	T.A. 1
3-530	" (calc.) . . .	T.A. 4	—	Meta-torbernite (art.)	M.M. 19-45
3-531	Triphylite . . .	M.A. 2-471	—	Tyuyamunite . . .	M.A. 2-404
3-532	Sphene . . .	T.A. 6	3-68	Meta-torbernite . . .	M.M. 19-44
3-536	Yttriofluorite . . .	T.A. 2	—	Torbernite . . .	M.A. 2-183
3-537	Sphene . . .	T.A. 4	3-681	Pyrope . . .	M.A. 2-212
3-54	Ceruleofibrite = connellite	M.A. 2-10	3-682	Spinel . . .	T.A. 5
—	Olivine . . .	T.A. 6	3-683	Alkali-spinel . . .	M.A. 2-185
—	Sklodowskite . . .	M.A. 2-341	3-687	Chrysoberyl . . .	T.A. 4
—	" . . .	M.A. 2-384	3-69	Andradite . . .	M.M. 17-52
3-544	Diopside . . .	T.A. 5	3-691	Rhodochrosite . . .	M.A. 3-69
3-547	Topaz . . .	M.A. 1-338	3-693	Poechite . . .	M.A. 1-423
3-55	Aegirine (vanadiferous)	T.A. 4	3-695	Svabite . . .	M.A. 3-364
—	Thortveitite . . .	M.A. 1-172	3-698	Rhodochrosite . . .	M.A. 3-124
—	Olivine (hyalosideritic)	T.A. 5	3-702	Chrysoberyl . . .	T.A. 4
3-552	Rhodochrosite . . .	M.A. 2-143	3-707	Alstonite . . .	T.A. 1
3-557	Yttriofluorite . . .	T.A. 2	—	Chalybite . . .	T.A. 5
3-558	Aegirine . . .	T.A. 4	3-71	Barytocalcite . . .	T.A. 1
3-56	Grossular . . .	M.A. 2-119	—	Rhodochrosite . . .	M.A. 2-46
—	Olivine (hyalosideritic)	M.A. 1-109	3-715	Pyrope . . .	T.A. 4
3-561	Grünerite (calc.) . . .	M.A. 3-153	3-72	Picrotrophroite . . .	T.A. 5
3-566	Thortveitite . . .	T.A. 5	—	Pyrope . . .	T.A. 1
3-568	Topaz . . .	T.A. 5	3-721	Poechite . . .	M.A. 1-423
3-57	Thortveitite . . .	M.A. 1-340	3-73	Chrysoberyl . . .	T.A. 4
3-570	Rhodochrosite . . .	M.A. 3-124	3-732	Aenigmatite . . .	M.A. 2-264
3-571	Thortveitite . . .	T.A. 2	3-74	Sklodowskite . . .	M.A. 2-384
3-578	Chapmanite . . .	M.A. 2-336	3-743	Rhodochrosite . . .	T.A. 5
3-58	Grossular . . .	M.A. 2-357	3-75	Betafite . . .	T.A. 3
—	Pseudomalachite . . .	M.A. 2-266	—	Chalybite . . .	M.A. 3-358
3-584	Triplite . . .	M.A. 1-213	—	Dussertite . . .	M.A. 2-419
3-59	Kyanite . . .	M.A. 2-265	—	Pyrope . . .	T.A. 1
—	" . . .	M.A. 3-51	—	Rhodolite . . .	T.A. 4
—	Topaz . . .	M.A. 3-27	3-750	Andradite (calc.) . . .	T.A. 4
3-593	Kyanite . . .	M.A. 2-224	3-753	Stauriolite . . .	T.A. 4
3-596	Hessonite . . .	M.A. 3-119	3-757	Heterobrochantite . . .	M.A. 3-270
3-60	Allanite . . .	M.A. 3-9	3-758	Aenigmatite . . .	M.A. 2-264
—	Grossular . . .	M.A. 1-9	—	Ellsworthite . . .	M.A. 2-248
			3-759	Stauriolite . . .	T.A. 4

SPECIFIC GRAVITIES OF MINERALS.

355

3-76	Tilasite . . .	M.A. 2-412	3-95	Ilvaite . . .	T.A. 3
3-769	Atacamite . . .	T.A. 2	—	Torbernite . . .	M.A. 2-183
3-77	Almandine . . .	M.A. 2-119	—	Tyuyamunite . . .	M.A. 2-404
—	Tilasite . . .	M.M. 16-95	3-951	Chalybite . . .	T.A. 5
3-771	Allanite . . .	T.A. 4	3-96	„ (calc.) . . .	T.A. 5
3-776	Staurolite . . .	M.A. 2-224	3-960	Almandine . . .	T.A. 4
3-778	„ . . .	T.A. 4	3-965	„ . . .	T.A. 6
3-78	Uranotile . . .	M.A. 1-244	3-968	Brookite . . .	T.A. 4
3-780	Atacamite . . .	T.A. 2	—	Celestine . . .	T.A. 4
3-781	Andradite . . .	T.A. 4	3-97	Almandine . . .	T.A. 6
3-782	Almandine-pyrope . . .	T.A. 6	—	Sapphire . . .	M.A. 2-5
3-79	Tilasite . . .	M.A. 2-412	—	Paredrite . . .	M.A. 1-256
—	Triplite . . .	T.A. 4	—	Ampangabeite . . .	T.A. 3
3-793	Chalybite . . .	T.A. 5	3-977	Corundum (art.) . . .	T.A. 1
3-80	Almandine-pyrope . . .	T.A. 4	3-98	Blende . . .	T.A. 3
—	Pyroxmangite . . .	T.A. 4	—	Olivine (hortonolite)	
3-801	Demantoid . . .	T.A. 4			M.M. 16-378
3-81	Högbomite . . .	M.A. 1-252	3-984	Almandine . . .	T.A. 6
—	Uvarovite . . .	T.A. 1	3-988	Corundum (art.) . . .	T.A. 1
3-813	Chalybite . . .	T.A. 5	3-99	Almandine . . .	T.A. 6
3-82	Almandine-pyrope . . .	T.A. 4	3-991	Margarosanite . . .	M.A. 1-18
—	Calcio-ancylite . . .	M.A. 2-263	4-0	Gadolinite . . .	T.A. 5
—	„ . . .	M.A. 2-407	4-00	Allanite . . .	M.A. 3-274
3-824	Allanite . . .	M.A. 3-268	—	Almandine . . .	T.A. 6
3-83	Almandine-pyrope . . .	T.A. 6	—	Corundum (art.) . . .	M.A. 3-191
—	Ferro-anthophyllite . . .	M.A. 1-253	4-000	Ilvaite . . .	M.A. 3-307
			4-01	Corundum (art.) . . .	T.A. 1
3-837	Rhodolite . . .	T.A. 4	—	Hercynite . . .	M.A. 3-353
3-84	Chalybite . . .	M.A. 2-46	—	Kalkowskyn . . .	M.A. 2-419
—	Torbernite . . .	M.A. 2-183	4-02	Almandine . . .	T.A. 6
—	Celestine . . .	M.A. 2-137	—	Gadolinite . . .	T.A. 5
3-841	Spinel . . .	T.A. 5	4-025	Almandine . . .	T.A. 4
3-85	Andradite . . .	M.A. 2-439	4-027	Barylite . . .	M.A. 2-411
3-86	Garnet . . .	M.A. 1-163	4-03	Corundum (art.) . . .	M.A. 3-191
—	Zinco-rhodochrosite . . .	T.A. 3	4-030	Blende . . .	T.A. 3
3-87	Allanite . . .	T.A. 4	4-032	Pisekite . . .	M.A. 2-336
—	Limonite . . .	M.M. 18-343	4-033	Blende . . .	M.A. 1-163
3-875	Triplite . . .	T.A. 1	4-04	Chalmersite . . .	M.A. 1-173
3-88	Almandine . . .	M.A. 2-119	4-040	Almandine . . .	T.A. 4
—	Brochantite . . .	M.A. 2-320	4-044	Tephroite . . .	T.A. 4
—	Chalybite . . .	M.A. 1-15	4-048	Zircon . . .	M.A. 3-55
—	Celestine . . .	M.A. 2-137	4-058	Spessartine . . .	T.A. 4
3-882	Almandine-pyrope . . .	T.A. 6	4-059	„ . . .	T.A. 1
3-90	Allanite (Mg-orthite)		4-063	„ . . .	T.A. 4
		M.A. 3-274	4-07	Blomstrandite . . .	T.A. 1
3-908	Garnet (melanite) . . .	M.A. 2-212	4-076	Grossular . . .	T.A. 6
3-91	Fayalite (art.) . . .	M.A. 3-167	4-079	Blende . . .	T.A. 3
—	Hodgkinsonite . . .	T.A. 4	4-08	Paredrite . . .	M.A. 1-256
3-917	Almandine . . .	T.A. 6	4-087	Wurtzite (art.) . . .	T.A. 3
3-92	Celestine . . .	T.A. 5	4-09	Blende . . .	M.A. 2-110
3-924	Ampangabeite . . .	T.A. 4	—	Lepidocrocite . . .	T.A. 5
—	Spinel . . .	T.A. 4	—	Rosasite . . .	M.A. 2-240
3-927	Chalybite . . .	M.A. 3-59	—	Spessartine . . .	M.A. 1-253
3-93	Ferropicotite . . .	T.A. 5	4-090	Blende . . .	T.A. 3
3-935	Blende . . .	T.A. 3	4-093	Almandine . . .	T.A. 4
3-94	Almandine . . .	T.A. 6	4-1	Bolivianite . . .	M.A. 3-112
—	Celestine . . .	M.A. 2-137	—	Zircon (oyamalite) . . .	M.A. 3-10
—	Chalybite . . .	M.A. 3-46	4-10	Cornetite . . .	M.M. 19-229
3-95	Almandine-pyrope . . .	T.A. 4	4-102	Zircon (cyrtolite) . . .	M.A. 2-236
—	Anatase . . .	M.A. 2-358	4-104	Cuprozincite . . .	M.A. 1-203

