REMO POINT

ODS

Red de Ensayos de Maíz del Oeste

Informe final

Siembra 2021 Cosecha 2022

01. Híbridos

ACA SEMILLAS

- 19MZ227VT3Pro — Temprana, Tardía
- ACA 476 VT3Pro — Temprana, Tardía

CONTACTO COMERCIAL

Argenetics

- ARG 7715 BTRRCL — Temprana, Tardía
- ARG 7718 — Temprana, Tardía

CONTACTO COMERCIAL

BREVANT

- BRV 8380 PWU — Temprana, Tardía
- BRV 8421 PWU — Temprana, Tardía
- BRV 8472 PWU — Temprana, Tardía
- NEXT 22.6 PWU — Temprana, Tardía

CONTACTO COMERCIAL

EBC BAYÁ CASAL

- EBC TIGRE VT3P — Temprana, Tardía
- EBC MARIA RR — Temprana
- EBC EXP2022 — Tardía

CONTACTO COMERCIAL

LG

- SRM 6620 VT3P — Temprana, Tardía
- LG 30870 MGRR — Temprana
- LGX 161 VT3P — Tardía

CONTACTO COMERCIAL

NIDERA

- NS 7621 VIPTERA3 — Temprana
- NS 7921 VIPTERA3 CL — Temprana, Tardía
- NS 7818 VIPTERA3 — Tardía

CONTACTO COMERCIAL

nord SEMILLAS

- ACRUX PWU — Temprana, Tardía
- BORAX PWU — Temprana, Tardía

CONTACTO COMERCIAL

Qseeds

- QS 72-01 — Temprana

CONTACTO COMERCIAL

STINE

- ST 9910-20 VIPTERA3 — Temprana

CONTACTO COMERCIAL

ADVANTA

- ADV 8122 VT3P — Temprana

CONTACTO COMERCIAL

BASF

- BASF 7344 VT3P — Temprana, Tardía
- BASF 7349 VT3P — Temprana, Tardía

CONTACTO COMERCIAL

DEKALB

- DK 72-08 VT3P — Temprana
- DK 72-72 VT3P — Temprana
- DK 73-03 VT3P — Temprana

CONTACTO COMERCIAL

LA TIJERETA

- LT 721 VT3P — Tardía
- LT 723 VT3P — Tardía

CONTACTO COMERCIAL

NEXSEM

- NXM 1122 PWU — Temprana, Tardía

CONTACTO COMERCIAL

NK

- SYN 897 VIPTERA3 — Temprana, Tardía
- SYN 979 VIPTERA3 — Temprana
- NK 842 VIPTERA3 — Temprana, Tardía

CONTACTO COMERCIAL

PIONEER

- P2021PWUE — Temprana, Tardía
- P2167VYHR — Temprana, Tardía

CONTACTO COMERCIAL

SPS

- SPS 2743 VIP3 — Tardía

CONTACTO COMERCIAL

Tobin

- TOB 767 VIPTERA3 — Temprana

CONTACTO COMERCIAL

02. Localidades

2.1 Fechas de siembra exploradas

Trebolares	**30**SEP		**30**NOV

Partido de Maracó, Bs. As. **Campo:** Estancia Trebolares. **Productor:** Economart

Gral. Villegas	**5**OCT		**2**DIC

Partido de Gral. Villegas, Bs. As. **Campo:** La Caledonia. **Productor:** Establecimientos La Negra S.A.

América	**16**SEP	**20**OCT	**7**DIC

Partido de Rivadavia, Bs. As. **Campo:** El Retiro. **Productor:** Sucesores de Germán Álvarez

Cerrito	**21**SEP		**7**DIC

Partido de Rivadavia, Bs. As. **Campo:** Santa Ana. **Productor:** Sucesores de Germán Álvarez

30 de Agosto	**18**OCT		**15**DIC

Partido de T. Lauquen, Bs. As. **Campo:** La Travesia. **Productor:** Doña Julia S.A.

T. Lauquen	**27**SEP		**15**DIC

Partido de T. Lauquen, Bs. As. **Campo:** La Morita. **Productor:** Gustavo Vila Ase

Pellegrini	**16**OCT		**13**DIC

Partido de Pellegrini, Bs. As. **Campo:** El Triángulo. **Productor:** Agroganadera Los Medanos

03. Siembras Tempranas

3.0 Ranking de Rendimiento

Media: A B C D

Híbrido	Trebolares	30 de Agosto	Villegas	América Oct	América Sep	T. Lauquen	Cerrito	Pellegrini	Combinado
P2167VYHR	12541	13133	12695	11857	11601	12499	11645	9641	11951
BRV 8472 PWU	14742	12845	12368	11693	10733	11577	11328	9707	11874
LG 30870 MGRR	14327	12170	12438	11882	11228	10758	10900	10752	11807
NXM 1122 PWU	13278	11899	12651	11791	11680	11447	10762	10348	11732
DK 72-08 VT3P	14255	12688	11981	11069	11072	11597	10252	9890	11601
DK 72-72 VT3P	12982	12525	12072	11735	11321	11044	10860	9719	11532
NS 7621 VIPTERA3	13402	12870	12202	12043	10940	9923	11046	9494	11490
NK 842 VIPTERA3	13910	12300	12867	10671	10501	10378	11691	9596	11489
ACA 476 VT3Pro	14457	12288	12096	12253	10475	10489	10286	9266	11451
BRV 8380 PWU	13384	13143	12304	10852	10240	10773	11020	9679	11424
ADV 8122 VT3P	13671	12161	11446	11769	10492	10206	10968	10047	11345
ACRUX PWU	12477	11999	11834	10973	10908	11211	10601	10150	11269
SYN 979 VIPTERA3	14209	11037	11592	11600	11388	10938	9720	9503	11248
BRV 8421 PWU	13864	11783	11660	10939	10796	10668	10128	10096	11242
BORAX PWU	13210	12053	11798	10417	10454	11251	10509	9703	11174
EBC TIGRE VT3P	12545	12728	11901	10306	10829	10947	10580	9348	11148
ST 9910-20 VIPTERA3	13332	11984	12155	10697	10410	10384	9812	10013	11098
SYN 897 VIPTERA3	13520	11327	12615	10946	9620	11049	10232	9450	11095
TOB 767 VIPTERA3	13588	11768	12827	9975	10764	10473	10686	8662	11093
NEXT 22.6 PWU	13491	11994	11674	10798	10479	10325	10380	9127	11033
NS 7921 VIPTERA3 CL	13184	12167	11494	10497	10924	10494	9878	9287	10990
SRM 6620 VT3P	13812	11869	10820	11606	9642	9311	10888	9968	10989
EBC MARIA RR	12482	11175	11892	10045	10769	10899	10462	9163	10861
BASF 7349 VT3P	12386	12416	11010	10993	10268	9985	9376	9277	10714
BASF 7344 VT3P	12903	11899	10617	10040	11626	9454	10060	9099	10712
DK 73-03 VT3P	12435	11852	11934	10597	9915	10199	9774	8791	10687
ARG 7715 BTRRCL	11012	11243	10920	10442	10508	9599	10790	9842	10544
19MZ227VT3Pro	11247	11173	11091	9923	10738	10213	10629	8632	10456
P2021PWUE	12606	11613	10708	9973	9884	9798	9607	9343	10441
QS 72-01	12194	10868	10320	10215	9329	9796	8261	8727	9964
ARG 7718	12328	10663	9821	10445	9824	9102	9019	8087	9911
Promedio	13154	11988	11735	10937	10624	10541	10392	9497	11109
Cv	8.48	4.72	6.38	6.63	7.72	7.44	7.57	6.99	7.11
DMS 10%	1587	805	1066	1033	1143	1118	1120	945	392
p valor Genotipo	0.0005	<0,0001	<0,0001	<0,0001	0.0028	<0,0001	<0,0001	<0,0001	<0,0001
p valor GxA	NA	NA	NA	NA	NA	NA	NA	NA	<0,0001

3.1 Ranking Trebolares

Localidad	Variable	N	R²	R² Aj	CV
Trebolares	R Kg/ha	124	0.46	0.27	8.48

Cuadro de Análisis de la Varianza (SC tipo III)

F.V.	SC	gl	CM	F	p-valor
Modelo	96154067.69	33	2913759.63	2.34	0.0008
Bloque	3007726.8	3	1002575.6	0.81	0.4934
Cultivar	93146340.89	30	3104878.03	2.5	0.0005
Error	111854142	90	1242823.8		
Total	208008209.6	123			

