Cuadro 42. Datos estadísticos de C48 *S. inodora*.

C48 *S. inodora* PI#300996-4 Colombia, Perú, y norte en América Central, pero no en México

	Células del haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (La)		Ancho (As)		Area
#	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²
1	0.80	86.15	0.45	48.46	4175.15	0.46	49.54	0.46	49.54	2454.06	0.40	43.08	0.30	32.31	1391.72	0.40	43.08	0.36	38.77	1670.06
2	0.75	80.77	0.50	53.85	4349.11	0.69	74.31	0.51	54.92	4081.21	0.40	43.08	0.30	32.31	1391.72	0.42	45.23	0.30	32.31	1461.30
3	0.64	68.92	0.40	43.08	2968.99	0.65	70.00	0.55	59.23	4146.15	0.50	53.85	0.30	32.31	1739.64	0.45	48.46	0.40	43.08	2087.57
4	0.70	75.38	0.40	43.08	3247.34	0.60	64.62	0.44	47.38	3061.77	0.40	43.08	0.35	37.69	1623.67	0.44	47.38	0.36	38.77	1837.06
5	0.70	75.38	0.50	53.85	4059.17	0.50	53.85	0.64	68.92	3711.24	0.41	44.15	0.32	34.46	1521.61	0.45	48.46	0.28	30.15	1461.30
6	0.70	75.38	0.50	53.85	4059.17	0.81	87.23	0.40	43.08	3757.63	0.40	43.08	0.38	40.92	1762.84	0.50	53.85	0.30	32.31	1739.64
7	0.50	53.85	0.60	64.62	3479.29	0.60	64.62	0.50	53.85	3479.29	0.48	51.69	0.32	34.46	1781.40	0.50	53.85	0.35	37.69	2029.59
8	0.80	86.15	0.50	53.85	4639.05	0.60	64.62	0.50	53.85	3479.29	0.42	45.23	0.36	38.77	1753.56	0.50	53.85	0.32	34.46	1855.62
9	0.94	101.23	0.52	56.00	5668.92	0.64	68.92	0.60	64.62	4453.49	0.40	43.08	0.40	43.08	1855.62	0.45	48.46	0.38	40.92	1983.19
10	0.68	73.23	0.50	53.85	3943.19	0.61	65.69	0.51	54.92	3608.02	0.42	45.23	0.40	43.08	1948.40	0.50	53.85	0.30	32.31	1739.64
11	0.70	75.38	0.50	53.85	4059.17	0.60	64.62	0.50	53.85	3479.29	0.48	51.69	0.40	43.08	2226.75	0.50	53.85	0.40	43.08	2319.53
12	0.68	73.23	0.50	53.85	3943.19	0.70	75.38	0.51	54.92	4140.35	0.45	48.46	0.32	34.46	1670.06	0.75	80.77	0.32	34.46	2783.43
13	0.70	75.38	0.49	52.77	3977.99	0.61	65.69	0.45	48.46	3183.55	0.45	48.46	0.40	43.08	2087.57	0.70	75.38	0.42	45.23	3409.70
14	0.65	70.00	0.51	54.92	3844.61	0.46	49.54	0.40	43.08	2133.96	0.40	43.08	0.34	36.62	1577.28	0.60	64.62	0.30	32.31	2087.57
15	1.08	116.31	0.50	53.85	6262.72	0.40	43.08	0.55	59.23	2551.48	0.46	49.54	0.40	43.08	2133.96	0.62	66.77	0.30	32.31	2157.16
16	0.90	96.92	0.42	45.23	4383.90	0.40	43.08	0.60	64.62	2783.43	0.45	48.46	0.40	43.08	2087.57	0.45	48.46	0.20	21.54	1043.79
17	0.68	73.23	0.48	51.69	3785.47	0.65	70.00	0.50	53.85	3769.23	0.38	40.92	0.30	32.31	1322.13	0.40	43.08	0.40	43.08	1855.62
18	0.80	86.15	0.51	54.92	4731.83	0.64	68.92	0.62	66.77	4601.94	0.45	48.46	0.32	34.46	1670.06	0.55	59.23	0.30	32.31	1913.61
19	0.84	90.46	0.50	53.85	4871.01	0.48	51.69	0.60	64.62	3340.12	0.50	53.85	0.32	34.46	1855.62	0.32	34.46	0.20	21.54	742.25
20	0.80	86.15	0.59	63.54	5474.08	0.45	48.46	0.45	48.46	2348.52	0.38	40.92	0.32	34.46	1410.27	0.51	54.92	0.32	34.46	1892.73
21	0.87	93.69	0.50	53.85	5044.97	0.50	53.85	0.46	49.54	2667.46	0.44	47.38	0.35	37.69	1786.04	0.58	62.46	0.36	38.77	2421.59
22	0.85	91.54	0.41	44.15	4041.77	0.60	64.62	0.58	62.46	4035.98	0.35	37.69	0.35	37.69	1420.71	0.42	45.23	0.38	40.92	1850.98
23	0.80	86.15	0.41	44.15	3804.02	0.67	72.15	0.55	59.23	4273.73	0.45	48.46	0.35	37.69	1826.63	0.36	38.77	0.40	43.08	1670.06
24	0.85	91.54	0.55	59.23	5421.89	0.75	80.77	0.40	43.08	3479.29	0.46	49.54	0.35	37.69	1867.22	0.50	53.85	0.40	43.08	2319.53
25	0.80	86.15	0.40	43.08	3711.24	0.48	51.69	0.58	62.46	3228.78	0.48	51.69	0.32	34.46	1781.40	0.51	54.92	0.40	43.08	2365.92
Suma		2068.77		1307.38	107947.27		1566.92		1384.92	86249.27	10.81	1164.15	8.67	933.69	43493.44		1333.23		910.00	48698.45
Promedio		82.75		52.30	4317.89		62.68		55.40	3449.97	0.43	46.57	0.35	37.35	1739.74		53.33		36.40	1947.94
D.E. (σ)		12.60		5.88	784.75		11.64		7.65	679.85	0.04	4.31	0.04	3.94	246.58		10.63		6.45	525.58

Promedio del área de las células del haz: 4317.89 micras cuadradas 231.59 células/mm cuadrados

Promedio del área de las células del envéz: 3449.97 micras cuadradas 289.86 células/mm cuadrados

El promedio de las células del haz es 1.25 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.25 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.47 veces el promedio del ancho.

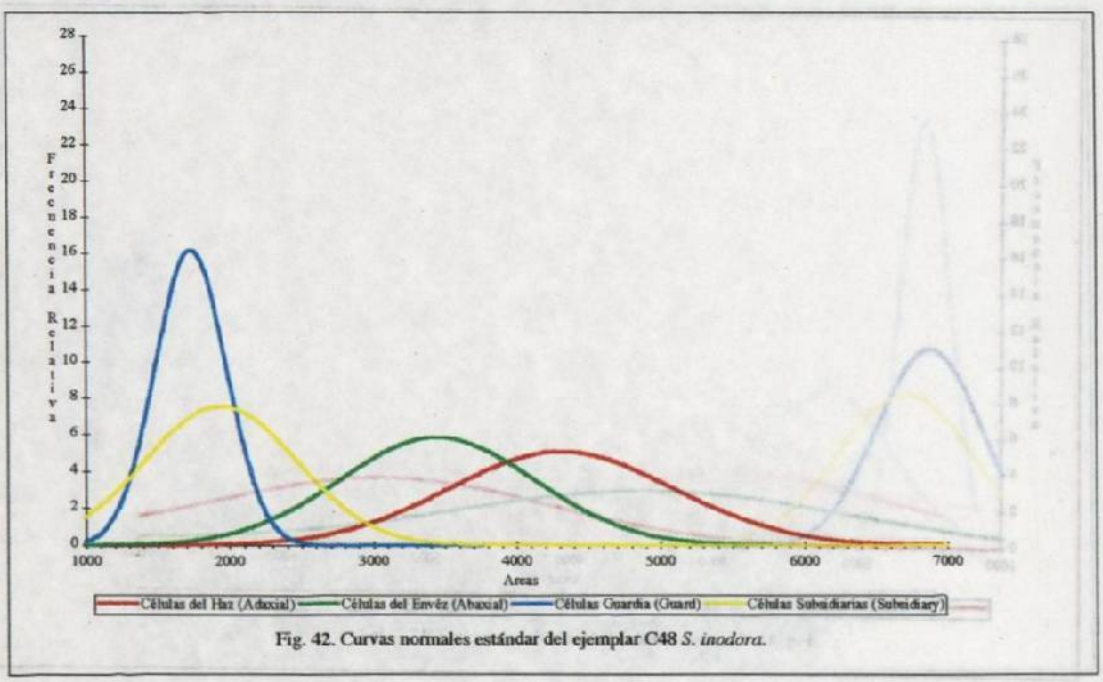

Fig. 42. Curvas normales estándar del ejemplar C48 *S. inodora*.

Cuadro 43. Datos estadísticos de C49 *S. hernandezii*.

C49 *S. hernandezii* PI#300996-5 Guatemala, México

#	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (La)		ancho (As)		Area
	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²
1	0.55	59.23	0.52	56.00	3316.92	0.50	53.85	0.35	37.69	2029.59	0.50	53.85	0.25	26.92	1449.70	0.40	43.08	0.30	32.31	1391.72
2	0.45	48.46	0.45	48.46	2348.52	0.45	48.46	0.39	42.00	2035.38	0.50	53.85	0.32	34.46	1855.62	0.51	54.92	0.32	34.46	1892.73
3	0.55	59.23	0.42	45.23	2679.05	0.53	57.08	0.33	35.54	2028.43	0.50	53.85	0.30	32.31	1739.64	0.40	43.08	0.30	32.31	1391.72
4	0.42	45.23	0.45	48.46	2191.95	0.52	56.00	0.39	42.00	2352.00	0.44	47.38	0.30	32.31	1530.89	0.40	43.08	0.30	32.31	1391.72
5	0.48	51.69	0.55	59.23	3061.77	0.66	71.08	0.35	37.69	2679.05	0.41	44.15	0.34	36.62	1616.71	0.40	43.08	0.28	30.15	1298.93
6	0.49	52.77	0.50	53.85	2841.42	0.41	44.15	0.31	33.38	1474.06	0.40	43.08	0.32	34.46	1484.50	0.42	45.23	0.28	30.15	1363.88
7	0.50	53.85	0.50	53.85	2899.41	0.45	48.46	0.35	37.69	1826.63	0.42	45.23	0.30	32.31	1461.30	0.38	40.92	0.26	28.00	1145.85
8	0.75	80.77	0.48	51.69	4175.15	0.48	51.69	0.42	45.23	2338.08	0.46	49.54	0.40	43.08	2133.96	0.45	48.46	0.36	38.77	1878.82
9	0.65	70.00	0.41	44.15	3090.77	0.35	37.69	0.35	37.69	1420.71	0.40	43.08	0.31	33.38	1438.11	0.48	51.69	0.20	21.54	1113.37
10	0.62	66.77	0.38	40.92	2732.40	0.68	73.23	0.40	43.08	3154.56	0.41	44.15	0.25	26.92	1188.76	0.45	48.46	0.28	30.15	1461.30
11	0.58	62.46	0.50	53.85	3363.31	0.50	53.85	0.40	43.08	2319.53	0.45	48.46	0.32	34.46	1670.06	0.55	59.23	0.26	28.00	1658.46
12	0.50	53.85	0.35	37.69	2029.59	0.50	53.85	0.38	40.92	2203.55	0.42	45.23	0.32	34.46	1558.72	0.42	45.23	0.31	33.38	1510.01
13	0.50	53.85	0.35	37.69	2029.59	0.61	65.69	0.39	42.00	2759.08	0.45	48.46	0.32	34.46	1670.06	0.45	48.46	0.30	32.31	1565.68
14	0.65	70.00	0.40	43.08	3015.38	0.50	53.85	0.31	33.38	1797.63	0.45	48.46	0.36	38.77	1878.82	0.50	53.85	0.33	35.54	1913.61
15	0.52	56.00	0.40	43.08	2412.31	0.41	44.15	0.38	40.92	1806.91	0.45	48.46	0.31	33.38	1617.87	0.46	49.54	0.32	34.46	1707.17
16	0.48	51.69	0.40	43.08	2226.75	0.52	56.00	0.32	34.46	1929.85	0.40	43.08	0.30	32.31	1391.72	0.41	44.15	0.30	32.31	1426.51
17	0.68	73.23	0.40	43.08	3154.56	0.40	43.08	0.40	43.08	1855.62	0.50	53.85	0.40	43.08	2319.53	0.50	53.85	0.31	33.38	1797.63
18	0.70	75.38	0.30	32.31	2435.50	0.55	59.23	0.40	43.08	2551.48	0.46	49.54	0.31	33.38	1653.82	0.50	53.85	0.28	30.15	1623.67
19	0.38	40.92	0.50	53.85	2203.55	0.55	59.23	0.40	43.08	2551.48	0.41	44.15	0.30	32.31	1426.51	0.46	49.54	0.33	35.54	1760.52
20	0.62	66.77	0.65	70.00	4673.85	0.45	48.46	0.41	44.15	2139.76	0.40	43.08	0.32	34.46	1484.50	0.40	43.08	0.35	37.69	1623.67
21	0.40	43.08	0.60	64.62	2783.43	0.39	42.00	0.40	43.08	1809.23	0.40	43.08	0.30	32.31	1391.72	0.45	48.46	0.30	32.31	1565.68
22	0.41	44.15	0.41	44.15	1949.56	0.36	38.77	0.34	36.62	1419.55	0.39	42.00	0.31	33.38	1402.15	0.49	52.77	0.30	32.31	1704.85
23	0.50	53.85	0.42	45.23	2435.50	0.48	51.69	0.30	32.31	1670.06	0.40	43.08	0.31	33.38	1438.11	0.50	53.85	0.30	32.31	1739.64
24	0.60	64.62	0.50	53.85	3479.29	0.44	47.38	0.44	47.38	2245.30	0.40	43.08	0.30	32.31	1391.72	0.40	43.08	0.30	32.31	1391.72
25	0.50	53.85	0.50	53.85	2899.41	0.50	53.85	0.39	42.00	2261.54	0.42	45.23	0.30	32.31	1461.30	0.40	43.08	0.25	26.92	1159.76
Suma		1451.69		1221.23	70428.94		1312.77		1001.54	52650.05	10.84	1167.38	7.87	847.54	39655.78		1204.00		799.08	38478.62
Promedio		58.07		48.85	2817.16		52.51		40.06	2106.36	0.43	46.70	0.31	33.90	1586.23		48.16		31.96	1539.14
D.E. (σ)		10.64		8.67	658.01		8.94		4.10	430.94	0.04	3.94	0.03	3.65	249.09		5.01		3.54	232.48

Promedio del área de las células del haz: 2817.16 micras cuadradas 354.97 células/mm cuadrados

Promedio del área de las células del envéz: 2106.36 micras cuadradas 474.75 células/mm cuadrados

El promedio de las células del haz es 1.34 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.38 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.51 veces el promedio del ancho.

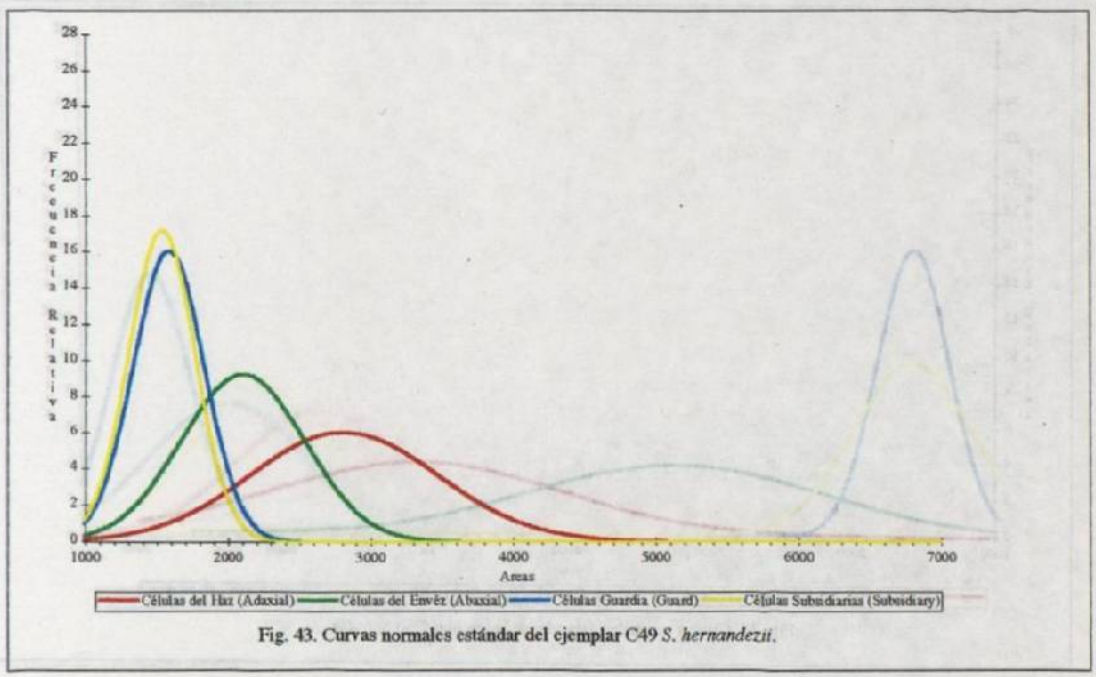

Fig. 43. Curvas normales estándar del ejemplar C49 *S. hernandezii*.

Cuadro 44. Datos estadísticos de C50 *S. pulla*.

C50 *S. pulla* (Pmá!) Pl#300996-6 Colombia, Panamá (!), Costa Rica

	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (La)		Ancho (As)		Area
#	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²
1	1.18	127.08	0.55	59.23	7526.86	0.62	66.77	0.52	56.00	3739.08	0.45	48.46	0.30	32.31	1565.68	0.30	32.31	0.22	23.69	765.44
2	1.05	113.08	0.52	56.00	6332.31	0.70	75.38	0.55	59.23	4465.09	0.42	45.23	0.32	34.46	1558.72	0.65	70.00	0.24	25.85	1809.23
3	0.80	86.15	0.48	51.69	4453.49	0.45	48.46	0.50	53.85	2609.47	0.40	43.08	0.32	34.46	1484.50	0.50	53.85	0.30	32.31	1739.64
4	0.91	98.00	0.50	53.85	5276.92	0.55	59.23	0.50	53.85	3189.35	0.38	40.92	0.30	32.31	1322.13	0.38	40.92	0.40	43.08	1762.84
5	0.90	96.92	0.60	64.62	6262.72	0.55	59.23	0.48	51.69	3061.77	0.42	45.23	0.28	30.15	1363.88	0.40	43.08	0.20	21.54	927.81
6	0.82	88.31	0.50	53.85	4755.03	0.60	64.62	0.40	43.08	2783.43	0.48	51.69	0.30	32.31	1670.06	0.60	64.62	0.20	21.54	1391.72
7	0.70	75.38	0.50	53.85	4059.17	0.60	64.62	0.60	64.62	4175.15	0.40	43.08	0.32	34.46	1484.50	0.42	45.23	0.45	48.46	2191.95
8	0.80	86.15	0.50	53.85	4639.05	0.48	51.69	0.48	51.69	2672.09	0.40	43.08	0.30	32.31	1391.72	0.52	56.00	0.25	26.92	1507.69
9	0.85	91.54	0.50	53.85	4928.99	0.80	86.15	0.40	43.08	3711.24	0.40	43.08	0.35	37.69	1623.67	0.30	32.31	0.40	43.08	1391.72
10	0.65	70.00	0.45	48.46	3392.31	0.75	80.77	0.45	48.46	3914.20	0.40	43.08	0.32	34.46	1484.50	0.40	43.08	0.25	26.92	1159.76
11	0.65	70.00	0.40	43.08	3015.38	0.78	84.00	0.45	48.46	4070.77	0.42	45.23	0.28	30.15	1363.88	0.38	40.92	0.38	40.92	1674.70
12	1.00	107.69	0.46	49.54	5334.91	0.80	86.15	0.70	75.38	6494.67	0.40	43.08	0.32	34.46	1484.50	0.40	43.08	0.30	32.31	1391.72
13	0.95	102.31	0.45	48.46	4957.99	0.70	75.38	0.55	59.23	4465.09	0.45	48.46	0.38	40.92	1983.19	0.40	43.08	0.35	37.69	1623.67
14	1.08	116.31	0.40	43.08	5010.18	0.55	59.23	0.60	64.62	3827.22	0.42	45.23	0.35	37.69	1704.85	0.45	48.46	0.28	30.15	1461.30
15	1.00	107.69	0.48	51.69	5566.86	0.68	73.23	0.40	43.08	3154.56	0.42	45.23	0.32	34.46	1558.72	0.40	43.08	0.32	34.46	1484.50
16	1.00	107.69	0.48	51.69	5566.86	0.85	91.54	0.30	32.31	2957.40	0.36	38.77	0.30	32.31	1252.54	0.60	64.62	0.35	37.69	2435.50
17	0.78	84.00	0.50	53.85	4523.08	0.65	70.00	0.40	43.08	3015.38	0.38	40.92	0.28	30.15	1233.99	0.50	53.85	0.32	34.46	1855.62
18	1.15	123.85	0.50	53.85	6668.64	0.55	59.23	0.40	43.08	2551.48	0.40	43.08	0.32	34.46	1484.50	0.35	37.69	0.30	32.31	1217.75
19	0.80	86.15	0.48	51.69	4453.49	0.65	70.00	0.40	43.08	3015.38	0.50	53.85	0.35	37.69	2029.59	0.50	53.85	0.30	32.31	1739.64
20	0.82	88.31	0.48	51.69	4564.83	0.48	51.69	0.32	34.46	1781.40	0.45	48.46	0.32	34.46	1670.06	0.60	64.62	0.25	26.92	1739.64
21	1.05	113.08	0.45	48.46	5479.88	0.56	60.31	0.40	43.08	2597.87	0.50	53.85	0.32	34.46	1855.62	0.60	64.62	0.20	21.54	1391.72
22	0.92	99.08	0.48	51.69	5121.51	0.50	53.85	0.40	43.08	2319.53	0.50	53.85	0.38	40.92	2203.55	0.45	48.46	0.50	53.85	2609.47
23	0.95	102.31	0.48	51.69	5288.52	0.60	64.62	0.35	37.69	2435.50	0.45	48.46	0.32	34.46	1670.06	0.50	53.85	0.25	26.92	1449.70
24	0.78	84.00	0.40	43.08	3618.46	0.58	62.46	0.30	32.31	2017.99	0.45	48.46	0.35	37.69	1826.63	0.38	40.92	0.28	30.15	1233.99
25	0.92	99.08	0.50	53.85	5334.91	0.48	51.69	0.35	37.69	1948.40	0.42	45.23	0.25	26.92	1217.75	0.55	59.23	0.25	26.92	1594.67
Suma		2424.15		1296.62	126132.36		1670.31		1206.15	80973.50	10.67	1149.08	7.95	856.15	39488.78		1241.69		812.00	39551.40
Promedio		96.97		51.86	5045.29		66.81		48.25	3238.94	0.43	45.96	0.32	34.25	1579.55		49.67		32.48	1582.06
D.E. (σ)		15.44		4.73	1005.99		12.17		10.79	1025.72	0.04	4.16	0.03	3.29	252.68		10.65		8.46	414.29

Promedio del área de las células del haz: 5045.29 micras cuadradas 198.20 células/mm cuadrados

Promedio del área de las células del envéz: 3238.94 micras cuadradas 308.74 células/mm cuadrados

El promedio de las células del haz es 1.56 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.34 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.53 veces el promedio del ancho.

