

Supplementary Materials

The critical period for grain yield in chia (*Salvia hispanica*)

Josefina Diez^A, Juan Anuch Tiranti^{A,B}, Víctor O. Sadras^{C,D} and Martin M. Acreche^{A,B,E}

^AEEA Salta, Instituto Nacional de Tecnología Agropecuaria, Ruta Nacional 68, km 172, 4403 Salta, Argentina.

^BCONICET, Salta, Argentina.

^CSouth Australian Research and Development Institute, Waite Campus, Urrbrae, SA 5064, Australia.

^DSchool of Agriculture, Food and Wine, The University of Adelaide, Urrbrae, SA 5064, Australia.

^ECorresponding author. Email: acreche.martin@inta.gob.ar

Supplementary Table S1. Means ± standard error of grain yield (GY), total dry biomass (TDB), thousand grain weight (TGW), grain number (GN), number of verticillasters (NV), verticillaster dry weight (VDW), grains per verticillaster (GV) and harvest index (HI) for all treatments of chia grown in four growing seasons in Salta, Argentina. For treatments description see Fig. 1.

Treatments	GY (kg ha ⁻¹)	TDB (kg ha ⁻¹)	TGW (g)	GN (ha ⁻¹ × 10 ⁶)	NV (ha ⁻¹ × 10 ³)	VDW (kg ha ⁻¹)	GV	HI (%)
<i>Growing season 2015</i>								
Unshaded control	2148±212	11797±472	1.13±0.01	1891±181	9952±748	4154±254	190.0±10.0	18.4±2.4
T3	1228±343	6054±1274	1.21±0.02	1019±287	7503±1122	2623±573	129.3±22.9	19.5±2.0
T4	1325±203	7378±374	1.15±0.01	1154±177	7644±383	2858±288	151.3±21.9	18.2±3.2
T6	1578±545	7843±2062	1.16±0.01	1367±484	7686±1645	3266±961	166.3±28.5	19.3±2.3
T7	1958±286	8881±343	1.15±0.01	1707±256	8722±579	3798±423	191.0±14.4	21.9±2.3
T8	1764±129	9813±901	1.15±0.01	1531±126	9481±1021	3644±219	167.3±27.7	18.1±1.5
T9	1722±357	8349±952	1.19±0.01	1447±298	8151±1729	3358±585	179.0±7.6	20.3±2.6
<i>Growing season 2016</i>								
Unshaded control	1418±110	6139±767	1.35±0.02	1056±82	6015±537	2132±316	177.3±13.4	23.6±1.8
T3	898±95	5687±385	1.36±0.02	661±65	5605±656	2154±177	119.0±5.0	16.2±2.3
T4	1034±109	7102±931	1.39±0.02	744±76	6113±736	2639±275	124.0±12.4	15.6±3.0
T6	1294±166	6605±710	1.37±0.01	946±127	7132±888	2185±96	132.3±5.6	19.7±2.1
T7	1146±62	5278±409	1.37±0.02	839±34	5527±561	2026±264	155.0±11.3	22.0±1.4
T8	1040±118	5242±632	1.29±0.05	802±66	4724±484	1927±113	172.0±12.2	21.4±5.0
T9	917±47	6650±1179	1.32±0.02	697±30	4726±622	2456±295	152.0±12.2	15.5±3.2
<i>Growing season 2017</i>								
Unshaded control	1790±97	9049±494	1.26±0.02	1415±58	5725±265	3656±279	249.0±20.2	20.0±2.1
T2	1181±211	5063±902	1.21±0.02	975±161	4071±715	1972±369	240.0±3.6	23.3±0.5
T3	1251±204	5161±717	1.28±0.06	994±195	3747±773	2116±329	267.0±5.1	24.1±1.0
T4	1049±109	4449±308	1.20±0.02	875±82	3629±337	1738±166	241.0±7.9	23.5±1.1
T9	1242±155	5438±461	1.22±0.02	1017±109	4377±652	1971±255	235.3±9.3	22.7±1.5
T11	1566±76	6687±467	1.22±0.02	1287±64	5213±300	2524±139	247.7±12.2	23.5±0.5
T12	1444±44	6620±355	1.21±0.02	1197±22	4883±509	2456±114	249.3±20.9	21.9±0.8
<i>Growing season 2018</i>								
Unshaded control	1909±194	7495±896	1.14±0.01	1676±158	6678±938	3497±359	254.0±12.2	25.6±0.5
T1	1780±233	6571±1274	1.09±0.04	1658±262	5305±663	3205±519	311.0±32.6	28.0±2.3
T5	1706±205	5641±615	1.11±0.04	1536±188	5176±806	2931±311	300.0±18.9	30.2±0.7
T10	1052±121	6648±1171	1.14±0.01	929±116	7069±1312	2929±476	137.3±18.3	16.5±2.2
T13	1399±153	6102±680	1.13±0.01	1236±135	5523±592	2752±260	223.7±2.0	23.0±1.0
T14	1926±113	6674±640	1.07±0.02	1794±120	5696±606	3296±260	316.7±15.3	29.2±2.5