Test:DGC Alfa=0,10 PCALT=1587,5038 | Error: 1242823,7995 gl: 90

Híbrido	Medias	Indice	Sign
BRV 8472 PWU	14742	112.1	A
ACA 476 VT3Pro	14457	109.9	A
LG 30870 MGRR	14327	108.9	A
DK 72-08 VT3P	14255	108.4	A
SYN 979 VIPTERA3	14209	108.0	A
NK 842 VIPTERA3	13910	105.7	A
BRV 8421 PWU	13864	105.4	A
SRM 6620 VT3P	13812	105.0	A
ADV 8122 VT3P	13671	103.9	A
TOB 767 VIPTERA3	13588	103.3	A
SYN 897 VIPTERA3	13520	102.8	A
NEXT 22.6 PWU	13491	102.6	A
NS 7621 VIPTERA3	13402	101.9	A
BRV 8380 PWU	13384	101.8	A
ST 9910-20 VIPTERA3	13332	101.4	A
NXM 1122 PWU	13278	100.9	A
BORAX PWU	13210	100.4	A
NS 7921 VIPTERA3 CL	13184	100.2	A
DK 72-72 VT3P	12982	98.7	A
BASF 7344 VT3P	12903	98.1	A
P2021PWUE	12606	95.8	A
EBC TIGRE VT3P	12545	95.4	A
P2167VYHR	12541	95.3	A
EBC MARIA RR	12482	94.9	A
ACRUX PWU	12477	94.9	A
DK 73-03 VT3P	12435	94.5	A
BASF 7349 VT3P	12386	94.2	A
ARG 7718	12328	93.7	A
QS 72-01	12194	92.7	A
19MZ227VT3Pro	11247	85.5	B
ARG 7715 BTRRCL	11012	83.7	B
Promedio	13154		

Medias con una letra común no son significativamente diferentes (p > 0,10)

3.2 Ranking 30 de Agosto

Localidad	Variable	N	R²	R² Aj	CV
30 de Agosto	R Kg/ha	124	0.74	0.64	4.72

Cuadro de Análisis de la Varianza (SC tipo III)

F.V.	SC	gl	CM	F	p-valor
Modelo	80375721.42	33	2435627.92	7.62	<0,0001
Bloque	30508519.55	3	10169506.52	31.82	<0,0001
Cultivar	49867201.87	30	1662240.06	5.2	<0,0001
Error	28764390.45	90	319604.34		
Total	109140111.9	123			

Test:DGC Alfa=0,10 PCALT=805,0379 | Error: 319604,3384 gl: 90

Híbrido	Medias	Indice	Sign
BRV 8380 PWU	13143	110	A
P2167VYHR	13133	110	A
NS 7621 VIPTERA3	12870	107	A
BRV 8472 PWU	12845	107	A
EBC TIGRE VT3P	12728	106	A
DK 72-08 VT3P	12688	106	A
DK 72-72 VT3P	12525	104	B
BASF 7349 VT3P	12416	104	B
NK 842 VIPTERA3	12300	103	B
ACA 476 VT3Pro	12288	102	B
LG 30870 MGRR	12170	102	B
NS 7921 VIPTERA3 CL	12167	101	B
ADV 8122 VT3P	12161	101	B
BORAX PWU	12053	101	B
ACRUX PWU	11999	100	B
NEXT 22.6 PWU	11994	100	B
ST 9910-20 VIPTERA3	11984	100	B
BASF 7344 VT3P	11899	99	B
NXM 1122 PWU	11899	99	B
SRM 6620 VT3P	11869	99	B
DK 73-03 VT3P	11852	99	B
BRV 8421 PWU	11783	98	B
TOB 767 VIPTERA3	11768	98	B
P2021PWUE	11613	97	B
SYN 897 VIPTERA3	11327	94	C
ARG 7715 BTRRCL	11243	94	C
EBC MARIA RR	11175	93	C
19MZ227VT3Pro	11173	93	C
SYN 979 VIPTERA3	11037	92	C
QS 72-01	10868	91	C
ARG 7718	10663	89	C
Promedio	11988		

Medias con una letra común no son significativamente diferentes (p > 0,10)

3.3 Ranking Gral. Villegas

Localidad	Variable	N	R²	R² Aj	CV
Gral. Villegas	R Kg/ha	124	0.59	0.44	6.38

Cuadro de Análisis de la Varianza (SC tipo III)

F.V.	SC	gl	CM	F	p-valor
Modelo	72069598	33	2183927.21	3.9	<0,0001
Bloque	1601181.29	3	533727.1	0.95	0.4185
Cultivar	70468416.71	30	2348947.22	4.19	<0,0001
Error	50399602.71	90	559995.59		
Total	122469200.7	123			

Test:DGC Alfa=0,10 PCALT=1065,6198 | Error: 559995,5857 gl: 90

Híbrido	Medias	Indice	Sign
NK 842 VIPTERA3	12867	109.6	A
TOB 767 VIPTERA3	12827	109.3	A
P2167VYHR	12695	108.2	A
NXM 1122 PWU	12651	107.8	A
SYN 897 VIPTERA3	12615	107.5	A
LG 30870 MGRR	12438	106.0	A
BRV 8472 PWU	12368	105.4	A
BRV 8380 PWU	12304	104.9	A
NS 7621 VIPTERA3	12202	104.0	A
ST 9910-20 VIPTERA3	12155	103.6	A
ACA 476 VT3Pro	12096	103.1	A
DK 72-72 VT3P	12072	102.9	A
DK 72-08 VT3P	11981	102.1	A
DK 73-03 VT3P	11934	101.7	A
EBC TIGRE VT3P	11901	101.4	A
EBC MARIA RR	11892	101.3	A
ACRUX PWU	11834	100.8	A
BORAX PWU	11798	100.5	A
NEXT 22.6 PWU	11674	99.5	A
BRV 8421 PWU	11660	99.4	A
SYN 979 VIPTERA3	11592	98.8	A
NS 7921 VIPTERA3 CL	11494	97.9	A
ADV 8122 VT3P	11446	97.5	A
19MZ227VT3Pro	11091	94.5	B
BASF 7349 VT3P	11010	93.8	B
ARG 7715 BTRRCL	10920	93.1	B
SRM 6620 VT3P	10820	92.2	B
P2021PWUE	10708	91.2	B
BASF 7344 VT3P	10617	90.5	B
QS 72-01	10320	87.9	B
ARG 7718	9821	83.7	B
Promedio	11735		

Medias con una letra común no son significativamente diferentes (p > 0,10)

3.4 Ranking América OCT

Localidad	Variable	N	R²	R² Aj	CV
América OCT	R Kg/ha	124	0.65	0.52	6.63

Cuadro de Análisis de la Varianza (SC tipo III)

F.V.	SC	gl	CM	F	p-valor
Modelo	86546554.77	33	2622622.87	4.99	<0,0001
Bloque	27126198.28	3	9042066.09	17.19	<0,0001
Cultivar	59420356.48	30	1980678.55	3.76	<0,0001
Error	47348741.97	90	526097.13		
Total	133895296.7	123			

Test:DGC Alfa=0,10 PCALT=1032,8636 | Error: 526097,1330 gl: 90

Híbrido	Medias	Indice	Sign
ACA 476 VT3Pro	12253	112.0	A
NS 7621 VIPTERA3	12043	110.1	A
LG 30870 MGRR	11882	108.6	A
P2167VYHR	11857	108.4	A
NXM 1122 PWU	11791	107.8	A
ADV 8122 VT3P	11769	107.6	A
DK 72-72 VT3P	11735	107.3	A
BRV 8472 PWU	11693	106.9	A
SRM 6620 VT3P	11606	106.1	A
SYN 979 VIPTERA3	11600	106.1	A
DK 72-08 VT3P	11069	101.2	B
BASF 7349 VT3P	10993	100.5	B
ACRUX PWU	10973	100.3	B
SYN 897 VIPTERA3	10946	100.1	B
BRV 8421 PWU	10939	100.0	B
BRV 8380 PWU	10852	99.2	B
NEXT 22.6 PWU	10798	98.7	B
ST 9910-20 VIPTERA3	10697	97.8	B
NK 842 VIPTERA3	10671	97.6	B
DK 73-03 VT3P	10597	96.9	B
NS 7921 VIPTERA3 CL	10497	96.0	B
ARG 7718	10445	95.5	B
ARG 7715 BTRRCL	10442	95.5	B
BORAX PWU	10417	95.2	B
EBC TIGRE VT3P	10306	94.2	B
QS 72-01	10215	93.4	B
EBC MARIA RR	10045	91.8	B
BASF 7344 VT3P	10040	91.8	B
TOB 767 VIPTERA3	9975	91.2	B
P2021PWUE	9973	91.2	B
19MZ227VT3Pro	9923	90.7	B
Promedio	10937		

Medias con una letra común no son significativamente diferentes (p > 0,10)

3.5 Ranking América SEP

Localidad	Variable	N	R²	R² Aj	CV
América SEP	R Kg/ha	124	0.49	0.3	7.72

Cuadro de Análisis de la Varianza (SC tipo III)