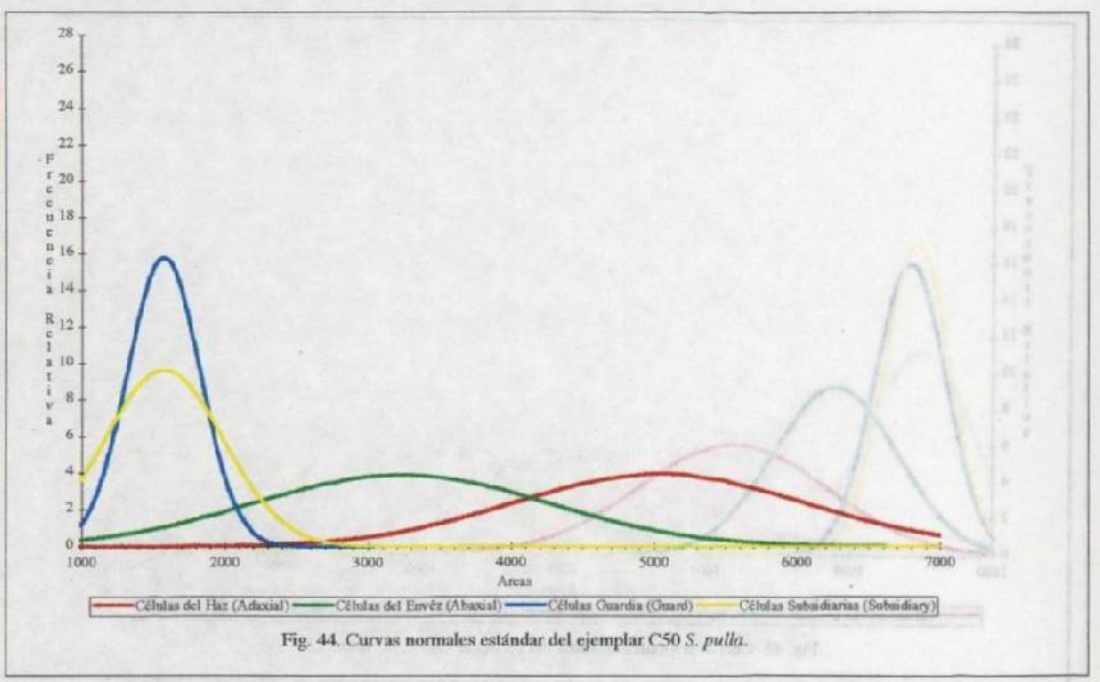

Fig. 44. Curvas normales estándar del ejemplar C50 *S. pulla*.

Cuadro 45. Datos estadísticos de C51 *S. intermedia*.

C51 *S. intermedia* (Méx!) PI#300996-7 México (!)

	Células del Haz (Adaxial Epidermal Cells)					Células del Envés (Abaxial Epidermal Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (Ls)		Ancho (As)		Area
#	Indice	µ1	Indice	µ2	µ1*µ2	Indice	µ1	Indice	µ2	µ1*µ2	Indice	µ1	Indice	µ2	µ1*µ2	Indice	µ1	Indice	µ2	µ1*µ2
1	0.65	70.00	0.55	59.23	4146.15	0.50	53.85	0.48	51.69	2783.43	0.40	43.08	0.28	30.15	1298.93	0.55	59.23	0.38	40.92	2423.90
2	0.48	51.69	0.62	66.77	3451.46	0.55	59.23	0.45	48.46	2870.41	0.45	48.46	0.30	32.31	1565.68	0.55	59.23	0.40	43.08	2551.48
3	0.58	62.46	0.43	46.31	2892.45	0.55	59.23	0.40	43.08	2551.48	0.55	59.23	0.41	44.15	2615.27	0.45	48.46	0.42	45.23	2191.95
4	0.55	59.23	0.39	42.00	2487.69	0.50	53.85	0.30	32.31	1739.64	0.40	43.08	0.28	30.15	1298.93	0.40	43.08	0.38	40.92	1762.84
5	0.51	54.92	0.48	51.69	2839.10	0.40	43.08	0.32	34.46	1484.50	0.41	44.15	0.30	32.31	1426.51	0.60	64.62	0.32	34.46	2226.75
6	0.50	53.85	0.40	43.08	2319.53	0.54	58.15	0.24	25.85	1503.05	0.32	34.46	0.30	32.31	1113.37	0.45	48.46	0.35	37.69	1826.63
7	0.50	53.85	0.40	43.08	2319.53	0.54	58.15	0.45	48.46	2818.22	0.42	45.23	0.35	37.69	1704.85	0.45	48.46	0.40	43.08	2087.57
8	0.55	59.23	0.42	45.23	2679.05	0.50	53.85	0.35	37.69	2029.59	0.45	48.46	0.30	32.31	1565.68	0.51	54.92	0.32	34.46	1892.73
9	0.48	51.69	0.40	43.08	2226.75	0.50	53.85	0.42	45.23	2435.50	0.41	44.15	0.30	32.31	1426.51	0.55	59.23	0.40	43.08	2551.48
10	0.62	66.77	0.46	49.54	3307.64	0.56	60.31	0.41	44.15	2662.82	0.42	45.23	0.30	32.31	1461.30	0.52	56.00	0.35	37.69	2110.77
11	0.52	56.00	0.35	37.69	2110.77	0.55	59.23	0.42	45.23	2679.05	0.45	48.46	0.30	32.31	1565.68	0.50	53.85	0.28	30.15	1623.67
12	0.56	60.31	0.30	32.31	1948.40	0.51	54.92	0.35	37.69	2070.18	0.41	44.15	0.32	34.46	1521.61	0.45	48.46	0.30	32.31	1565.68
13	0.58	62.46	0.50	53.85	3363.31	0.52	56.00	0.35	37.69	2110.77	0.40	43.08	0.31	33.38	1438.11	0.40	43.08	0.38	40.92	1762.84
14	0.51	54.92	0.42	45.23	2484.21	0.40	43.08	0.45	48.46	2087.57	0.50	53.85	0.30	32.31	1739.64	0.50	53.85	0.38	40.92	2203.55
15	0.55	59.23	0.40	43.08	2551.48	0.65	70.00	0.28	30.15	2110.77	0.40	43.08	0.32	34.46	1484.50	0.49	52.77	0.40	43.08	2273.14
16	0.55	59.23	0.38	40.92	2423.90	0.50	53.85	0.40	43.08	2319.53	0.45	48.46	0.30	32.31	1565.68	0.50	53.85	0.35	37.69	2029.59
17	0.52	56.00	0.36	38.77	2171.08	0.45	48.46	0.25	26.92	1304.73	0.40	43.08	0.32	34.46	1484.50	0.60	64.62	0.40	43.08	2783.43
18	0.52	56.00	0.35	37.69	2110.77	0.48	51.69	0.25	26.92	1391.72	0.40	43.08	0.32	34.46	1484.50	0.62	66.77	0.50	53.85	3595.27
19	0.58	62.46	0.32	34.46	2152.52	0.52	56.00	0.30	32.31	1809.23	0.40	43.08	0.30	32.31	1391.72	0.50	53.85	0.40	43.08	2319.53
20	0.60	64.62	0.30	32.31	2087.57	0.40	43.08	0.28	30.15	1298.93	0.40	43.08	0.30	32.31	1391.72	0.40	43.08	0.50	53.85	2319.53
21	0.58	62.46	0.38	40.92	2556.12	0.45	48.46	0.35	37.69	1826.63	0.40	43.08	0.30	32.31	1391.72	0.55	59.23	0.45	48.46	2870.41
22	0.58	62.46	0.57	61.38	3834.18	0.45	48.46	0.32	34.46	1670.06	0.40	43.08	0.30	32.31	1391.72	0.45	48.46	0.35	37.69	1826.63
23	0.54	58.15	0.48	51.69	3006.11	0.50	53.85	0.40	43.08	2319.53	0.42	45.23	0.30	32.31	1461.30	0.65	70.00	0.38	40.92	2864.61
24	0.50	53.85	0.50	53.85	2899.41	0.42	45.23	0.35	37.69	1704.85	0.38	40.92	0.25	26.92	1101.77	0.62	66.77	0.40	43.08	2876.21
25	0.52	56.00	0.41	44.15	2472.62	0.40	43.08	0.20	21.54	927.81	0.45	48.46	0.28	30.15	1461.30	0.52	56.00	0.32	34.46	1929.85
Suma	1467.85		1138.31	66841.79		1328.92		944.46	50510.00		10.49	1129.69	7.64	822.77	37352.49		1376.31		1024.15	56470.03
Promedio	58.71		45.53	2673.67		53.16		37.78	2020.40		0.42	45.19	0.31	32.91	1494.10		55.05		40.97	2258.80
D.E. (σ)	4.70		8.76	574.25		6.63		8.20	540.23		0.04	4.60	0.03	3.05	275.06		7.67		5.77	478.44

Promedio del área de las células del haz: 2673.67 micras cuadradas 374.02 células/mm cuadrados

Promedio del área de las células del envés: 2020.40 micras cuadradas 494.95 células/mm cuadrados

El promedio de las células del haz es 1.32 veces el promedio de las células del envés.

El promedio de las células guardia es 1.37 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.34 veces el promedio del ancho.

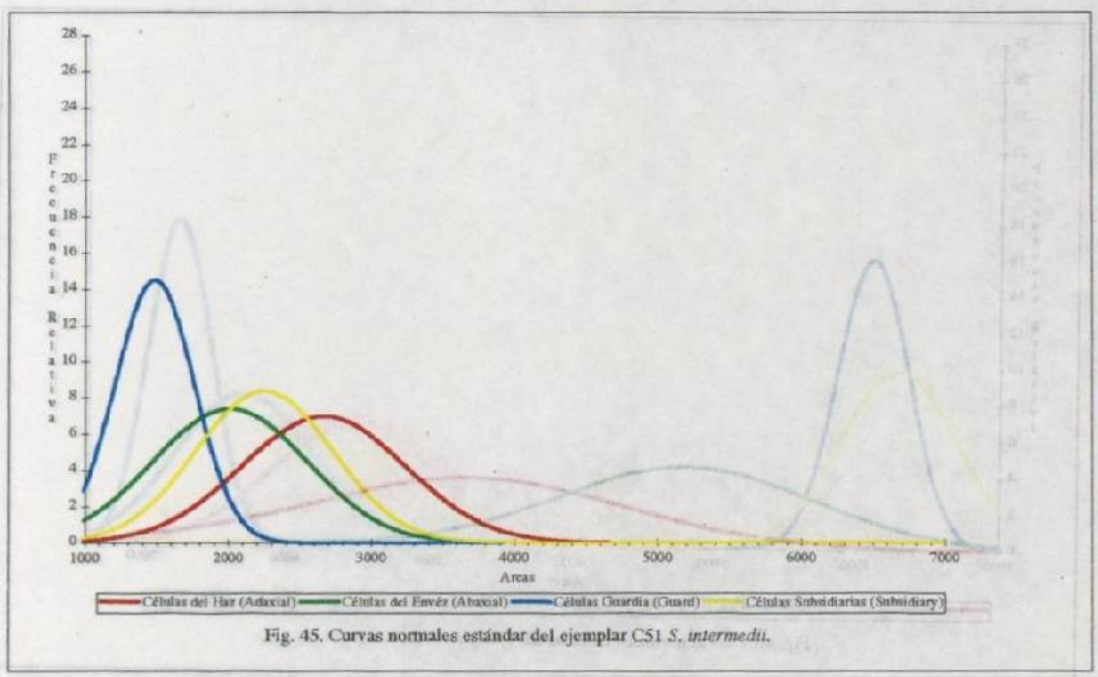

Fig. 45. Curvas normales estándar del ejemplar C51 *S. intermedii*.

Cuadro 46. Datos estadísticos de C52 *S. connata*.

C52 *S. connata* Pl#300996-8 Colombia, Ecuador, y Perú

#	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (Ls)		Ancho (As)		Area
	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²
1	0.75	80.77	0.50	53.85	4349.11	0.74	79.69	0.41	44.15	3518.72	0.45	48.46	0.30	32.31	1565.68	0.50	53.85	0.22	23.69	1275.74
2	0.79	85.08	0.48	51.69	4397.82	0.50	53.85	0.39	42.00	2261.54	0.45	48.46	0.35	37.69	1826.63	0.60	64.62	0.30	32.31	2087.57
3	0.75	80.77	0.50	53.85	4349.11	0.66	71.08	0.40	43.08	3061.77	0.48	51.69	0.35	37.69	1948.40	0.60	64.62	0.15	16.15	1043.79
4	0.90	96.92	0.60	64.62	6262.72	0.52	56.00	0.34	36.62	2050.46	0.45	48.46	0.32	34.46	1670.06	0.70	75.38	0.22	23.69	1786.04
5	1.18	127.08	0.48	51.69	6568.90	0.75	80.77	0.33	35.54	2870.41	0.48	51.69	0.38	40.92	2115.41	0.60	64.62	0.25	26.92	1739.64
6	0.98	105.54	0.55	59.23	6251.12	0.47	50.62	0.37	39.85	2016.83	0.42	45.23	0.38	40.92	1850.98	0.62	66.77	0.20	21.54	1438.11
7	0.90	96.92	0.50	53.85	5218.93	0.65	70.00	0.40	43.08	3015.38	0.50	53.85	0.35	37.69	2029.59	0.50	53.85	0.24	25.85	1391.72
8	1.00	107.69	0.59	63.54	6842.60	0.62	66.77	0.32	34.46	2300.97	0.48	51.69	0.32	34.46	1781.40	0.50	53.85	0.25	26.92	1449.70
9	1.05	113.08	0.46	49.54	5601.66	0.80	86.15	0.40	43.08	3711.24	0.50	53.85	0.32	34.46	1855.62	0.55	59.23	0.20	21.54	1275.74
10	0.80	86.15	0.50	53.85	4639.05	0.80	86.15	0.49	52.77	4546.27	0.45	48.46	0.30	32.31	1565.68	0.55	59.23	0.25	26.92	1594.67
11	0.70	75.38	0.50	53.85	4059.17	0.80	86.15	0.40	43.08	3711.24	0.42	45.23	0.30	32.31	1461.30	0.55	59.23	0.25	26.92	1594.67
12	0.70	75.38	0.51	54.92	4140.35	0.58	62.46	0.30	32.31	2017.99	0.48	51.69	0.35	37.69	1948.40	0.50	53.85	0.32	34.46	1855.62
13	0.68	73.23	0.49	52.77	3864.33	0.70	75.38	0.38	40.92	3084.97	0.45	48.46	0.30	32.31	1565.68	0.50	53.85	0.20	21.54	1159.76
14	0.80	86.15	0.42	45.23	3896.80	0.82	88.31	0.42	45.23	3994.22	0.45	48.46	0.35	37.69	1826.63	0.60	64.62	0.25	26.92	1739.64
15	0.80	86.15	0.50	53.85	4639.05	0.50	53.85	0.38	40.92	2203.55	0.48	51.69	0.40	43.08	2226.75	0.60	64.62	0.28	30.15	1948.40
16	0.84	90.46	0.55	59.23	5358.11	0.60	64.62	0.39	42.00	2713.85	0.45	48.46	0.40	43.08	2087.57	0.50	53.85	0.20	21.54	1159.76
17	0.92	99.08	0.54	58.15	5761.70	0.86	92.62	0.56	60.31	5585.42	0.50	53.85	0.40	43.08	2319.53	0.65	70.00	0.30	32.31	2261.54
18	0.71	76.46	0.61	65.69	5022.93	0.58	62.46	0.45	48.46	3026.98	0.42	45.23	0.42	45.23	2045.82	0.55	59.23	0.28	30.15	1786.04
19	0.80	86.15	0.50	53.85	4639.05	0.79	85.08	0.41	44.15	3756.47	0.45	48.46	0.38	40.92	1983.19	0.65	70.00	0.30	32.31	2261.54
20	0.55	59.23	0.50	53.85	3189.35	0.86	92.62	0.42	45.23	4189.06	0.45	48.46	0.32	34.46	1670.06	0.70	75.38	0.35	37.69	2841.42
21	0.50	53.85	0.50	53.85	2899.41	0.58	62.46	0.36	38.77	2421.59	0.50	53.85	0.40	43.08	2319.53	0.60	64.62	0.22	23.69	1530.89
22	0.80	86.15	0.49	52.77	4546.27	0.93	100.15	0.39	42.00	4206.46	0.50	53.85	0.30	32.31	1739.64	0.60	64.62	0.28	30.15	1948.40
23	0.69	74.31	0.60	64.62	4801.42	0.80	86.15	0.40	43.08	3711.24	0.50	53.85	0.40	43.08	2319.53	0.55	59.23	0.30	32.31	1913.61
24	0.55	59.23	0.50	53.85	3189.35	0.78	84.00	0.30	32.31	2713.85	0.45	48.46	0.35	37.69	1826.63	0.52	56.00	0.30	32.31	1809.23
25	0.55	59.23	0.50	53.85	3189.35	0.90	96.92	0.30	32.31	3131.36	0.42	45.23	0.35	37.69	1704.85	0.50	53.85	0.30	32.31	1739.64
Suma		2120.46		1386.00	117677.69		1894.31		1045.69	79821.86	11.58	1247.08	8.79	946.62	47254.55		1538.92		690.31	42632.89
Promedio		84.82		55.44	4707.11		75.77		41.83	3192.87	0.46	49.88	0.35	37.86	1890.18		61.56		27.61	1705.32
D. S. (σ)		17.70		4.94	1084.27		14.68		6.31	899.25	0.03	3.01	0.04	4.18	249.63		6.74		5.13	406.15

Promedio del área de las células del haz: 4707.11 micras cuadradas 212.44 células/mm cuadrados

Promedio del área de las células del envéz: 3192.87 micras cuadradas 313.20 células/mm cuadrados

El promedio de las células del haz es 1.47 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.32 veces el promedio del ancho.

El promedio de las células subsidiarias es 2.23 veces el promedio del ancho.

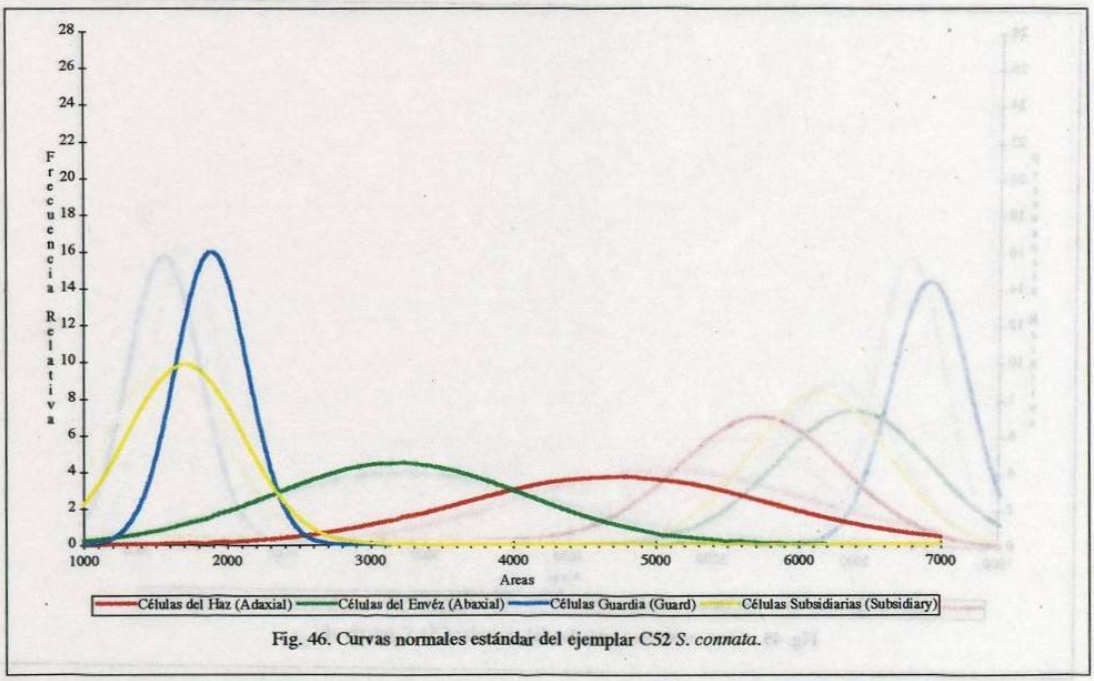

Fig. 46. Curvas normales estándar del ejemplar C52 *S. connata*.

Cuadro 47. Datos estadísticos de CS3 *S. hernandezii*.