4-115	Mangan-almandine	M.A. 1-253	4-29	Ampangabeite	T.A. 3
4-118	Spessartine	T.A. 4	4-298	Gadolinite.	M.A. 2-46
4-12	Ceylonite	M.M. 19-106	4-3	"	T.A. 5
—	Chalcopyrite	M.A. 2-110	—	Schafarzikite	M.A. 3-99
4-120	Ampangabeite	T.A. 4	—	Zircon	M.A. 3-9
4-123	Rutile	T.A. 4	—	Zirkelite	M.M. 16-310
—	Gadolinite.	T.A. 4	4-30	Psilomelane	M.A. 1-379
4-13	Almandine	M.A. 3-23	—	Gadolinite.	T.A. 5
4-135	"	T.A. 4	4-31	Hulsite	T.A. 1
4-137	Paraurichalcite	M.A. 1-203	4-32	Gadolinite.	T.A. 5
4-15	Allanite	M.A. 2-185	—	Mangan-fayalite	M.A. 1-253
4-158	Spessartine	T.A. 4	—	Zirkelite	16-313
4-163	Almandine	T.A. 4	4-320	Parisite	T.A. 2
4-169	Spessartine	T.A. 4	4-33	Almandine	T.A. 6
4-17	Betafite	T.A. 3	—	Higginsite.	M.A. 1-122
—	Blomstrandite	T.A. 2	—	Hydrohaematite	M.A. 2-111
—	"	T.A. 1	4-35	"	M.M. 18-343
—	Almandine-spessartine	T.A. 4	—	Spessartine	M.A. 3-208
4-173	Sarkinite	M.A. 3-360	—	Tyuyamunite	M.A. 2-404
4-178	"	M.A. 3-360	4-36	Gadolinite.	T.A. 4
4-18	Goethite	M.M. 18-347	4-37	Gahnite	T.A. 5
—	Paraurichalcite	T.A. 5	—	Smithsonite	M.A. 2-111
4-180	Spessartine (calc.)	T.A. 4	4-39	Margarosanite	M.A. 1-19
4-19	Barthite	T.A. 4	—	Smithsonite	M.A. 2-111
—	Smithsonite	M.A. 2-111	4-398	"	M.M. 21-54
4-193	Goethite	T.A. 4	4-4	Zircon (hagatalite)	M.A. 3-10
4-2	Samarskite	T.A. 2	—	"	M.A. 3-9
4-20	Dixenite	M.A. 1-149	4-40	Smithsonite (herrerite)	M.A. 2-111
—	Allanite	M.A. 1-251	—	Zirkelite	M.M. 16-318
—	Psilomelane	M.A. 1-379	4-410	Smithsonite	M.A. 2-567
4-201	Paraurichalcite	M.A. 1-203	4-415	Chromohereynite	M.A. 1-123
4-208	Gadolinite.	M.A. 3-152	4-417	Hatchettolite	M.A. 2-236
4-21	Vonsenite	T.A. 5	4-43	Villamaninite	M.A. 1-24
4-22	Powellite	M.A. 2-113	4-433	"	M.M. 19-17
4-223	Gadolinite.	T.A. 4	4-44	Ilmenite	T.A. 2
4-227	Staszicite	M.A. 2-52	—	Mendelyevite	M.A. 2-147
4-23	Almandine	M.A. 2-265	4-45	Gadolinite.	T.A. 5
—	Armangite	M.A. 1-124	4-454	Thalenite	M.A. 2-25
—	Rutile (calc.)	M.A. 2-189	4-46	Germanite.	M.A. 2-12
4-230	Spessartine	T.A. 4	4-47	Zirkelite	M.A. 16-313
4-234	Grossular	T.A. 5	4-478	Gahnite	T.A. 4
4-239	Rutile	T.A. 4	4-481	Goethite	T.A. 4
4-24	Fayalite	T.A. 2	4-49	Ampangabeite	M.A. 3-114
4-25	Mangan-fayalite	T.A. 4	—	Enargite	M.A. 3-101
4-250	Almandine (calc.)	T.A. 4	4-5	Katoprite.	M.A. 1-19
4-254	Grossular	T.A. 5	—	Brannerite	M.A. 1-22
4-255	Spessartine	T.A. 4	4-50	Palmierite.	M.A. 1-216
4-26	Dysanalyte	T.A. 4	4-509	Hatchettolite	M.A. 2-236
4-272	Rutile	M.A. 2-568	4-51	Mendelyevite	M.A. 2-147
4-273	Spessartine	T.A. 4	4-52	Villamaninite	M.A. 1-24
4-276	Zircon	M.A. 3-356	4-523	"	M.M. 19-17
4-277	Spessartine	T.A. 4	4-55	Enargite	M.A. 2-188
4-28	Fayalite	T.A. 4	—	Ilmenite	T.A. 4
—	Goethite	M.A. 1-143	—	Xenotime?	M.A. 2-254
—	Gadolinite	T.A. 5	4-56	Gahnite (dylusite)	T.A. 1
4-285	Swedenborgite	M.A. 2-339	—	Pyrrhotine	T.A. 3
4-29	Sr-Baryte	M.A. 1-356	4-576	Tennantite	T.A. 1
—	Manganite.	M.A. 1-124	4-583	Zircon	T.A. 4
—	Smithsonite	M.A. 2-111	4-59	Germanite.	T.A. 6
—	Witherite	M.A. 2-111			

