

Appendix

Table S1. Mean data of quantitative characters of fruit of 105 *C. reticulata* accessions

Accessions	No. of segments	Weight (g)	Diameter	Length (mm)	Epicarp width (mm)	No. of seeds	TSS /Acidity	District	State
D-01-01	9.7	79.78	62.4	50.79	2.31	15.20	14.42	Darjeeling	West Bengal
D-01-02	9.1	73.87	59.31	53.05	2.59	14.20	16.90	Darjeeling	West Bengal
D-01-03	9.1	73.87	59.31	53.05	2.59	14.20	16.90	Darjeeling	West Bengal
D-01-04	8.9	68.38	52.43	50.03	1.20	13.1	22.80	Darjeeling	West Bengal
D-01-05	9.6	77	64.74	45.26	1.19	16.7	25.72	Darjeeling	West Bengal
D-01-06	8.9	68.85	75.20	45.08	1.92	15.1	19.26	Darjeeling	West Bengal
D-01-07	9.7	106.20	110.10	39.09	1.34	15.6	33.56	Darjeeling	West Bengal
D-01-08	8.6	78.55	123	42.08	1.29	18.5	32.93	Darjeeling	West Bengal
D-01-09	9.7	118.30	74.80	47.57	1.31	17.7	36.09	Darjeeling	West Bengal
D-01-10	9.9	97.5	71.92	54.05	2.22	16.10	11.69	Darjeeling	West Bengal
D-01-11	9.6	89.49	70.95	50.79	2.35	12.70	9.72	Darjeeling	West Bengal
D-01-12	9.7	96.24	71.84	52.83	2.14	18	11.62	Darjeeling	West Bengal
D-01-13	8.1	71.04	64.58	46.07	1.18	15.4	21.64	Darjeeling	West Bengal
D-01-14	9.4	75.35	66.06	45.98	1.05	11.9	31.37	Darjeeling	West Bengal
D-01-15	9.4	76.87	66.48	46.07	1.18	15.4	36.07	Darjeeling	West Bengal
D-01-16	9.2	62.21	62.55	45.61	1.5	13.2	10.32	Darjeeling	West Bengal
D-01-17	9	72.73	59.94	46.41	1.43	11.3	12.85	Darjeeling	West Bengal
D-01-18	9.9	88.37	72.43	44.56	1.45	11.8	12.64	Darjeeling	West Bengal
D-01-19	8.8	48.36	48.25	45.47	2.18	15.6	12.40	Darjeeling	West Bengal
D-01-20	8.3	58.03	61.78	48.94	2.08	14.5	10.26	Darjeeling	West Bengal
D-01-21	8	54.23	57.35	45.47	2.19	12.5	10.98	Darjeeling	West Bengal
D-01-22	9.5	68.46	53.24	43.86	1.76	8.4	22.40	Darjeeling	West Bengal
D-01-23	9.6	55.93	46.38	40.68	1.71	11.6	11.42	Darjeeling	West Bengal
D-01-24	9.4	73.01	54.61	44.24	1.70	15	13.74	Darjeeling	West Bengal
D-01-25	9.5	68.12	62.47	41.93	2.01	11.8	14.19	Darjeeling	West Bengal
D-01-26	8.5	58.8	56.71	49.31	2.25	9.8	16.65	Darjeeling	West Bengal
D-01-27	8.5	60.67	58.37	50.46	2.2	10	14.08	Darjeeling	West Bengal
D-02-01	9	76.45	57.09	47.28	1.64	12.5	16.87	Kalimpong	West Bengal
D-02-02	9.5	55.98	48.76	43.38	1.65	12.6	12.34	Kalimpong	West Bengal
D-02-03	9.2	60.40	47.63	41.44	1.76	11.9	12.74	Kalimpong	West Bengal
D-02-04	9.4	74.54	53.87	44.98	1.65	14.6	18.79	Kalimpong	West Bengal
D-02-05	9.4	49.81	45.46	37.98	1.56	12.2	11.68	Kalimpong	West Bengal
D-02-06	9.4	57.57	44.71	39.86	1.7	13.2	11.10	Kalimpong	West Bengal
S-01-01	8.66	49.1	43.37	41.29	1.6	8	17.74	North	Sikkim
S-01-02	8.55	37.91	44.31	37.02	1.49	4.4	20.33	North	Sikkim
S-01-03	9.4	48.99	43.41	41.49	1.51	8.1	22.70	North	Sikkim
S-01-04	9.1	52.84	50.01	41.52	1.91	12.9	15.37	North	Sikkim
S-01-05	8.9	46.21	47.4	36.89	1.31	6.7	20.36	North	Sikkim