F.V.	SC	gl	CM	F	p-valor
Modelo	58082397.19	33	1760072.64	2.62	0.0002
Bloque	14507640.35	3	4835880.12	7.19	0.0002
Cultivar	43574756.84	30	1452491.89	2.16	0.0028
Error	60528814.9	90	672542.39		
Total	118611212.1	123			

Test:DGC Alfa=0,10 PCALT=1143,4517 | Error: 672542,3878 gl: 90

Híbrido	Medias	Indice	Sign
NXM 1122 PWU	11680	109.9	A
BASF 7344 VT3P	11626	109.4	A
P2167VYHR	11601	109.2	A
SYN 979 VIPTERA3	11388	107.2	A
DK 72-72 VT3P	11321	106.6	A
LG 30870 MGRR	11228	105.7	A
DK 72-08 VT3P	11072	104.2	A
NS 7621 VIPTERA3	10940	103.0	A
NS 7921 VIPTERA3 CL	10924	102.8	A
ACRUX PWU	10908	102.7	A
EBC TIGRE VT3P	10829	101.9	A
BRV 8421 PWU	10796	101.6	A
EBC MARIA RR	10769	101.4	A
TOB 767 VIPTERA3	10764	101.3	A
19MZ227VT3Pro	10738	101.1	A
BRV 8472 PWU	10733	101.0	A
ARG 7715 BTRRCL	10508	98.9	A
NK 842 VIPTERA3	10501	98.8	A
ADV 8122 VT3P	10492	98.8	A
NEXT 22.6 PWU	10479	98.6	A
ACA 476 VT3Pro	10475	98.6	A
BORAX PWU	10454	98.4	A
ST 9910-20 VIPTERA3	10410	98.0	A
BASF 7349 VT3P	10268	96.6	A
BRV 8380 PWU	10240	96.4	A
DK 73-03 VT3P	9915	93.3	B
P2021PWUE	9884	93.0	B
ARG 7718	9824	92.5	B
SRM 6620 VT3P	9642	90.8	B
SYN 897 VIPTERA3	9620	90.5	B
QS 72-01	9329	87.8	B
Promedio	10624		

Medias con una letra común no son significativamente diferentes (p > 0,10)

3.6 Ranking Trenque Lauquen

Localidad	Variable	N	R²	R² Aj	CV
T. Lauquen	R Kg/ha	124	0.55	0.39	7.44

Cuadro de Análisis de la Varianza (SC tipo III)

F.V.	SC	gl	CM	F	p-valor
Modelo	68748737.12	33	2083295.06	3.38	<0,0001
Bloque	1675108.35	3	558369.45	0.91	0.4412
Cultivar	67073628.77	30	2235787.63	3.63	<0,0001
Error	55430174.9	90	615890.83		
Total	124178912	123			

Test:DGC Alfa=0,10 PCALT=1117,5369 | Error: 615890,8323 gl: 90

Híbrido	Medias	Indice	Sign
P2167VYHR	12499	119	A
DK 72-08 VT3P	11597	110	B
BRV 8472 PWU	11577	110	B
NXM 1122 PWU	11447	109	B
BORAX PWU	11251	107	B
ACRUX PWU	11211	106	B
SYN 897 VIPTERA3	11049	105	B
DK 72-72 VT3P	11044	105	B
EBC TIGRE VT3P	10947	104	B
SYN 979 VIPTERA3	10938	104	B
EBC MARIA RR	10899	103	B
BRV 8380 PWU	10773	102	B
LG 30870 MGRR	10758	102	B
BRV 8421 PWU	10668	101	B
NS 7921 VIPTERA3 CL	10494	100	B
ACA 476 VT3Pro	10489	100	B
TOB 767 VIPTERA3	10473	99	B
ST 9910-20 VIPTERA3	10384	99	B
NK 842 VIPTERA3	10378	98	B
NEXT 22.6 PWU	10325	98	B
19MZ227VT3Pro	10213	97	B
ADV 8122 VT3P	10206	97	B
DK 73-03 VT3P	10199	97	B
BASF 7349 VT3P	9985	95	B
NS 7621 VIPTERA3	9923	94	B
P2021PWUE	9798	93	B
QS 72-01	9796	93	B
ARG 7715 BTRRCL	9599	91	B
BASF 7344 VT3P	9454	90	B
SRM 6620 VT3P	9311	88	B
ARG 7718	9102	86	B
Promedio	10541		

Medias con una letra común no son significativamente diferentes (p > 0,10)

3.7 Ranking Cerrito

Localidad	Variable	N	R²	R² Aj	CV
Cerrito	R Kg/ha	124	0.59	0.44	7.57

Cuadro de Análisis de la Varianza (SC tipo III)

F.V.	SC	gl	CM	F	p-valor
Modelo	79118409.36	33	2397527.56	3.88	<0,0001
Bloque	13953791.9	3	4651263.97	7.52	0.0002
Cultivar	65164617.47	30	2172153.92	3.51	<0,0001
Error	55653654.85	90	618373.94		
Total	134772064.2	123			

Test:DGC Alfa=0,10 PCALT=1119,7874 | Error: 618373,9428 gl: 90

Híbrido	Medias	Indice	Sign
NK 842 VIPTERA3	11691	112.5	A
P2167VYHR	11645	112.1	A
BRV 8472 PWU	11328	109.0	A
NS 7621 VIPTERA3	11046	106.3	B
BRV 8380 PWU	11020	106.0	B
ADV 8122 VT3P	10968	105.5	B
LG 30870 MGRR	10900	104.9	B
SRM 6620 VT3P	10888	104.8	B
DK 72-72 VT3P	10860	104.5	B
ARG 7715 BTRRCL	10790	103.8	B
NXM 1122 PWU	10762	103.6	B
TOB 767 VIPTERA3	10686	102.8	B
19MZ227VT3Pro	10629	102.3	B
ACRUX PWU	10601	102.0	B
EBC TIGRE VT3P	10580	101.8	B
BORAX PWU	10509	101.1	B
EBC MARIA RR	10462	100.7	B
NEXT 22.6 PWU	10380	99.9	B
ACA 476 VT3Pro	10286	99.0	B
DK 72-08 VT3P	10252	98.7	B
SYN 897 VIPTERA3	10232	98.5	B
BRV 8421 PWU	10128	97.5	B
BASF 7344 VT3P	10060	96.8	B
NS 7921 VIPTERA3 CL	9878	95.1	B
ST 9910-20 VIPTERA3	9812	94.4	B
DK 73-03 VT3P	9774	94.1	B
SYN 979 VIPTERA3	9720	93.5	B
P2021PWUE	9607	92.4	B
BASF 7349 VT3P	9376	90.2	C
ARG 7718	9019	86.8	C
QS 72-01	8261	79.5	C
Promedio	10392		

Medias con una letra común no son significativamente diferentes (p > 0,10)

3.8 Ranking Pellegrini

Localidad	Variable	N	R²	R² Aj	CV
Pellegrini	R Kg/ha	124	0.53	0.36	6.99

Cuadro de Análisis de la Varianza (SC tipo III)

F.V.	SC	gl	CM	F	p-valor
Modelo	44499357.27	33	1348465.37	3.06	<0,0001
Bloque	6594612.68	3	2198204.23	4.99	0.003
Cultivar	37904744.6	30	1263491.49	2.87	0.0001
Error	39609620.82	90	440106.9		
Total	84108978.1	123			

Test:DGC Alfa=0,10 PCALT=944,6895 | Error: 440106,8980 gl: 90

Híbrido	Medias	Indice	Sign
LG 30870 MGRR	10752	113	A
NXM 1122 PWU	10348	109	B
ACRUX PWU	10150	107	B
BRV 8421 PWU	10096	106	B
ADV 8122 VT3P	10047	106	B
ST 9910-20 VIPTERA3	10013	105	B
SRM 6620 VT3P	9968	105	B
DK 72-08 VT3P	9890	104	B
ARG 7715 BTRRCL	9842	104	B
DK 72-72 VT3P	9719	102	B
BRV 8472 PWU	9707	102	B
BORAX PWU	9703	102	B
BRV 8380 PWU	9679	102	B
P2167VYHR	9641	102	B
NK 842 VIPTERA3	9596	101	B
SYN 979 VIPTERA3	9503	100	B
NS 7621 VIPTERA3	9494	100	B
SYN 897 VIPTERA3	9450	100	B
EBC TIGRE VT3P	9348	98	B
P2021PWUE	9343	98	B
NS 7921 VIPTERA3 CL	9287	98	B
BASF 7349 VT3P	9277	98	B
ACA 476 VT3Pro	9266	98	B
EBC MARIA RR	9163	96	B
NEXT 22.6 PWU	9127	96	B
BASF 7344 VT3P	9099	96	B
DK 73-03 VT3P	8791	93	C
QS 72-01	8727	92	C
TOB 767 VIPTERA3	8662	91	C
19MZ227VT3Pro	8632	91	C
ARG 7718	8087	85	C
Promedio	9497		

