

Table 1. Computed results obtained from the quartz pebble morphometric analysis.

S/N	D _L (mm)	D _I (mm)	D _S (mm)	MS (Eq. 1)	FI (Eq. 2)	FI*100 (%)	ER (Eq. 3)	D _L -D _I	D _L -D _S	PF (Eq. 6)	OPI (Eq. 5)	MPSI (Eq. 4)
1	42	36	6	28.00	0.17	16.67	0.86	6.00	36.00	0.17	-20.00	0.29
2	26	18	8	17.33	0.44	44.44	0.69	8.00	18.00	0.44	-1.25	0.52
3	18	12	7	12.33	0.58	58.33	0.67	6.00	11.00	0.55	0.78	0.61
4	35	18	15	22.67	0.83	83.33	0.51	17.00	20.00	0.85	4.20	0.71
5	36	25	11	24.00	0.44	44.00	0.69	11.00	25.00	0.44	-1.36	0.51
6	31	20	12	21.00	0.60	60.00	0.65	11.00	19.00	0.58	1.32	0.61
7	37	28	12	25.67	0.43	42.86	0.76	9.00	25.00	0.36	-3.27	0.52
8	14	10	8	10.67	0.80	80.00	0.71	4.00	6.00	0.67	2.08	0.77
9	30	18	12	20.00	0.67	66.67	0.60	12.00	18.00	0.67	2.50	0.64
10	21	15	8	14.67	0.53	53.33	0.71	6.00	13.00	0.46	-0.72	0.59
11	23	13	10	15.33	0.77	76.92	0.57	10.00	13.00	0.77	3.50	0.69
12	16	12	8	12.00	0.67	66.67	0.75	4.00	8.00	0.50	0.00	0.69
13	19	13	10	14.00	0.77	76.92	0.68	6.00	9.00	0.67	2.17	0.74
14	29	19	12	20.00	0.63	63.16	0.66	10.00	17.00	0.59	1.40	0.64
15	43	37	18	32.67	0.49	48.65	0.86	6.00	25.00	0.24	-5.34	0.59
16	25	19	9	17.67	0.47	47.37	0.76	6.00	16.00	0.38	-2.64	0.55
17	21	12	11	14.67	0.92	91.67	0.57	9.00	10.00	0.90	4.36	0.78
18	16	13	7	12.00	0.54	53.85	0.81	3.00	9.00	0.33	-3.10	0.62
19	21	19	9	16.33	0.47	47.37	0.90	2.00	12.00	0.17	-7.04	0.59
20	23	15	6	14.67	0.40	40.00	0.65	8.00	17.00	0.47	-0.74	0.47
21	19	14	9	14.00	0.64	64.29	0.74	5.00	10.00	0.50	0.00	0.67
22	19	14	4	12.33	0.29	28.57	0.74	5.00	15.00	0.33	-5.83	0.39
23	34	22	18	24.67	0.82	81.82	0.65	12.00	16.00	0.75	3.06	0.76
24	14	11	8	11.00	0.73	72.73	0.79	3.00	6.00	0.50	0.00	0.75
25	20	13	10	14.33	0.77	76.92	0.65	7.00	10.00	0.70	2.60	0.73
26	26	21	11	19.33	0.52	52.38	0.81	5.00	15.00	0.33	-3.18	0.61
27	21	17	9	15.67	0.53	52.94	0.81	4.00	12.00	0.33	-3.15	0.61
28	23	18	7	16.00	0.39	38.89	0.78	5.00	16.00	0.31	-4.82	0.49
29	29	22	11	20.67	0.50	50.00	0.76	7.00	18.00	0.39	-2.22	0.57
30	19	14	8	13.67	0.57	57.14	0.74	5.00	11.00	0.45	-0.80	0.62
31	22	18	8	16.00	0.44	44.44	0.82	4.00	14.00	0.29	-4.82	0.54
32	30	20	17	22.33	0.85	85.00	0.67	10.00	13.00	0.77	3.17	0.78
33	41	23	10	24.67	0.43	43.48	0.56	18.00	31.00	0.58	1.85	0.47
34	29	14	13	18.67	0.93	92.86	0.48	15.00	16.00	0.94	4.71	0.75

Explanations: Av – average value, DI – intermediate axis, DL – long axis, DS – short axis, ER – elongated ratio, FI – flatness index, MS – mean size, MPSI – maximum projection sphericity index, OPI – oblate-prolate index, PF – pebble form.