4-594	Euxenite	T.A. 4	4-786	Tetrahedrite	T.A. 1
4-597	Tetrahedrite	T.A. 1	4-788	„	T.A. 1
4-6	Gadolinite	T.A. 5	4-74	Boleite (cumengeite)	T.A. 5
—	Hetaerolite	T.A. 4	4-740	Tetrahedrite	T.A. 1
—	Zirkelite	M.M. 16-310	4-741	Zirkelite	M.M. 16-313
4-60	Pseudobrookite	M.A. 3-251	4-746	Tennantite	T.A. 1
4-602	Gahnite	T.A. 4	4-748	Pyrolusite	M.A. 1-413
4-609	Marcasite	T.A. 2	—	Zircon	M.A. 3-55
4-61	Tennantite	M.M. 15-387	4-75	Boleite (cumengeite)	T.A. 5
—	„	M.A. 1-150	—	Mendelyevite	T.A. 6
4-619	Zircon	M.A. 3-356	4-751	Ilmenite	M.A. 2-224
4-62	Baryte (plumbiferous)	M.M. 19-74	4-754	Euxenite	T.A. 4
—	Bravoite	M.A. 3-154	4-76	Mendelyevite	M.A. 2-147
—	Molybdenite	T.A. 4	4-766	„	T.A. 6
4-627	Sodidite	M.A. 1-377	4-769	Tetrahedrite	T.A. 1
4-63	Zircon	M.M. 21-176	4-77	Cumengeite	M.A. 1-76
4-637	„	M.A. 3-356	—	FeTiO ₃ (calc.)	M.A. 2-189
4-638	Pentlandite	T.A. 4	—	Loparite	M.A. 3-236
4-64	Tetrahedrite	M.A. 2-432	4-778	Hausmannite	M.A. 1-47
4-644	Zircon	M.A. 2-137	4-779	Tetrahedrite	T.A. 1
—	Ampangabeite	T.A. 4	4-78	Pageite	T.A. 1
4-65	Covellite (art.)	M.A. 2-20	—	Tetrahedrite	M.A. 2-110
4-650	Euxenite	T.A. 4	4-780	„	T.A. 1
4-651	Stibnite	M.A. 2-562	4-794	„	T.A. 1
—	Tetrahedrite	T.A. 1	4-8	Dewindtite	M.A. 1-377
4-652	Covellite	T.A. 4	—	Lubeckite	M.A. 2-52
—	Zircon	M.A. 2-137	4-802	Boleite	M.A. 1-76
—	„	M.A. 3-356	4-81	Euxenite	M.A. 2-407
4-654	Stibnite	M.A. 3-208	4-82	Linnaeite	M.A. 2-342
4-67	Troilite	M.A. 2-43	4-820	Greenockite (art.)	T.A. 3
4-671	Zircon	M.A. 3-356	4-836	Hausmannite	M.A. 1-47
4-676	Covellite	T.A. 4	4-85	Hetaerolite	T.A. 1
4-679	Zircon	M.A. 3-356	—	Linnaeite	M.A. 2-183
4-68	Covellite	M.A. 2-20	4-86	Ilmenite	T.A. 1
—	Tetrahedrite	T.A. 1	4-862	Euxenite	T.A. 1
4-680	Zircon	M.A. 3-356	4-87	Tetrahedrite	T.A. 1
4-682	„	M.A. 2-288	4-879	Marcasite	T.A. 2
—	„	M.A. 3-356	4-88	Blomstrandine	M.A. 2-408
4-683	Covellite	T.A. 4	—	Boleite (cumengeite)	T.A. 5
4-686	Zircon (heated)	T.A. 4	4-885	Pyrolusite	T.A. 5
4-69	Ilmenite	T.A. 4	4-887	Marcasite	T.A. 3
—	Zircon	M.A. 2-288	4-888	Tetrahedrite	M.A. 1-337
—	„	M.A. 3-296	4-89	Mackensite	M.A. 1-255
4-692	Tennantite (julianite)	T.A. 1	4-895	Euxenite	T.A. 2
—	Zircon	M.A. 3-356	4-897	Tetrahedrite	M.A. 1-337
4-7	Hydrohaematite	T.A. 5	4-91	Strüverite	T.A. 3
4-700	Tennantite (miedziankite)	M.A. 3-233	4-94	Törnebohmite	M.A. 1-251
4-702	Zircon	M.A. 3-356	4-948	Bastnäsite	T.A. 3
4-707	„	M.A. 3-356	4-95	CaNb ₂ O ₆ (calc.)	M.M. 18-119
4-710	Euxenite	T.A. 4	4-964	Weslienite	T.A. 6
—	Ilmenite	T.A. 4	4-965	Cobalt-pyrite	M.A. 2-339
4-711	Euxenite	T.A. 4	4-967	Beccquerelite	T.A. 6
4-716	Cobalt-nickel-pyrite	T.A. 4	—	Magnetite	T.A. 4
4-72	Zirkelite	M.M. 16-310	—	Weslienite	M.A. 2-253
4-720	Zircon	M.A. 3-356	4-970	Pyrite	T.A. 2
4-722	„	M.A. 3-356	4-971	Weslienite	T.A. 6
—	Euxenite	T.A. 4	4-972	Crednerite	M.M. 20-87
4-73	Loparite	M.A. 3-275	4-977	Boleite	M.A. 1-76
			4-98	Fergusonite	M.A. 2-283
			4-99	Euxenite	M.A. 1-73