S-01-06	9.1	47.32	47.86	36.89	1.31	6.6	20.06	North	Sikkim
S-01-07	8.9	63.66	51.85	45.64	1.96	11.8	20.16	North	Sikkim
S-01-08	9	63.84	51.38	45.29	1.9	11.7	20.22	North	Sikkim
S-01-09	9	63.7	51.24	45.37	1.94	11.9	20.16	North	Sikkim
S-01-10	9.6	44.95	48.25	40.25	1.8	17.16	12.22	North	Sikkim
S-01-11	9.8	39.74	43.55	37.79	1.6	18.1	13.28	North	Sikkim
S-01-12	11.4	48.13	47.98	38.33	1.75	11.4	13.37	North	Sikkim
S-02-01	9.7	89.69	57.86	48.61	1.47	16.1	16.37	South	Sikkim
S-02-02	10.2	92.87	56.35	46.43	1.77	12.9	13.89	South	Sikkim
S-02-03	9.1	88.73	57.8	49.05	1.47	16	16.33	South	Sikkim
S-02-04	8.7	63.34	53.24	45.83	1.1	11.8	12.48	South	Sikkim
S-02-05	8.5	49.22	45	43.55	1.28	12.5	8.65	South	Sikkim
S-02-06	8.7	52.11	47.42	41.54	1.63	12.2	11.92	South	Sikkim
S-02-07	9.2	103.89	55.74	48.65	2.27	11.7	16.85	South	Sikkim
S-02-08	10	118.4	65.81	50.16	2.54	9.2	14.89	South	Sikkim
S-02-09	9.7	108.72	63.74	51.68	2.23	9.3	13.24	South	Sikkim
S-02-10	8.8	72.72	50.98	48.72	1.58	16.4	7.64	South	Sikkim
S-02-11	9.8	50.97	66.65	46.1	1.43	14.4	6.55	South	Sikkim
S-02-12	9.6	45.05	42.23	37.31	1.31	12.6	7.62	South	Sikkim
S-03-01	9.4	121.13	69.53	57.56	3.39	17.13	13.47	East	Sikkim
S-03-02	9.7	113.14	61.35	52.46	2.64	15.3	14.14	East	Sikkim
S-03-03	9.8	85.75	57.65	49.01	2.22	8.2	16.74	East	Sikkim
S-03-04	9.2	97.23	57.91	53.13	1.9	13.9	11.79	East	Sikkim
S-03-04	9.8	99.98	60.16	54.56	2.49	6.2	7.26	East	Sikkim
S-03-05	9.4	98.82	57.21	49.61	2.05	12.5	14.72	East	Sikkim
S-03-06	9.9	104.65	58	51.69	2.25	12.5	14.88	East	Sikkim
S-03-07	8.7	91.41	58.99	58.99	1.97	8.6	8.78	East	Sikkim
S-03-08	9.2	102.30	60.02	59.01	1.72	12.4	10.51	East	Sikkim
S-03-09	9	93.76	56.91	53.34	1.68	13.5	10.69	East	Sikkim
S-03-10	9.27	90.66	60.21	54.87	2.03	9.81	7.37	East	Sikkim
S-03-11	9.77	98.04	55.08	49.08	1.93	10.77	13.07	East	Sikkim
S-03-12	10.4	97.18	58.88	53.06	2.3	16.6	9.8	East	Sikkim
S-03-13	9.8	91.34	40.97	35.63	1.41	12.1	11.80	East	Sikkim
S-03-14	9.6	78.91	55.53	45.48	1.96	12.5	12.07	East	Sikkim
S-03-15	9.4	109.93	62.37	51.18	2.14	7.4	8.75	East	Sikkim
S-03-16	9	104.29	57.81	54.52	1.79	10.6	10.93	East	Sikkim
S-03-17	9	121.22	62.28	52.71	2.29	15	9.23	East	Sikkim
S-03-18	9.3	52.17	46.17	42.95	1.66	8.1	8.00	East	Sikkim
S-03-19	10.1	97.21	55.96	48.59	1.83	12.8	10.37	East	Sikkim
S-03-20	9.6	102	58.83	49.01	1.92	13.5	14.59	East	Sikkim
S-03-21	9.5	55.03	50.1	40.6	2.38	9	8.87	East	Sikkim
S-03-22	9.7	54.28	47.44	39.58	1.76	11.4	11.03	East	Sikkim
S-03-23	9	58.42	47.69	37.43	2.33	9.4	11.13	East	Sikkim
S-03-24	9.3	45.04	47.09	38.78	1.51	9.7	14.82	East	Sikkim
S-03-25	9.6	42.66	44.71	36.55	1.52	9.2	10.95	East	Sikkim