Medias con una letra común no son significativamente diferentes (p > 0,10)

3.9 Porcentaje de humedad del grano a cosecha

Cultivar	América OCT	América SEP	Cerrito	Gral Villegas	Trebolares	Pellegrini	T. Lauquen	30 de Agosto	Promedio
BRV 8380 PWU	16.2	13.1	12.0	13.4	13.5	13.78	14	14.15	13.8
ADV 8122 VT3P	15.3	13.2	12.2	13.4	13.6	13.8	14.55	14.4	13.8
DK 72-72 VT3P	16.7	13.1	12.0	13.3	13.4	13.65	14.15	14.35	13.8
NXM 1122 PWU	16.5	13.2	12.1	13.6	13.4	13.68	14.08	14.5	13.9
BASF 7344 VT3P	15.3	13.2	12.2	14.1	13.8	13.95	14.45	14.3	13.9
NEXT 22.6 PWU	15.7	13.4	12.4	13.7	13.8	13.8	14.1	14.45	13.9
BRV 8421 PWU	16.5	13.6	12.5	13.6	13.8	13.43	14.25	14.33	14.0
DK 72-08 VT3P	16.1	13.7	12.7	13.6	13.5	14.03	14.38	14.33	14.0
SRM 6620 VT3P	16.6	13.2	12.5	14.1	13.8	13.35	14.35	14.4	14.0
EBC TIGRE VT3P	15.9	13.2	12.3	13.1	15.4	14.03	14.13	14.4	14.1
DK 73-03 VT3P	16.6	13.6	11.9	14.5	14.1	13.63	14.33	14.3	14.1
P2167VYHR	16.8	13.3	12.8	13.7	14.1	13.55	14.33	14.45	14.1
ACA 476 VT3Pro	16.2	13.9	12.7	14.1	13.4	13.85	14.45	14.48	14.1
ACRUX PWU	17.0	13.4	12.4	14.3	13.9	13.55	14.1	14.6	14.1
19MZ227VT3Pro	16.7	13.6	12.0	14.7	14.3	13.45	14.03	14.45	14.1
BASF 7349 VT3P	17.1	13.9	12.3	13.8	13.7	13.98	14.45	14.7	14.2
BRV 8472 PWU	18.1	13.8	11.9	14.3	14.2	13.88	13.98	14.25	14.3
BORAX PWU	16.4	13.9	12.3	14.5	14.7	13.83	14	14.58	14.3
ARG 7718	17.1	13.8	12.4	14.0	14.0	13.95	14.6	14.65	14.3
P2021PWUE	16.7	13.9	12.7	14.3	14.0	13.85	14.78	14.43	14.3
NS 7621 VIPTERA3	16.8	14.0	12.4	14.8	14.2	13.65	14.95	14.28	14.4
QS 72-01	17.6	13.9	12.6	14.3	14.3	13.88	14.23	14.98	14.5
ST 9910-20 VIPTERA3	16.7	14.0	13.0	14.4	14.5	14.1	14.83	14.65	14.5
NK 842 VIPTERA3	18.0	13.9	13.1	14.5	13.7	13.98	14.65	14.73	14.6
NS 7921 VIPTERA3 CL	17.4	14.3	13.0	14.4	14.8	14.1	14.85	15	14.7
EBC MARIA RR	19.4	14.6	12.7	15.4	14.9	14.18	14.58	15.18	15.1
ARG 7715 BTRRCL	19.6	15.0	12.6	15.2	15.2	14.33	14.85	15.43	15.3
LG 30870 MGRR	20.0	14.9	13.2	16.5	14.7	13.85	14.38	14.93	15.3
SYN 897 VIPTERA3	19.5	15.1	13.4	15.3	15.7	14.05	14.4	15.13	15.3
TOB 767 VIPTERA3	19.5	16.5	14.6	19.0	17.7	14.55	15.2	15.4	16.5
SYN 979 VIPTERA3	20.7	17.7	15.6	19.3	17.4	14.63	15.4	16.25	17.1

3.10 Porcentaje de vuelco a cosecha

Cultivar	América OCT	América SEP	Cerrito	Gral Villegas	Trebolares	Pellegrini	T. Lauquen	30 de Agosto	Promedio
NXM 1122 PWU	0.75	2.00	0.00	1.75	1.50	1.03	3.55	4.88	1.93
BRV 8380 PWU	3.00	2.25	0.00	1.75	7.25	0.78	3.15	5.25	2.93
LG 30870 MGRR	2.75	2.25	0.25	1.50	2.25	3.85	6.08	4.63	2.95
DK 72-08 VT3P	4.75	0.25	0.50	2.00	5.00	0.75	1.75	9.28	3.04
EBC MARIA RR	8.50	0.00	0.00	2.00	7.75	0	3.98	2.43	3.08
P2021PWUE	0.50	1.25	0.00	4.00	6.25	0.53	4.53	10.25	3.41
TOB 767 VIPTERA3	3.25	0.75	1.00	4.75	3.75	2.8	3.53	7.83	3.46
SYN 979 VIPTERA3	1.50	0.75	0.00	5.25	4.00	3.18	2.23	11.45	3.55
BASF 7344 VT3P	4.50	0.75	0.50	5.75	2.50	0	6.28	8.6	3.61
DK 73-03 VT3P	4.75	2.00	0.00	3.25	4.25	0.28	6.23	9.18	3.74
BORAX PWU	7.75	0.00	0.00	2.00	9.25	1.8	2.80	7.23	3.85
NK 842 VIPTERA3	4.50	1.00	0.50	3.75	6.25	2.5	6.73	7.6	4.10
BRV 8472 PWU	1.25	0.50	4.00	5.50	6.25	4.08	2.40	8.85	4.10
DK 72-72 VT3P	4.75	1.00	0.00	2.25	5.50	0.5	2.13	16.98	4.14
SYN 897 VIPTERA3	4.00	0.50	1.25	2.00	9.50	5.58	3.50	8.1	4.30
BASF 7349 VT3P	7.75	2.25	2.00	0.75	6.75	0.55	5.15	10.73	4.49
SRM 6620 VT3P	2.75	0.00	0.75	5.75	5.50	3.4	9.00	10	4.64
NEXT 22.6 PWU	9.00	1.00	0.00	6.25	9.50	1.55	4.73	6.08	4.76
ADV 8122 VT3P	8.75	0.00	0.75	3.75	10.00	2.43	4.93	9.3	4.99
ST 9910-20 VIPTERA3	10.25	0.75	0.00	2.00	13.00	0.28	4.50	9.63	5.05
ACRUX PWU	8.25	9.25	0.00	2.00	8.50	1.05	5.00	6.83	5.11
P2167VYHR	6.50	16.25	0.00	1.25	5.00	0	4.38	9.05	5.30
EBC TIGRE VT3P	7.50	0.50	3.25	4.50	9.50	0.48	10.00	10.45	5.77
NS 7921 VIPTERA3 CL	1.50	4.75	0.25	5.00	6.50	10.63	6.58	11.38	5.82
ARG 7715 BTRRCL	8.00	0.75	0.50	3.00	10.75	9.38	9.55	7.53	6.18
QS 72-01	11.25	12.50	0.00	0.50	8.75	3.45	4.58	10.05	6.39
BRV 8421 PWU	9.00	4.50	0.50	5.50	14.25	3.25	8.40	9.1	6.81
NS 7621 VIPTERA3	13.75	1.75	1.50	0.25	14.00	0.75	4.78	20.88	7.21
19MZ227VT3Pro	11.00	2.75	0.00	3.00	13.00	13.35	14.40	6.28	7.97
ACA 476 VT3Pro	8.50	9.50	2.25	4.25	9.75	1.25	4.23	24.3	8.00
ARG 7718	10.75	5.50	1.75	3.25	11.25	9.15	15.28	13.1	8.75