Table 1 (continued)

S/N	D _L (mm)	D _T (mm)	D _S (mm)	MS (Eq.1)	FI (Eq.2)	FI*100 (%)	ER (Eq.3)	D _L -D _T	D _L -D _S	PF (Eq.6)	OPI (Eq.5)	MPSI (Eq.4)
35	32	28	14	24.67	0.50	50.00	0.88	4.00	18.00	0.22	-5.56	0.60
36	25	23	7	18.33	0.30	30.43	0.92	2.00	18.00	0.11	-12.78	0.44
37	22	20	9	17.00	0.45	45.00	0.91	2.00	13.00	0.15	-7.69	0.57
38	27	19	14	20.00	0.74	73.68	0.70	8.00	13.00	0.62	1.57	0.73
39	32	26	14	24.00	0.54	53.85	0.81	6.00	18.00	0.33	-3.10	0.62
40	30	25	9	21.33	0.36	36.00	0.83	5.00	21.00	0.24	-7.28	0.48
41	40	22	14	25.33	0.64	63.64	0.55	18.00	26.00	0.69	3.02	0.61
42	26	20	9	18.33	0.45	45.00	0.77	6.00	17.00	0.35	-3.27	0.54
43	24	17	13	18.00	0.76	76.47	0.71	7.00	11.00	0.64	1.78	0.75
44	32	26	9	22.33	0.35	34.62	0.81	6.00	23.00	0.26	-6.91	0.46
45	34	20	8	20.67	0.40	40.00	0.59	14.00	26.00	0.54	0.96	0.45
46	33	28	8	23.00	0.29	28.57	0.85	5.00	25.00	0.20	-10.50	0.41
47	35	26	13	24.67	0.50	50.00	0.74	9.00	22.00	0.41	-1.82	0.57
48	30	25	8	21.00	0.32	32.00	0.83	5.00	22.00	0.23	-8.52	0.44
49	40	26	14	26.67	0.54	53.85	0.65	14.00	26.00	0.54	0.71	0.57
50	39	27	9	25.00	0.33	33.33	0.69	12.00	30.00	0.40	-3.00	0.43
51	24	18	7	16.33	0.39	38.89	0.75	6.00	17.00	0.35	-3.78	0.48
52	21	18	10	16.33	0.56	55.56	0.86	3.00	11.00	0.27	-4.09	0.64
53	35	25	13	24.33	0.52	52.00	0.71	10.00	22.00	0.45	-0.87	0.58
54	23	13	8	14.67	0.62	61.54	0.57	10.00	15.00	0.67	2.71	0.60
55	38	27	11	25.33	0.41	40.74	0.71	11.00	27.00	0.41	-2.27	0.49
56	29	11	9	16.33	0.82	81.82	0.38	18.00	20.00	0.90	4.89	0.63
57	26	18	8	17.33	0.44	44.44	0.69	8.00	18.00	0.44	-1.25	0.52
58	42	33	10	28.33	0.30	30.30	0.79	9.00	32.00	0.28	-7.22	0.42
59	32	31	16	26.33	0.52	51.61	0.97	1.00	16.00	0.06	-8.48	0.64
60	31	24	19	24.67	0.79	79.17	0.77	7.00	12.00	0.58	1.05	0.79
61	39	27	19	28.33	0.70	70.37	0.69	12.00	20.00	0.60	1.42	0.70
62	32	27	18	25.67	0.67	66.67	0.84	5.00	14.00	0.36	-2.14	0.72
63	39	26	16	27.00	0.62	61.54	0.67	13.00	23.00	0.57	1.06	0.63
64	41	31	14	28.67	0.45	45.16	0.76	10.00	27.00	0.37	-2.87	0.54
65	39	27	15	27.00	0.56	55.56	0.69	12.00	24.00	0.50	0.00	0.60
66	40	29	11	26.67	0.38	37.93	0.73	11.00	29.00	0.38	-3.18	0.47
67	30	17	12	19.67	0.71	70.59	0.57	13.00	18.00	0.72	3.15	0.66
68	21	18	6	15.00	0.33	33.33	0.86	3.00	15.00	0.20	-9.00	0.46
69	37	16	8	20.33	0.50	50.00	0.43	21.00	29.00	0.72	4.48	0.48
70	22	16	6	14.67	0.38	37.50	0.73	6.00	16.00	0.38	-3.33	0.47