S-03-26	8.6	50.58	46.08	40.11	1.59	9.2	10.65	East	Sikkim
S-03-27	8.5	48.42	45.29	37.96	1.37	8.6	15.23	East	Sikkim
S-03-28	9.6	42.66	44.71	36.55	1.52	9.2	11.88	East	Sikkim
S-03-29	8.6	50.58	46.08	40.11	1.59	9.2	12.07	East	Sikkim
S-03-30	8.8	105.45	62.13	52.33	1.97	8.5	9.22	East	Sikkim
S-03-31	9.2	103.03	56.32	54.32	1.5	10	10.78	East	Sikkim
S-03-32	9.1	122.16	62.46	52.47	1.72	11.4	9.79	East	Sikkim
S-04-01	9.3	60.69	49.33	39.77	1.59	8.9	9.98	West	Sikkim
S-04-02	9.7	70.3	54.61	44.08	1.62	10.8	11.26	West	Sikkim
S-04-03	9.6	65.63	49.23	41.62	1.98	10.7	9.89	West	Sikkim
S-04-04	9.8	78.35	57.21	50.03	2.07	12.3	14.84	West	Sikkim
S-04-05	10.2	80.33	58.62	45.26	2.09	15.1	12.98	West	Sikkim
S-04-06	9.8	68.6	55.04	45.08	2.14	13.3	7.81	West	Sikkim
S-04-07	10	48.51	46.25	38.16	1.56	13.3	7.73	West	Sikkim
S-04-08	9.3	58.91	49.02	40.01	1.8	13.7	9.15	West	Sikkim
S-04-09	9.4	56.38	46.41	38.15	1.62	11.2	9.17	West	Sikkim
S-04-10	11.4	82.43	61.74	50.51	2.97	10.7	19.88	West	Sikkim
S-04-11	9	114.75	64.46	55.87	3	11.8	16.72	West	Sikkim
S-04-12	8.9	100.35	64.71	53.98	2.61	10.7	17.70	West	Sikkim
S-04-13	9.3	72.4	55.16	45	1.82	8.3	15.28	West	Sikkim
S-04-14	9.4	54.56	47.55	40.48	1.61	9.9	11.48	West	Sikkim
S-04-15	9.4	71.89	51.68	44.24	1.89	12.7	16.38	West	Sikkim

Table S2: Mean data of quantitative characters of leaf and flower of 105 *C. reticulata* accessions

Accessions	Leaf Length (mm)	Leaf width (mm)	Leaf length /width	Petal length	Petal width	No. of Stamens	Pedicle Length	District	State
D-01-01	86.87	35.93	2.41	9.2	3.4	13.8	2.8	Darjeeling	West Bengal
D-01-02	86.87	35.93	2.41	9.2	3.4	13.2	2.8	Darjeeling	West Bengal
D-01-03	74.00	29.87	2.47	9.2	3.4	14.4	2.8	Darjeeling	West Bengal
D-01-04	68.00	31.07	2.25	10.4	4.4	16.8	3.2	Darjeeling	West Bengal
D-01-05	68.73	30.13	2.28	10.2	3.8	16.4	3.2	Darjeeling	West Bengal
D-01-06	76.07	35.33	33.8	10	3.8	16.8	3.3	Darjeeling	West Bengal
D-01-07	70.46	31.13	2.26	10.8	4.4	16.8	3.2	Darjeeling	West Bengal
D-01-08	61.73	28.06	2.19	10.6	3.2	16.4	3.6	Darjeeling	West Bengal
D-01-09	61.73	28.07	2.19	10.4	3.6	16.6	3.2	Darjeeling	West Bengal
D-01-10	79.46	34.06	2.33	10.1	4.8	13.6	4.2	Darjeeling	West Bengal
D-01-11	76.46	31.73	2.4	10.5	4.5	14.4	5.3	Darjeeling	West Bengal
D-01-12	79.47	34.07	2.33	9.5	4.6	14	4.9	Darjeeling	West Bengal
D-01-13	79.93	33.13	2.41	10.6	4.8	16.4	5	Darjeeling	West Bengal
D-01-14	71.26	28.13	2.53	10.6	5	16.4	5	Darjeeling	West Bengal
D-01-15	68.86	26.93	2.55	10	4.8	16	5	Darjeeling	West Bengal
D-01-16	80.86	34.4	2.35	11.2	4.8	16.4	5	Darjeeling	West Bengal