CS3 *S. hernandezii* (Méx) PI#300996-9 México (1)

	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (La)		Ancho (Aa)		Area
#	Indice	µ1	Indice	µ2	µ1µ2	Indice	µ1	Indice	µ2	µ1µ2	Indice	µ1	Indice	µ2	µ1µ2	Indice	µ1	Indice	µ2	µ1µ2
1	0.50	53.85	0.40	43.08	2319.53	0.64	68.92	0.34	36.62	2523.64	0.40	43.08	0.35	37.69	1623.67	0.48	51.69	0.45	48.46	2505.09
2	0.50	53.85	0.40	43.08	2319.53	0.42	45.23	0.32	34.46	1558.72	0.45	48.46	0.30	32.31	1565.68	0.58	62.46	0.41	44.15	2757.92
3	0.50	53.85	0.40	43.08	2319.53	0.42	45.23	0.36	38.77	1753.56	0.41	44.15	0.32	34.46	1521.61	0.55	59.23	0.24	25.85	1530.89
4	0.59	63.54	0.40	43.08	2737.04	0.45	48.46	0.35	37.69	1826.63	0.48	51.69	0.33	35.54	1837.06	0.55	59.23	0.48	51.69	3061.77
5	0.62	66.77	0.40	43.08	2876.21	0.42	45.23	0.35	37.69	1704.85	0.42	45.23	0.36	38.77	1753.56	0.48	51.69	0.22	23.69	1224.71
6	0.75	80.77	0.40	43.08	3479.29	0.79	85.08	0.32	34.46	2931.88	0.45	48.46	0.32	34.46	1670.06	0.50	53.85	0.26	28.00	1507.69
7	0.40	43.08	0.42	45.23	1948.40	0.40	43.08	0.35	37.69	1623.67	0.48	51.69	0.33	35.54	1837.06	0.60	64.62	0.22	23.69	1530.89
8	0.80	86.15	0.40	43.08	3711.24	0.50	53.85	0.40	43.08	2319.53	0.41	44.15	0.30	32.31	1426.51	0.50	53.85	0.20	21.54	1159.76
9	0.80	86.15	0.40	43.08	3711.24	0.65	70.00	0.45	48.46	3392.31	0.45	48.46	0.30	32.31	1565.68	0.49	52.77	0.51	54.92	2898.25
10	0.67	72.15	0.40	43.08	3108.17	0.46	49.54	0.34	36.62	1813.87	0.38	40.92	0.26	28.00	1145.85	0.55	59.23	0.35	37.69	2232.54
11	0.60	64.62	0.35	37.69	2435.50	0.50	53.85	0.40	43.08	2319.53	0.48	51.69	0.32	34.46	1781.40	0.55	59.23	0.40	43.08	2551.48
12	0.60	64.62	0.40	43.08	2783.43	0.59	63.54	0.36	38.77	2463.34	0.42	45.23	0.30	32.31	1461.30	0.49	52.77	0.32	34.46	1818.51
13	0.48	51.69	0.50	53.85	2783.43	0.58	62.46	0.40	43.08	2690.65	0.40	43.08	0.30	32.31	1391.72	0.46	49.54	0.45	48.46	2400.71
14	0.50	53.85	0.42	45.23	2435.50	0.40	43.08	0.30	32.31	1391.72	0.40	43.08	0.30	32.31	1391.72	0.60	64.62	0.45	48.46	3131.36
15	0.50	53.85	0.40	43.08	2319.53	0.39	42.00	0.35	37.69	1583.08	0.46	49.54	0.40	43.08	2133.96	0.56	60.31	0.51	54.92	3312.28
16	0.60	64.62	0.40	43.08	2783.43	0.50	53.85	0.35	37.69	2029.59	0.44	47.38	0.39	42.00	1990.15	0.62	66.77	0.52	56.00	3739.08
17	0.60	64.62	0.35	37.69	2435.50	0.55	59.23	0.35	37.69	2232.54	0.50	53.85	0.31	33.38	1797.63	0.62	66.77	0.45	48.46	3235.74
18	0.90	96.92	0.42	45.23	4383.90	0.46	49.54	0.36	38.77	1920.57	0.40	43.08	0.30	32.31	1391.72	0.60	64.62	0.35	37.69	2435.50
19	0.69	74.31	0.30	32.31	2400.71	0.50	53.85	0.40	43.08	2319.53	0.42	45.23	0.32	34.46	1558.72	0.56	60.31	0.55	59.23	3572.07
20	0.63	67.85	0.41	44.15	2995.67	0.40	43.08	0.35	37.69	1623.67	0.43	46.31	0.32	34.46	1595.83	0.52	56.00	0.48	51.69	2894.77
21	0.81	87.23	0.42	45.23	3945.51	0.48	51.69	0.36	38.77	2004.07	0.46	49.54	0.36	38.77	1920.57	0.55	59.23	0.50	53.85	3189.35
22	0.55	59.23	0.43	46.31	2742.84	0.46	49.54	0.32	34.46	1707.17	0.40	43.08	0.32	34.46	1484.50	0.54	58.15	0.41	44.15	2567.72
23	0.52	56.00	0.41	44.15	2472.62	0.43	46.31	0.40	43.08	1994.79	0.44	47.38	0.35	37.69	1786.04	0.52	56.00	0.50	53.85	3015.38
24	0.65	70.00	0.41	44.15	3090.77	0.48	51.69	0.35	37.69	1948.40	0.48	51.69	0.32	34.46	1781.40	0.60	64.62	0.40	43.08	2783.43
25	0.62	66.77	0.43	46.31	3091.93	0.48	51.69	0.45	48.46	2505.09	0.43	46.31	0.32	34.46	1595.83	0.50	53.85	0.52	56.00	3015.38
Suma		1656.31		1084.46	71630.45		1330.00		977.85	52182.38	10.89	1172.77	8.10	872.31	41009.22		1461.38		1093.08	64072.27
Promedio		66.25		43.38	2865.22		53.20		39.11	2087.30	0.44	46.91	0.32	34.89	1640.37		58.46		43.72	2562.89
D.E. (σ)		13.22		3.71	593.98		10.24		4.05	479.92	0.03	3.50	0.03	3.30	222.64		5.11		11.61	730.63

Promedio del área de las células del haz: 2865.22 micras cuadradas 349.01 células/mm cuadrados

Promedio del área de las células del envéz. 2087.30 micras cuadradas 479.09 células/mm cuadrados

El promedio de las células del haz es 1.37 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.34 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.34 veces el promedio del ancho.

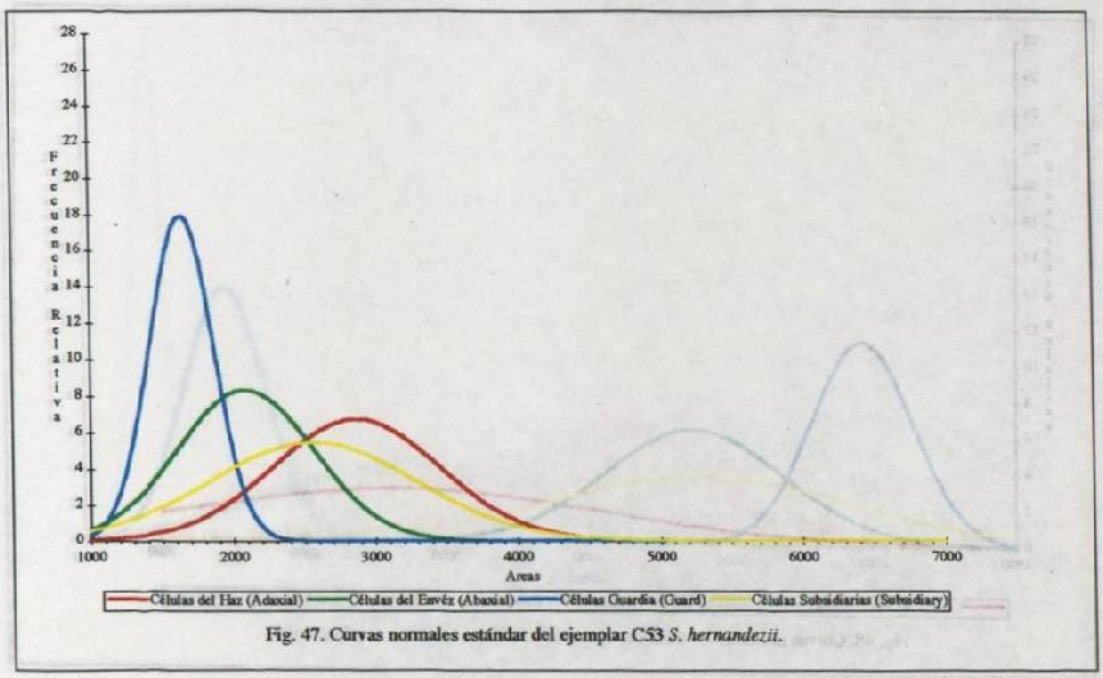

Fig. 47. Curvas normales estándar del ejemplar CS3 *S. hernandezii*.

Cuadro 50. Datos estadísticos de C56 S. Chocolate Chips 'Lindt.'

C56 Chocolate Chips 'Lindt' PI#300996-12 (*tigrinus* x *panamensis*) Híbrido Primerio Hecho por Hombre (Man-made Primary Hybrid)

	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Área	Largo (Le)		Ancho (Ae)		Área	Largo (Lg)		Ancho (Ag)		Área	Largo (Ls)		Ancho (As)		Área
#	Indice	μ_{Lh}	Indice	μ_{Ah}	μ_{Ahe}	Indice	μ_{Le}	Indice	μ_{Ae}	μ_{Ahe}	Indice	μ_{Lg}	Indice	μ_{Ag}	μ_{Ahg}	Indice	μ_{Ls}	Indice	μ_{As}	μ_{Ahs}
1	0.88	94.77	0.36	38.77	3674.13	0.68	73.23	0.39	42.00	3075.69	0.41	44.15	0.31	33.38	1474.06	0.58	62.46	0.66	71.08	4439.57
2	0.71	76.46	0.57	61.38	4693.56	0.55	59.23	0.40	43.08	2551.48	0.39	42.00	0.30	32.31	1356.92	0.71	76.46	0.50	53.85	4117.16
3	0.77	82.92	0.48	51.69	4286.48	0.50	53.85	0.40	43.08	2319.53	0.40	43.08	0.31	33.38	1438.11	0.66	71.08	0.50	53.85	3827.22
4	0.80	86.15	0.47	50.62	4360.71	0.52	56.00	0.40	43.08	2412.31	0.36	38.77	0.26	28.00	1085.54	0.67	72.15	0.42	45.23	3263.57
5	0.84	90.46	0.50	53.85	4871.01	0.61	65.69	0.40	43.08	2829.82	0.42	45.23	0.31	33.38	1510.01	0.46	49.54	0.40	43.08	2133.96
6	0.98	105.54	0.48	51.69	5455.53	0.45	48.46	0.40	43.08	2087.57	0.41	44.15	0.31	33.38	1474.06	0.68	73.23	0.62	66.77	4889.56
7	0.71	76.46	0.40	43.08	3293.73	0.55	59.23	0.45	48.46	2870.41	0.36	38.77	0.28	30.15	1169.04	0.62	66.77	0.45	48.46	3235.74
8	0.65	70.00	0.42	45.23	3166.15	0.58	62.46	0.49	52.77	3296.05	0.40	43.08	0.32	34.46	1484.50	0.65	70.00	0.56	60.31	4221.54
9	0.65	70.00	0.40	43.08	3015.38	0.56	60.31	0.38	40.92	2467.98	0.49	52.77	0.39	42.00	2216.31	0.68	73.23	0.24	25.85	1892.73
10	0.72	77.54	0.36	38.77	3006.11	0.61	65.69	0.40	43.08	2829.82	0.41	44.15	0.26	28.00	1236.31	0.59	63.54	0.49	52.77	3352.88
11	0.83	89.38	0.58	62.46	5583.10	0.50	53.85	0.42	45.23	2435.50	0.41	44.15	0.30	32.31	1426.51	0.74	79.69	0.42	45.23	3604.54
12	0.88	94.77	0.53	57.08	5409.14	0.72	77.54	0.50	53.85	4175.15	0.48	51.69	0.31	33.38	1725.73	0.68	73.23	0.40	43.08	3154.56
13	0.60	64.62	0.45	48.46	3131.36	0.68	73.23	0.48	51.69	3785.47	0.40	43.08	0.36	38.77	1670.06	0.74	79.69	0.43	46.31	3690.37
14	0.78	84.00	0.45	48.46	4070.77	0.57	61.38	0.40	43.08	2644.26	0.45	48.46	0.35	37.69	1826.63	0.72	77.54	0.50	53.85	4175.15
15	1.00	107.69	0.40	43.08	4639.05	0.71	76.46	0.33	35.54	2717.33	0.41	44.15	0.30	32.31	1426.51	0.71	76.46	0.30	32.31	2470.30
16	0.75	80.77	0.42	45.23	3653.25	0.58	62.46	0.40	43.08	2690.65	0.41	44.15	0.30	32.31	1426.51	0.71	76.46	0.30	32.31	2470.30
17	0.69	74.31	0.34	36.62	2720.80	0.55	59.23	0.42	45.23	2679.05	0.41	44.15	0.31	33.38	1474.06	0.60	64.62	0.34	36.62	2365.92
18	0.80	86.15	0.50	53.85	4639.05	0.65	70.00	0.48	51.69	3618.46	0.45	48.46	0.30	32.31	1565.68	0.60	64.62	0.50	53.85	3479.29
19	0.58	62.46	0.52	56.00	3497.85	0.56	60.31	0.40	43.08	2597.87	0.45	48.46	0.35	37.69	1826.63	0.49	52.77	0.50	53.85	2841.42
20	0.83	89.38	0.50	53.85	4813.02	0.60	64.62	0.35	37.69	2435.50	0.41	44.15	0.40	43.08	1902.01	0.79	85.08	0.44	47.38	4031.34
21	0.71	76.46	0.50	53.85	4117.16	0.71	76.46	0.53	57.08	4364.19	0.44	47.38	0.36	38.77	1837.06	0.68	73.23	0.74	79.69	5835.93
22	0.83	89.38	0.54	58.15	5198.06	0.62	66.77	0.45	48.46	3235.74	0.40	43.08	0.37	39.85	1716.45	0.61	65.69	0.40	43.08	2829.82
23	0.86	92.62	0.41	44.15	4089.32	0.55	59.23	0.41	44.15	2615.27	0.40	43.08	0.32	34.46	1484.50	0.60	64.62	0.38	40.92	2644.26
24	0.90	96.92	0.35	37.69	3653.25	0.52	56.00	0.35	37.69	2110.77	0.46	49.54	0.37	39.85	1973.92	0.60	64.62	0.70	75.38	4871.01
25	0.90	96.92	0.32	34.46	3340.12	0.41	44.15	0.39	42.00	1854.46	0.41	44.15	0.30	32.31	1426.51	0.62	66.77	0.43	46.31	3091.93
Suma	2116.15		1211.54	102378.09		1565.85		1122.15	70700.32		10.44	1124.31	8.05	866.92	39153.60		1743.54		1251.38	86930.05
Promedio	84.65		48.46	4095.12		62.63		44.89	2828.01		0.42	44.97	0.32	34.68	1566.14		69.74		50.06	3477.20
D.E. (σ)	11.80		7.90	850.31		8.58		5.25	622.69		0.03	3.41	0.04	3.99	261.99		8.20		13.13	953.85

Promedio del área de las células del haz: 4095.12 micras cuadradas 244.19 células/mm cuadrados

Promedio del área de las células del envéz: 2828.01 micras cuadradas 353.61 células/mm cuadrados

El promedio de las células del haz es 1.45 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.30 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.39 veces el promedio del ancho.

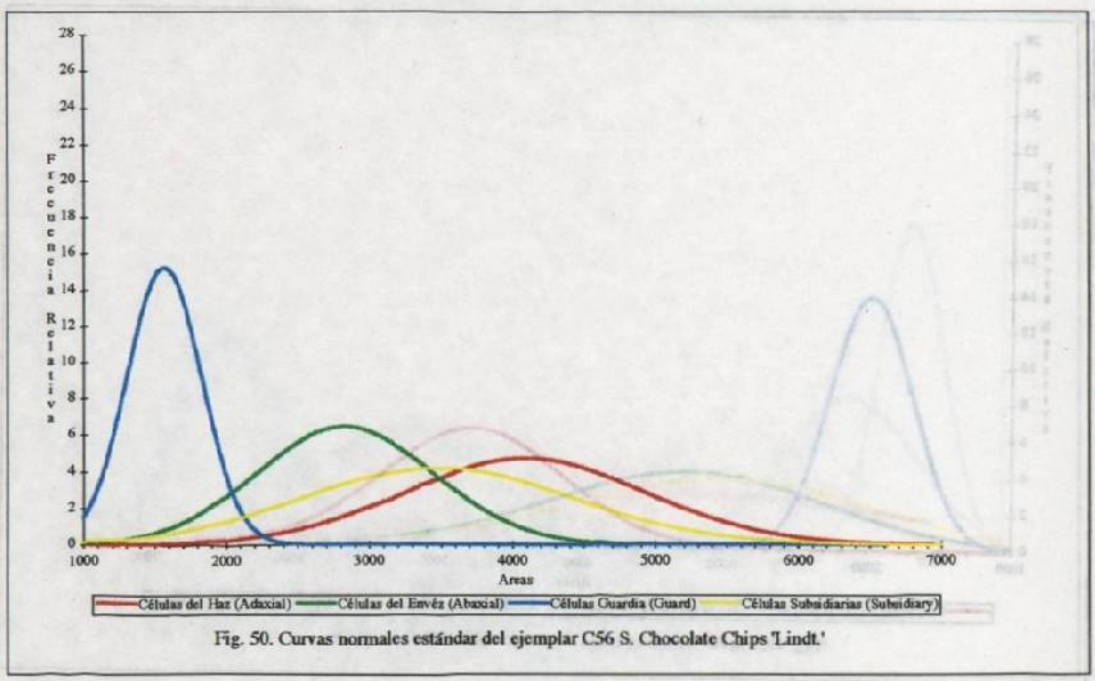

Fig. 50. Curvas normales estándar del ejemplar C56 S. Chocolate Chips 'Lindt.'

Cuadro 51. Datos estadísticos de C57 *S. lietzei* 'White Bird.'

C57 *S. lietzei* 'White Bird' P#300996-13 Venezuela, Las Guyanas, Brasil

	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (Ls)		Ancho (As)		Area
#	Indice	μ_{Lh}	Indice	μ_{Ah}	μ_{Ah}	Indice	μ_{Le}	Indice	μ_{Ae}	μ_{Ae}	Indice	μ_{Lg}	Indice	μ_{Ag}	μ_{Ag}	Indice	μ_{Ls}	Indice	μ_{As}	μ_{As}
1	0.79	85.08	0.51	54.92	4672.69	0.43	46.31	0.45	48.46	2244.14	0.45	48.46	0.33	35.54	1722.25	0.40	43.08	0.40	43.08	1855.62
2	0.69	74.31	0.52	56.00	4161.23	0.49	52.77	0.42	45.23	2386.79	0.40	43.08	0.30	32.31	1391.72	0.60	64.62	0.45	48.46	3131.36
3	0.80	86.15	0.50	53.85	4639.05	0.50	53.85	0.58	62.46	3363.31	0.40	43.08	0.29	31.23	1345.33	0.40	43.08	0.30	32.31	1391.72
4	0.70	75.38	0.50	53.85	4059.17	0.50	53.85	0.51	54.92	2957.40	0.40	43.08	0.30	32.31	1391.72	0.45	48.46	0.49	52.77	2557.28
5	0.82	88.31	0.51	54.92	4850.13	0.40	43.08	0.50	53.85	2319.53	0.40	43.08	0.29	31.23	1345.33	0.45	48.46	0.55	59.23	2870.41
6	0.52	56.00	0.50	53.85	3015.38	0.30	32.31	0.48	51.69	1670.06	0.40	43.08	0.25	26.92	1159.76	0.41	44.15	0.40	43.08	1902.01
7	0.70	75.38	0.52	56.00	4221.54	0.38	40.92	0.48	51.69	2115.41	0.40	43.08	0.30	32.31	1391.72	0.35	37.69	0.35	37.69	1420.71
8	0.85	91.54	0.55	59.23	5421.89	0.58	62.46	0.50	53.85	3363.31	0.40	43.08	0.29	31.23	1345.33	0.39	42.00	0.61	65.69	2759.08
9	0.88	94.77	0.60	64.62	6123.55	0.60	64.62	0.39	42.00	2713.85	0.40	43.08	0.31	33.38	1438.11	0.60	64.62	0.32	34.46	2226.75
10	0.60	64.62	0.48	51.69	3340.12	0.80	86.15	0.40	43.08	3711.24	0.40	43.08	0.30	32.31	1391.72	0.50	53.85	0.59	63.54	3421.30
11	0.52	56.00	0.49	52.77	2955.08	0.55	59.23	0.44	47.38	2806.63	0.40	43.08	0.30	32.31	1391.72	0.33	35.54	0.40	43.08	1530.89
12	0.70	75.38	0.60	64.62	4871.01	0.85	91.54	0.53	57.08	5224.73	0.35	37.69	0.30	32.31	1217.75	0.45	48.46	0.39	42.00	2035.38
13	0.86	92.62	0.50	53.85	4986.98	0.50	53.85	0.49	52.77	2841.42	0.38	40.92	0.30	32.31	1322.13	0.50	53.85	0.62	66.77	3595.27
14	0.80	86.15	0.54	58.15	5010.18	0.49	52.77	0.50	53.85	2841.42	0.40	43.08	0.30	32.31	1391.72	0.50	53.85	0.50	53.85	2899.41
15	0.95	102.31	0.55	59.23	6059.76	0.69	74.31	0.48	51.69	3841.14	0.40	43.08	0.32	34.46	1484.50	0.45	48.46	0.50	53.85	2609.47
16	0.95	102.31	0.54	58.15	5949.58	0.62	66.77	0.50	53.85	3595.27	0.38	40.92	0.30	32.31	1322.13	0.42	45.23	0.29	31.23	1412.59
17	0.64	68.92	0.59	63.54	4379.27	0.62	66.77	0.55	59.23	3954.79	0.38	40.92	0.30	32.31	1322.13	0.50	53.85	0.50	53.85	2899.41
18	0.62	66.77	0.58	62.46	4170.51	0.68	73.23	0.50	53.85	3943.19	0.40	43.08	0.30	32.31	1391.72	0.48	51.69	0.31	33.38	1725.73
19	0.96	103.38	0.48	51.69	5344.19	0.50	53.85	0.60	64.62	3479.29	0.40	43.08	0.30	32.31	1391.72	0.50	53.85	0.49	52.77	2841.42
20	0.92	99.08	0.48	51.69	5121.51	0.58	62.46	0.55	59.23	3699.64	0.40	43.08	0.26	28.00	1206.15	0.49	52.77	0.30	32.31	1704.85
21	0.81	87.23	0.54	58.15	5072.80	0.66	71.08	0.53	57.08	4056.85	0.40	43.08	0.30	32.31	1391.72	0.40	43.08	0.45	48.46	2087.57
22	0.87	93.69	0.50	53.85	5044.97	0.36	38.77	0.54	58.15	2254.58	0.40	43.08	0.30	32.31	1391.72	0.48	51.69	0.40	43.08	2226.75
23	1.00	107.69	0.46	49.54	5334.91	0.72	77.54	0.46	49.54	3841.14	0.40	43.08	0.29	31.23	1345.33	0.51	54.92	0.31	33.38	1833.59
24	0.95	102.31	0.49	52.77	5398.70	0.68	73.23	0.45	48.46	3548.88	0.40	43.08	0.30	32.31	1391.72	0.40	43.08	0.50	53.85	2319.53
25	0.69	74.31	0.49	52.77	3921.16	0.48	51.69	0.50	53.85	2783.43	0.40	43.08	0.30	32.31	1391.72	0.61	65.69	0.50	53.85	3537.28
Suma		2109.69		1402.15	118125.36		1503.38		1327.85	79557.43	9.94	1070.46	7.43	800.15	34276.80		1246.00		1176.00	58795.35
Promedio		84.39		56.09	4725.01		60.14		53.11	3182.30	0.40	42.82	0.30	32.01	1371.07		49.84		47.04	2351.81
D.E. (σ)		15.03		4.26	855.64		14.68		5.55	799.27	0.02	1.71	0.02	1.66	102.26		7.82		10.90	681.93

Promedio del área de las células del haz: 4725.01 micras cuadradas 211.64 células/mm cuadrados

Promedio del área de las células del envéz: 3182.30 micras cuadradas 314.24 células/mm cuadrados

El promedio de las células del haz es 1.48 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.34 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.06 veces el promedio del ancho.