5-0	Samarskite	T.A. 2	5-36	Eichbergite	T.A. 2
—	Zirkelite	M.M. 16-313	—	Miargyrite (art.)	T.A. 3
5-00	Blomstrandine	T.A. 1	5-364	Manganosite	T.A. 1
5-027	Pyrite	T.A. 3	5-37	Columbite	T.A. 5
5-03	Crednerite	M.M. 20-88	5-377	Pyrobelonite	M.A. 1-124
—	Stasite	M.A. 1-377	5-4	Pufahlite	M.A. 2-520
5-036	Strüverite	T.A. 4	5-40	Samarskite	M.A. 2-408
5-037	Bornite	M.A. 1-341	5-41	Columbite	T.A. 5
5-041	Toddite	M.A. 3-271	—	Schneebergite	T.A. 4
5-044	Romeite	T.A. 4	5-42	Columbite	T.A. 5
5-061	Bornite	T.A. 4	5-421	”	T.A. 5
5-064	”	T.A. 4	5-43	Samarskite	M.A. 2-406
5-074	Romeite	T.A. 4	—	Brannerite	M.A. 1-22
5-079	Bornite	T.A. 4	5-431	Columbite	T.A. 6
—	Tetrahedrite	T.A. 1	5-44	”	T.A. 5
5-08	Gummitte	M.A. 1-415	—	Parabayldonite	T.A. 5
5-086	Bornite	T.A. 4	—	Seligmannite	M.M. 15-386
5-09	Franklinite	T.A. 1	5-447	Aramayoite	M.A. 3-269
5-1	Zirkelite	M.M. 16-313	5-453	Rathite?	M.M. 18-362
5-103	Bornite	M.A. 1-341	5-47	Plagionite (art.)	T.A. 3
5-11	Monazite	T.A. 3	5-48	Columbite	T.A. 5
5-147	Columbite	T.A. 6	—	Seligmannite	M.M. 15-386
5-155	Boleite	M.A. 1-76	5-49	Berthonite	M.A. 2-149
5-162	Monazite	M.A. 1-333	5-496	Columbite	T.A. 5
5-165	Trevorite	M.A. 2-249	5-5	Bornite	M.A. 1-250
5-169	Pyrite	T.A. 2	—	Cuproplumbite	T.A. 5
5-17	Monazite	T.A. 4	5-50	Bayldonite	T.A. 5
—	”	M.A. 2-36	—	Samarskite	T.A. 5
5-173	Haematite	T.A. 4	—	”	M.A. 2-406
5-18	Ilmenorutile	M.A. 2-405	5-502	Cuproplumbite	T.A. 5
—	MnNb ₂ O ₆ (calc.)	M.M. 18-119	5-504	Parabayldonite	T.A. 5
5-2	Monazite	M.A. 1-173	5-51	Chalcosine	T.A. 4
—	Zirkelite	M.M. 16-313	—	Proustite (art.)	T.A. 3
5-20	Mossite (calc.)	M.M. 18-119	5-512	Parabayldonite	T.A. 5
—	Columbite	M.A. 2-473	5-517	Magnetoplumbite	M.A. 3-5
5-201	”	M.A. 2-192	5-52	Columbite	T.A. 3
5-21	Bayldonite	T.A. 5	—	”	T.A. 5
—	Keeleyite	M.A. 2-11	—	”	M.A. 1-173
5-22	Zirkelite	M.M. 16-310	5-54	Plagionite	T.A. 3
5-23	Linarite	T.A. 2	5-563	Columbite	T.A. 6
5-24	Monazite	T.A. 4	5-576	Ganomalite	T.A. 5
—	Samiresite	T.A. 3	5-58	Fergusonite	T.A. 2
5-25	Ambatoarinite	M.A. 1-148	5-59	Columbite	M.A. 2-36
—	Monazite	T.A. 4	5-590	Chalcosine	T.A. 4
—	Strüverite	T.A. 2	5-594	”	T.A. 4
5-261	Haematite	T.A. 4	5-60	Proustite	T.A. 4
5-262	”	T.A. 2	5-602	Aramayoite	M.M. 21-161
5-273	Columbite	T.A. 4	5-613	Columbite	T.A. 6
—	Monazite	T.A. 4	5-62	Jamesonite	T.A. 3
5-28	Columbite	T.A. 5	5-63	Microlite	M.A. 1-73
—	”	M.A. 1-173	5-636	Arsenic	M.M. 20-301
5-29	Cesarolite	M.A. 1-201	5-685	Schoepite	M.A. 2-384
5-3	Columbite	T.A. 5	5-694	Chalcosine	T.A. 4
5-30	Fergusonite	M.A. 3-10	5-70	Arseno-bismite	M.A. 1-255
—	”	M.A. 3-268	—	Samarskite	M.A. 2-406
—	Strüverite	M.M. 16-225	—	Columbite	M.A. 3-284
—	Vrbaite	T.A. 3	5-703	Chalcosine	T.A. 4
5-31	Monazite	T.A. 4	5-73	Fluocerite	M.A. 1-253
—	Samarskite	M.A. 2-406	5-774	Chalcosine	T.A. 4
5-35	Bismutoplacionite	M.A. 1-75	5-78	Arsenic	M.A. 3-145

5-78	Fergusonite	M.A. 2-405	6-519	Skutterudite	M.A. 3-305
5-781	Chalcocine	T.A. 4	6-527	Naumannite	M.A. 1-144
5-783	"	T.A. 4	6-53	Barysilite	M.A. 1-48
5-785	"	M.A. 2-19	6-535	Kobellite	T.A. 4
5-790	Pyrgaryrite (art.)	T.A. 3	6-54	Cannizzarite	M.A. 3-10
5-80	Allemontite	M.A. 1-356	—	Cerussite	M.A. 2-111
5-81	Bournonite	T.A. 4	6-55	Bismuthinite	M.A. 2-562
5-829	"	M.A. 1-423	—	Cosalite	M.A. 1-293
5-84	Semseyite	M.M. 18-358	6-70	Ullmannite	T.A. 1
5-87	Eschwegeite	M.A. 3-113	6-706	Barysilite	M.A. 1-48
5-88	Mispickel	M.A. 1-423	6-725	Columbite	T.A. 5
5-9	Scheelite	M.A. 3-140	6-73	Bismuthinite	M.A. 1-77
5-90	Mottramite	M.A. 1-150	6-734	Rammelsbergite	M.A. 3-305
5-92	Allemontite	T.A. 5	6-76	Cosalite	M.A. 1-293
5-93	Mottramite	M.A. 1-150	6-763	Chloroxiphite	M.M. 20-76
5-943	Schultenite	M.M. 21-155	6-781	Cassiterite	M.M. 16-119
5-96	Gersdorffite	T.A. 5	6-786	Hydrocerussite	M.M. 20-85
5-962	Kasolite	M.A. 1-249	6-79	Skutterudite	M.A. 1-356
6-00	Descloizite	M.A. 1-144	6-80	Cosalite	M.A. 1-293
6-02	Hydrocerussite	M.A. 2-111	—	Hydrocerussite	M.M. 20-84
6-026	Ultrabasite	M.A. 1-149	6-842	Quenselite	M.A. 3-110
6-04	Samarskite	M.A. 2-406	6-845	Columbite	T.A. 5
6-046	Fourmarierite	M.A. 2-343	6-913	Cassiterite	M.A. 1-144
6-05	Allemontite	T.A. 5	6-93	Penroseite	M.A. 3-112
—	Semseyite	M.A. 3-8	—	Wolframite	M.A. 2-113
6-07	Cosalite	M.A. 1-259	6-94	Cosalite	M.A. 1-259
—	Wolframite	M.A. 2-113	6-954	Tantalite	T.A. 5
6-08	Phosgenite	M.A. 2-475	6-96	Gladite	M.A. 2-340
6-1	Mispickel	M.A. 1-336	6-98	Mimetite	M.A. 1-150
6-12	Phosgenite	M.A. 3-29	7-0	Rammelsbergite	M.A. 1-410
6-127	Stromeyerite	M.A. 2-470	7-01	Lindströmite	M.A. 2-340
6-14	Cocinerite	M.A. 1-18	7-019	Tantalite	T.A. 5
—	Mispickel	M.A. 1-337	7-02	Rammelsbergite	T.A. 5
6-15	Gersdorffite	M.A. 1-330	7-04	Galenobismutite	M.A. 2-339
6-19	Duftite	M.A. 1-150	7-05	Pyromorphite	T.A. 4
—	Cuprodescloizite	M.A. 1-150	7-062	Tantalite	M.A. 1-73
6-2	Ishikawaite	M.A. 2-9	7-07	Matildite	T.A. 5
6-23	Alaskaitite	M.A. 3-272	—	Pyromorphite	T.A. 4
—	Parsonsite	M.A. 2-50	—	Wolframite	M.A. 2-113
—	Columbite	M.A. 3-284	7-08	Finnemanite	M.A. 2-147
6-24	Phosgenite	M.A. 2-111	—	Pyromorphite	T.A. 4
6-26	Stromeyerite	M.A. 2-110	7-09	Lillianite	M.A. 1-259
6-260	"	M.A. 2-519	—	Pyromorphite	T.A. 4
6-274	Boulangerite (mullanite)	M.A. 1-151	—	Wolframite (hübnerite)	T.A. 4
6-303	Epiboulangerite	M.A. 1-150	7-10	Pyromorphite	T.A. 4
6-34	Allemontite	M.A. 1-356	—	Wolframite	M.A. 3-305
6-350	Anglesite	T.A. 4	7-11	Pyromorphite	T.A. 4
6-4	Ishikawaite	M.A. 2-9	7-12	"	T.A. 4
6-407	Boulangerite (mullanite)	M.A. 1-151	—	Wittite	M.A. 2-340
6-412	Diaboleite	M.M. 20-79	—	Galenobismutite	M.A. 2-339
6-43	Meneghinite	T.A. 1	7-124	Pyromorphite	M.A. 3-310
6-444	Columbite	T.A. 5	7-126	Pitchblende	M.A. 2-182
6-451	Jordanite (reniforite)	M.A. 3-114	7-13	Cosalite	M.A. 3-8
6-46	Cerussite	M.A. 2-111	7-14	Lillianite	T.A. 1
—	Vanadinite	M.A. 1-295	7-15	Mimetite	M.A. 1-126
6-5	Tantalite	T.A. 5	—	Se-chiviatite	M.A. 2-341
6-50	Manganotantalite	M.A. 1-80	7-162	Wolframite	T.A. 4
			7-163	Warthaite	M.A. 3-7
			7-180	Tantalite	T.A. 5
			7-186	Mimetite	M.A. 3-310