D-01-17	72.40	30.66	2.36	11.4	4.8	16.8	5.2	Darjeeling	West Bengal
D-01-18	48.93	22.47	2.17	10.2	4.6	15.6	5	Darjeeling	West Bengal
D-01-19	77.40	32.47	2.38	11.2	4.8	16.4	5	Darjeeling	West Bengal
D-01-20	73.06	38	1.92	11.4	4.8	16.4	5.2	Darjeeling	West Bengal
D-01-21	77.40	32.4	2.38	10.2	4.6	15.8	5	Darjeeling	West Bengal
D-01-22	68.60	34.66	1.97	11.2	4.1	16.4	5	Darjeeling	West Bengal
D-01-23	75.60	30.8	2.45	12.6	4.6	16.4	5.2	Darjeeling	West Bengal
D-01-24	63.27	31.07	2.03	10.6	4.8	16.6	5	Darjeeling	West Bengal
D-01-25	89.40	33.2	2.69	11.4	4.1	16.4	5	Darjeeling	West Bengal
D-01-26	83.73	31.66	2.64	13	4.6	16.4	4.9	Darjeeling	West Bengal
D-01-27	87.60	32.26	2.71	11.2	4.8	16.6	5.1	Darjeeling	West Bengal
D-02-01	88.66	34.8	2.54	11.4	3.6	14.4	3.6	Kalimpong	West Bengal
D-02-02	63.07	34.6	1.82	11.4	4.4	14.8	4.6	Kalimpong	West Bengal
D-02-03	66	31.26	2.11	11.2	3.8	14.4	3.8	Kalimpong	West Bengal
D-02-04	63.80	32.8	2.54	11.4	3.6	14.4	3.6	Kalimpong	West Bengal
D-02-05	52.26	30.8	1.82	11	4	14.8	4.6	Kalimpong	West Bengal
D-02-06	60.78	32.41	2.11	9.6	3.4	14.4	3.8	Kalimpong	West Bengal
S-01-01	81.73	31.33	2.6	10.6	5.2	14.2	3.6	North	Sikkim
S-01-02	89.20	34.66	2.57	10.2	4.4	13.6	3.4	North	Sikkim
S-01-03	89.33	36.53	2.44	9.8	3.4	13.6	2.8	North	Sikkim
S-01-04	85.53	35.73	2.39	10.8	5	14.2	4.6	North	Sikkim
S-01-05	93.60	37.4	2.5	10.4	3.8	14.2	3.2	North	Sikkim
S-01-06	85.46	32.93	2.59	11.4	3.6	14	3.6	North	Sikkim
S-01-07	72.60	29.93	2.42	10.8	5	14.2	3.6	North	Sikkim
S-01-08	67.00	29.73	2.25	10.4	4.4	13.6	2.4	North	Sikkim
S-01-09	71.46	30.2	2.36	11.4	3.4	13.6	2.8	North	Sikkim
S-01-10	81.86	33.06	2.47	10.8	5.6	14.2	4.6	North	Sikkim
S-01-11	85.13	34.66	2.45	10.4	4	13.4	3.2	North	Sikkim
S-01-12	81.93	35	2.34	10.2	3.6	13.8	3.2	North	Sikkim
S-02-01	80.66	34.06	2.36	10.6	4.6	14	4.4	South	Sikkim
S-02-02	78.20	31.93	2.44	10.2	4.6	13.4	3.8	South	Sikkim
S-02-03	81.20	33.66	2.41	10.8	3.8	13.6	3.6	South	Sikkim
S-02-04	84.33	33.73	2.5	9.8	3.4	13.8	2.8	South	Sikkim
S-02-05	71.60	30	2.38	9.6	3.4	13.4	2.8	South	Sikkim
S-02-06	78.53	30.26	2.59	9.6	3.4	14	2.8	South	Sikkim
S-02-07	83.66	32.8	2.55	11.2	5.4	13.8	4.6	South	Sikkim
S-02-08	125.46	32.53	3.85	10.8	4.6	14.4	3.4	South	Sikkim
S-02-09	85.06	34.6	2.45	11.2	3.6	13.8	3.5	South	Sikkim
S-02-10	82.66	37.33	2.21	9.8	3.4	13.8	2.8	South	Sikkim
S-02-11	80.13	31.66	2.53	9.6	3.4	13.4	2.8	South	Sikkim
S-02-12	76.20	31.93	2.38	9.6	3.4	14	2.8	South	Sikkim
S-03-01	86	36.67	2.42	11.4	4.4	16	4.6	East	Sikkim
S-03-02	92.93	35.53	2.34	10.6	4.8	15.6	3.4	East	Sikkim
S-03-03	85.13	36.33	2.35	9.6	4.8	15.6	3	East	Sikkim
S-03-04	98.60	37.93	2.59	9.2	3.4	13.6	4.6	East	Sikkim

