

Table 1. Fluorine contents of wavellite and fluorwavellite from worldwide localities.

Locality	Species	F wt%	F apfu	Comments	Genesis *
Toms quarry, Kapunda, South Australia, Australia	fluorwavellite	3.34	0.73	Mills et al. 2011b (EPMA)	S
Llallagua, Bolivia	wavellite (F-rich)	2.05	0.45	Palache et al. 1951 (wet chemistry)	H
Llallagua, Bolivia	fluorwavellite	3.34	0.73	This study (EPMA)	H
Llallagua, Bolivia	fluorwavellite	3.67	0.80	This study (EPMA)	H
Llallagua, Bolivia	fluorwavellite	4.18	0.91	This study (EPMA)	H
Llallagua, Bolivia	fluorwavellite	4.27	0.93	This study (EPMA)	H
Cerhovice, Czech Republic	wavellite	0.60	0.13	Palache et al. 1951 (wet chemistry)	H
Cerhovice, Czech Republic	fluorwavellite	4.15	0.94	A. Kasatkin pers. comm. (EPMA)	H
Svatá Dobrotivá, Czech Republic	fluorwavellite	4.34	0.98	A. Kasatkin pers. comm. (EPMA)	R
Zbirov, Czech Republic	wavellite	1.69	0.37	Dana 1892 (wet chemistry; reported as HF)	F
Zbirov, Czech Republic	wavellite (F-rich)	1.90	0.41	Capitelli et al. 2014 (EPMA)	F
Devon, England	wavellite (F-rich)	1.96	0.43	Dana 1892 (wet chemistry)	F
Devon, England	fluorwavellite	3.18	0.69	This study (SEM/WDS)	F
Kitilla, Finland	fluorwavellite (F-poor)	2.70	0.59	Mäkelä 1969 (EPMA)	H
Montebras, France	wavellite (F-rich)	2.27	0.49	Dana 1892 (wet chemistry)	P
Ronneburg, Thuringen, Germany	fluorwavellite	3.74	0.81	This study (SEM/WDS)	H
Clonmel, Ireland	fluorwavellite (F-poor)	2.79	0.61	Palache et al. 1951 (wet chemistry)	F
Cork, Ireland	wavellite (F-rich)	2.09	0.46	Dana 1892 (wet chemistry; reported as HF)	F
Toyoda, Japan	fluorwavellite	4.30	0.94	Matsubara et al. 1998 (wet chemistry)	H
Baturovskii quarry, Svetlyi, Southern Urals, Russia	fluorwavellite	3.33	0.74	A. Kasatkin pers. comm. (EPMA)	F
Baturovskii quarry, Svetlyi, Southern Urals, Russia	fluorwavellite	4.49	1.01	A. Kasatkin pers. comm. (EPMA)	F
Macadam quarry, Nikolskoe, Southern Urals, Russia	fluorwavellite	2.89	0.65	A. Kasatkin pers. comm. (EPMA)	F
Macadam quarry, Ushtaganka, Southern Urals, Russia	fluorwavellite	2.92	0.66	A. Kasatkin pers. comm. (EPMA)	F
Wavellitovaya kop', Verkhnyaya Sysert', Middle Urals, Russia	fluorwavellite	4.10	0.92	A. Kasatkin pers. comm. (EPMA)	F
Zauralovskii quarry, Zauralovo, Southern Urals, Russia	fluorwavellite	3.99	0.89	A. Kasatkin pers. comm. (EPMA)	F
Tharsis mine, Huelva Prov., Spain	fluorwavellite	4.17	0.91	This study (EPMA)	H
Augusta Ridge, Cherokee Co., Alabama, USA	fluorwavellite	4.19	0.91	This study (EPMA)	R