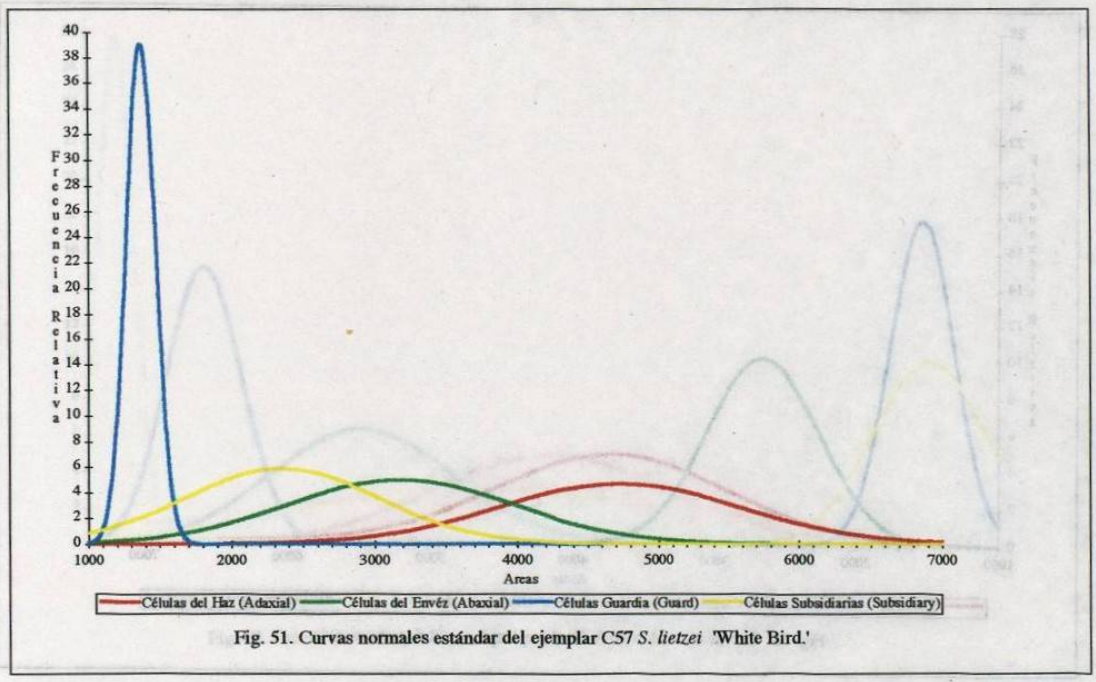

Fig. 51. Curvas normales estándar del ejemplar C57 *S. lietzei* 'White Bird.'

Cuadro 52. Datos estadísticos de C58 *S. panamensis*.

C58 *S. panamensis* (Prnál) PI#300596-14 Panamá (!)

	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo(Lh)		Ancho (Ah)		Area	Largo (Le)		Width (Wb)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (Ls)		Ancho (As)		Area
#	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²
1	0.60	64.62	0.48	51.69	3340.12	0.58	62.46	0.40	43.08	2690.65	0.45	48.46	0.35	37.69	1826.68	0.45	48.46	0.30	32.31	1565.68
2	0.90	96.92	0.55	59.23	5740.83	0.54	58.15	0.35	37.69	2191.95	0.42	45.23	0.30	32.31	1461.30	0.48	51.69	0.20	21.54	1113.37
3	0.85	91.54	0.51	54.92	5027.57	0.50	53.85	0.41	44.15	2377.51	0.42	45.23	0.35	37.69	1704.85	0.35	37.69	0.30	32.31	1217.75
4	0.51	54.92	0.48	51.69	2839.10	0.60	64.62	0.33	35.54	2296.33	0.40	43.08	0.35	37.69	1623.67	0.25	26.92	0.30	32.31	869.82
5	0.48	51.69	0.49	52.77	2727.76	0.45	48.46	0.40	43.08	2087.57	0.40	43.08	0.35	37.69	1623.67	0.40	43.08	0.35	37.69	1623.67
6	0.65	70.00	0.48	51.69	3618.46	0.74	79.69	0.30	32.31	2574.67	0.35	37.69	0.30	32.31	1217.75	0.38	40.92	0.22	23.69	969.56
7	0.68	73.23	0.50	53.85	3943.19	0.62	66.77	0.42	45.23	3020.02	0.45	48.46	0.32	34.46	1670.06	0.35	37.69	0.20	21.54	811.83
8	0.63	67.85	0.50	53.85	3653.25	0.63	67.85	0.40	43.08	2922.60	0.45	48.46	0.32	34.46	1670.06	0.55	59.23	0.25	26.92	1594.67
9	0.50	53.85	0.51	54.92	2957.40	0.60	64.62	0.32	34.46	2226.75	0.40	43.08	0.32	34.46	1484.50	0.40	43.08	0.30	32.31	1391.72
10	0.50	53.85	0.49	52.77	2841.42	0.60	64.62	0.40	43.08	2783.43	0.42	45.23	0.30	32.31	1461.30	0.40	43.08	0.28	30.15	1298.98
11	0.50	53.85	0.52	56.00	3015.38	0.50	53.85	0.40	43.08	2319.53	0.40	43.08	0.30	32.31	1391.72	0.50	53.85	0.35	37.69	2029.59
12	0.60	64.62	0.59	63.54	4105.56	0.69	74.31	0.43	46.31	3441.02	0.42	45.23	0.30	32.31	1461.30	0.48	51.69	0.38	40.92	2115.41
13	0.50	53.85	0.55	59.23	3189.35	0.62	66.77	0.35	37.69	2516.69	0.38	40.92	0.30	32.31	1322.13	0.58	62.46	0.32	34.46	2152.52
14	0.59	63.54	0.50	53.85	3421.30	0.73	78.62	0.40	43.08	3386.51	0.42	45.23	0.32	34.46	1558.72	0.52	56.00	0.22	23.69	1326.77
15	0.61	65.69	0.51	54.92	3608.02	0.62	66.77	0.40	43.08	2876.21	0.40	43.08	0.28	30.15	1298.93	0.58	62.46	0.32	34.46	2152.52
16	0.50	53.85	0.54	58.15	3131.36	0.56	60.31	0.40	43.08	2597.87	0.45	48.46	0.38	40.92	1983.19	0.35	37.69	0.25	26.92	1014.79
17	0.55	59.23	0.50	53.85	3189.35	0.52	56.00	0.42	45.23	2532.92	0.52	56.00	0.35	37.69	2110.77	0.45	48.46	0.30	32.31	1565.68
18	0.55	59.23	0.55	59.23	3508.28	0.46	49.54	0.43	46.31	2294.01	0.40	43.08	0.32	34.46	1484.50	0.45	48.46	0.28	30.15	1461.30
19	0.49	52.77	0.65	70.00	3693.85	0.50	53.85	0.42	45.23	2435.50	0.42	45.23	0.28	30.15	1363.88	0.35	37.69	0.28	30.15	1136.57
20	0.52	56.00	0.64	68.92	3859.69	0.64	68.92	0.40	43.08	2968.99	0.40	43.08	0.32	34.46	1484.50	0.42	45.23	0.30	32.31	1461.30
21	0.55	59.23	0.65	70.00	4146.15	0.62	66.77	0.38	40.92	2732.40	0.42	45.23	0.30	32.31	1461.30	0.45	48.46	0.23	24.77	1200.35
22	0.47	50.62	0.52	56.00	2834.46	0.58	62.46	0.50	53.85	3363.31	0.38	40.92	0.28	30.15	1233.99	0.58	62.46	0.28	30.15	1883.46
23	0.65	70.00	0.70	75.38	5276.92	0.63	67.85	0.40	43.08	2922.60	0.40	43.08	0.30	32.31	1391.72	0.48	51.69	0.28	30.15	1558.72
24	0.65	70.00	0.63	67.85	4749.23	0.60	64.62	0.40	43.08	2783.43	0.40	43.08	0.30	32.31	1391.72	0.52	56.00	0.30	32.31	1809.23
25	0.71	76.46	0.57	61.38	4693.56	0.40	43.08	0.45	48.46	2087.57	0.50	53.85	0.32	34.46	1855.62	0.48	51.69	0.32	34.46	1781.40
Suma		1587.38		1465.69	93111.58		1564.77		1067.23	66430.07	10.47	1127.54	7.91	851.85	38537.77		1206.15		765.69	37106.62
Promedio		63.50		58.63	3724.46		62.59		42.69	2657.20	0.42	45.10	0.32	34.07	1541.51		48.25		30.63	1484.26
D.E. (σ)		11.88		6.84	822.46		8.94		4.50	392.69	0.04	3.91	0.03	2.80	224.85		9.06		4.97	397.20

Promedio del área de las células del haz: 3724.46 micras cuadradas 268.50 células/mm cuadrados

Promedio del área de las células del envéz: 2657.20 micras cuadradas 376.34 células/mm cuadrados

El promedio de las células del haz es 1.40 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.32 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.58 veces el promedio del ancho.

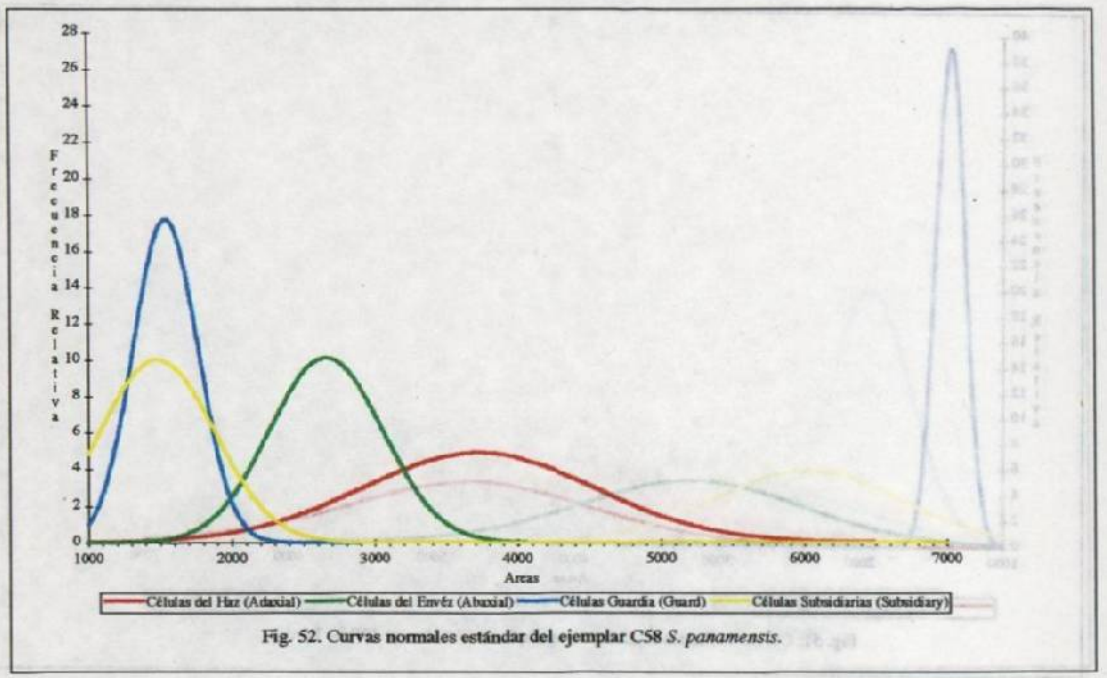

Fig. 52. Curvas normales estándar del ejemplar C58 *S. panamensis*.

Cuadro 53. Datos estadísticos de C59 *S. tigrina* 'Glory of Mexico.'

C59 *S. tigrina* 'Glory of Mexico' (Méx!) PI#300596-15 Colombia y todos los países al norte incl. México (I)

	Células del Haz (Adaxial Cells)					Células del Envés (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (Ls)		Ancho (As)		Area
#	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²
1	0.68	73.23	0.64	68.92	5047.29	0.45	48.46	0.50	53.85	2609.47	0.49	52.77	0.30	32.31	1704.85	0.69	74.31	0.80	86.15	6401.89
2	0.62	66.77	0.54	58.15	3882.89	0.52	56.00	0.50	53.85	3015.38	0.42	45.23	0.22	23.69	1071.62	0.50	53.85	0.48	51.69	2783.43
3	0.50	53.85	0.55	59.23	3189.35	0.55	59.23	0.50	53.85	3189.35	0.45	48.46	0.34	36.62	1774.44	0.50	53.85	0.39	42.00	2261.54
4	0.60	64.62	0.50	53.85	3479.29	0.59	63.54	0.45	48.46	3079.17	0.50	53.85	0.31	33.38	1797.63	0.60	64.62	0.64	68.92	4453.49
5	1.06	114.15	0.52	56.00	6392.61	0.52	56.00	0.50	53.85	3015.38	0.48	51.69	0.32	34.46	1781.40	0.60	64.62	0.40	43.08	2783.43
6	0.55	59.23	0.52	56.00	3316.92	0.41	44.15	0.40	43.08	1902.01	0.50	53.85	0.42	45.23	2435.50	0.55	59.23	0.40	43.08	2551.48
7	0.50	53.85	0.54	58.15	3131.36	0.40	43.08	0.50	53.85	2319.53	0.50	53.85	0.32	34.46	1855.62	0.66	71.08	0.60	64.62	4592.66
8	0.55	59.23	0.49	52.77	3125.56	0.69	74.31	0.60	64.62	4801.42	0.45	48.46	0.30	32.31	1565.68	0.58	62.46	0.49	52.77	3296.05
9	0.59	63.54	0.55	59.23	3763.43	0.50	53.85	0.50	53.85	2899.41	0.46	49.54	0.32	34.46	1707.17	0.41	44.15	0.62	66.77	2948.12
10	0.60	64.62	0.55	59.23	3827.22	0.55	59.23	0.52	56.00	3316.92	0.49	52.77	0.35	37.69	1988.99	0.55	59.23	0.60	64.62	3827.22
11	0.59	63.54	0.60	64.62	4105.56	0.41	44.15	0.49	52.77	2329.96	0.49	52.77	0.30	32.31	1704.85	0.80	86.15	0.60	64.62	5566.86
12	0.70	75.38	0.55	59.23	4465.09	0.46	49.54	0.50	53.85	2667.46	0.48	51.69	0.30	32.31	1670.06	0.86	92.62	0.60	64.62	5984.38
13	0.69	74.31	0.60	64.62	4801.42	0.49	52.77	0.42	45.23	2386.79	0.49	52.77	0.31	33.38	1761.68	0.70	75.38	0.40	43.08	3247.34
14	0.69	74.31	0.64	68.92	5121.51	0.70	75.38	0.50	53.85	4059.17	0.45	48.46	0.35	37.69	1826.63	0.60	64.62	0.40	43.08	2783.43
15	0.75	80.77	0.50	53.85	4349.11	0.60	64.62	0.42	45.23	2922.60	0.48	51.69	0.38	40.92	2115.41	0.49	52.77	0.40	43.08	2273.14
16	0.80	86.15	0.50	53.85	4639.05	0.41	44.15	0.46	49.54	2187.31	0.49	52.77	0.32	34.46	1818.51	0.66	71.08	0.49	52.77	3750.67
17	0.75	80.77	0.59	63.54	5131.95	0.50	53.85	0.50	53.85	2899.41	0.52	56.00	0.32	34.46	1929.85	0.66	71.08	0.41	44.15	3138.32
18	0.60	64.62	0.59	63.54	4105.56	0.50	53.85	0.49	52.77	2841.42	0.48	51.69	0.33	35.54	1837.06	0.60	64.62	0.61	65.69	4244.73
19	0.70	75.38	0.65	70.00	5276.92	0.46	49.54	0.40	43.08	2133.96	0.48	51.69	0.31	33.38	1725.73	0.52	56.00	0.65	70.00	3920.00
20	0.69	74.31	0.65	70.00	5201.54	0.50	53.85	0.65	70.00	3769.23	0.50	53.85	0.38	40.92	2203.55	0.65	70.00	0.50	53.85	3769.23
21	0.60	64.62	0.55	59.23	3827.22	0.51	54.92	0.50	53.85	2957.40	0.49	52.77	0.31	33.38	1761.68	1.00	107.69	0.60	64.62	6958.58
22	0.85	91.54	0.50	53.85	4928.99	0.60	64.62	0.50	53.85	3479.29	0.46	49.54	0.32	34.46	1707.17	0.60	64.62	0.45	48.46	3131.36
23	0.70	75.38	0.50	53.85	4059.17	0.45	48.46	0.45	48.46	2348.52	0.48	51.69	0.30	32.31	1670.06	0.70	75.38	0.28	30.15	2273.14
24	0.60	64.62	0.50	53.85	3479.29	0.50	53.85	0.50	53.85	2899.41	0.49	52.77	0.30	32.31	1704.85	0.70	75.38	0.40	43.08	3247.34
25	0.60	64.62	0.50	53.85	3479.29	0.50	53.85	0.50	53.85	2899.41	0.50	53.85	0.40	43.08	2319.53	0.66	71.08	0.45	48.46	3444.50
Suma		1783.38		1488.31	106127.61		1375.23		1319.23	72929.39	12.02	1294.46	8.13	875.54	45439.52		1705.85		1363.38	93632.32
Promedio		71.34		59.53	4245.10		55.01		52.77	2917.18	0.48	51.78	0.33	35.02	1817.58		68.23		54.54	3745.29
D. E. (σ)		12.97		5.70	836.57		8.51		5.82	639.82	0.02	2.35	0.04	4.29	262.96		13.45		12.85	1293.04

Promedio del área de las células del haz: 4245.10 micras cuadradas 235.57 células/mm cuadrados

Promedio del área de las células del envéz: 2917.18 micras cuadradas 342.80 células/mm cuadrados

El promedio de las células del haz es 1.46 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.48 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.25 veces el promedio del ancho.

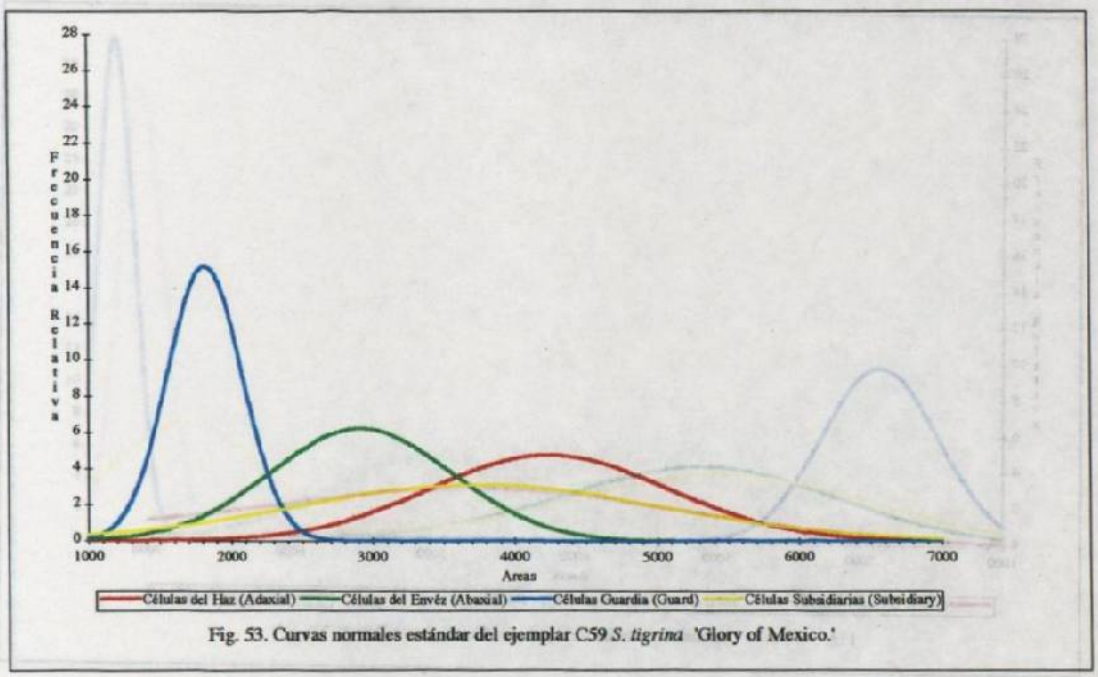

Fig. 53. Curvas normales estándar del ejemplar C59 *S. tigrina* 'Glory of Mexico.'