3.11 Porcentaje de quebrado a cosecha

Cultivar	América OCT	América SEP	Cerrito	Gral Villegas	Trebolares	Pellegrini	T. Lauquen	30 de Agosto	Promedio
EBC MARIA RR	0.0	0.5	4.3	1.8	0.3	0.0	0.8	3.1	1.3
SYN 897 VIPTERA3	0.0	1.5	1.5	3.3	0.3	0.0	1.2	5.6	1.7
TOB 767 VIPTERA3	0.0	7.0	11.5	0.3	0.0	0.0	1.6	6.5	3.4
NXM 1122 PWU	0.0	3.5	10.5	4.8	2.0	0.0	2.3	5.6	3.6
LG 30870 MGRR	0.0	6.5	8.5	6.3	1.5	0.0	1.6	4.3	3.6
ST 9910-20 VIPTERA3	2.3	4.3	7.5	6.5	0.8	0.3	2.7	4.7	3.6
DK 72-72 VT3P	0.0	1.5	18.5	2.0	0.0	0.0	1.8	6.8	3.8
SYN 979 VIPTERA3	0.0	7.8	18.0	2.5	1.3	0.0	0.8	4.2	4.3
DK 73-03 VT3P	0.0	12.5	8.5	4.0	0.5	0.0	4.6	5.2	4.4
DK 72-08 VT3P	0.0	2.3	17.8	9.0	1.3	0.0	2.3	2.9	4.4
NK 842 VIPTERA3	2.3	14.3	8.5	2.3	0.0	0.0	2.9	6.4	4.6
NS 7921 VIPTERA3 CL	0.0	7.8	18.0	6.8	0.0	0.0	1.5	4.4	4.8
P2167VYHR	0.3	2.3	10.8	11.5	6.3	0.0	3.2	6.8	5.1
NS 7621 VIPTERA3	0.0	4.5	8.3	5.3	0.8	0.0	0.8	24.0	5.4
19MZ227VT3Pro	0.0	9.8	18.5	0.5	0.0	0.0	4.7	10.3	5.5
EBC TIGRE VT3P	0.0	10.5	15.3	9.5	1.0	0.0	1.5	8.2	5.7
ACRUX PWU	1.3	13.8	14.0	4.3	1.0	0.8	3.9	8.5	5.9
BRV 8421 PWU	0.0	10.5	17.0	2.0	1.3	0.0	7.5	11.0	6.2
SRM 6620 VT3P	0.0	4.3	13.0	19.5	3.8	0.0	4.7	6.5	6.5
BASF 7349 VT3P	0.0	13.3	23.5	7.0	0.3	0.6	4.7	4.2	6.7
BRV 8472 PWU	0.0	12.3	21.5	3.5	4.8	0.0	4.4	9.5	7.0
ADV 8122 VT3P	0.0	9.3	24.5	11.8	0.5	0.0	5.3	5.9	7.1
BASF 7344 VT3P	0.0	13.3	21.0	9.5	3.0	0.6	2.0	8.7	7.3
P2021PWUE	0.5	10.8	18.5	16.5	1.8	0.0	2.3	11.1	7.7
QS 72-01	3.0	7.5	22.5	20.3	0.3	1.0	3.4	7.9	8.2
NEXT 22.6 PWU	1.5	8.8	21.0	13.8	4.5	0.0	4.6	13.6	8.5
BRV 8380 PWU	0.0	10.5	19.5	11.8	2.3	1.1	10.3	14.3	8.7
ACA 476 VT3Pro	0.0	14.5	22.0	7.0	0.8	0.6	5.6	28.1	9.8
ARG 7718	2.0	13.8	27.3	20.5	2.8	0.0	8.8	16.2	11.4
ARG 7715 BTRRCL	5.5	8.3	27.5	20.3	6.0	0.0	12.1	13.9	11.7
BORAX PWU	3.8	15.0	26.3	16.0	2.5	0.3	17.2	15.8	12.1

3.12 Densidad de plantas a cosecha

Cultivar	América OCT	América SEP	Cerrito	Gral Villegas	Trebolares	Pellegrini	T. Lauquen	30 de Agosto	Promedio
DK 73-03 VT3P	74469	76440	75513	73569	74764	72279	70004	76486	74190
DK 72-08 VT3P	72257	74740	71555	75306	75245	74569	68207	76236	73514
TOB 767 VIPTERA3	74434	73083	74059	74123	72220	72427	69781	77690	73477
ST 9910-20 VIPTERA3	73960	73884	72757	71915	73830	69223	68640	81582	73224
SYN 979 VIPTERA3	74923	73085	74223	72412	72946	69131	72794	76121	73204
P2021PWUE	72581	72478	75582	73870	72340	69622	71564	76266	73038
EBC MARIA RR	71787	72505	72717	69201	73894	73831	72586	77222	72968
SRM 6620 VT3P	73552	72028	71828	72659	73021	75726	69483	74951	72906
NK 842 VIPTERA3	74924	72692	73538	73609	70138	71275	68783	77763	72840
P2167VYHR	75125	73592	74111	72253	71248	67211	68661	79797	72750
BASF 7344 VT3P	73305	73418	71759	71429	73111	72047	72357	74074	72687
ADV 8122 VT3P	74918	74710	71928	71861	73555	70964	66812	76635	72673
LG 30870 MGRR	72520	72009	73658	73281	73880	73528	64766	77369	72626
ACRUX PWU	72059	73624	71211	72885	73621	71799	69870	75331	72550
NXM 1122 PWU	73152	71526	72792	71819	74141	69913	69893	76659	72487
EBC TIGRE VT3P	75101	74596	73220	69948	72108	70018	67242	77190	72428
BASF 7349 VT3P	73547	73889	75228	73436	71355	69265	67303	74727	72344
NEXT 22.6 PWU	71996	72663	74004	71936	71532	72624	65768	77782	72288
BRV 8380 PWU	73853	71031	73814	72733	73957	70593	67322	74587	72236
NS 7921 VIPTERA3 CL	71874	72962	73264	73919	71577	70698	69176	73956	72178
19MZ227VT3Pro	74148	74456	74198	72558	71548	69425	65797	74533	72083
QS 72-01	73325	71540	73417	72433	75406	69437	68199	72019	71972
BRV 8421 PWU	71046	72359	71786	72850	70612	69038	66736	80083	71814
ARG 7715 BTRRCL	72193	73622	72231	71360	70261	70072	72638	72091	71808
ARG 7718	71831	69859	76781	71367	71243	68933	70711	72389	71639
BRV 8472 PWU	72665	71852	71540	73162	72005	68344	69538	72324	71429
SYN 897 VIPTERA3	70994	72466	72040	69656	74178	69279	66198	76057	71359
BORAX PWU	71302	70513	71852	70769	73060	71129	65653	75699	71247
NS 7621 VIPTERA3	73535	74632	71569	72845	73764	71640	67742	60210	70742
DK 72-72 VT3P	71620	75385	72273	73923	74161	72222	65553	58948	70510
ACA 476 VT3Pro	74461	75879	73178	70758	72549	71031	64952	55205	69752

04. Siembras tardías

4.0 Ranking de Rendimiento

Media: A B C D E

Cultivar	Gral. Villegas	América DIC	Trebolares	Cerrito	T. Lauquen	Pellegrini	30 de Agosto	Combinado
ACA 476 VT3Pro	10547	10238	10631	8512	8657	6363	7171	8937
LT 723 VT3P	10539	10420	8479	8528	8706	7448	7168	8755
BRV 8380 PWU	10445	9924	9996	7983	8703	6820	6958	8690
NEXT 22.6 PWU	10014	10358	9742	8305	8335	7007	6686	8635
NXM 1122 PWU	10472	10256	8464	8508	8117	7314	7295	8632
LT 721 VT3P	10985	10022	9126	8721	8457	6281	6281	8553
P2167VYHR	10165	10082	9183	8035	9672	5742	6973	8550
BORAX PWU	10353	9137	9280	7941	8962	7411	6236	8474
BRV 8421 PWU	10450	9424	8544	8427	7629	7479	6596	8364
ACRUX PWU	9825	9965	7915	8333	8198	6869	6868	8282
P2021PWUE	9335	9851	8743	8491	8467	7006	5859	8250
BASF 7344 VT3P	10524	9301	8546	7987	7670	6403	5938	8053
LGX 161 VT3P	9397	9267	8467	7254	6829	7272	6539	7861
BASF 7349 VT3P	10744	9520	9565	6538	7378	6067	5137	7850
BRV 8472 PWU	9431	7000	8470	8160	7258	6650	7222	7742
NS 7818 VIPTERA3	9551	8889	9749	7939	6218	5882	5871	7728
EBC TIGRE VT3P	10099	8735	8665	7546	7023	6231	5444	7678
EBC EXP2022	9879	9398	7705	7622	6576	5839	5426	7492
NS 7921 VIPTERA3 CL	10007	8697	8542	7059	7231	5682	5195	7487
ARG 7715 BTRRCL	8883	7574	8265	7098	6316	6024	6026	7169
SYN 897 VIPTERA3	9823	7574	7386	6150	6840	5944	5772	7070
NK 842 VIPTERA3	9608	8422	6532	6685	6781	5579	5822	7061
SRM 6620 VT3P	7960	7728	7314	7655	6238	6467	5462	6975
ARG 7718	8427	7871	7595	6695	6117	6015	5684	6915
SPS 2743 VIP3	8975	7534	7590	7370	4889	5700	5699	6822
19MZ227VT3Pro	6995	7536	7149	7099	5624	6126	4947	6496
Promedio	9747	9028	8525	7717	7419	6447	6141	7866
Cv	8	7	8.4	7	10.3	8.9	7.28	8.3
DMS 10%	1097	904	1015	794	1077	812	632	341
p valor Genotipo	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001	<0,0001
p valor Genotipo*Localidad	NA	NA	NA	NA	NA	NA	NA	<0,0001