SE of Weogufka, Coosa Co., Alabama, USA	wavellite	1.22	0.27	This study (EPMA)	F
SE of Weogufka, Coosa Co., Alabama, USA	wavellite	1.57	0.34	This study (EPMA)	F
SE of Weogufka, Coosa Co., Alabama, USA	wavellite (F-rich)	2.01	0.44	This study (EPMA)	F
SE of Weogufka, Coosa Co., Alabama, USA	fluorwavellite	3.23	0.70	This study (EPMA)	F
Erin, Clay Co., Alabama, USA	wavellite	0.61	0.13	This study (EPMA)	F
Erin, Clay Co., Alabama, USA	wavellite	0.78	0.17	This study (EPMA)	F
Erin, Clay Co., Alabama, USA	fluorwavellite (F-poor)	2.88	0.63	This study (EPMA)	F
Nesbit Lake, Calhoun Co., Alabama, USA	wavellite	1.34	0.29	This study (EPMA)	R
Sid Hart mine, Indian Mt., Cherokee Co., Alabama, USA	fluorwavellite	4.01	0.87	This study (EPMA)	R
East of Coal City, St. Clair Co., Alabama, USA	wavellite	0.45	0.10	This study (EPMA)	R
East of Coal City, St. Clair Co., Alabama, USA	wavellite	0.45	0.10	This study (EPMA)	R
East of Coal City, St. Clair Co., Alabama, USA	wavellite	0.48	0.10	This study (EPMA)	R
East of Coal City, St. Clair Co., Alabama, USA	wavellite (F-rich)	1.47	0.32	This study (EPMA)	R
East of Coal City, St. Clair Co., Alabama, USA	wavellite (F-rich)	1.60	0.35	This study (EPMA)	R
East of Coal City, St. Clair Co., Alabama, USA	fluorwavellite (F-poor)	2.52	0.55	This study (EPMA)	R
East of Coal City, St. Clair Co., Alabama, USA	fluorwavellite (F-poor)	2.95	0.64	This study (EPMA)	R
Dug Hill (roadcut), Garland Co., Arkansas, USA	fluorwavellite (F-poor)	2.53	0.55	This study (EPMA)	F
Dug Hill (roadcut), Garland Co., Arkansas, USA	fluorwavellite	3.60	0.78	This study (EPMA)	F
Dug Hill (roadcut), Garland Co., Arkansas, USA	fluorwavellite	3.83	0.83	This study (EPMA)	F
Dug Hill (roadcut), Garland Co., Arkansas, USA	fluorwavellite	4.07	0.89	This study (EPMA)	F
Mauldin Mt., Montgomery Co., Arkansas, USA	wavellite	0.97	0.21	This study (EPMA)	F
Mauldin Mt., Montgomery Co., Arkansas, USA	fluorwavellite (F-poor)	2.86	0.62	This study (EPMA)	F
Mauldin Mt., Montgomery Co., Arkansas, USA	fluorwavellite	3.42	0.75	This study (EPMA)	F
Polk Co., Arkansas, USA	fluorwavellite	4.08	0.89	This study (EPMA)	F
Saline Co., Arkansas, USA	wavellite	1.03	0.22	This study (EPMA)	F
Saline Co., Arkansas, USA	fluorwavellite	3.13	0.68	This study (EPMA)	F
Saline Co., Arkansas, USA	fluorwavellite	4.05	0.88	This study (EPMA)	F
Saline Co., Arkansas, USA	fluorwavellite	4.09	0.89	This study (EPMA)	F
Saline Co., Arkansas, USA	fluorwavellite	4.20	0.92	This study (EPMA)	F
Saline Co., Arkansas, USA	fluorwavellite	4.45	0.97	This study (EPMA)	F
Saline Co., Arkansas, USA	fluorwavellite	4.66	1.02	This study (EPMA)	F
Slate Mt., El Dorado Co., California, USA	wavellite	0.38	0.08	This study (EPMA; rim)	F
Slate Mt., El Dorado Co., California, USA	wavellite	0.49	0.11	This study (EPMA; rim)	F

Slate Mt., El Dorado Co., California, USA	fluorwavellite	3.89	0.85	This study (EPMA; core)	F
Clear Spring mine, Polk Co., Florida, USA	fluorwavellite	4.17	0.91	This study (EPMA)	S
Polk Co., Florida, USA	wavellite	0.93	0.20	Bergendahl 1955 (wet chemistry)	S
Brewer mine, Polk Co., Georgia, USA	fluorwavellite	3.42	0.75	This study (EPMA)	R
Kreamer, Snyder Co., Pennsylvania, USA	fluorwavellite	4.14	0.90	This study (EPMA)	R
Moore's Mill, Cumberland Co., Pennsylvania, USA	wavellite	0.69	0.15	This study (EPMA)	R
Mt. Holly Springs, Cumberland Co., Pennsylvania, USA	wavellite	0.69	0.15	This study (EPMA)	R
Mt. Holly Springs, Cumberland Co., Pennsylvania, USA	fluorwavellite	3.95	0.86	Jacob et al. 1933 (wet chemistry)	R
Wharton mine, Pennsylvania, USA	fluorwavellite	3.18	0.69	This study (EPMA)	R
Silver Coin mine, Arsenate Drift, Humboldt Co., Nevada, USA	fluorwavellite	3.65	0.80	This study (SEM/WDS)	H
Silver Coin mine, Copper Stope, Humboldt Co., Nevada, USA	fluorwavellite	4.11	0.90	This study (SEM/WDS)	H
Silver Coin mine, Copper Stope, Humboldt Co., Nevada, USA	fluorwavellite	4.74	1.03	This study (EPMA; Table 1)	H
Silver Coin mine, Phosphate Stope, Humboldt Co., Nevada, USA	fluorwavellite	3.90	0.85	This study (EPMA)	H
Willard mine, Pershing Co., Nevada, USA	fluorwavellite	4.91	1.07	This study (SEM/WDS)	H
Northern Belle mine, Candelaria, Mineral Co., Nevada, USA	fluorwavellite	3.10	0.68	This study (SEM/WDS; core)	H
Northern Belle mine, Candelaria, Mineral Co., Nevada, USA	fluorwavellite	4.07	0.89	This study (SEM/WDS; rim)	H
Copper Knob, Cocke Co., Tennessee, USA	fluorwavellite (F-poor)	2.96	0.64	This study (EPMA)	R
Wood mine, Cocke Co., Tennessee, USA	fluorwavellite	4.08	0.89	This study (EPMA; Table 1)	R
Wood mine, Cocke Co., Tennessee, USA	fluorwavellite	4.18	0.91	This study (EPMA)	R
Bingham Canyon mine, Salt Lake Co., Utah, USA	fluorwavellite	3.19	0.69	This study (EPMA)	H
Kelly Bank mine, Rockbridge Co., Virginia, USA	wavellite (F-rich)	2.14	0.47	This study (EPMA)	R
Kelly Bank mine, Rockbridge Co., Virginia, USA	fluorwavellite	3.17	0.69	This study (EPMA)	R
Rorer mine, Roanoke, Virginia, USA	fluorwavellite (F-poor)	3.02	0.66	This study (EPMA)	R

* Wavellite genesis types: F = Fluid expulsion, H = Hydrothermal ore alteration, P = Pegmatite phosphate alteration, R = Residual carbonate weathering, S = Sedimentary leached zone