Cuadro 54. Datos estadísticos de C60 S. Love Potion 'No. 9.'

C60 S. Love Potion 'No. 9' PI#300996-16 (*convata* x *tigrina*) Híbrido primario hecho por hombre (Man-made primary hybrid)

	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (Ls)		Ancho (As)		Area
#	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²
1	0.70	75.38	0.62	66.77	5033.37	0.58	62.46	0.40	43.08	2690.65	0.50	53.85	0.35	37.69	2029.59	0.60	64.62	0.45	48.46	3131.36
2	0.80	86.15	0.69	74.31	6401.89	0.62	66.77	0.45	48.46	3235.74	0.50	53.85	0.40	43.08	2319.53	0.50	53.85	0.55	59.23	3189.35
3	0.82	88.31	0.70	75.38	6657.04	0.65	70.00	0.40	43.08	3015.38	0.50	53.85	0.35	37.69	2029.59	0.35	37.69	0.50	53.85	2029.59
4	0.72	77.54	0.58	62.46	4843.17	0.65	70.00	0.45	48.46	3392.31	0.40	43.08	0.40	43.08	1855.62	0.67	72.15	0.43	46.31	3341.28
5	0.76	81.85	0.54	58.15	4759.67	0.60	64.62	0.48	51.69	3340.12	0.50	53.85	0.34	36.62	1971.60	0.55	59.23	0.26	28.00	1658.46
6	0.86	92.62	0.60	64.62	5984.38	0.88	94.77	0.42	45.23	4286.48	0.50	53.85	0.28	30.15	1623.67	0.60	64.62	0.39	42.00	2713.85
7	0.90	96.92	0.50	53.85	5218.93	0.59	63.54	0.43	46.31	2942.32	0.50	53.85	0.32	34.46	1855.62	0.58	62.46	0.25	26.92	1681.66
8	0.88	94.77	0.64	68.92	6531.79	0.58	62.46	0.46	49.54	3094.25	0.42	45.23	0.32	34.46	1558.72	0.50	53.85	0.35	37.69	2029.59
9	0.95	102.31	0.70	75.38	7712.42	0.60	64.62	0.28	30.15	1948.40	0.50	53.85	0.38	40.92	2203.55	0.54	58.15	0.52	56.00	3256.61
10	0.70	75.38	0.40	43.08	3247.34	0.35	37.69	0.28	30.15	1136.57	0.50	53.85	0.38	40.92	2203.55	0.52	56.00	0.50	53.85	3015.38
11	1.10	118.46	0.52	56.00	6633.85	0.50	53.85	0.30	32.31	1739.64	0.50	53.85	0.31	33.38	1797.63	0.72	77.54	0.35	37.69	2922.60
12	0.80	86.15	0.40	43.08	3711.24	0.60	64.62	0.35	37.69	2435.50	0.50	53.85	0.25	26.92	1449.70	0.50	53.85	0.20	21.54	1159.76
13	1.00	107.69	0.42	45.23	4871.01	0.85	91.54	0.30	32.31	2957.40	0.45	48.46	0.21	22.62	1095.98	0.55	59.23	0.30	32.31	1913.61
14	0.80	86.15	0.42	45.23	3896.80	0.95	102.31	0.45	48.46	4957.99	0.40	43.08	0.35	37.69	1623.67	0.48	51.69	0.25	26.92	1391.72
15	0.60	64.62	0.40	43.08	2783.43	0.60	64.62	0.30	32.31	2087.57	0.43	46.31	0.38	40.92	1895.05	0.80	86.15	0.55	59.23	5102.96
16	0.70	75.38	0.58	62.46	4708.64	0.68	73.23	0.36	38.77	2839.10	0.45	48.46	0.30	32.31	1565.68	0.60	64.62	0.60	64.62	4175.15
17	0.59	63.54	0.58	62.46	3968.71	0.65	70.00	0.31	33.38	2336.92	0.52	56.00	0.35	37.69	2110.77	0.68	73.23	0.49	52.77	3864.33
18	0.72	77.54	0.40	43.08	3340.12	0.59	63.54	0.39	42.00	2668.62	0.35	37.69	0.30	32.31	1217.75	0.60	64.62	0.40	43.08	2783.43
19	0.46	49.54	0.45	48.46	2400.71	0.90	96.92	0.36	38.77	3757.63	0.48	51.69	0.50	53.85	2783.43	0.60	64.62	0.60	64.62	4175.15
20	0.70	75.38	0.52	56.00	4221.54	0.59	63.54	0.41	44.15	2805.47	0.32	34.46	0.30	32.31	1113.37	0.64	68.92	0.55	59.23	4082.37
21	0.82	88.31	0.48	51.69	4564.83	0.75	80.77	0.50	53.85	4349.11	0.50	53.85	0.31	33.38	1797.63	0.65	70.00	0.50	53.85	3769.23
22	0.85	91.54	0.50	53.85	4928.99	0.85	91.54	0.42	45.23	4140.35	0.48	51.69	0.31	33.38	1725.73	0.60	64.62	0.60	64.62	4175.15
23	0.72	77.54	0.52	56.00	4342.15	1.00	107.69	0.38	40.92	4407.10	0.52	56.00	0.36	38.77	2171.08	0.48	51.69	0.40	43.08	2226.75
24	0.80	86.15	0.36	38.77	3340.12	0.91	98.00	0.42	45.23	4432.61	0.52	56.00	0.40	43.08	2412.31	0.60	64.62	0.28	30.15	1948.40
25	0.66	71.08	0.25	26.92	1913.61	0.70	75.38	0.30	32.31	2435.50	0.50	53.85	0.38	40.92	2203.55	0.70	75.38	0.50	53.85	4059.17
Suma	2090.31		1375.23	116015.75		1854.46		1033.85	77432.75		11.74	1264.31	8.53	918.62	46614.36		1573.38		1159.85	73796.89
Promedio	83.61		55.01	4640.63		74.18		41.35	3097.31		0.47	50.57	0.34	36.74	1864.57		62.94		46.39	2951.88
D.E. (σ)	14.61		12.38	1443.51		16.96		7.17	950.08		0.05	5.82	0.06	6.24	407.75		10.08		13.26	1056.49

Promedio del área de las células del haz: 4640.63 micras cuadradas 215.49 células/mm cuadrados

Promedio del área de las células del envéz: 3097.31 micras cuadradas 322.86 células/mm cuadrados

El promedio de las células del haz es 1.50 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.38 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.36 veces el promedio del ancho.

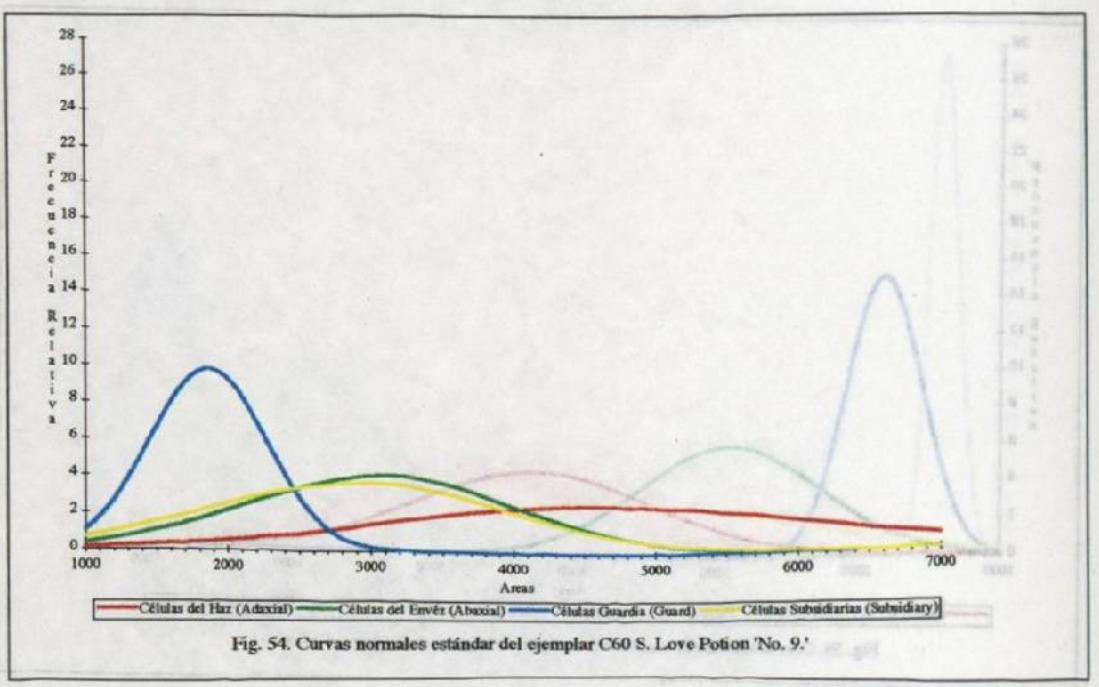

Fig. 54. Curvas normales estándar del ejemplar C60 S. Love Potion 'No. 9.'

Cuadro 55. Datos estadísticos de C61 S. Assidensis.

C61 S. Assidensis PI#091196-1 (*wardii* x *tigrina* por Goldschmidt, 1922)

	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (Ls)		Ancho (As)		Area
#	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²
1	0.70	75.38	0.40	43.08	3247.34	0.65	70.00	0.68	73.23	5126.15	0.39	42.00	0.3	32.31	1356.92	0.49	52.77	0.3	32.31	1704.85
2	0.72	77.54	0.50	53.85	4175.15	0.52	56.00	0.51	54.92	3075.69	0.39	42.00	0.3	32.31	1356.92	0.45	48.46	0.18	19.38	939.41
3	0.78	84.00	0.45	48.46	4070.77	0.62	66.77	0.45	48.46	3235.74	0.38	40.92	0.3	32.31	1322.13	0.5	53.85	0.45	48.46	2609.47
4	0.69	74.31	0.48	51.69	3841.14	0.70	75.38	0.49	52.77	3977.99	0.35	37.69	0.3	32.31	1217.75	0.5	53.85	0.31	33.38	1797.63
5	0.72	77.54	0.58	62.46	4843.17	0.68	73.23	0.42	45.23	3312.28	0.35	37.69	0.3	32.31	1217.75	0.5	53.85	0.4	43.08	2319.53
6	0.72	77.54	0.60	64.62	5010.18	0.57	61.38	0.57	61.38	3768.07	0.3	32.31	0.28	30.15	974.20	0.46	49.54	0.21	22.62	1120.33
7	0.71	76.46	0.40	43.08	3293.73	0.70	75.38	0.45	48.46	3653.25	0.32	34.46	0.3	32.31	1113.37	0.6	64.62	0.36	38.77	2505.09
8	0.97	104.46	0.48	51.69	5399.86	0.50	53.85	0.55	59.23	3189.35	0.37	39.85	0.29	31.23	1244.43	0.5	53.85	0.35	37.69	2029.59
9	0.77	82.92	0.40	43.08	3572.07	0.45	48.46	0.54	58.15	2818.22	0.31	33.38	0.31	33.38	1114.53	0.42	45.23	0.28	30.15	1363.88
10	0.72	77.54	0.50	53.85	4175.15	0.64	68.92	0.50	53.85	3711.24	0.36	38.77	0.36	38.77	1503.05	0.4	43.08	0.35	37.69	1623.67
11	0.63	67.85	0.52	56.00	3799.38	0.61	65.69	0.59	63.54	4173.99	0.35	37.69	0.29	31.23	1177.16	0.42	45.23	0.22	23.69	1071.62
12	0.80	86.15	0.56	60.31	5195.74	0.60	64.62	0.45	48.46	3131.36	0.33	35.54	0.29	31.23	1109.89	0.5	53.85	0.29	31.23	1681.66
13	0.80	86.15	0.46	49.54	4267.93	0.51	54.92	0.59	63.54	3489.73	0.31	33.38	0.3	32.31	1078.58	0.4	43.08	0.2	21.54	927.81
14	1.00	107.69	0.42	45.23	4871.01	0.52	56.00	0.59	63.54	3558.15	0.32	34.46	0.3	32.31	1113.37	0.58	62.46	0.2	21.54	1345.33
15	0.64	68.92	0.40	43.08	2968.99	0.65	70.00	0.45	48.46	3392.31	0.33	35.54	0.3	32.31	1148.17	0.32	34.46	0.26	28.00	964.92
16	0.76	81.85	0.42	45.23	3701.96	0.80	86.15	0.49	52.77	4546.27	0.31	33.38	0.3	32.31	1078.58	0.45	48.46	0.2	21.54	1043.79
17	0.75	80.77	0.51	54.92	4436.09	0.50	53.85	0.49	52.77	2841.42	0.37	39.85	0.3	32.31	1287.34	0.5	53.85	0.21	22.62	1217.75
18	0.95	102.31	0.50	53.85	5508.87	0.57	61.38	0.57	61.38	3768.07	0.31	33.38	0.31	33.38	1114.53	0.5	53.85	0.3	32.31	1739.64
19	0.70	75.38	0.50	53.85	4059.17	0.70	75.38	0.36	38.77	2922.60	0.31	33.38	0.29	31.23	1042.63	0.56	60.31	0.31	33.38	2013.35
20	0.85	91.54	0.55	59.23	5421.89	0.50	53.85	0.40	43.08	2319.53	0.31	33.38	0.31	33.38	1114.53	0.5	53.85	0.28	30.15	1623.67
21	0.62	66.77	0.52	56.00	3739.08	0.42	45.23	0.42	45.23	2045.82	0.37	39.85	0.3	32.31	1287.34	0.55	59.23	0.3	32.31	1913.61
22	0.82	88.31	0.58	62.46	5515.83	0.50	53.85	0.41	44.15	2377.51	0.32	34.46	0.3	32.31	1113.37	0.55	59.23	0.3	32.31	1913.61
23	0.85	91.54	0.45	48.46	4436.09	0.49	52.77	0.58	62.46	3296.05	0.35	37.69	0.3	32.31	1217.75	0.5	53.85	0.49	52.77	2841.42
24	0.67	72.15	0.52	56.00	4040.61	0.70	75.38	0.61	65.69	4952.19	0.35	37.69	0.31	33.38	1258.34	0.5	53.85	0.28	30.15	1623.67
25	0.60	64.62	0.53	57.08	3688.05	0.54	58.15	0.45	48.46	2818.22	0.39	42.00	0.31	33.38	1402.15	0.5	53.85	0.32	34.46	1855.62
Suma		2039.69		1317.08	107279.25		1576.62		1358.00	85501.22	8.55	920.77	7.55	813.08	29964.80		1308.46		791.54	41790.91
Promedio		81.59		52.68	4291.17		63.06		54.32	3420.05	0.34	36.83	0.30	32.52	1198.59		52.34		31.66	1671.64
D.E. (σ)		11.36		6.54	750.30		10.35		8.57	753.37	0.03	3.19	0.01	1.52	125.73		6.67		8.42	533.89

Promedio del área de las células del haz: 4291.17 micras cuadradas 233.04 células/mm cuadrados

Promedio del área de las células del envéz: 3420.05 micras cuadradas 292.39 células/mm cuadrados

El promedio de las células del haz es 1.25 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.13 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.65 veces el promedio del ancho.

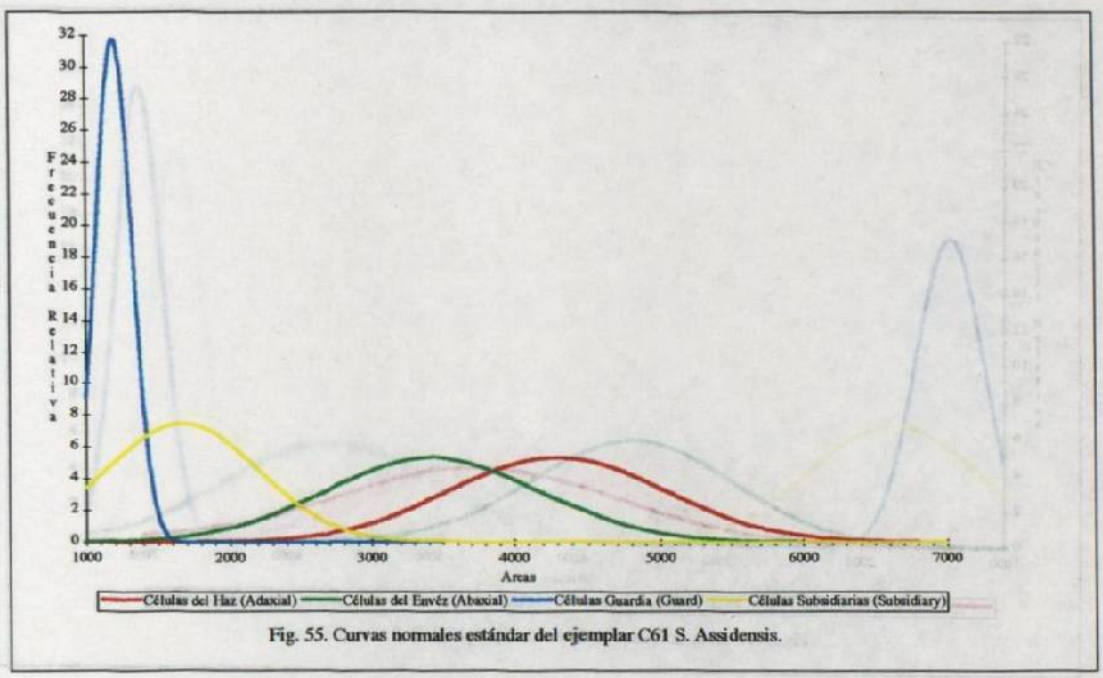

Fig. 55. Curvas normales estándar del ejemplar C61 S. Assidensis.

Cuadro 56. Datos estadísticos de C62 *S. tigrina*.

C62 *S. wardii* Pl#091196-2 Colombia, Venezuela, y todos los países al norte incl. Guatemala, pero no en México

	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (La)		Ancho (As)		Area
#	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²
1	0.82	88.31	0.65	70.00	6181.54	0.62	66.77	0.48	51.69	3451.46	0.40	43.08	0.30	32.31	1391.72	0.40	43.08	0.52	56.00	2412.31
2	0.80	86.15	0.51	54.92	4731.83	0.80	86.15	0.59	63.54	5474.08	0.41	44.15	0.38	40.92	1806.91	0.40	43.08	0.38	40.92	1762.84
3	0.82	88.31	0.50	53.85	4755.03	0.70	75.38	0.50	53.85	4059.17	0.40	43.08	0.35	37.69	1623.67	0.41	44.15	0.38	40.92	1806.91
4	0.62	66.77	0.52	56.00	3739.08	0.70	75.38	0.52	56.00	4221.54	0.39	42.00	0.26	28.00	1176.00	0.48	51.69	0.42	45.23	2338.08
5	0.80	86.15	0.61	65.69	5659.64	0.56	60.31	0.46	49.54	2987.55	0.40	43.08	0.30	32.31	1391.72	0.49	52.77	0.39	42.00	2216.31
6	0.61	65.69	0.71	76.46	5022.93	0.50	53.85	0.55	59.23	3189.35	0.35	37.69	0.24	25.85	974.20	0.47	50.62	0.52	56.00	2834.46
7	0.48	51.69	0.48	51.69	2672.09	0.61	65.69	0.59	63.54	4173.99	0.40	43.08	0.31	33.38	1438.11	0.42	45.23	0.42	45.23	2045.82
8	0.65	70.00	0.50	53.85	3769.23	0.55	59.23	0.50	53.85	3189.35	0.38	40.92	0.31	33.38	1366.20	0.49	52.77	0.56	60.31	3182.39
9	0.72	77.54	0.65	70.00	5427.69	0.50	53.85	0.49	52.77	2841.42	0.37	39.85	0.30	32.31	1287.34	0.49	52.77	0.50	53.85	2841.42
10	0.82	88.31	0.72	77.54	6847.24	0.70	75.38	0.50	53.85	4059.17	0.41	44.15	0.40	43.08	1902.01	0.41	44.15	0.32	34.46	1521.61
11	0.70	75.38	0.62	66.77	5033.37	0.70	75.38	0.41	44.15	3328.52	0.42	45.23	0.40	43.08	1948.40	0.48	51.69	0.22	23.69	1224.71
12	0.70	75.38	0.68	73.23	5520.47	0.59	63.54	0.39	42.00	2668.62	0.40	43.08	0.34	36.62	1577.28	0.46	49.54	0.28	30.15	1493.77
13	0.60	64.62	0.70	75.38	4871.01	0.69	74.31	0.49	52.77	3921.16	0.35	37.69	0.34	36.62	1380.12	0.44	47.38	0.29	31.23	1479.86
14	0.80	86.15	0.53	57.08	4917.40	0.66	71.08	0.42	45.23	3214.86	0.39	42.00	0.28	30.15	1266.46	0.38	40.92	0.29	31.23	1278.06
15	0.62	66.77	0.52	56.00	3739.08	0.40	43.08	0.53	57.08	2458.70	0.35	37.69	0.33	35.54	1339.53	0.43	46.31	0.32	34.46	1595.83
16	0.74	79.69	0.50	53.85	4291.12	0.60	64.62	0.46	49.54	3200.95	0.36	38.77	0.30	32.31	1252.54	0.41	44.15	0.29	31.23	1378.96
17	0.61	65.69	0.60	64.62	4244.73	0.72	77.54	0.55	59.23	4592.66	0.32	34.46	0.29	31.23	1076.26	0.45	48.46	0.26	28.00	1356.92
18	0.60	64.62	0.68	73.23	4731.83	0.74	79.69	0.50	53.85	4291.12	0.36	38.77	0.31	33.38	1294.30	0.48	51.69	0.31	33.38	1725.73
19	0.50	53.85	0.49	52.77	2841.42	0.57	61.38	0.53	57.08	3503.64	0.41	44.15	0.30	32.31	1426.51	0.45	48.46	0.39	42.00	2035.38
20	0.51	54.92	0.60	64.62	3548.88	0.75	80.77	0.45	48.46	3914.20	0.40	43.08	0.25	26.92	1159.76	0.50	53.85	0.28	30.15	1623.67
21	0.62	66.77	0.59	63.54	4242.41	0.60	64.62	0.58	62.46	4035.98	0.32	34.46	0.35	37.69	1298.93	0.49	52.77	0.29	31.23	1648.02
22	0.70	75.38	0.64	68.92	5195.74	0.61	65.69	0.50	53.85	3537.28	0.40	43.08	0.30	32.31	1391.72	0.38	40.92	0.32	34.46	1410.27
23	0.79	85.08	0.60	64.62	5497.28	0.51	54.92	0.43	46.31	2543.36	0.36	38.77	0.31	33.38	1294.30	0.30	32.31	0.21	22.62	730.65
24	0.65	70.00	0.55	59.23	4146.15	0.59	63.54	0.46	49.54	3147.60	0.40	43.08	0.29	31.23	1345.33	0.40	43.08	0.20	21.54	927.81
25	0.69	74.31	0.60	64.62	4801.42	0.62	66.77	0.50	53.85	3595.27	0.36	38.77	0.29	31.23	1210.79	0.41	44.15	0.31	33.38	1474.06
Suma		1827.54		1588.46	116428.62		1678.92		1333.23	89600.98		1024.15		843.23	34620.09		1176.00		933.69	44345.86
Promedio		73.10		63.54	4657.14		67.16		53.33	3584.04		40.97		33.73	1384.80		47.04		37.35	1773.83
D.E. (σ)		11.15		8.19	969.70		10.04		5.76	698.03		3.05		4.39	234.45		5.17		10.68	595.75

Promedio del área de las células del haz: 4657.14 micras cuadradas 214.72 células/mm cuadrados

Promedio del área de las células del envéz: 3584.04 micras cuadradas 279.01 células/mm cuadrados

El promedio de las células del haz es 1.30 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.21 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.26 veces el promedio del ancho.