4.1 Ranking 30 de Agosto

Localidad	Variable	N	R²	R² Aj	CV
30 de Agosto	R Kg/ha	103	0.79	0.71	7.28

Cuadro de Análisis de la Varianza (SC tipo I)

F.V.	SC	gl	CM	F	p-valor
Modelo	56043590.75	28	2001556.81	9.97	<0,0001
Bloque	6220084.14	3	2073361.38	10.33	<0,0001
Cultivar	49823506.61	25	1992940.26	9.93	<0,0001
Error	14854122.29	74	200731.38		
Total	70897713.05	102			

Test:DGC Alfa=0,10 PCALT=632,1711 | Error: 200731,3824 gl: 74

Híbrido	Medias	Indice	Sign
NXM 1122 PWU	7295	119	A
BRV 8472 PWU	7222	118	A
ACA 476 VT3Pro	7171	117	A
LT 723 VT3P	7168	117	A
P2167VYHR	6973	114	A
BRV 8380 PWU	6958	113	A
ACRUX PWU	6868	112	A
NEXT 22.6 PWU	6686	109	A
BRV 8421 PWU	6596	107	A
LGX 161 VT3P	6539	106	A
LT 721 VT3P	6281	102	A
BORAX PWU	6236	102	A
ARG 7715 BTRRCL	6026	98	B
BASF 7344 VT3P	5938	97	B
NS 7818 VIPTERA3	5871	96	B
P2021PWUE	5859	95	B
NK 842 VIPTERA3	5822	95	B
SYN 897 VIPTERA3	5772	94	B
SPS 2743 VIP3	5699	93	B
ARG 7718	5684	93	B
SRM 6620 VT3P	5462	89	B
EBC TIGRE VT3P	5444	89	B
EBC EXP2022	5426	88	B
NS 7921 VIPTERA3 CL	5195	85	B
BASF 7349 VT3P	5137	84	B
19MZ227VT3Pro	4947	81	B
Promedio	6141		
Cv	7.28		
DMS 10%	632		
p valor Genotipo	<0,0001		

Medias con una letra común no son significativamente diferentes (p > 0,10)

4.2 Ranking América

Localidad	Variable	N	R²	R² Aj	CV
América Dic	R Kg/ha	104	0.79	0.71	7.1

Cuadro de Análisis de la Varianza (SC tipo III)

F.V.	SC	gl	CM	F	p-valor
Modelo	115640356.1	28	4130012.72	10.06	<0,0001
Bloque	2746615.92	3	915538.64	2.23	0.0916
Cultivar	112893740.2	25	4515749.61	11	<0,0001
Error	30781940.08	75	410425.87		
Total	146422296.2	103			

Test:DGC Alfa=0,10 PCALT=903,9499 | Error: 410425,8677 gl: 75

Híbrido	Medias	Indice	Sign
LT 723 VT3P	10420	115	A
NEXT 22.6 PWU	10358	115	A
NXM 1122 PWU	10256	114	A
ACA 476 VT3Pro	10238	113	A
P2167VYHR	10082	112	A
LT 721 VT3P	10022	111	A
ACRUX PWU	9965	110	A
BRV 8380 PWU	9924	110	A
P2021PWUE	9851	109	A
BASF 7349 VT3P	9520	105	B
BRV 8421 PWU	9424	104	B
EBC EXP2022	9398	104	B
BASF 7344 VT3P	9301	103	B
LGX 161 VT3P	9267	103	B
BORAX PWU	9137	101	B
NS 7818 VIPTERA3	8889	98	B
EBC TIGRE VT3P	8735	97	B
NS 7921 VIPTERA3 CL	8697	96	B
NK 842 VIPTERA3	8422	93	B
ARG 7718	7871	87	C
SRM 6620 VT3P	7728	86	C
SYN 897 VIPTERA3	7574	84	C
ARG 7715 BTRRCL	7574	84	C
19MZ227VT3Pro	7536	83	C
SPS 2743 VIP3	7534	83	C
BRV 8472 PWU	7000	78	C
Promedio	9028		
Cv	7		
DMS 10%	904		
p valor Genotipo	<0,0001		

Medias con una letra común no son significativamente diferentes (p > 0,10)

4.3 Ranking Cerrito

Localidad	Variable	N	R²	R² Aj	CV
Cerrito	R Kg/ha	104	0.7	0.58	7.29

Cuadro de Análisis de la Varianza (SC tipo III)

F.V.	SC	gl	CM	F	p-valor
Modelo	54585597.92	28	1949485.64	6.16	<0,0001
Bloque	3295123.95	3	1098374.65	3.47	0.0203
Cultivar	51290473.97	25	2051618.96	6.48	<0,0001
Error	23748754.3	75	316650.06		
Total	78334352.22	103			

Test:DGC Alfa=0,10 PCALT=793,9932 | Error: 316650,0573 gl: 75

Híbrido	Medias	Indice	Sign
LT 721 VT3P	8721	113	A
LT 723 VT3P	8528	111	A
ACA 476 VT3Pro	8512	110	A
NXM 1122 PWU	8508	110	A
P2021PWUE	8491	110	A
BRV 8421 PWU	8427	109	A
ACRUX PWU	8333	108	A
NEXT 22.6 PWU	8305	108	A
BRV 8472 PWU	8160	106	A
P2167VYHR	8035	104	A
BASF 7344 VT3P	7987	103	A
BRV 8380 PWU	7983	103	A
BORAX PWU	7941	103	A
NS 7818 VIPTERA3	7939	103	A
SRM 6620 VT3P	7655	99	A
EBC EXP2022	7622	99	A
EBC TIGRE VT3P	7546	98	A
SPS 2743 VIP3	7370	96	B
LGX 161 VT3P	7254	94	B
19MZ227VT3Pro	7099	92	B
ARG 7715 BTRRCL	7098	92	B
NS 7921 VIPTERA3 CL	7059	91	B
ARG 7718	6695	87	B
NK 842 VIPTERA3	6685	87	B
BASF 7349 VT3P	6538	85	B
SYN 897 VIPTERA3	6150	80	B
Promedio	7717		
Cv	7		
DMS 10%	794		
p valor Genotipo	<0,0001		

Medias con una letra común no son significativamente diferentes (p > 0,10)

4.4 Ranking Villegas

Localidad	Variable	N	R²	R² Aj	CV
Gral. Villegas	R Kg/ha	104	0.65	0.53	7.98

Cuadro de Análisis de la Varianza (SC tipo III)

F.V.	SC	gl	CM	F	p-valor
Modelo	85824710.77	28	3065168.24	5.07	<0,0001
Bloque	1667415.88	3	555805.29	0.92	0.4356
Cultivar	84157294.88	25	3366291.8	5.57	<0,0001
Error	45330472.12	75	604406.29		
Total	131155182.9	103			

Test:DGC Alfa=0,10 PCALT=1096,9618 | Error: 604406,2949 gl: 75

Híbrido	Medias	Indice	Sign
LT 721 VT3P	10985	113	A
BASF 7349 VT3P	10744	110	A
ACA 476 VT3Pro	10547	108	A
LT 723 VT3P	10539	108	A
BASF 7344 VT3P	10524	108	A
NXM 1122 PWU	10472	107	A
BRV 8421 PWU	10450	107	A
BRV 8380 PWU	10445	107	A
BORAX PWU	10353	106	A
P2167VYHR	10165	104	A
EBC TIGRE VT3P	10099	104	A
NEXT 22.6 PWU	10014	103	A
NS 7921 VIPTERA3 CL	10007	103	A
EBC EXP2022	9879	101	A
ACRUX PWU	9825	101	A
SYN 897 VIPTERA3	9823	101	A
NK 842 VIPTERA3	9608	99	A
NS 7818 VIPTERA3	9551	98	A
BRV 8472 PWU	9431	97	A
LGX 161 VT3P	9397	96	A
P2021PWUE	9335	96	A
SPS 2743 VIP3	8975	92	B
ARG 7715 BTRRCL	8883	91	B
ARG 7718	8427	86	B
SRM 6620 VT3P	7960	82	B
19MZ227VT3Pro	6995	72	C
Promedio	9747		
Cv	8		
DMS 10%	1097		
p valor Genotipo	<0,0001		

