

TABLE 1. U-Pb ZIRCON DATA FOR ZIMBABWE GRANITOIDS

Fractions *	Concentrations †			Atomic Ratios						Age (Ma)	$\rho^{**}$
	U (ppm)	Pb (ppm)	Common Pb (ppm)	206Pb/204Pb §	208Pb/206Pb #	206Pb/238U #	207Pb/206Pb #	207Pb/206Pb #	207Pb/206Pb #		
<b>ZIMB.95/09 - Tokwe River Gneiss</b>											
1. mauve, transl. ft.	0.0010	208.6	168.1	2.6	3388	0.0588	0.6912 ± 0.34	28.1586 ± 0.36	0.2955 ± 0.11	3446.6 ± 1.7	0.96
2. mauve, transp. needle	0.0010	669.2	418.5	22.1	1062	0.0505	0.5467 ± 0.61	21.0350 ± 0.63	0.2791 ± 0.12	3357.7 ± 1.9	0.98
3. pink-mauve, transp. needle	0.0010	360.3	239.1	3.2	3960	0.0904	0.5625 ± 0.27	21.7734 ± 0.29	0.2808 ± 0.11	3367.1 ± 1.7	0.93
4. colorless, transp. needle ft.	0.0010	261.4	210.8	10.7	1087	0.0550	0.6939 ± 0.64	28.3167 ± 0.65	0.2960 ± 0.12	3449.2 ± 1.8	0.98
5. mauve, transp. needle fr.	0.0008	307.8	197.4	7.3	1249	0.0214	0.5756 ± 0.51	21.7094 ± 0.53	0.2735 ± 0.12	3326.5 ± 1.8	0.98
<b>ZIMB.141 - Phase 2 Sebakwe River Gneiss</b>											
6. rbrown, transl., bipyramid	0.0121	262.8	198.6	5.5	23612	0.0773	0.6476 ± 0.37	24.9426 ± 0.38	0.2793 ± 0.11	3359.2 ± 1.6	0.96
7. rbrown, transl., bipyramid; $r_a$ 1.5:1	0.0077	239.6	174.7	5.7	12828	0.0694	0.6296 ± 0.20	24.0342 ± 0.23	0.2769 ± 0.11	3345.4 ± 1.6	0.89
8. rbrown, transl., oblate prism	0.0055	263.9	203.8	62.4	989	0.0701	0.6648 ± 0.63	25.6200 ± 0.65	0.2795 ± 0.12	3360.1 ± 1.8	0.98
9. pale pbrown, transp., subcirc., flat fr.	0.0075	251.0	167.9	2.5	27450	0.0675	0.6735 ± 0.25	26.0248 ± 0.28	0.2803 ± 0.11	3364.5 ± 1.6	0.93
10. rbrown, transl., bipyramid; $r_a$ 1.5:1	0.0051	291.9	219.0	5.6	10665	0.0780	0.6428 ± 0.19	24.6608 ± 0.22	0.2783 ± 0.11	3353.2 ± 1.6	0.87
11. rbrown, transl., oblate prism	0.0053	225.4	174.3	2.8	17414	0.0742	0.6641 ± 0.22	25.5245 ± 0.24	0.2788 ± 0.11	3356.0 ± 1.6	0.90
12. rbrown, transl. prism	0.0113	292.9	224.5	8.8	15433	0.0773	0.6563 ± 0.23	25.3063 ± 0.25	0.2797 ± 0.11	3361.1 ± 1.6	0.91
<b>ZIMB.226 - Kwekwe Gneiss</b>											
13. oblate prism	0.0020	98.0	82.0	7.8	1098	0.1113	0.6834 ± 0.59	29.3789 ± 0.60	0.3118 ± 0.12	3329.9 ± 1.8	0.98
14. oblate prism	0.0015	206.6	173.7	7.7	1753	0.0994	0.6914 ± 0.41	29.8542 ± 0.43	0.3132 ± 0.11	3336.6 ± 1.7	0.97
15. mauve, oblate prism	0.0026	109.3	92.7	12.2	1026	0.1126	0.6901 ± 0.63	30.0321 ± 0.64	0.3157 ± 0.12	3358.8 ± 1.8	0.98
16. rod or stub; $r_a$ 3:1	0.0013	241.3	174.2	20.3	570	0.1791	0.5671 ± 1.08	23.3718 ± 1.10	0.2989 ± 0.14	3464.5 ± 2.1	0.99
17. amorphous fragment	0.0019	39.6	35.1	15.1	238	0.1538	0.7001 ± 2.71	30.5412 ± 2.74	0.3164 ± 0.21	3352.4 ± 3.2	1.00
<b>ZIMB.226 - Kwekwe Gneiss</b>											
18. oblate prism	0.0012	215.0	157.1	14.0	712	0.1332	0.5984 ± 0.87	23.5424 ± 0.89	0.2854 ± 0.13	3392.5 ± 2.0	0.99
19. rod; $r_a$ 4:1	0.0010	548.7	283.5	11.1	143	0.2514	0.3997 ± 4.83	13.7424 ± 5.04	0.2494 ± 0.56	3180.8 ± 8.9	0.99
20. oblate prism	0.0012	354.5	241.1	53.4	295	0.1563	0.5500 ± 2.14	21.2258 ± 2.19	0.2799 ± 0.21	3362.3 ± 3.2	1.00
21. rod or stub; $r_a$ 3:1	0.0007	576.1	405.8	47.1	327	0.1532	0.5698 ± 1.92	22.2461 ± 1.95	0.2832 ± 0.19	3380.5 ± 2.9	1.00
22. rod; $r_a$ 4:1	0.0014	287.5	120.4	40.5	235	0.1694	0.3469 ± 2.73	11.0809 ± 2.88	0.2317 ± 0.41	3063.5 ± 6.5	0.99
23. rod; $r_a$ 4:1	0.0009	961.4	391.5	88.3	240	0.0940	0.3583 ± 2.69	11.2141 ± 2.85	0.2270 ± 0.42	3031.0 ± 6.7	0.99

\* All fractions nonmagnetic at 20° tilt angle on a Frantz LB-1 separator at 1.7 A.

Abbreviations: rbrown = red-brown; pbrown = pink-brown; transl. = translucent; transp. = transparent; ft = fragment; subcirc. = subcircular;  $r_a$  = aspect ratio† Maximum errors are  $\pm 20\%$ . Weights were measured on a Cahn C32 microbalance.

# Measured ratio corrected for fractionation.

§ Corrected for fractionation and spike.

\*\*  $^{207}\text{Pb}/^{235}\text{U}$  -  $^{206}\text{Pb}/^{238}\text{U}$  error correlation coefficient calculated following Ludwig (1980).Note: Standard zircon separation techniques were used including abrasion following Kruegh (1982). Samples were spiked with a mixed  $^{205}\text{Pb}/^{235}\text{U}$  tracer and dissolved in HF-HNO<sub>3</sub> using the method of Parrish (1987) on a VG334 mass spectrometer fitted with a WARP filter and Philips ion-counting Daly detector. Ages calculated by using decay constants of Jaffey et al. (1971). The laboratory blank Pb composition was  $^{208}\text{Pb}/^{204}\text{Pb} = 38.5$ .Quoted errors are  $2\sigma$  (% for atomic ratios, absolute for ages).

**References cited in Table 1**

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