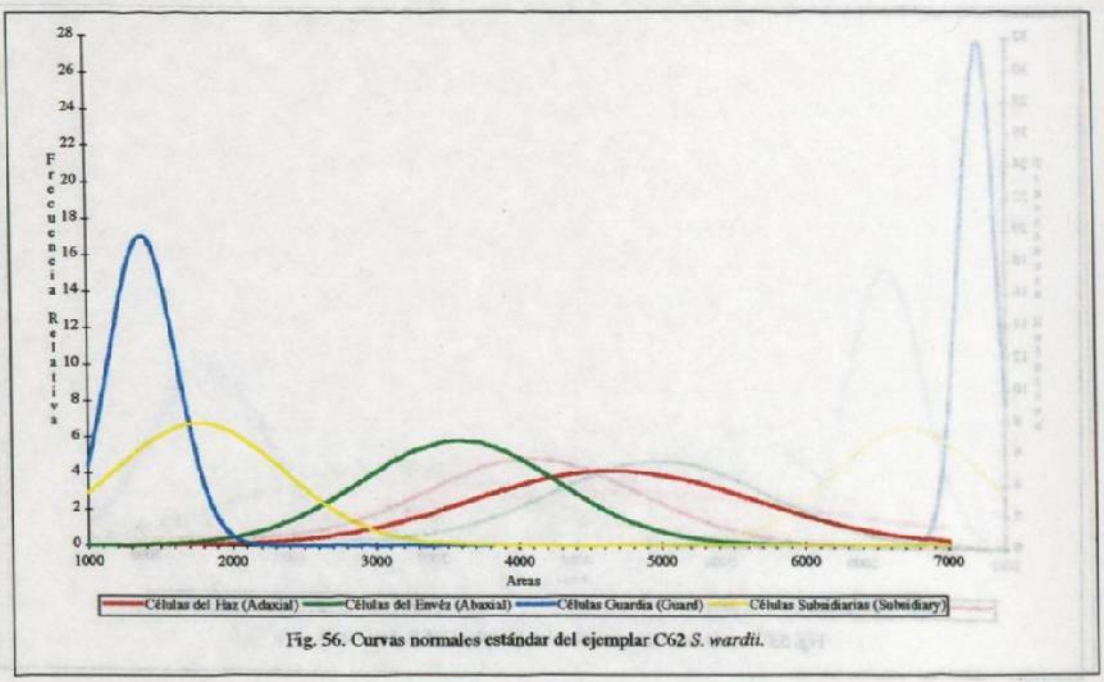

Fig. 56. Curvas normales estándar del ejemplar C62 *S. wardii*.

Cuadro 57. Datos estadísticos de C63 S. Penelope.

C63 S. Penelope PI#091196-3 (*ocalata* x *ecornuta* por Hey, 1968)

#	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (Ls)		Ancho (As)		Area
	Indice	μ_{Lh}	Indice	μ_{Ah}	μ_{Ahe}	Indice	μ_{Le}	Indice	μ_{Ae}	μ_{Aha}	Indice	μ_{Lg}	Indice	μ_{Ag}	μ_{Ahg}	Indice	μ_{Ls}	Indice	μ_{As}	μ_{Ahs}
1	0.80	86.15	0.55	59.23	5102.96	0.70	75.38	0.42	45.23	3409.70	0.40	43.08	0.29	31.23	1345.33	0.61	65.69	0.40	43.08	2829.82
2	0.68	73.23	0.38	40.92	2996.83	0.75	80.77	0.40	43.08	3479.29	0.40	43.08	0.30	32.31	1391.72	0.50	53.85	0.30	32.31	1739.64
3	0.94	101.23	0.45	48.46	4905.80	0.69	74.31	0.42	45.23	3360.99	0.40	43.08	0.30	32.31	1391.72	0.50	53.85	0.27	29.08	1565.68
4	0.84	90.46	0.45	48.46	4383.90	0.71	76.46	0.48	51.69	3952.47	0.40	43.08	0.30	32.31	1391.72	0.52	56.00	0.20	21.54	1206.15
5	0.70	75.38	0.42	45.23	3409.70	0.44	47.38	0.44	47.38	2245.30	0.48	51.69	0.29	31.23	1614.39	0.50	53.85	0.36	38.77	2087.57
6	0.61	65.69	0.40	43.08	2829.82	0.46	49.54	0.50	53.85	2667.46	0.38	40.92	0.29	31.23	1278.06	0.50	53.85	0.25	26.92	1449.70
7	1.00	107.69	0.48	51.69	5566.86	0.50	53.85	0.59	63.54	3421.30	0.40	43.08	0.33	35.54	1530.89	0.46	49.54	0.41	44.15	2187.31
8	0.65	70.00	0.54	58.15	4070.77	0.70	75.38	0.54	58.15	4383.90	0.35	37.69	0.26	28.00	1055.38	0.48	51.69	0.42	45.23	2338.08
9	0.73	78.62	0.40	43.08	3386.51	0.45	48.46	0.35	37.69	1826.63	0.40	43.08	0.30	32.31	1391.72	0.50	53.85	0.25	26.92	1449.70
10	0.60	64.62	0.55	59.23	3827.22	0.51	54.92	0.39	42.00	2306.77	0.40	43.08	0.29	31.23	1345.33	0.39	42.00	0.21	22.62	949.85
11	1.08	116.31	0.41	44.15	5135.43	0.48	51.69	0.35	37.69	1948.40	0.40	43.08	0.32	34.46	1484.50	0.41	44.15	0.28	30.15	1331.41
12	0.50	53.85	0.49	52.77	2841.42	0.45	48.46	0.39	42.00	2035.38	0.41	44.15	0.30	32.31	1426.51	0.48	51.69	0.45	48.46	2505.09
13	0.63	67.85	0.40	43.08	2922.60	0.50	53.85	0.35	37.69	2029.59	0.40	43.08	0.32	34.46	1484.50	0.42	45.23	0.38	40.92	1850.98
14	0.70	75.38	0.58	62.46	4708.64	0.58	62.46	0.35	37.69	2354.32	0.40	43.08	0.29	31.23	1345.33	0.40	43.08	0.32	34.46	1484.50
15	0.72	77.54	0.50	53.85	4175.15	0.60	64.62	0.40	43.08	2783.43	0.40	43.08	0.30	32.31	1391.72	0.42	45.23	0.32	34.46	1558.72
16	0.90	96.92	0.50	53.85	5218.93	0.59	63.54	0.48	51.69	3284.45	0.40	43.08	0.30	32.31	1391.72	0.50	53.85	0.27	29.08	1565.68
17	0.82	88.31	0.50	53.85	4755.08	0.59	63.54	0.46	49.54	3147.60	0.40	43.08	0.28	30.15	1298.93	0.49	52.77	0.28	30.15	1591.20
18	0.63	67.85	0.53	57.08	3872.45	0.63	67.85	0.40	43.08	2922.60	0.44	47.38	0.25	26.92	1275.74	0.39	42.00	0.22	23.69	995.08
19	0.78	84.00	0.36	38.77	3256.61	0.59	63.54	0.38	40.92	2600.19	0.40	43.08	0.29	31.23	1345.33	0.52	56.00	0.30	32.31	1809.23
20	0.63	67.85	0.49	52.77	3580.19	0.64	68.92	0.43	46.31	3191.67	0.43	46.31	0.30	32.31	1496.09	0.50	53.85	0.30	32.31	1739.64
21	0.70	75.38	0.45	48.46	3653.25	0.45	48.46	0.30	32.31	1565.68	0.46	49.54	0.23	24.77	1227.03	0.54	58.15	0.53	57.08	3319.24
22	0.60	64.62	0.46	49.54	3200.95	0.45	48.46	0.36	38.77	1878.82	0.39	42.00	0.25	26.92	1130.77	0.50	53.85	0.32	34.46	1855.62
23	0.60	64.62	0.50	53.85	3479.29	0.50	53.85	0.29	31.23	1681.66	0.40	43.08	0.23	24.77	1066.98	0.42	45.23	0.26	28.00	1266.46
24	0.90	96.92	0.45	48.46	4697.04	0.56	60.31	0.45	48.46	2922.60	0.50	53.85	0.30	32.31	1739.64	0.40	43.08	0.26	28.00	1206.15
25	0.70	75.38	0.40	43.08	3247.34	0.59	63.54	0.35	37.69	2394.91	0.44	47.38	0.31	33.38	1581.92	0.40	43.08	0.28	30.15	1298.93
Suma		1985.85		1253.54	99224.70		1519.54		1106.00	67795.11	10.28	1107.08	7.22	777.54	34422.93		1265.38		844.31	43181.46
Promedio		79.43		50.14	3968.99		60.78		44.24	2711.80	0.41	44.28	0.29	31.10	1376.92		50.62		33.77	1727.26
D.E. (σ)		15.29		6.41	840.61		10.40		7.67	740.51	0.03	3.41	0.03	2.79	159.09		6.06		8.63	564.83

Promedio del área de las células del haz: 3968.99 micras cuadradas 251.95 células/mm cuadrados

Promedio del área de las células del envéz: 2711.80 micras cuadradas 368.76 células/mm cuadrados

El promedio de las células del haz es 1.46 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.42 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.50 veces el promedio del ancho.

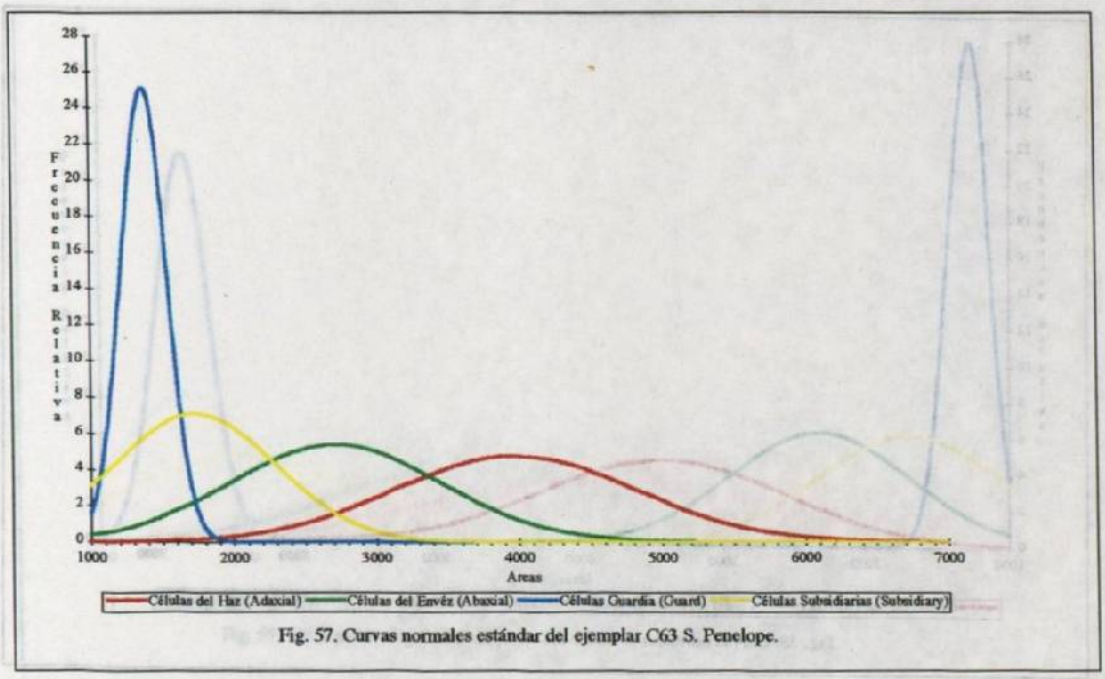

Fig. 57. Curvas normales estándar del ejemplar C63 S. Penelope.

Cuadro 58. Datos estadísticos de C64 *S. graveolens*.

C64 *S. graveolens* PI#091196-4 Honduras y todos los países al norte incl. México

	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (Ls)		Ancho (As)		Area
#	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²
1	0.78	84.00	0.49	52.77	4432.61	0.45	48.46	0.36	38.77	1878.82	0.40	43.08	0.31	33.38	1438.11	0.41	44.15	0.20	21.54	951.01
2	0.96	103.38	0.48	51.69	5344.19	0.57	61.38	0.45	48.46	2974.79	0.38	40.92	0.31	33.38	1366.20	0.50	53.85	0.25	26.92	1449.70
3	0.78	84.00	0.45	48.46	4070.77	0.55	59.23	0.45	48.46	2870.41	0.38	40.92	0.28	30.15	1233.99	0.48	51.69	0.35	37.69	1948.40
4	0.65	70.00	0.49	52.77	3693.85	0.40	43.08	0.36	38.77	1670.06	0.39	42.00	0.30	32.31	1356.92	0.48	51.69	0.28	30.15	1558.72
5	0.60	64.62	0.58	62.46	4035.98	0.40	43.08	0.30	32.31	1391.72	0.38	40.92	0.30	32.31	1322.13	0.40	43.08	0.20	21.54	927.81
6	0.53	57.08	0.40	43.08	2458.70	0.45	48.46	0.30	32.31	1565.68	0.35	37.69	0.30	32.31	1217.75	0.42	45.23	0.20	21.54	974.20
7	0.59	63.54	0.45	48.46	3079.17	0.70	75.38	0.28	30.15	2273.14	0.38	40.92	0.32	34.46	1410.27	0.45	48.46	0.35	37.69	1826.63
8	0.70	75.38	0.48	51.69	3896.80	0.55	59.23	0.40	43.08	2551.48	0.38	40.92	0.30	32.31	1322.13	0.40	43.08	0.35	37.69	1623.67
9	0.65	70.00	0.52	56.00	3920.00	0.57	61.38	0.40	43.08	2644.26	0.36	38.77	0.28	30.15	1169.04	0.56	60.31	0.49	52.77	3182.39
10	0.57	61.38	0.31	33.38	2049.30	0.48	51.69	0.30	32.31	1670.06	0.40	43.08	0.31	33.38	1438.11	0.50	53.85	0.42	45.23	2435.50
11	0.69	74.31	0.30	32.31	2400.71	0.40	43.08	0.40	43.08	1855.62	0.39	42.00	0.30	32.31	1356.92	0.50	53.85	0.29	31.23	1681.66
12	0.62	66.77	0.40	43.08	2876.21	0.60	64.62	0.29	31.23	2017.99	0.33	35.54	0.29	31.23	1109.89	0.50	53.85	0.30	32.31	1739.64
13	0.79	85.08	0.52	56.00	4764.31	0.55	59.23	0.35	37.69	2232.54	0.38	40.92	0.30	32.31	1322.13	0.66	71.08	0.40	43.08	3061.77
14	0.84	90.46	0.52	56.00	5065.85	0.55	59.23	0.30	32.31	1913.61	0.39	42.00	0.32	34.46	1447.38	0.40	43.08	0.32	34.46	1484.50
15	0.76	81.85	0.38	40.92	3349.40	0.65	70.00	0.35	37.69	2638.46	0.40	43.08	0.29	31.23	1345.33	0.54	58.15	0.49	52.77	3068.73
16	0.80	86.15	0.36	38.77	3340.12	0.60	64.62	0.40	43.08	2783.43	0.40	43.08	0.30	32.31	1391.72	0.49	52.77	0.39	42.00	2216.31
17	0.58	62.46	0.40	43.08	2690.65	0.60	64.62	0.23	24.77	1600.47	0.30	32.31	0.25	26.92	869.82	0.45	48.46	0.27	29.08	1409.11
18	0.77	82.92	0.30	32.31	2679.05	0.75	80.77	0.26	28.00	2261.54	0.38	40.92	0.25	26.92	1101.77	0.50	53.85	0.20	21.54	1159.76
19	0.68	73.23	0.42	45.23	3312.28	0.62	66.77	0.39	42.00	2804.31	0.40	43.08	0.30	32.31	1391.72	0.60	64.62	0.20	21.54	1391.72
20	0.77	82.92	0.36	38.77	3214.86	0.60	64.62	0.42	45.23	2922.60	0.38	40.92	0.26	28.00	1145.85	0.42	45.23	0.30	32.31	1461.30
21	0.64	68.92	0.41	44.15	3043.22	0.60	64.62	0.38	40.92	2644.26	0.34	36.62	0.28	30.15	1104.09	0.45	48.46	0.23	24.77	1200.35
22	0.71	76.46	0.39	42.00	3211.38	0.53	57.08	0.40	43.08	2458.70	0.38	40.92	0.28	30.15	1233.99	0.55	59.23	0.21	22.62	1339.53
23	0.70	75.38	0.32	34.46	2597.87	0.44	47.38	0.32	34.46	1632.95	0.36	38.77	0.30	32.31	1252.54	0.50	53.85	0.20	21.54	1159.76
24	0.61	65.69	0.40	43.08	2829.82	0.76	81.85	0.30	32.31	2644.26	0.42	45.23	0.30	32.31	1461.30	0.50	53.85	0.21	22.62	1217.75
25	0.66	71.08	0.40	43.08	3061.77	0.63	67.85	0.58	62.46	4237.77	0.40	43.08	0.30	32.31	1391.72	0.42	45.23	0.38	40.92	1850.98
Suma		1877.08		1134.00	85418.88		1507.69		966.00	58138.93		1017.69		789.38	32200.82		1300.92		805.54	42320.92
Promedio		75.08		45.36	3416.76		60.31		38.64	2325.56		40.71		31.58	1288.03		52.04		32.22	1692.84
D.E. (σ)		10.74		8.14	849.92		10.85		8.09	634.30		2.82		2.01	143.12		7.02		9.93	648.25

Promedio del área de las células del haz: 3416.76 micras cuadradas 292.68 células/mm cuadrados

Promedio del área de las células del envéz: 2325.56 micras cuadradas 430.00 células/mm cuadrados

El promedio de las células del haz es 1.47 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.29 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.61 veces el promedio del ancho.

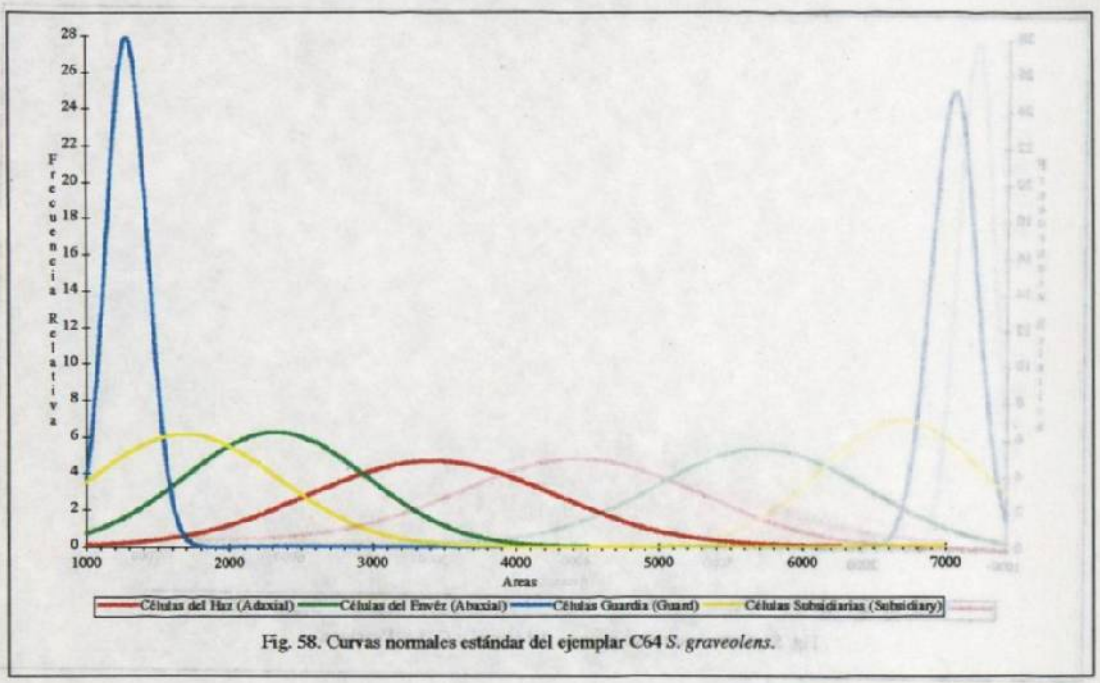

Fig. 58. Curvas normales estándar del ejemplar C64 *S. graveolens*.

Cuadro 59. Datos estadísticos de C66 *S. eburnea*.