Medias con una letra común no son significativamente diferentes (p > 0,10)

4.5 Ranking Pellegrini

Localidad	Variable	N	R²	R² Aj	CV
Pellegrini	R Kg/ha	104	0.61	0.46	8.92

Cuadro de Análisis de la Varianza (SC tipo III)

F.V.	SC	gl	CM	F	p-valor
Modelo	38721416.96	28	1382907.75	4.18	<0,0001
Bloque	936882.08	3	312294.03	0.94	0.4239
Cultivar	37784534.88	25	1511381.4	4.57	<0,0001
Error	24815124.42	75	330868.33		
Total	63536541.38	103			

Test:DGC Alfa=0,10 PCALT=811,6235 | Error: 330868,3256 gl: 75

Híbrido	Medias	Indice	Sign
BRV 8421 PWU	7479	116	A
LT 723 VT3P	7448	116	A
BORAX PWU	7411	115	A
NXM 1122 PWU	7314	113	A
LGX 161 VT3P	7272	113	A
NEXT 22.6 PWU	7007	109	A
P2021PWUE	7006	109	A
ACRUX PWU	6869	107	A
BRV 8380 PWU	6820	106	A
BRV 8472 PWU	6650	103	A
SRM 6620 VT3P	6467	100	B
BASF 7344 VT3P	6403	99	B
ACA 476 VT3Pro	6363	99	B
LT 721 VT3P	6281	97	B
EBC TIGRE VT3P	6231	97	B
19MZ227VT3Pro	6126	95	B
BASF 7349 VT3P	6067	94	B
ARG 7715 BTRRCL	6024	93	B
ARG 7718	6015	93	B
SYN 897 VIPTERA3	5944	92	B
NS 7818 VIPTERA3	5882	91	B
EBC EXP2022	5839	91	B
P2167VYHR	5742	89	B
SPS 2743 VIP3	5700	88	B
NS 7921 VIPTERA3 CL	5682	88	B
NK 842 VIPTERA3	5579	87	B
Promedio	6447		
Cv	8.9		
DMS 10%	812		
p valor Genotipo	<0,0001		

Medias con una letra común no son significativamente diferentes (p > 0,10)

4.6 Ranking Trenque Lauquen

Localidad	Variable	N	R²	R² Aj	CV
T. Lauquen	R Kg/ha	104	0.76	0.67	10.29

Cuadro de Análisis de la Varianza (SC tipo III)

F.V.	SC	gl	CM	F	p-valor
Modelo	137696330.8	28	4917726.1	8.44	<0,0001
Bloque	2090599.26	3	696866.42	1.2	0.3173
Cultivar	135605731.5	25	5424229.26	9.31	<0,0001
Error	43716090.99	75	582881.21		
Total	181412421.8	103			

Test:DGC Alfa=0,10 PCALT=1077,2513 | Error: 582881,2132 gl: 75

Híbrido	Medias	Indice	Sign
P2167VYHR	9672	130	A
BORAX PWU	8962	121	B
LT 723 VT3P	8706	117	B
BRV 8380 PWU	8703	117	B
ACA 476 VT3Pro	8657	117	B
P2021PWUE	8467	114	B
LT 721 VT3P	8457	114	B
NEXT 22.6 PWU	8335	112	B
ACRUX PWU	8198	110	B
NXM 1122 PWU	8117	109	B
BASF 7344 VT3P	7670	103	C
BRV 8421 PWU	7629	103	C
BASF 7349 VT3P	7378	99	C
BRV 8472 PWU	7258	98	C
NS 7921 VIPTERA3 CL	7231	97	C
EBC TIGRE VT3P	7023	95	C
SYN 897 VIPTERA3	6840	92	C
LGX 161 VT3P	6829	92	C
NK 842 VIPTERA3	6781	91	C
EBC EXP2022	6576	89	C
ARG 7715 BTRRCL	6316	85	C
SRM 6620 VT3P	6238	84	C
NS 7818 VIPTERA3	6218	84	C
ARG 7718	6117	82	C
19MZ227VT3Pro	5624	76	D
SPS 2743 VIP3	4889	66	D
Promedio	7419		
Cv	10.3		
DMS 10%	1077		
p valor Genotipo	<0,0001		

Medias con una letra común no son significativamente diferentes (p > 0,10)

4.7 Ranking Trebolares

Localidad	Variable	N	R²	R² Aj	CV
Trebolares	R Kg/ha	104	0.73	0.62	8.43

Cuadro de Análisis de la Varianza (SC tipo III)

F.V.	SC	gl	CM	F	p-valor
Modelo	103074414.2	28	3681229.08	7.12	<0,0001
Bloque	8717930.57	3	2905976.86	5.62	0.0016
Cultivar	94356483.63	25	3774259.35	7.3	<0,0001
Error	38776310.18	75	517017.47		
Total	141850724.4	103			

Test:DGC Alfa=0,10 PCALT=1014,5644 | Error: 517017,4691 gl: 75

Híbrido	Medias	Indice	Sign
ACA 476 VT3Pro	10631	125	A
BRV 8380 PWU	9996	117	B
NS 7818 VIPTERA3	9749	114	B
NEXT 22.6 PWU	9742	114	B
BASF 7349 VT3P	9565	112	B
BORAX PWU	9280	109	B
P2167VYHR	9183	108	B
LT 721 VT3P	9126	107	B
P2021PWUE	8743	103	B
EBC TIGRE VT3P	8665	102	B
BASF 7344 VT3P	8546	100	B
BRV 8421 PWU	8544	100	B
NS 7921 VIPTERA3 CL	8542	100	B
LT 723 VT3P	8479	99	B
BRV 8472 PWU	8470	99	B
LGX 161 VT3P	8467	99	B
NXM 1122 PWU	8464	99	B
ARG 7715 BTRRCL	8265	97	B
ACRUX PWU	7915	93	C
EBC EXP2022	7705	90	C
ARG 7718	7595	89	C
SPS 2743 VIP3	7590	89	C
SYN 897 VIPTERA3	7386	87	C
SRM 6620 VT3P	7314	86	C
19MZ227VT3Pro	7149	84	C
NK 842 VIPTERA3	6532	77	C
Promedio	8525		
Cv	8.4		
DMS 10%	1015		
p valor Genotipo	<0,0001		

Medias con una letra común no son significativamente diferentes (p > 0,10)

4.8 Porcentaje de humedad del grano a cosecha

Cultivar	30 de Agosto	América Dic	Cerrito	G. Villegas	Pellegrini	T. Lauquen	Trebolares	PROMEDIO
BRV 8380 PWU	18.0	18.1	15.2	17.5	14.8	22.1	16.6	17.5
LGX 161 VT3P	18.1	17.9	14.5	19.0	15.5	21.9	16.3	17.6
19MZ227VT3Pro	18.6	17.8	14.9	19.5	14.0	21.2	17.5	17.6
BASF 7344 VT3P	19.7	17.9	14.5	17.5	15.4	22.0	16.7	17.7
NEXT 22.6 PWU	18.7	18.3	15.4	18.9	14.7	21.1	17.1	17.7
NXM 1122 PWU	19.0	19.0	15.2	17.8	14.7	21.6	17.0	17.7
P2021PWUE	18.7	18.4	15.3	18.2	14.9	22.1	17.2	17.8
EBC TIGRE VT3P	18.0	18.4	15.7	18.3	14.3	22.1	18.2	17.9
LT 721 VT3P	19.1	18.2	15.0	18.1	14.8	22.3	17.8	17.9
BORAX PWU	19.0	19.2	15.8	18.5	15.4	22.2	17.0	18.2
ACRUX PWU	19.3	19.4	14.9	19.1	14.7	22.9	17.0	18.2
BRV 8421 PWU	18.4	18.6	15.4	19.3	14.7	22.6	18.5	18.2
NS 7818 VIPTERA3	18.0	20.1	15.2	19.2	15.8	22.9	17.2	18.3
EBC EXP2022	20.2	19.2	15.1	19.8	14.9	24.4	16.2	18.5
SRM 6620 VT3P	19.0	19.7	16.1	18.8	14.9	22.0	19.3	18.5
BASF 7349 VT3P	19.9	18.5	16.8	20.0	15.5	23.1	17.8	18.8
NS 7921 VIPTERA3 CL	19.7	19.0	16.0	19.1	16.1	22.6	19.3	18.8
P2167VYHR	19.3	18.7	15.9	18.9	16.3	23.8	19.1	18.8
ARG 7718	20.8	18.6	17.1	18.4	15.7	23.6	19.5	19.1
SPS 2743 VIP3	20.5	19.1	16.2	19.0	15.8	23.0	20.3	19.1
NK 842 VIPTERA3	20.4	19.4	17.2	18.5	16.1	23.5	19.5	19.2
BRV 8472 PWU	20.8	19.5	17.1	19.7	15.8	22.5	19.3	19.2
ACA 476 VT3Pro	21.5	18.8	16.8	19.5	16.6	23.7	18.4	19.3
LT 723 VT3P	20.6	19.7	16.6	20.3	16.7	23.2	20.2	19.6
ARG 7715 BTRRCL	22.6	20.6	18.7	21.1	18.2	24.3	20.8	20.9
SYN 897 VIPTERA3	22.5	21.0	19.1	21.4	17.8	25.2	19.9	21.0