Table 1 (continued)

S/N	D _L (mm)	D _I (mm)	D _S (mm)	MS (Eq. 1)	FI (Eq. 2)	FI*100 (%)	ER (Eq. 3)	D _L -D _I	D _L -D _S	PF (Eq. 6)	OPI (Eq. 5)	MPSI (Eq. 4)
71	33	15	9	19.00	0.60	60.00	0.45	18.00	24.00	0.75	4.17	0.55
72	38	25	7	23.33	0.28	28.00	0.66	13.00	31.00	0.42	-2.88	0.37
73	28	27	5	20.00	0.19	18.52	0.96	1.00	23.00	0.04	-24.65	0.32
74	24	22	6	17.33	0.27	27.27	0.92	2.00	18.00	0.11	-14.26	0.41
75	24	13	7	14.67	0.54	53.85	0.54	11.00	17.00	0.65	2.73	0.54
76	25	15	5	15.00	0.33	33.33	0.60	10.00	20.00	0.50	0.00	0.41
77	21	9	6	12.00	0.67	66.67	0.43	12.00	15.00	0.80	4.50	0.58
78	28	19	4	17.00	0.21	21.05	0.68	9.00	24.00	0.38	-5.94	0.31
79	32	25	7	21.33	0.28	28.00	0.78	7.00	25.00	0.28	-7.86	0.39
80	37	29	9	25.00	0.31	31.03	0.78	8.00	28.00	0.29	-6.90	0.42
81	28	22	5	18.33	0.23	22.73	0.79	6.00	23.00	0.26	-10.52	0.34
82	44	31	15	30.00	0.48	48.39	0.70	13.00	29.00	0.45	-1.07	0.55
83	36	27	13	25.33	0.48	48.15	0.75	9.00	23.00	0.39	-2.26	0.56
84	36	22	13	23.67	0.59	59.09	0.61	14.00	23.00	0.61	1.84	0.60
85	35	34	12	27.00	0.35	35.29	0.97	1.00	23.00	0.04	-12.93	0.49
86	40	24	11	25.00	0.46	45.83	0.60	16.00	29.00	0.55	1.13	0.50
87	43	28	20	30.33	0.71	71.43	0.65	15.00	23.00	0.65	2.13	0.69
88	31	27	9	22.33	0.33	33.33	0.87	4.00	22.00	0.18	-9.55	0.46
89	33	20	12	21.67	0.60	60.00	0.61	13.00	21.00	0.62	1.98	0.60
90	37	29	24	30.00	0.83	82.76	0.78	8.00	13.00	0.62	1.39	0.81
91	36	32	18	28.67	0.56	56.25	0.89	4.00	18.00	0.22	-4.94	0.66
92	31	27	9	22.33	0.33	33.33	0.87	4.00	22.00	0.18	-9.55	0.46
93	33	31	18	27.33	0.58	58.06	0.94	2.00	15.00	0.13	-6.31	0.68
94	29	24	12	21.67	0.50	50.00	0.83	5.00	17.00	0.29	-4.12	0.59
95	40	21	15	25.33	0.71	71.43	0.53	19.00	25.00	0.76	3.64	0.64
96	34	23	8	21.67	0.35	34.78	0.68	11.00	26.00	0.42	-2.21	0.43
97	35	33	23	30.33	0.70	69.70	0.94	2.00	12.00	0.17	-4.78	0.77
98	36	28	15	26.33	0.54	53.57	0.78	8.00	21.00	0.38	-2.22	0.61
99	27	23	10	20.00	0.43	43.48	0.85	4.00	17.00	0.24	-6.09	0.54
100	49	44	28	40.33	0.64	63.64	0.90	5.00	21.00	0.24	-4.12	0.71
Range	14.00–49.00	9.00–44.00	4.00–28.00	11.00–40.33	0.17–0.93	16.67–92.86	0.38–0.97	1.00–21.00	6.00–36.00	0.04–0.94	-24.65–4.89	0.28–0.81
Av.	30.17	21.92	11.05	21.05	0.52	52.24	0.73	8.25	19.12	0.44	-2.44	0.57