C66 *S. eburnea* (= *grandiflora*) PI#091196-5 Brasil, Trinidad, Las Guyanas, Colombia, Perú, Venezuela

	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (Ls)		Ancho (As)		Area
#	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²
1	0.78	84.00	0.43	46.31	3889.85	0.76	81.85	0.54	58.15	4759.67	0.36	38.77	0.32	34.46	1336.05	0.51	54.92	0.25	26.92	1478.70
2	0.62	66.77	0.43	46.31	3091.93	0.69	74.31	0.50	53.85	4001.18	0.44	47.38	0.37	39.85	1888.09	0.37	39.85	0.24	25.85	1029.87
3	0.80	86.15	0.48	51.69	4453.49	0.60	64.62	0.54	58.15	3757.63	0.40	43.08	0.32	34.46	1484.50	0.52	56.00	0.22	23.69	1326.77
4	1.36	146.46	0.40	43.08	6309.11	0.60	64.62	0.49	52.77	3409.70	0.44	47.38	0.39	42.00	1990.15	0.39	42.00	0.26	28.00	1176.00
5	1.40	150.77	0.40	43.08	6494.67	0.82	88.31	0.45	48.46	4279.53	0.41	44.15	0.36	38.77	1711.81	0.48	51.69	0.30	32.31	1670.06
6	0.90	96.92	0.43	46.31	4488.28	0.48	51.69	0.50	53.85	2783.43	0.41	44.15	0.36	38.77	1711.81	0.50	53.85	0.29	31.23	1681.66
7	0.88	94.77	0.48	51.69	4898.84	0.60	64.62	0.60	64.62	4175.15	0.42	45.23	0.36	38.77	1753.56	0.50	53.85	0.43	46.31	2493.49
8	0.94	101.23	0.40	43.08	4360.71	0.76	81.85	0.56	60.31	4935.95	0.41	44.15	0.35	37.69	1664.26	0.60	64.62	0.32	34.46	2226.75
9	0.75	80.77	0.40	43.08	3479.29	0.46	49.54	0.50	53.85	2667.46	0.39	42.00	0.33	35.54	1492.62	0.50	53.85	0.29	31.23	1681.66
10	0.70	75.38	0.50	53.85	4059.17	0.60	64.62	0.54	58.15	3757.63	0.40	43.08	0.32	34.46	1484.50	0.40	43.08	0.30	32.31	1391.72
11	0.90	96.92	0.51	54.92	5323.31	0.90	96.92	0.54	58.15	5636.45	0.40	43.08	0.39	42.00	1809.23	0.60	64.62	0.39	42.00	2713.85
12	1.12	120.62	0.48	51.69	6234.89	0.67	72.15	0.52	56.00	4040.61	0.45	48.46	0.36	38.77	1878.82	0.49	52.77	0.28	30.15	1591.20
13	0.86	92.62	0.50	53.85	4986.98	0.67	72.15	0.40	43.08	3108.17	0.40	43.08	0.31	33.38	1438.11	0.49	52.77	0.36	38.77	2045.82
14	1.00	107.69	0.45	48.46	5218.93	0.43	46.31	0.51	54.92	2543.36	0.41	44.15	0.32	34.46	1521.61	0.59	63.54	0.30	32.31	2052.78
15	1.00	107.69	0.45	48.46	5218.93	0.60	64.62	0.53	57.08	3688.05	0.40	43.08	0.35	37.69	1623.67	0.42	45.23	0.29	31.23	1412.59
16	0.90	96.92	0.45	48.46	4697.04	0.78	84.00	0.50	53.85	4523.08	0.40	43.08	0.35	37.69	1623.67	0.51	54.92	0.30	32.31	1774.44
17	0.83	89.38	0.50	53.85	4813.02	0.78	84.00	0.49	52.77	4432.61	0.40	43.08	0.32	34.46	1484.50	0.45	48.46	0.30	32.31	1565.68
18	0.53	57.08	0.50	53.85	3073.37	0.49	52.77	0.42	45.23	2386.79	0.40	43.08	0.32	34.46	1484.50	0.45	48.46	0.39	42.00	2035.38
19	0.80	86.15	0.44	47.38	4082.37	0.68	73.23	0.32	34.46	2523.64	0.40	43.08	0.32	34.46	1484.50	0.50	53.85	0.28	30.15	1623.67
20	0.79	85.08	0.43	46.31	3939.72	0.77	82.92	0.49	52.77	4375.79	0.40	43.08	0.30	32.31	1391.72	0.50	53.85	0.28	30.15	1623.67
21	0.54	58.15	0.40	43.08	2505.09	0.52	56.00	0.49	52.77	2955.08	0.40	43.08	0.32	34.46	1484.50	0.51	54.92	0.30	32.31	1774.44
22	0.70	75.38	0.49	52.77	3977.99	0.47	50.62	0.49	52.77	2670.93	0.42	45.23	0.33	35.54	1607.43	0.66	71.08	0.59	63.54	4516.12
23	0.57	61.38	0.48	51.69	3173.11	0.47	50.62	0.44	47.38	2398.39	0.40	43.08	0.32	34.46	1484.50	0.58	62.46	0.32	34.46	2152.52
24	0.57	61.38	0.48	51.69	3173.11	0.80	86.15	0.50	53.85	4639.05	0.33	35.75	0.31	33.38	1193.63	0.50	53.85	0.56	60.31	3247.34
25	0.92	99.08	0.55	59.23	5868.40	0.64	68.92	0.39	42.00	2894.77	0.40	43.08	0.32	34.46	1484.50	0.59	63.54	0.60	64.62	4105.56
Suma		2278.77		1234.15	111811.61		1727.38		1319.23	91344.11		1086.83		906.77	39512.20		1358.00		908.92	50891.71
Promedio		91.15		49.37	4472.46		69.10		52.77	3653.76		43.47		36.27	1580.49		54.32		36.36	2035.67
D.E. (σ)		23.87		4.51	1085.31		14.27		6.46	922.36		2.50		2.71	185.96		7.60		11.20	848.05

Promedio del área de las células del haz: 4472.46 micras cuadradas 223.59 células/mm cuadrados

Promedio del área de las células del envéz: 3653.76 micras cuadradas 273.69 células/mm cuadrados

El promedio de las células del haz es 1.22 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.20 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.49 veces el promedio del ancho.

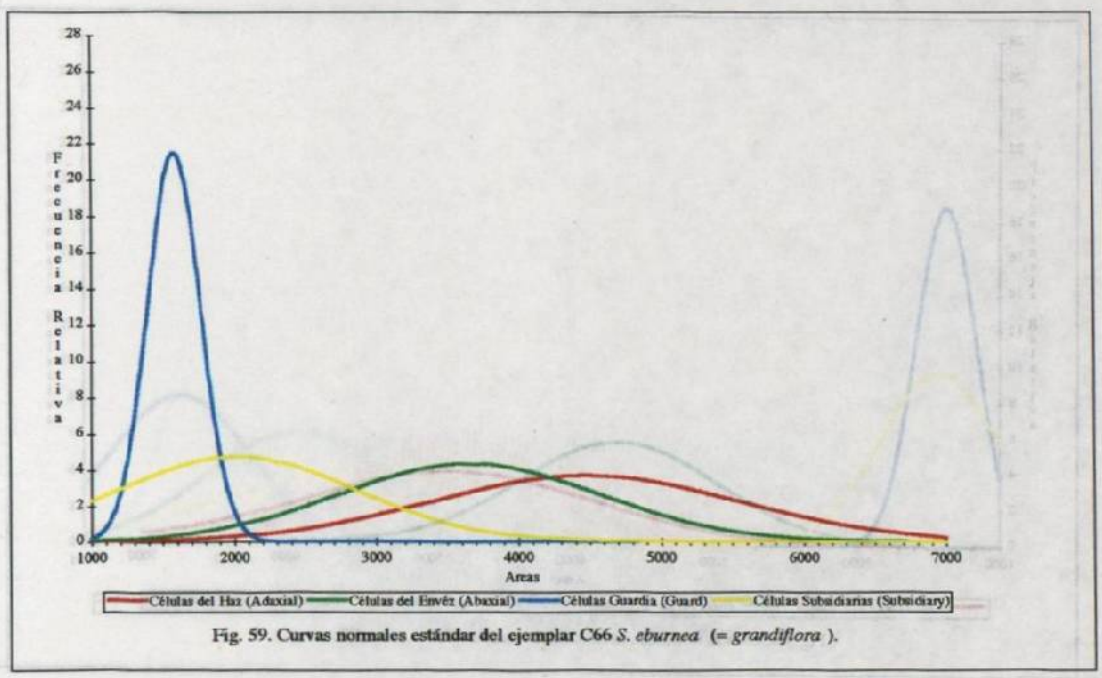

Fig. 59. Curvas normales estándar del ejemplar C66 *S. eburnea* (= *grandiflora*).

Cuadro 60. Datos estadísticos de C67 *S. grandiflora*.

C67 *S. grandiflora* PI#091196-6 Brasil, Trinidad, Las Guyanas, Colombia, Perú, Venezuela

	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (Ls)		Ancho (As)		Area
#	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²
1	0.68	73.23	0.59	63.54	4652.97	0.87	93.69	0.50	53.85	5044.97	0.42	45.23	0.31	33.38	1510.01	0.38	40.92	0.29	31.23	1278.06
2	0.61	65.69	0.50	53.85	3537.28	0.60	64.62	0.51	54.92	3548.88	0.42	45.23	0.31	33.38	1510.01	0.40	43.08	0.29	31.23	1345.33
3	0.61	65.69	0.52	56.00	3678.77	0.60	64.62	0.50	53.85	3479.29	0.40	43.08	0.30	32.31	1391.72	0.37	39.85	0.28	30.15	1201.51
4	0.75	80.77	0.54	58.15	4697.04	0.54	58.15	0.56	60.31	3507.12	0.33	35.54	0.29	31.23	1109.89	0.42	45.23	0.23	24.77	1120.33
5	0.80	86.15	0.50	53.85	4639.05	0.54	58.15	0.57	61.38	3569.75	0.35	37.69	0.30	32.31	1217.75	0.50	53.85	0.38	40.92	2203.55
6	0.90	96.92	0.50	53.85	5218.93	0.43	46.31	0.70	75.38	3490.89	0.30	32.31	0.29	31.23	1008.99	0.39	42.00	0.30	32.31	1356.92
7	0.65	70.00	0.58	62.46	4372.31	0.48	51.69	0.62	66.77	3451.46	0.32	34.46	0.29	31.23	1076.26	0.49	52.77	0.30	32.31	1704.85
8	0.74	79.69	0.58	62.46	4977.70	0.65	70.00	0.64	68.92	4824.61	0.41	44.15	0.31	33.38	1474.06	0.55	59.23	0.37	39.85	2360.12
9	0.81	87.23	0.60	64.62	5636.45	0.50	53.85	0.62	66.77	3595.27	0.40	43.08	0.30	32.31	1391.72	0.65	70.00	0.31	33.38	2336.92
10	0.60	64.62	0.61	65.69	4244.73	0.52	56.00	0.52	56.00	3136.00	0.36	38.77	0.34	36.62	1419.55	0.35	37.69	0.42	45.23	1704.85
11	0.60	64.62	0.53	57.08	3688.05	0.62	66.77	0.62	66.77	4458.13	0.40	43.08	0.34	36.62	1577.28	0.40	43.08	0.32	34.46	1484.50
12	0.74	79.69	0.51	54.92	4376.95	0.60	64.62	0.50	53.85	3479.29	0.37	39.85	0.30	32.31	1287.34	0.42	45.23	0.20	21.54	974.20
13	1.00	107.69	0.58	62.46	6726.63	0.68	73.23	0.60	64.62	4731.83	0.40	43.08	0.30	32.31	1391.72	0.39	42.00	0.21	22.62	949.85
14	0.50	53.85	0.50	53.85	2899.41	0.50	53.85	0.50	53.85	2899.41	0.42	45.23	0.31	33.38	1510.01	0.38	40.92	0.30	32.31	1322.13
15	0.85	91.54	0.59	63.54	5816.21	0.57	61.38	0.55	59.23	3635.86	0.40	43.08	0.31	33.38	1438.11	0.50	53.85	0.32	34.46	1855.62
16	0.85	91.54	0.62	66.77	6111.95	0.41	44.15	0.55	59.23	2615.27	0.40	43.08	0.30	32.31	1391.72	0.48	51.69	0.21	22.62	1169.04
17	0.90	96.92	0.51	54.92	5323.31	0.41	44.15	0.55	59.23	2615.27	0.40	43.08	0.31	33.38	1438.11	0.42	45.23	0.20	21.54	974.20
18	0.85	91.54	0.52	56.00	5126.15	0.49	52.77	0.50	53.85	2841.42	0.40	43.08	0.44	47.38	2041.18	0.40	43.08	0.28	30.15	1298.93
19	0.82	88.31	0.49	52.77	4659.93	0.46	49.54	0.68	73.23	3627.74	0.40	43.08	0.35	37.69	1623.67	0.41	44.15	0.28	30.15	1331.41
20	0.66	71.08	0.50	53.85	3827.22	0.46	49.54	0.68	73.23	3627.74	0.37	39.85	0.31	33.38	1330.25	0.39	42.00	0.31	33.38	1402.15
21	0.80	86.15	0.49	52.77	4546.27	0.40	43.08	0.69	74.31	3200.95	0.40	43.08	0.31	33.38	1438.11	0.49	52.77	0.30	32.31	1704.85
22	1.03	110.92	0.59	63.54	7047.88	0.60	64.62	0.55	59.23	3827.22	0.37	39.85	0.29	31.23	1244.43	0.43	46.31	0.19	20.46	947.53
23	0.87	93.69	0.50	53.85	5044.97	0.65	70.00	0.50	53.85	3769.23	0.32	34.46	0.29	31.23	1076.26	0.44	47.38	0.20	21.54	1020.59
24	0.71	76.46	0.50	53.85	4117.16	0.73	78.62	0.62	66.77	5249.09	0.40	43.08	0.30	32.31	1391.72	0.40	43.08	0.32	34.46	1484.50
25	0.87	93.69	0.60	64.62	6053.96	0.57	61.38	0.55	59.23	3635.86	0.38	40.92	0.28	30.15	1233.99	0.40	43.08	0.26	28.00	1206.15
Suma		2067.69		1459.23	121021.28		1494.77		1548.62	91862.52		1027.38		837.85	34523.83		1168.46		761.38	35738.10
Promedio		82.71		58.37	4840.85		59.79		61.94	3674.50		41.10		33.51	1380.95		46.74		30.46	1429.52
D.E. (σ)		14.27		4.90	1006.68		11.91		7.23	698.98		3.66		3.40	212.09		7.19		6.44	412.68

Promedio del área de las células del haz: 4840.85 micras cuadradas 206.58 células/mm cuadrados

Promedio del área de las células del envéz: 3674.50 micras cuadradas 272.15 células/mm cuadrados

El promedio de las células del haz es 1.32 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.23 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.53 veces el promedio del ancho.

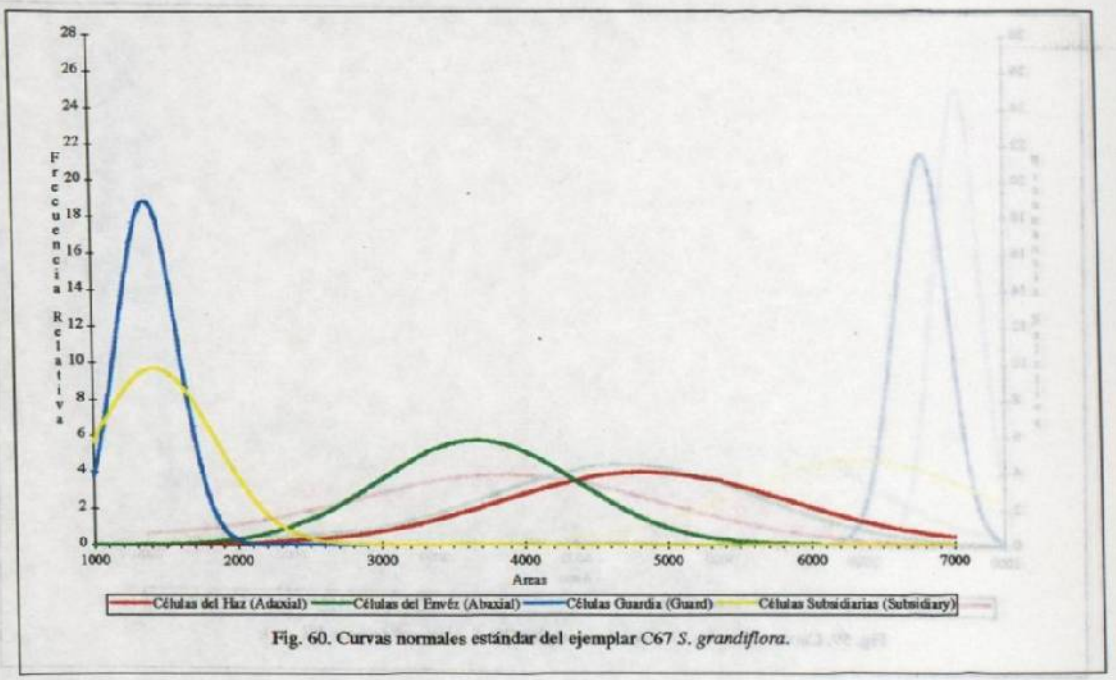

Fig. 60. Curvas normales estándar del ejemplar C67 *S. grandiflora*.

Cuadro 61. Datos estadísticos de C69 *S. radiosa*.

C69 *S. radiosa* (Méx!) Pl#190197-1 México (!)

	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (Ls)		Ancho (As)		Area
#	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²	Indice	µ	Indice	µ	µ²
1	0.79	85.08	0.42	45.23	3848.09	0.62	66.77	0.35	37.69	2516.69	0.52	56.00	0.42	45.23	2532.92	0.72	77.54	0.46	49.54	3841.14
2	0.82	88.31	0.40	43.08	3804.02	0.79	85.08	0.22	23.69	2015.67	0.52	56.00	0.40	43.08	2412.31	0.62	66.77	0.35	37.69	2516.69
3	1.00	107.69	0.45	48.46	5218.93	0.35	37.69	0.30	32.31	1217.75	0.51	54.92	0.49	52.77	2898.25	0.60	64.62	0.50	53.85	3479.29
4	0.88	94.77	0.45	48.46	4592.66	0.76	81.85	0.28	30.15	2467.98	0.50	53.85	0.49	52.77	2841.42	0.60	64.62	0.45	48.46	3131.36
5	0.69	74.31	0.40	43.08	3200.95	0.49	52.77	0.40	43.08	2273.14	0.35	37.69	0.30	32.31	1217.75	0.70	75.38	0.65	70.00	5276.92
6	0.69	74.31	0.40	43.08	3200.95	0.44	47.38	0.30	32.31	1530.89	0.46	49.54	0.40	43.08	2133.96	0.68	73.23	0.52	56.00	4100.92
7	0.65	70.00	0.40	43.08	3015.38	0.64	68.92	0.30	32.31	2226.75	0.39	42.00	0.30	32.31	1356.92	0.51	54.92	0.37	39.85	2188.47
8	0.70	75.38	0.46	49.54	3734.44	0.70	75.38	0.30	32.31	2435.50	0.39	42.00	0.29	31.23	1311.69	0.48	51.69	0.32	34.46	1781.40
9	0.68	73.23	0.42	45.23	3312.28	0.50	53.85	0.29	31.23	1681.66	0.40	43.08	0.32	34.46	1484.50	0.55	59.23	0.30	32.31	1913.61
10	0.79	85.08	0.40	43.08	3664.85	0.79	85.08	0.32	34.46	2931.88	0.36	38.77	0.36	38.77	1503.05	0.51	54.92	0.40	43.08	2365.92
11	0.70	75.38	0.50	53.85	4059.17	0.60	64.62	0.26	28.00	1809.23	0.42	45.23	0.31	33.38	1510.01	0.68	73.23	0.40	43.08	3154.56
12	0.90	96.92	0.50	53.85	5218.93	0.84	90.46	0.22	23.69	2143.24	0.43	46.31	0.30	32.31	1496.09	0.55	59.23	0.45	48.46	2870.41
13	0.82	88.31	0.45	48.46	4279.53	0.59	63.54	0.22	23.69	1505.37	0.39	42.00	0.30	32.31	1356.92	0.60	64.62	0.49	52.77	3409.70
14	0.60	64.62	0.50	53.85	3479.29	0.71	76.46	0.28	30.15	2305.61	0.42	45.23	0.28	30.15	1363.88	0.64	68.92	0.50	53.85	3711.24
15	0.59	63.54	0.42	45.23	2873.89	0.89	95.85	0.25	26.92	2580.47	0.40	43.08	0.28	30.15	1298.93	0.60	64.62	0.19	20.46	1322.13
16	0.60	64.62	0.52	56.00	3618.46	0.69	74.31	0.45	48.46	3601.06	0.40	43.08	0.32	34.46	1484.50	0.54	58.15	0.26	28.00	1628.31
17	0.60	64.62	0.40	43.08	2783.43	0.80	86.15	0.36	38.77	3340.12	0.40	43.08	0.36	38.77	1670.06	0.46	49.54	0.31	33.38	1653.82
18	0.54	58.15	0.41	44.15	2567.72	0.72	77.54	0.35	37.69	2922.60	0.40	43.08	0.30	32.31	1391.72	0.65	70.00	0.40	43.08	3015.38
19	0.60	64.62	0.45	48.46	3131.36	0.81	87.23	0.35	37.69	3287.93	0.40	43.08	0.32	34.46	1484.50	0.60	64.62	0.31	33.38	2157.16
20	0.61	65.69	0.40	43.08	2829.82	0.70	75.38	0.35	37.69	2841.42	0.40	43.08	0.30	32.31	1391.72	0.62	66.77	0.28	30.15	2013.35
21	0.91	98.00	0.30	32.31	3166.15	0.70	75.38	0.30	32.31	2435.50	0.40	43.08	0.29	31.23	1345.33	0.60	64.62	0.47	50.62	3270.53
22	0.58	62.46	0.41	44.15	2757.92	0.90	96.92	0.30	32.31	3131.36	0.40	43.08	0.31	33.38	1438.11	0.79	85.08	0.56	60.31	5130.79
23	0.65	70.00	0.50	53.85	3769.23	0.86	92.62	0.30	32.31	2992.19	0.48	51.69	0.31	33.38	1725.73	0.60	64.62	0.38	40.92	2644.26
24	0.82	88.31	0.40	43.08	3804.02	0.74	79.69	0.30	32.31	2574.67	0.44	47.38	0.32	34.46	1632.95	0.69	74.31	0.50	53.85	4001.18
25	0.80	86.15	0.40	43.08	3711.24	0.76	81.85	0.41	44.15	3613.82	0.42	45.23	0.30	32.31	1461.30	0.60	64.62	0.38	40.92	2644.26
Suma		1939.54		1158.77	89642.73		1872.77		835.69	62382.50	10.60	1141.54	8.37	901.38	41744.51		1635.85		1098.46	73222.81
Promedio		77.58		46.35	3585.71		74.91		33.43	2495.30	0.42	45.66	0.33	36.06	1669.78		65.43		43.94	2928.91
D.E. (σ)		13.39		5.22	702.10		15.15		6.22	650.91	0.05	5.14	0.06	6.46	487.39		8.33		11.37	1040.04

Promedio del área de las células del haz: 3585.71 micras cuadradas 278.88 células/mm cuadrados

Promedio del área de las células del envéz: 2495.30 micras cuadradas 400.75 células/mm cuadrados

El promedio de las células del haz es 1.44 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.27 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.49 veces el promedio del ancho.