7-190	Tapiolite	T.A. 5	7-81	Maucherite	T.A. 4
7-192	Curite	M.A. 1-249	7-83	"	T.A. 4
7-2	Wolframite	M.A. 3-140	7-839	Tapiolite	M.M. 18-117
7-22	Löllingite	T.A. 5	7-84	"	M.M. 18-116
7-23	Metaciannabarite (levigianite)	M.A. 3-206	7-875	"	M.M. 18-117
—	Wolframite	M.A. 3-155	7-878	Tantalite	T.A. 5
7-235	Argentite	T.A. 6	7-88	Ixiolite (calc.)	M.M. 18-119
7-240	Mendipite	M.M. 20-74	7-90	Tapiolite (calc.)	M.M. 18-119
7-265	Finnemanite	M.A. 2-147	7-901	Maucherite	T.A. 4
7-272	Wolframite	T.A. 4	7-907	Tapiolite	M.M. 18-117
7-275	Löllingite	T.A. 5	7-91	"	M.M. 18-116
7-29	Goongarrite	M.A. 2-336	7-952	Chubutite	M.A. 1-121
7-30	Galena	M.A. 2-110	7-975	Tantalite	M.A. 2-192
—	Tantalite	T.A. 5	—	Kleinite	T.A. 1
7-301	"	M.A. 1-73	7-98	Platynite	T.A. 1
7-33	Löllingite	T.A. 5	7-987	Kleinite	T.A. 1
7-36	Tapiolite	M.M. 18-115	8-00	Hessite	M.A. 3-264
7-39	Galena	M.A. 2-110	8-20	Tantalite	M.A. 2-473
—	Lorettoite	M.A. 1-120	8-28	Trigonite	M.A. 1-149
—	Schwartzembergite	T.A. 2	8-33	Silver (cupriferous)	M.A. 2-110
7-4	Tapiolite	T.A. 5	8-61	Massicot	T.A. 4
7-40	Argentite	T.A. 4	8-62	Copper	M.A. 2-110
7-44	Tapiolite	M.M. 18-114	8-723	Terlinguaite	T.A. 1
7-45	"	M.M. 18-115	8-728	"	T.A. 1
7-46	"	M.M. 18-114	8-735	Petzite	M.A. 3-264
7-468	Tantalite	T.A. 5	8-80	Copper	M.A. 2-110
7-49	Wolframite	M.A. 3-155	9-082	Uraninite	M.A. 2-409
7-50	Galena	M.A. 2-110	9-182	"	M.A. 3-106
7-510	Empressite	T.A. 4	9-33	Thorianite	T.A. 4
7-52	Tapiolite	M.M. 18-114	9-660	Uraninite	M.A. 3-106
7-53	Petzite	M.A. 3-305	9-787	"	M.A. 3-106
7-55	Galena	M.A. 2-110	9-83	Silver	M.A. 2-110
7-6	Orueteite	M.A. 1-201	10-58	Sperryllite	M.M. 21-95
7-65	Lorettoite	M.A. 1-120	10-73	"	M.A. 2-138
—	CaTa ₂ O ₆ (calc.)	M.M. 18-119	11-2	Tantalum	T.A. 1
7-688	Joseite	M.A. 1-420	11-273	Lead	M.A. 1-103
7-69	Tapiolite	M.M. 18-111	13-33	Pd-amalgam	M.A. 3-4
7-73	Maucherite	T.A. 4	14-68	Gold (electrum)	M.A. 2-110
7-746	Awaruite	T.A. 2	15-82	Pd-amalgam	M.A. 3-4
7-793	Joseite	M.A. 1-420	15-96	Gold (electrum)	M.A. 2-110
7-794	Tantalite	T.A. 5	16-4	Platinum	M.A. 2-441
7-80	Maucherite	T.A. 4	18-35	"	M.A. 2-442
			19-0	"	M.A. 2-441

Alphabetical List of Minerals giving the minimum and maximum recorded values of specific gravity.

- Acmite-augite, 3-26-3-42
 Actinolite, 2-913-3-079
 Aegirine, 3-3-3-558
 Aenigmatite, 3-732-3-758
 Afwillite, 2-619-2-630
 Ajkaite, 1-541
 Åkermanite, 2-944-2-980
 Akrochordite, 3-194
 Alaskaite, 6-23
 Albite, 2-603-2-688
 Allanite, 2-50-4-20
 Allemontite, 5-80-6-34
 Allophane, 1-88-1-94
 Almandine, 3-77-4-33
 Almandine-pyrope, 3-80-3-95
 Alstonite, 3-67-3-707
 Alunite, 2-63-2-726
 Alunogen, 1-713-1-735
 Ambatoarinite, 5-25
 Amblygonite, 2-989-3-101
 Amesite, 2-77
 Ampangabeite, 3-348-4-644
 Analcime, 2-2-2-285
 Anatase, 3-95
 Anauxite, 2-524
 Ancyrite, calcio-, 3-82
 Andalusite, 3-118-3-29
 Andesine, 2-663-2-675
 Andradite, 3-50-3-85
 Anemousite, 2-684
 Anglesite, 6-350
 Anhydrite, 2-981
 Ankerite, 2-99-3-19
 Annabergite, 2-907
 Anorthite, 2-703-2-763
 Anorthoclase, 2-584-2-63
 Anthophyllite, 2-95-3-138
 — ferro-, 3-24-3-83
 Anthraxolite, 1-845
 Antigorite, 2-613
 Apatite, 3-151-3-270
 — chlor-, 3-14-3-20
 — fluor-, 3-18-3-206
 — mangan-, 3-257
 — sulphate-, 3-196-3-207
 Aphrosiderite, 2-959
 Apthitalite, 2-7
 Apophyllite, 2-323-2-379
 Aragonite, 2-861-3-15
 Arakawaite, 3-09
 Aramayoite, 5-447-5-602
 Arduinite, 2-26
 Argentite, 7-235-7-40
 Armangite, 4-23
 Arsenic, 5-636-5-78
 Arseno-bismite, 5-70
 Asbestos, amphibole-, 2-97
 Asbolane, 2-985
 Ascharite, 2-69
 Atacamite, 3-769-3-780
 Augite, 3-242-3-44
 — titan-, 3-29-3-39
 Aurichalcite, 3-274-3-64
 Autunite, 3-198
 Avogadrite, 2-498-2-617
 Awaruite, 7-746
 Axinite, 3-22-3-314
 Bababudanite, 3-18
 Babingtonite, 3-351-3-398
 Bardolite, 2-470
 Barkevikite, 3-298-3-518
 Barthite, 4-19
 Barylite, 4-027
 Barysilite, 6-53-6-706
 Baryte (Sr-), 4-29
 Baryte (Pb-), 4-62
 Barytoalcite, 3-71
 Bassetite, 3-10
 Bastnäsait, 4-948
 Bauxite, 2-4-2-5
 Bavalite, 3-20
 Bayldonite, 5-21-5-50
 Bazzite, 2-80
 Becquerelite, 4-967
 Bementite, 3-106
 Bentonite, 2-44-2-78
 Beraunite, 2-850-2-99
 Berthonite, 5-49
 Bertrandite, 2-59-2-604
 Beryl, 2-545-2-910
 Betafite, 3-75-4-17
 Biotite, 2-692-3-16
 Bismuthinite, 6-55-6-73
 Bismutoplagonite, 5-35
 Blende, 3-935-4-09
 Bloedite, 2-32
 Blomstrandine, 4-88-5-00
 Blomstrandite, 4-7-4-17
 Boleite, 4-74-5-155
 Bolivarite, 2-05
 Bolivianite, 4-1
 Boothite, 2-02
 Boracite, 2-89-2-91
 Bornite, 5-037-5-5
 Boulangerite, 6-274-6-407
 Bournonite, 5-81-5-829
 Brannerite, 4-5-5-43
 Bravoite, 4-62
 Brochantite, 3-88
 Bronzite, 3-208-3-338
 Brookite, 3-968
 Brucite, 2-38-2-39
 Buttgenbachite, 3-33
 Calcio-thomsonite, 2-405
 Calcite, 2-699-2-82
 Camsellite, 2-60
 Cancrinite, 2-41-2-47
 Cannizzarite, 6-54
 Carnegeite, 2-513
 Cassiterite, 6-718-6-913
 Catapleite, α -, 2-658
 Cebollite, 2-96
 Celestine, 3-84-3-968
 Centralasite, 2-51
 Cerussite, 6-46-6-54
 Cesarolite, 5-29
 Ceylonite, 4-12
 Chabazite, 2-09-2-168
 Chalcedony, 2-55-2-63
 Chalcoalumite, 2-29
 Chalcopyrite, 4-12
 Chalcosine, 5-51-5-785
 Chalmersite, 4-04
 Chalybite, 3-63-3-96
 Chapmanite, 3-578
 Chiolite, 2-995-3-005
 Chiviatite, 7-15
 Chlorite, 2-386-2-396
 Chloritoid, 3-45
 Chloromelanite, 3-365
 Chlorophaeite, 1-81
 Chloroxiphite, 6-763
 Chondrodite, 3-175
 Chromohercynite, 4-415
 Chrysoberyl, 3-49-3-73
 Chrysocolla, 2-400-2-417
 Chrysotile, 2-457-2-57
 Chubutite, 7-952
 Clinocllore, 2-657-2-787
 Clinzoisite, 3-212-3-366
 Clintonite, 3-093
 Cobalt-nickel-pyrite, 4-716
 Cobalt-pyrite, 4-965
 Cocinerite, 6-14