S-03-04	96.66	42.33	2.28	9.2	3.4	13	3.4	East	Sikkim
S-03-05	90.83	42.13	2.15	9.2	3.4	14	3	East	Sikkim
S-03-06	99.53	38.73	2.56	9.2	3.4	13.8	2.8	East	Sikkim
S-03-07	96.46	42.4	2.24	9.2	3.4	13.2	2.8	East	Sikkim
S-03-08	95.20	67.4	1.41	9.2	3.4	14.4	2.8	East	Sikkim
S-03-09	85.06	35.8	2.37	9	3.6	13.6	3.2	East	Sikkim
S-03-10	92.93	42.4	2.19	9.4	3.2	13	3	East	Sikkim
S-03-11	80.46	36.33	2.21	9.4	3.6	13	3.4	East	Sikkim
S-03-12	92.60	35.4	2.61	9	3.6	13.8	3.2	East	Sikkim
S-03-13	87.99	33.68	2.61	9.4	3.2	13	3	East	Sikkim
S-03-14	83.40	32.66	2.55	9.4	3.6	14.6	3.4	East	Sikkim
S-03-15	104.13	50.4	2.06	9.8	3.6	14.4	3.4	East	Sikkim
S-03-16	92	42.53	2.16	9.4	3.6	13.6	2.8	East	Sikkim
S-03-17	95.40	45.86	2.08	9.2	3.6	14.6	3	East	Sikkim
S-03-18	87.66	35	2.5	10.4	4.4	16.2	4	East	Sikkim
S-03-19	84	33.26	2.52	10	4.6	16.6	3.6	East	Sikkim
S-03-20	83.40	32.66	2.55	10.4	4.6	16.8	3.4	East	Sikkim
S-03-21	83.66	31.4	2.66	10.6	4.6	16.2	4	East	Sikkim
S-03-22	89.26	34.73	2.57	10	4.6	16.6	3.6	East	Sikkim
S-03-23	89.80	35.2	2.55	10.8	4.6	16.8	3.4	East	Sikkim
S-03-24	90.60	36.13	2.5	10.8	4.6	16.4	3.4	East	Sikkim
S-03-25	80.86	32.33	2.5	10.8	4.2	16.8	3.8	East	Sikkim
S-03-26	92.86	37.26	2.49	10.6	4.6	16.8	3.4	East	Sikkim
S-03-27	81.20	31.46	2.66	10.8	4.2	16.2	4.4	East	Sikkim
S-03-28	81.60	31.46	2.57	10.8	4.2	17.8	4.6	East	Sikkim
S-03-29	82.60	27.6	2.55	11	5	17.8	3.4	East	Sikkim
S-03-30	89.93	40.73	2.2	9.8	3.6	14.6	3.6	East	Sikkim
S-03-31	90.86	41.93	2.16	9.8	3.6	13.8	4	East	Sikkim
S-03-32	91.60	39.66	2.3	9	3.6	14.8	3	East	Sikkim
S-04-01	83.33	36.13	2.3	9.8	3.4	13.2	2.8	West	Sikkim
S-04-02	94.20	38.73	2.43	9.6	3.4	13.4	2.8	West	Sikkim