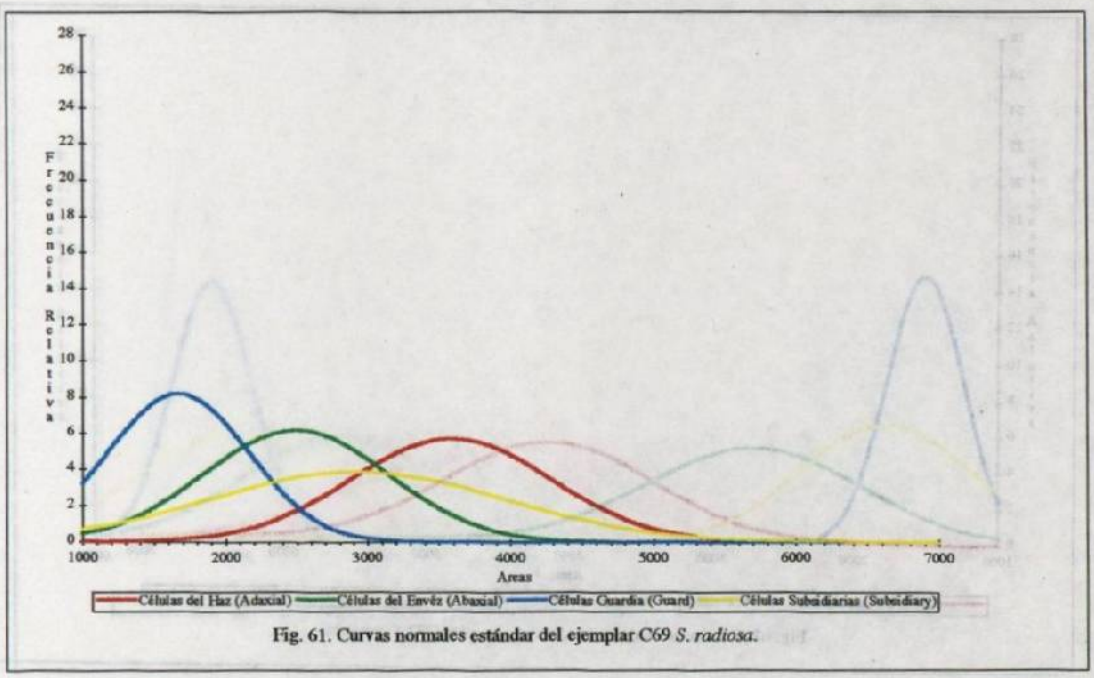

Fig. 61. Curvas normales estándar del ejemplar C69 *S. radiosa*.

Cuadro 62. Datos estadísticos de C77 *S. oculata*.

C77 *S. oculata* (Méx!) México; Chiapas (!)

	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (Ls)		Ancho (As)		Area
#	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²	Indice	µm	Indice	µm	µm²
1	0.75	80.77	0.56	60.31	4871.01	0.70	75.38	0.40	43.08	3247.34	0.39	42.00	0.33	35.54	1492.62	0.42	45.23	0.23	24.77	1120.33
2	0.70	75.38	0.50	53.85	4059.17	0.42	45.23	0.38	40.92	1850.98	0.40	43.08	0.32	34.46	1484.50	0.51	54.92	0.39	42.00	2306.77
3	0.64	68.92	0.47	50.62	3488.57	0.55	59.23	0.40	43.08	2551.48	0.40	43.08	0.33	35.54	1530.89	0.39	42.00	0.20	21.54	904.62
4	0.72	77.54	0.50	53.85	4175.15	0.50	53.85	0.40	43.08	2319.53	0.50	53.85	0.39	42.00	2261.54	0.40	43.08	0.39	42.00	1809.23
5	0.60	64.62	0.40	43.08	2783.43	0.55	59.23	0.42	45.23	2679.05	0.40	43.08	0.34	36.62	1577.28	0.39	42.00	0.28	30.15	1266.46
6	0.60	64.62	0.52	56.00	3618.46	0.43	46.31	0.40	43.08	1994.79	0.39	42.00	0.30	32.31	1356.92	0.30	32.31	0.30	32.31	1043.79
7	0.76	81.85	0.40	43.08	3525.68	0.40	43.08	0.40	43.08	1855.62	0.40	43.08	0.35	37.69	1623.67	0.48	51.69	0.40	43.08	2226.75
8	0.94	101.23	0.48	51.69	5232.85	0.44	47.38	0.43	46.31	2194.27	0.38	40.92	0.30	32.31	1322.13	0.52	56.00	0.40	43.08	2412.31
9	0.78	84.00	0.50	53.85	4523.08	0.41	44.15	0.40	43.08	1902.01	0.47	50.62	0.31	33.38	1689.77	0.40	43.08	0.30	32.31	1391.72
10	0.65	70.00	0.50	53.85	3769.23	0.45	48.46	0.35	37.69	1826.63	0.39	42.00	0.30	32.31	1356.92	0.46	49.54	0.28	30.15	1493.77
11	0.65	70.00	0.50	53.85	3769.23	0.44	47.38	0.43	46.31	2194.27	0.39	42.00	0.29	31.23	1311.69	0.51	54.92	0.40	43.08	2365.92
12	0.80	86.15	0.53	57.08	4917.40	0.41	44.15	0.40	43.08	1902.01	0.40	43.08	0.35	37.69	1623.67	0.40	43.08	0.30	32.31	1391.72
13	0.88	94.77	0.49	52.77	5000.90	0.42	45.23	0.32	34.46	1558.72	0.42	45.23	0.27	29.08	1315.17	0.50	53.85	0.24	25.85	1391.72
14	0.78	84.00	0.45	48.46	4070.77	0.62	66.77	0.45	48.46	3235.74	0.41	44.15	0.35	37.69	1664.26	0.57	61.38	0.30	32.31	1983.19
15	0.69	74.31	0.52	56.00	4161.23	0.64	68.92	0.48	51.69	3562.79	0.41	44.15	0.36	38.77	1711.81	0.58	62.46	0.48	51.69	3228.78
16	0.65	70.00	0.60	64.62	4523.08	0.58	62.46	0.44	47.38	2959.72	0.42	45.23	0.36	38.77	1753.56	0.50	53.85	0.40	43.08	2319.53
17	0.78	84.00	0.50	53.85	4523.08	0.60	64.62	0.48	51.69	3340.12	0.42	45.23	0.35	37.69	1704.85	0.46	49.54	0.42	45.23	2240.66
18	0.80	86.15	0.40	43.08	3711.24	0.48	51.69	0.46	49.54	2560.76	0.40	43.08	0.36	38.77	1670.06	0.45	48.46	0.36	38.77	1878.82
19	0.70	75.38	0.59	63.54	4789.82	0.54	58.15	0.45	48.46	2818.22	0.38	40.92	0.30	32.31	1322.13	0.42	45.23	0.30	32.31	1461.30
20	0.51	54.92	0.53	57.08	3134.84	0.63	67.85	0.50	53.85	3653.25	0.34	36.62	0.26	28.00	1025.23	0.41	44.15	0.31	33.38	1474.06
21	0.90	96.92	0.48	51.69	5010.18	0.53	57.08	0.49	52.77	3011.90	0.43	46.31	0.26	28.00	1296.62	0.40	43.08	0.30	32.31	1391.72
22	0.50	53.85	0.50	53.85	2899.41	0.68	73.23	0.49	52.77	3864.33	0.43	46.31	0.39	42.00	1944.92	0.40	43.08	0.39	42.00	1809.23
23	0.93	100.15	0.50	53.85	5392.90	0.63	67.85	0.46	49.54	3360.99	0.40	43.08	0.30	32.31	1391.72	0.52	56.00	0.48	51.69	2894.77
24	0.71	76.46	0.40	43.08	3293.73	0.51	54.92	0.45	48.46	2661.66	0.38	40.92	0.28	30.15	1233.99	0.40	43.08	0.21	22.62	974.20
25	0.86	92.62	0.42	45.23	4189.06	0.75	80.77	0.52	56.00	4523.08	0.32	34.46	0.30	32.31	1113.37	0.46	49.54	0.30	32.31	1600.47
Suma		1968.62		1318.15	103433.48		1433.38		1163.08	67629.27		1084.46		866.92	37779.28		1211.54		900.31	44381.82
Promedio		78.74		52.73	4137.34		57.34		46.52	2705.17		43.38		34.68	1511.17		48.46		36.01	1775.27
D.E. (σ)		12.77		5.91	733.64		11.09		5.18	761.39		3.78		4.02	268.34		7.04		8.37	601.60

Promedio del área de las células del haz: 4137.34 micras cuadradas 241.70 células/mm cuadrados

Promedio del área de las células del envéz: 2705.17 micras cuadradas 369.66 células/mm cuadrados

El promedio de las células del haz es 1.53 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.25 veces el promedio del ancho.

El promedio de las células subsidiarias es 1.35 veces el promedio del ancho.

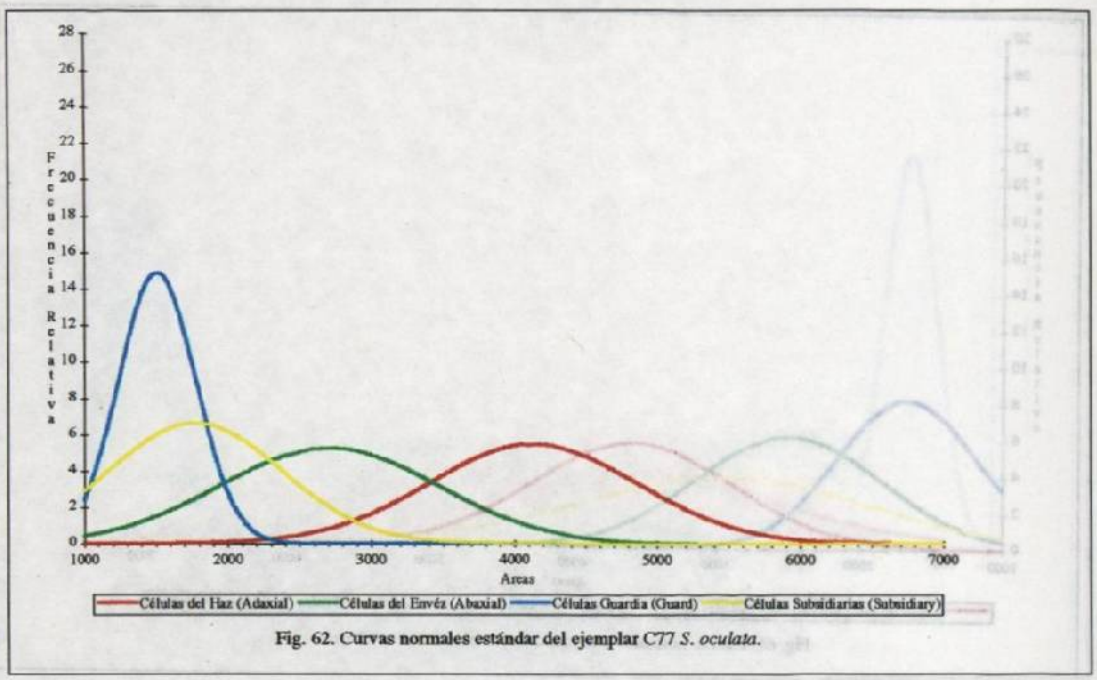

Fig. 62. Curvas normales estándar del ejemplar C77 *S. oculata*.

Cuadro 63. Datos estadísticos de C83 *S. (cf.) amoena*

C83 S. sp. ign. (cf. *amoena*) PI#290797-4 Slides: 210897; photos 290897 Fls: 1of5 open: 241097; 1of5 open: 041197

	Células del Haz (Adaxial Cells)					Células del Envéz (Abaxial Cells)					Células Guardia (Guard Cells)					Células Subsidiarias (Subsidiary Cells)				
	Largo (Lh)		Ancho (Ah)		Area	Largo (Le)		Ancho (Ae)		Area	Largo (Lg)		Ancho (Ag)		Area	Largo (Ls)		Ancho (As)		Area
#	Indice	μ_{Lh}	Indice	μ_{Ah}	μ_{Ah^2}	Indice	μ_{Le}	Indice	μ_{Ae}	μ_{Le^2}	Indice	μ_{Lg}	Indice	μ_{Ag}	μ_{Lg^2}	Indice	μ_{Ls}	Indice	μ_{As}	μ_{Ls^2}
1	0.80	86.15	0.55	59.23	5102.96	0.73	78.62	0.38	40.92	3217.18	0.40	43.08	0.35	37.69	1623.67	0.59	63.54	0.25	26.92	1710.65
2	0.56	60.31	0.55	59.23	3572.07	0.75	80.77	0.30	32.31	2609.47	0.40	43.08	0.39	42.00	1809.23	0.80	86.15	0.41	44.15	3804.02
3	0.57	61.38	0.57	61.38	3768.07	0.68	73.23	0.28	30.15	2208.19	0.36	38.77	0.32	34.46	1336.05	0.90	96.92	0.28	30.15	2922.60
4	0.57	61.38	0.50	53.85	3305.32	0.88	94.77	0.30	32.31	3061.77	0.37	39.85	0.32	34.46	1373.16	0.60	64.62	0.46	49.54	3200.95
5	0.40	43.08	0.50	53.85	2319.53	0.82	88.31	0.29	31.23	2757.92	0.40	43.08	0.32	34.46	1484.50	0.63	67.85	0.31	33.38	2265.02
6	0.71	76.46	0.50	53.85	4117.16	0.80	86.15	0.33	35.54	3061.77	0.46	49.54	0.38	40.92	2027.27	0.53	57.08	0.28	30.15	1721.09
7	0.50	53.85	0.58	62.46	3363.31	0.42	45.23	0.38	40.92	1850.98	0.45	48.46	0.37	39.85	1931.01	0.50	53.85	0.30	32.31	1739.64
8	0.49	52.77	0.49	52.77	2784.59	0.46	49.54	0.30	32.31	1600.47	0.42	45.23	0.38	40.92	1850.98	0.53	57.08	0.33	35.54	2028.43
9	0.50	53.85	0.63	67.85	3653.25	0.48	51.69	0.33	35.54	1837.06	0.46	49.54	0.35	37.69	1867.22	0.53	57.08	0.33	35.54	2028.43
10	0.75	80.77	0.45	48.46	3914.20	0.55	59.23	0.34	36.62	2168.76	0.41	44.15	0.31	33.38	1474.06	0.55	59.23	0.22	23.69	1403.31
11	0.60	64.62	0.60	64.62	4175.15	0.82	88.31	0.40	43.08	3804.02	0.46	49.54	0.31	33.38	1653.82	0.64	68.92	0.26	28.00	1929.85
12	0.53	57.08	0.60	64.62	3688.05	0.79	85.08	0.26	28.00	2382.15	0.46	49.54	0.38	40.92	2027.27	0.68	73.23	0.25	26.92	1971.60
13	0.41	44.15	0.59	63.54	2805.47	0.32	34.46	0.41	44.15	1521.61	0.46	49.54	0.39	42.00	2080.62	0.65	70.00	0.32	34.46	2412.31
14	0.49	52.77	0.62	66.77	3523.36	0.65	70.00	0.39	42.00	2940.00	0.47	50.62	0.41	44.15	2234.86	0.65	70.00	0.32	34.46	2412.31
15	0.49	52.77	0.51	54.92	2898.25	0.70	75.38	0.40	43.08	3247.34	0.44	47.38	0.36	38.77	1837.06	0.58	62.46	0.40	43.08	2690.65
16	0.60	64.62	0.55	59.23	3827.22	0.50	53.85	0.40	43.08	2319.53	0.45	48.46	0.36	38.77	1878.82	0.56	60.31	0.20	21.54	1298.93
17	0.65	70.00	0.59	63.54	4447.69	0.92	99.08	0.40	43.08	4267.93	0.49	52.77	0.40	43.08	2273.14	0.61	65.69	0.25	26.92	1768.64
18	0.52	56.00	0.49	52.77	2955.08	0.85	91.54	0.39	42.00	3844.61	0.42	45.23	0.38	40.92	1850.98	0.60	64.62	0.20	21.54	1391.72
19	0.50	53.85	0.55	59.23	3189.35	0.70	75.38	0.37	39.85	3003.79	0.43	46.31	0.40	43.08	1994.79	0.35	37.69	0.20	21.54	811.83
20	0.49	52.77	0.35	37.69	1988.99	0.65	70.00	0.40	43.08	3015.38	0.49	52.77	0.36	38.77	2045.82	0.61	65.69	0.24	25.85	1697.89
21	0.64	68.92	0.56	60.31	4156.59	0.52	56.00	0.39	42.00	2352.00	0.49	52.77	0.35	37.69	1988.99	0.52	56.00	0.24	25.85	1447.38
22	0.40	43.08	0.59	63.54	2737.04	0.72	77.54	0.39	42.00	3256.61	0.45	48.46	0.29	31.23	1513.49	0.60	64.62	0.20	21.54	1391.72
23	0.68	73.23	0.54	58.15	4258.65	0.62	66.77	0.42	45.23	3020.02	0.40	43.08	0.33	35.54	1530.89	0.60	64.62	0.22	23.69	1530.89
24	0.80	86.15	0.42	45.23	3896.80	0.60	64.62	0.44	47.38	3061.77	0.50	53.85	0.40	43.08	2319.53	0.60	64.62	0.40	43.08	2783.43
25	0.86	92.62	0.60	64.62	5984.38	0.47	45.23	0.46	49.54	2240.66	0.40	43.08	0.35	37.69	1623.67	0.61	65.69	0.20	21.54	1414.91
Suma		1562.62		1451.69	90432.53		1760.77		985.38	68651.02		1178.15		964.92	45630.88		1617.54		761.38	49778.19
Promedio		62.50		58.07	3617.30		70.43		39.42	2746.04		47.13		38.60	1825.24		64.70		30.46	1991.13
D.E. (σ)		13.77		7.14	860.64		17.38		5.75	699.17		4.13		3.59	278.31		10.82		8.01	686.04

Promedio del área de las células del haz: 3617.30 micras cuadradas 276.45 células/mm cuadrados

Promedio del área de las células del envéz: 2746.04 micras cuadradas 364.16 células/mm cuadrados

El promedio de las células del haz es 1.32 veces el promedio de las células del envéz.

El promedio de las células guardia es 1.22 veces el promedio del ancho.

El promedio de las células subsidiarias es 2.12 veces el promedio del ancho.

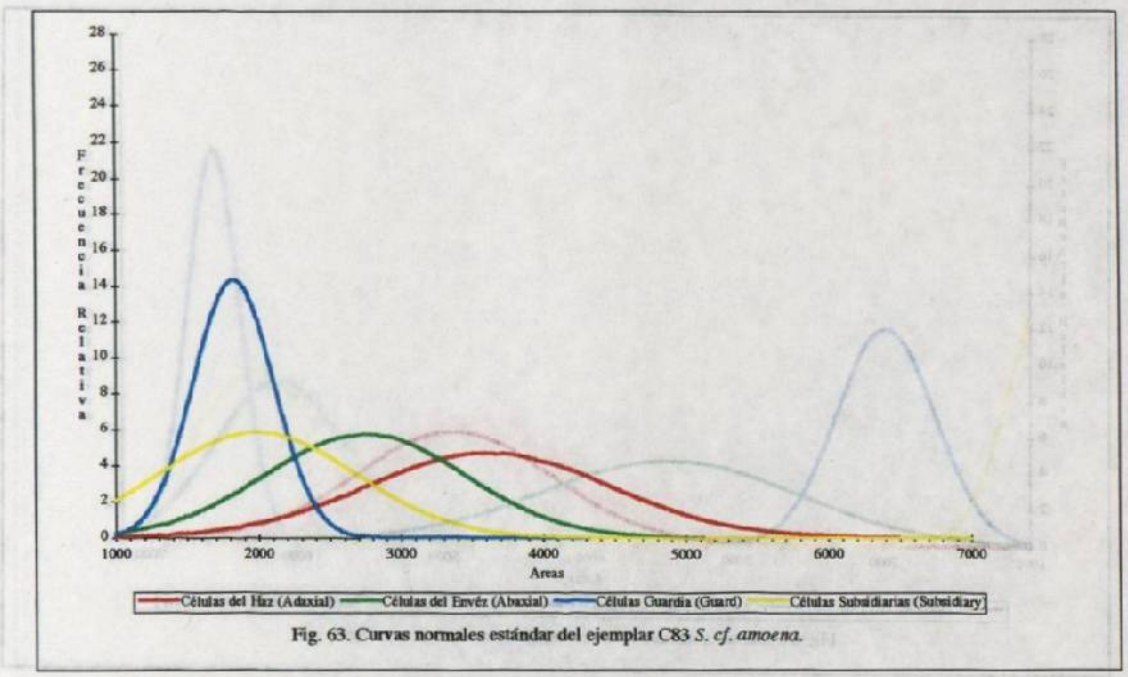

Fig. 63. Curvas normales estándar del ejemplar C83 *S. cf. amoena.*