Colerainite, 2-51
 Collophane, 2-6-2-9
 Columbite, 5-147-6-845
 Connellite, 3-54
 Copiapite, 2-087
 Copper, 8-62-8-80
 Cordierite, 2-571-2-660
 Cornetite, 4-10
 Corundophyllite, 2-881
 Corundum, 3-97-4-03
 — β -, 3-30
 Cosalite, 6-07-7-13
 Couzeranite, 2-625
 Covellite, 4-65-4-683
 Crednerite, 4-972-5-03
 Creedite, 2-713-2-730
 Crestmoreite, 2-22
 Cristobalite, 2-32-2-36
 Crocidolite, 3-20
 Cryolithionite, 2-774
 Cryptohalite, 2-004
 Cumengeite, 4-74-4-88
 Cummingtonite, 3-23
 Cuprodescloizite, 6-19
 Cuproplumbite, 5-5-5-502
 Cuprozincite, 4-104
 Curite, 7-192
 Curtisite, 1-21
 Cuspidine, 2-965-2-989
 Custerite, 2-91
 Dahllite, 3-00-3-094
 Damourite, 2-872
 Danburite, 2-93-2-974
 Dannemorite, 3-516
 Datolite, 2-993-3-001
 Davyne, 2-34-2-492
 Delvauxite, 1-815-1-999
 Demantoid, 3-801
 Descloizite, 6-00
 Destinezite, 2-105
 Dewindtite, 4-8
 Diabantite, 2-77-2-79
 Diaboleite, 6-412
 Diamond, 3-513-3-514
 Diaspore, 3-385
 Diopside, 3-037-3-544
 — jadeite, 3-270-3-330
 — chrome-, 3-337
 — fluor-, 3-236
 Dioptase, 3-296-3-318
 Dixenite, 4-20
 Dolomite, 2-829-2-993
 Dufrenite, 3-5
 Duftite, 6-19
 Dumortierite, 3-30-3-36
 Dussertite, 3-75
 Dysanalyte, 4-26
 Eakleite, 2-685-2-705
 Eichbergite, 5-36

Ekmanite, 2-671
 Ektropite, 2-46
 Ellsworthite, 3-608-3-758
 Epidite, titano-,
 2-533-2-560
 Emerald, 2-648-2-709
 Emprussite, 7-510
 Enargite, 4-49-4-55
 Enstatite, 3-254-3-303
 Epiboulangerite, 6-303
 Epichlorite, 2-52
 Epidesmine, 2-152-2-16
 Epidote, 3-137-3-507
 Epinatrolite, 2-235-2-24
 Erythrite, 3-149
 Eschwegeite, 5-87
 Euclase, 3-05-3-09
 Eucolite, 2-97
 Eucryptite, 2-667
 — pseudo-, 2-365
 Eudialyte, 2-84-2-86
 Euxenite, 4-594-4-99
 Evansite, 1-924-1-929
 Fassaitite, 3-308
 Fayalite, 3-91-4-28
 — mangan-, 4-32
 Fergusonite, 4-98 5-78
 Fermorite, 3-518
 Ferrazite, 3-0-3-3
 Ferrierite, 2-150
 Ferrimolybdate, 2-99
 Ferrisymplectite, 2-885
 Ferronatrite, 2-6
 Ferropiccolite, 3-93
 Fibroferrite, 1-901-2-09
 Fibrolite, 3-10-3-266
 Finnemanite, 7-08-7-265
 Flagstaffite, 1-092
 Flint, 2-61-2-63
 Fluoborite, 2-89
 Fluocerite, 5-73
 Fluorite, 2-97-3-201
 Fluosiderite, 3-13
 Forsterite, 3-216-3-268
 Foshagite, 2-36
 Fourmarierite, 6-046
 Franklinite, 5-09
 Gadolinite, 4-0-4-6
 Gahnite, 4-478-4-602
 Gajite, 2-619
 Galena, 7-30-7-55
 Galenobismutite,
 7-04-7-12
 Ganomalite, 5-576
 Gearksutite, 2-710-2-768
 Gedrite, 3-240
 Gehlenite, 2-969-3-039
 Gerhardtite, 3-34-3-46