4.9 Porcentaje de vuelco a cosecha

Cultivar	30 de Agosto	América Dic	Cerrito	G. Villegas	Pellegrini	T. Lauquen	Trebolares	PROMEDIO
LT 721 VT3P	0.0	8.4	1.6	0.6	0.0	0.0	0.0	1.5
LT 723 VT3P	0.0	6.7	5.6	0.0	0.0	0.0	0.0	1.8
BASF 7344 VT3P	0.0	8.2	6.8	0.0	0.0	0.0	0.6	2.2
BASF 7349 VT3P	0.0	8.9	4.4	1.3	0.0	1.2	0.7	2.3
ACRUX PWU	1.2	9.9	6.9	0.0	0.0	0.0	1.0	2.7
ACA 476 VT3Pro	0.4	12.3	6.1	1.9	0.0	0.0	2.6	3.3
BRV 8421 PWU	0.0	10.9	8.5	1.4	0.3	2.4	2.6	3.7
EBC EXP2022	0.0	12.6	8.9	0.4	0.0	0.9	3.6	3.8
P2021PWUE	0.0	13.4	12.5	0.4	0.0	0.0	1.2	3.9
EBC TIGRE VT3P	0.3	12.2	10.9	0.0	0.9	0.0	3.7	4.0
NXM 1122 PWU	0.0	15.6	8.6	4.9	0.3	0.0	1.2	4.4
NEXT 22.6 PWU	1.5	6.8	18.3	4.2	0.0	1.3	1.5	4.8
BORAX PWU	0.3	15.3	12.2	2.4	0.0	0.9	5.8	5.3
BRV 8380 PWU	1.2	14.8	14.3	0.6	0.0	3.6	3.9	5.5
NS 7818 VIPTERA3	1.7	14.8	13.8	2.2	0.0	1.8	4.7	5.6
P2167VYHR	0.0	15.3	15.0	7.4	0.0	0.7	1.5	5.7
NS 7921 VIPTERA3 CL	2.2	17.2	21.6	3.8	1.4	2.0	5.2	7.6
LGX 161 VT3P	1.5	13.8	21.5	7.9	0.0	6.2	7.5	8.4
SYN 897 VIPTERA3	1.4	13.2	30.1	6.8	0.9	0.0	7.1	8.5
BRV 8472 PWU	1.3	19.2	22.9	12.5	0.0	1.2	4.0	8.7
ARG 7718	2.4	10.9	19.0	9.8	1.7	8.6	12.7	9.3
SRM 6620 VT3P	6.2	24.3	30.0	10.6	0.6	6.8	12.0	12.9
SPS 2743 VIP3	0.3	33.2	36.1	10.8	0.3	0.7	9.7	13.0
NK 842 VIPTERA3	0.6	36.0	43.0	12.5	0.6	2.8	12.2	15.4
ARG 7715 BTRRCL	4.1	30.9	36.0	23.2	1.8	6.0	9.1	15.8
19MZ227VT3Pro	5.6	40.2	25.6	19.3	3.0	6.7	13.0	16.2

4.10 Porcentaje de quebrado a cosecha

Cultivar	30 de Agosto	América Dic	Cerrito	G. Villegas	Pellegrini	T. Lauquen	Trebolares	PROMEDIO
LT 721 VT3P	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LT 723 VT3P	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.1
SYN 897 VIPTERA3	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.1
SPS 2743 VIP3	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.2
NS 7818 VIPTERA3	0.0	0.7	0.0	0.0	0.0	0.6	0.3	0.2
BASF 7344 VT3P	0.0	0.3	0.9	0.0	0.0	0.5	0.0	0.2
NK 842 VIPTERA3	0.0	0.0	1.2	0.0	0.0	0.6	0.0	0.3
ACA 476 VT3Pro	0.0	0.0	0.0	0.7	0.0	1.7	0.0	0.3
LGX 161 VT3P	1.2	0.0	0.3	0.0	0.0	0.0	1.2	0.4
BASF 7349 VT3P	1.2	0.4	0.0	0.0	0.0	0.6	0.7	0.4
EBC EXP2022	0.0	0.3	1.2	0.6	0.0	0.9	0.0	0.4
EBC TIGRE VT3P	0.3	0.0	0.3	1.3	0.0	1.5	0.0	0.5
NXM 1122 PWU	0.8	1.0	0.0	1.2	0.0	0.6	0.0	0.5
19MZ227VT3Pro	0.0	0.0	0.0	0.0	0.0	2.4	1.3	0.5
SRM 6620 VT3P	0.0	1.0	0.0	1.4	0.0	1.2	0.8	0.6
NS 7921 VIPTERA3 CL	0.3	1.7	0.0	1.2	0.0	0.7	0.9	0.7
P2167VYHR	0.0	1.7	0.3	0.0	0.0	3.2	0.6	0.8
ACRUX PWU	0.0	0.9	1.6	0.0	0.0	3.0	1.1	0.9
P2021PWUE	0.0	0.0	0.0	3.8	0.0	2.7	0.4	1.0
BRV 8472 PWU	2.3	0.0	0.3	1.7	0.0	1.6	1.9	1.1
BRV 8380 PWU	3.0	0.4	1.6	1.5	0.0	3.0	0.6	1.4
ARG 7715 BTRRCL	1.2	0.0	0.3	2.5	0.0	3.9	2.9	1.5
BRV 8421 PWU	2.0	1.4	1.8	0.0	0.0	2.8	3.3	1.6
BORAX PWU	0.0	0.0	2.3	3.3	0.0	5.4	2.3	1.9
ARG 7718	1.5	1.3	0.0	0.6	0.0	6.3	4.1	2.0
NEXT 22.6 PWU	0.6	8.0	0.0	2.1	0.0	2.4	2.3	2.2

4.11 Densidad de plantas a cosecha

Cultivar	30 de Agosto	América Dic	Cerrito	G. Villegas	Pellegrini	T. Lauquen	Trebolares	PROMEDIO
BASF 7344 VT3P	67493	69582	66764	65634	64372	65807	63496	66164
LT 721 VT3P	65086	65280	63547	62816	65596	64816	66303	64778
ARG 7715 BTRRCL	61014	68429	65181	64408	62160	67712	64330	64748
BASF 7349 VT3P	66156	63252	67948	62948	65354	66236	61246	64734
P2021PWUE	65421	64550	66802	63961	64394	65107	62380	64659
NEXT 22.6 PWU	64152	63583	67875	63152	64914	69134	59776	64655
BRV 8380 PWU	64442	64261	64367	63147	63521	65805	67019	64652
ARG 7718	67781	64093	67067	62636	65455	60529	64887	64635
SRM 6620 VT3P	62161	65454	65753	63434	62100	65125	67873	64557
NS 7818 VIPTERA3	64773	64781	65771	62442	64245	63732	65894	64520
EBC EXP2022	64136	66034	66170	64475	61429	64916	61413	64082
BRV 8421 PWU	64996	65330	67917	61302	65055	64569	59371	64077
SYN 897 VIPTERA3	64941	64776	67472	65294	64107	61033	60708	64047
NXM 1122 PWU	65686	63390	67355	62918	62330	63571	63062	64045
LGX 161 VT3P	64102	63621	66469	59730	63021	68298	62628	63981
ACA 476 VT3Pro	64543	64715	63681	62515	65593	64209	61706	63852
19MZ227VT3Pro	61800	63120	66368	63103	62792	63600	64235	63574
NS 7921 VIPTERA3 CL	62860	65646	65251	63706	63762	58958	64550	63533
SPS 2743 VIP3	60931	62953	62928	65486	66362	63554	62346	63508
P2167VYHR	64649	61949	65785	60863	63390	61322	66595	63507
LT 723 VT3P	64881	64442	65551	63958	62596	63876	58681	63426
BRV 8472 PWU	60073	62859	64196	64082	63374	64227	64380	63313
ACRUX PWU	64070	61880	66261	61811	64130	65108	59619	63268
EBC TIGRE VT3P	63430	62836	66790	59894	64613	65278	59801	63234
NK 842 VIPTERA3	64683	62745	63756	64098	64245	62885	59768	63168
BORAX PWU	63500	64609	65830	61816	63488	62940	59350	63076

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