Germanite, 4-46-4-59
 Gersdorffite, 5-96-6-15
 Gillespite, 3-33
 Gladite, 6-96
 Glaucocroite, 2-216
 Glauconite, 2-70-2-82
 Glinkite, 3-463
 Gmelinite, 2-045-2-135
 Goethite, 4-18-4-481
 Gold (electrum),
 14-68-15-96
 Goongarrite, 7-29
 Graphite, 2-216
 Grossockite, 4-820
 Griffithite, 2-309
 Grodnolite, 2-974
 Grmelinite, 3-226-4-254
 Grothine, 3-079-3-090
 Grunerite, 3-311-3-561
 Guarinite, 3-31
 Gummitz, 5-08
 Gypsum, 2-32
 Gyrolite, 2-35-2-40
 Haematite, 5-173-5-262
 Halite, 2-166
 Halloysite, 2-44-2-714
 Halotrichite, 1-807-1-899
 Hambergite, 2-36
 Harmotome, 2-350-2-365
 Hastingsite, 3-16-3-426
 Hatchettolite, 4-417-4-509
 Hausmannite, 4-778-4-836
 Hedenbergite, 3-50
 Helvine, 3-289
 Hercynite, 4-01
 Hessite, 8-00
 Hessonite, 3-596-3-633
 Hetaerolite, 4-6-4-85
 Heterobrochantite, 3-757
 Heterogenite, 3-128
 Heulandite, 2-16-2-249
 Hewettite, 2-554
 Hexahydrite, 1-757
 Hibbenite, 3-213
 Higginsite, 4-33
 Hinsdalite, 3-65
 Hisingerite, 2-50
 Hodgkinsonite, 3-91
 Hoelite, 1-43
 Högboomite, 3-81
 Hopeite, 3-03
 Hornblende, 3-13-3-518
 Hörnesite, 2-57
 Hortonolite, 3-98
 Hulsite, 4-31
 Humboldtite, 2-92-2-975
 Huronite, 2-819
 Hyalophane, 2-90
 Hydrocerussite, 6-02-6-80

- Hydrogiobertite, 2-152
 Hydrohaematite, 4-33-4-7
 Hydromagnesite, 2-152-2-16
 Hydronephelite, 2-40-2-46
 Hydrophlogopite, 2-783
 Hypersthene, 3-36-3-415
- Iddingsite, 2-54-2-80
 Idocrase, 3-32-3-47
 Ilmenite, 4-44-4-86
 Ilmenorutile, 5-18
 Ilvaite, 3-95-4-00
 Imerinite, 3-02
 Inesite, 3-029-3-03
 Inyoite, 1-875
 Ishikawaite, 6-2-6-4
 Ixiolite, 7-88
- Jadeite, 3-335
 Jamesonite, 5-62
 Jarosite, 3-17-3-64
 Jefferisite, 2-38
 Johannite, 3-307
 Johnstrupite, 3-17
 Jordanite, 6-451
 Joseite, 7-688-7-793
 Jurupaite, 2-75
 Justite, 2-98-3-24
- Kainite, 2-132
 Kaliophilite, 2-56-2-61
 Kalkowskyn, 4-01
 Kämmererite, 2-59-2-67
 Kaolin, 2-32-2-59
 Kasolite, 5-962
 Katangite, 2-4
 Katoptrite, 4-5
 Keeleyite, 5-21
 Kempite, 2-94
 Kernite, 1-953
 Kieserite, 2-573
 Kleinite, 7-975-7-987
 Kobellite, 6-535
 Kochite, 2-927-2-932
 Kornelite, 2-306
 Kreuzbergite, 2-139
 Kyanite, 3-282-3-598
- Labradorite, 2-686-2-718
 Lacroixite, 3-126
 Lanthanite, 2-69-2-74
 Laumontite, 2-272-2-42
 Lawsonite, 3-12
 Lazulite, 2-958
 Lead, 11-273
 Leifite, 2-565-2-578
 Leonite, 2-201
 Lepidocrocite, 4-09
 Lepidolite, 2-799-2-881
- Lepidomelane, 3-151-3-294
 Leuchtenbergite, 2-648-2-735
 Leucite, 2-48-2-51
 Lillianite, 7-09-7-14
 Linnite, 2-8
 Limonite, 3-87
 Linarite, 5-23
 Lindströmite, 7-01
 Linnaeite, 4-82-4-85
 Lithidionite, 2-56
 Lithionite, 2-972
 Lithiophilite, 3-39
 Lithomarge, 2-54-2-55
 Löllingite, 7-22-7-23
 Loparite, 4-73-4-77
 Loretoite, 7-39-7-65
 Lovchorrite, 3-32
 Löweite, 2-374
 Lubeckite, 4-8
 Lublinite, 2-65
 Lucinite, 2-52-2-53
 Ludlamite, 3-19
- Mackensite, 4-89
 Magnalite, 2-34
 Magnesite, 2-95-3-12
 Magnetite, 4-967
 Magnetoplumbite, 5-517
 Manganite, 4-29
 Manganolangbeinite, 3-02-3-03
 Manganophyllite, 2-743-2-954
 Manganosite, 5-364
 Marcasite, 4-609-4-887
 Margarosanite, 3-991-4-39
 Marialite, 2-50-2-692
 Massicot, 8-61
 Matildite, 7-07
 Maucherite, 7-73-7-901
 Meerschau, 2-02
 Meionite, 2-815
 Melanite, 3-908
 Melanovanadite, 3-477
 Mellilite, 2-929-3-24
 Mendelyevite, 4-44-4-766
 Mendipite, 7-240
 Meneghinite, 6-43
 Merrillite, 3-10
 Merwinite, 3-150
 Mesitite, 3-375
 Mesolite, 2-257-2-260
 Metabrushite, 3-666
 Metacinnabarite, 7-23
 Metahewettite, 2-511
 Meyerhofferite, 2-120
 Miargyrite, 5-36
 Microcline, 2-554-2-692
- Mimetite, 6-98-7-186
 Minguetite, 2-86
 Mispickel, 5-88-6-14
 Mizzonite, 2-60
 Molybdenite, 4-62
 Monazite, 5-11-5-31
 Monetite, 2-863
 Montebrasite, 3-008
 Monticellite, 3-04-3-20
 Mordenite, 2-125-2-193
 Mossite, 5-20
 Mottramite, 5-90-5-93
 Muscovite, 2-797-2-891
 Myeline, 2-714
- Natramblygonite, 3-01-3-06
 Natrojarosite, 3-11
 Natrolite, 2-133-2-248
 Naumannite, 6-527
 Neotocite, 2-5
 Nepheline, 2-528-2-664
 Nephrite, 2-938-3-06
 Neptunite, mangan-, 3-203
 Nocerite, 2-96
 Nonttronite, 2-29-2-295
 Norbergite, 3-13-3-15
- Okenite, 2-206-2-332
 Oligoclase, 2-612-2-672
 — potash-, 2-615-2-625
 Olivine, 3-301-3-56
 — calc-, 3-190-3-341
 — (hortonolite), 3-98
 Omphacite, 3-31
 Opal, 2-06-2-22
 Orientite, 3-05
 Orthoclase, 2-536-2-600
 Orueteite, 7-6
 Oxalite, 2-28
- Pachnolite, 2-976
 Pageite, 4-78
 Palaite, 3-14-3-20
 Palladium amalgam, 13-33-15-82
 Palmierite, 4-50
 Parabayldonite, 5-44-5-512
 Paradoxite, 2-425-2-430
 Parahopeite, 3-21-3-236
 Paraurichalcite, 4-137-4-201
 Paravauxite, 2-291-2-30
 Paredrite, 3-97-4-08
 Pargasite, 3-069-3-181
 Parisite, 4-320
 Parsettensite, 2-590-2-681
 Parsonsite, 6-23

- Pascoite, 2-457
 Paternoite, 2-11
 Pectolite, 2-736-2-857
 Pennine, 2-619-2-682
 Penroseite, 6-93
 Pentlandite, 4-638
 Penwithite, 2-20
 Petalite, 2-414
 Petzite, 7-53-8-785
 Phenakite, 2-944-3-041
 Phlogopite, 2-737-2-869
 Phosgenite, 6-08-6-24
 Phosphoferrite, 3-156
 Phosphophyllite, 3-081-3-082
 Phosphorite, 2-72-2-86
 Phosphosiderite, 2-726
 Pickeringite, 1-84
 Picrotaphroite, 3-72
 Pinite, 2-780
 Pinnoite, 2-292
 Pisanite, 1-950
 Pisekite, 4-032
 Plagionite, 5-47-5-54
 Plancheite, 3-37
 Platinum, 16-4-19-0
 Platynite, 7-98
 Plazolite, 3-129
 Poehchite, 3-693-3-721
 Powellite, 4-22
 Prehnite, 2-875-2-943
 Priceite, 2-43-2-483
 Prismaticite, 3-345
 Prochlorite, 2-60-2-936
 Protolithionite, 3-148-3-305
 Proustite, 5-51-5-60
 Pseudobrookite, 4-60
 Pseudomalachite, 3-58
 Pseudonopheline, 2-68
 Pseudophite, 2-693-2-695
 Psilomelane, 4-20-4-30
 Ptilolite, 2-10-2-30
 Pufahlite, 5-4
 Pumpellyite, 3-2
 Pyrrargyrite, 5-790
 Pyrite, 4-970-5-169
 Pyrobelonite, 5-377
 Pyrolusite, 4-748-4-885
 Pyromorphite, 7-05-7-124
 Pyrope, 3-510-3-75
 Pyrophyllite, 2-659
 Pyroxmangite, 3-80
 Pyrrhotine, 4-56
 Quartz, 2-649-2-697
 Quenselite, 6-842
 Quisquite, 1-75
 Racewinitite, 1-94-1-98
 Radiophyllite, 2-45-2-60
 Ralstonite, 2-614
 Rammelsbergite, 6-734-7-02
 Ramsayite, 3-43-3-47
 Rancieite, 3-25-3-30
 Rathite, 5-453
 Reddingite, Fe-, 2-96-3-10
 Retinite, 1-03-1-051
 Rhodizite, 3-344
 Rhodochrome, 2-644
 Rhodochrosite, 3-312-3-743
 — zinc-, 3-86
 Rhodolite, 3-75-3-837
 Rhodonite, 3-416
 Riebeckite, 3-391-3-44
 Rinkolite, 3-40
 Ripidolite, 2-975
 Rivaite, 2-55-2-56
 Riversideite, 2-64
 Romeite, 5-044-5-074
 Rosasite, 4-09
 Roscherite, 2-916
 Rumpfitte, 2-666
 Rutile, 4-123-4-272
 Salmonsite, 2-88
 Samarskite, 4-2-6-04
 Samiresite, 5-24
 Sarcopsidite, 3-64
 Sarkinite, 4-173-4-178
 Scapolite, 2-506-2-78
 Schafarzikite, 4-3
 Schallerite, 3-368
 Scheelite, 5-9
 Schneebergite, 5-41
 Schoepite, 5-685
 Schultenite, 5-943
 Schungite, 1-122
 Schwartzembergite, 7-39
 Scolecite, 2-198-2-279
 Scorodite, 2-70-3-235
 Searlesite, 2-45
 Seligmannite, 5-44-5-48
 Sellaite, 3-17
 Semseyite, 5-84-6-05
 Sericite, 2-798
 Serpentine, 2-528-2-61
 Sheridanite, 2-702
 Sicklerite, 3-45
 Silica glass, 2-194-2-213
 Silver, 3-33-9-83
 Sincosite, 2-84
 Sklodowskite, 3-54-3-74
 Skutterudite, 6-519-6-79
 Smithsonianite, 4-19-4-410
 Sobralite, 3-60
 Sodalite, 2-295-2-33
 Soddite, 4-627
 Soumansite, 2-87
 Spencerite, 3-123-3-142
 Sperryllite, 10-58-10-73
 Spessartine, 4-058-4-35
 Spheue, 3-411-3-499
 Spinel, 3-682-3-924
 Spodumene, α -, 2-997-3-301
 — β -, 2-317-2-463
 — γ -, 2-313
 Stasite, 5-03
 Staszicite, 4-227
 Staurolite, 3-753-3-778
 Stevensite, 2-15-2-20
 Stewartite, 2-94
 Stichtite, 2-161
 Stibnite, 4-651-4-654
 Stilbite, 2-116-2-21
 Stilpnomelane, 2-85-2-882
 Strengite, 2-84-2-86
 Stromeyerite, 6-127-6-260
 Strüverite, 4-91-5-036
 Sulphohalite, 2-5
 Sulphur (monoclinic), 2-074
 Sursassite, 3-252
 Svabite, 3-695
 Svanbergite, 3-14
 Swedenborgite, 4-285
 Syngenite, 2-579
 Szajbelyite, 2-76
 Tabergite, 2-803
 Tachyhydrite, 1-664-1-669
 Talc, 2-832
 Tantalite, 6-5-8-20
 Tantalum, 11-2
 Tapiolite, 7-190-7-91
 Taramite, 3-439-3-476
 — fluo-, 3-231-3-318
 Tennantite, 4-576-4-746
 Tephroite, 4-044
 Terlinguaite, 3-723-3-728
 Tetrahydrite, 4-597-5-079
 Thalenite, 4-454
 Thaumassite, 1-85-1-879
 Thenardite, 2-67
 Thomsenolite, 2-982
 Thomsonite, 2-22-2-389
 Thorianite, 9-33
 Thortveitite, 3-55-3-571
 Thuringite, 3-07
 Tilasite, 3-76-3-77
 Tinzenite, 3-286-3-416
 Toddite, 5-041
 Topaz, 3-349-3-59
 Torbernite, 3-219-3-95
 — meta-, 3-67-3-68
 Torendrikite, 3-153-3-21
 Törnbohmitte, 4-94

Tourmaline, 2.978-3.250	Vanadinite, 6.46	Wöhlerite, 3.48
Trevorite, 4.67-5.165	Variscite, 2.47	Wolframite, 6.93-7.49
Tridymite, 2.267-2.270	Vauxite, 2.375-2.57	Wollastonite, 2.897-2.992
Trigonite, 8.28	Velardeñite, 3.038-3.089	Wurtzite, 4.087
Trimerite, 3.404	Villamaninite,	
Triphylite, 3.531	4.433-4.523	
Triplite, 3.584-3.875	Viridine, 3.202-3.238	Xanthitane, 3.04
Trona, 2.14	Viridite, 2.89	Xanthophyllite, 3.081
Trudellite, 1.93	Vivianite, 2.678-2.693	Xanthoxenite, 2.844
Truscottite, 2.47	Voelckerite, 3.06-3.10	Xenotime, 4.55
Tschermigite, 1.645	Vogtite, 3.39	Xonotlite, 2.655
Turquoise, 2.84	Volgerite, 3.082	
Tyuyamunite, 3.67-4.35	Vonsenite, 4.21	Yttrocerite, 3.61
	Vrbaite, 5.30	Yttrofluorite, 3.319-3.557
Ulexite, 1.91		
Ullmannite, 6.70	Warthaite, 7.163	Zebedassite, 2.194
Ultrabasite, 6.026	Wavellite, 2.825	Zeunerite, 3.28
Uralite, 3.118	Weibyeite, 3.19	Zinnwaldite, 2.916-3.018
Uraninite, 7.126-9.787	Weslienite, 4.964-4.971	Zircon, 4.048-4.748
Uranospathite, 2.50	Wilkeite, 3.234	Zirkelite, 4.3-5.22
Ussingite, 2.495	Witherite, 4.29	Zoisite, 3.35
Uvarovite, 3.418-3.81	Wittite, 7.12	

Addendum.—During the printing of the above numerical table some duplicate determinations for beryl have been deleted, and there is still an undue preponderance in the number of determinations for this mineral between 2.7 and 2.799. Also, since the curve (fig., p. 340) was drawn, forty-four values have been added from the last number (no. 118) of the Magazine. The result is that the peak of the curve is now at 2.65 for 196 determinations.