2013 South Dakota Corn Hybrid Trial Results – Volga

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Location: 1.5 miles south of Volga (57071) in Brookings County
(GPS: UTM 14N, 665388 m East 4907169 m North)
Cooperator: SDSU Volga Research Farm – Doug Doyle and staff
Soil Type: Brandt silty clay loam, 0-2% slope, non-irrigated
Fertility-Yield Goal: 200 bu/ac
Previous Crop: Spring wheat
Tillage: Conventional
Row Spacing: 30 inches
Seeding Rate: 29,620/acre
Weed Management: Dual II – Pre, Glyphosate – Post
Date seeded/harvested: May 16/Nov. 2

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Table 1. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – **Early Season Trial (100 day or less) at Volga (11 Brands, 31 hybrids).**

Hybrid Information			Measurements				
Brand	**Hybrid**	Relative Maturity	**Yield Bu/A (15.5%)**	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
Channel	197-68STX	97	**247.9**	21.0	55.9	0.8	27.9
Wensman	W 80978VT3PRO	97	**246.4**	19.5	55.2	0.0	28.5
Renk	RK596SSTX	98	**244.1**	20.3	57.5	0.0	27.4
Channel	197-33STX	97	**241.2**	19.8	57.1	0.0	28.0
Hoegemeyer	HPT 7042 AMX-R	100	**240.5**	20.0	57.0	0.0	28.2
Wensman	W 70975VT3PRO	97	**239.2**	19.4	57.5	0.0	28.0
Wensman	W 7290VT3PRIB	99	**239.2**	20.5	57.6	0.0	27.6
Pioneer	P9917AMX	99	**237.4**	20.0	58.0	0.0	26.6
Masters Choice	MCT 4881	98	**233.6**	19.5	56.8	3.2	27.6
Hoegemeyer	6200 GT/CB/LL	91	**232.9**	18.0	55.2	2.5	26.0
DEKALB	DKC48-12RIB	98	**232.5**	17.7	56.6	0.0	28.5
-	**CHECK**	99	**231.5**	19.5	57.8	1.6	27.7
DEKALB	DKC43-48RIB	93	**230.0**	18.2	57.6	1.2	28.1
Epley	E9505RR	95	**229.6**	18.2	58.0	0.0	27.0
Nuseed	9503 VT2P	95	227.6	19.1	57.8	5.2	27.1
Nuseed	9504 VT3P	95	226.7	18.5	57.4	0.0	27.8
NuTech/G2 Genetics	G2 GEN. 5Z-200	100	223.2	18.6	56.3	1.6	27.6
Wensman	W 9288STXRIB	98	222.2	19.1	56.6	0.4	27.3
DEKALB	DKC46-20RIB	96	220.1	17.6	57.7	0.4	27.9
Proseed	PX96 SSSG	96	220.0	18.6	58.1	3.1	25.7
Pioneer	P0062AMX	100	219.4	17.5	55.2	3.1	28.0
Renk	RK581SSTX	100	218.4	21.7	56.1	0.0	26.8
DEKALB	DKC49-29RIB	99	218.4	19.2	56.9	0.8	27.0
Renk	RK598SSTX	100	217.3	20.7	57.5	0.4	27.7
Pioneer	P9526AMX	95	216.8	19.3	57.9	0.8	27.0
Proseed	PX99A GT3000	99	216.6	18.3	55.3	0.4	27.8
Proseed	PX97 SSR	97	215.6	19.2	56.3	0.0	28.4
Wensman	W 90967STX	96	215.3	18.5	57.8	0.0	26.2
Hoegemeyer	EXP 1221 HX/LL/RR	99	215.0	18.8	55.0	0.8	26.2
DEKALB	DKC43-10RIB	93	214.0	16.7	55.2	0.0	27.4
NuTech/G2 Genetics	5H-399	99	212.3	17.9	54.3	0.0	27.3
		Trial Average	227.3	19.1	56.7	0.8	27.4
		LSD (0.05)†	19.1	1.5	1.1	2.2	0.9
		C.V.‡	6.0	5.6	1.4	-	2.4

† Yield, moisture, test weight, lodging, and plant population value required (≥LSD) to determine if hybrids are different from each other with confidence.
‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.
*Lodging percentage – stalks broken below the ear as a percentage of the final stand.

Table 2. Glyphosate-resistant corn hybrid performance results (average of 4 replications sorted by yield) – **Late Season Trial (101 day or more) at Volga (10 Brands, 32 hybrids).**

Hybrid Information			Measurements				
Brand	**Hybrid**	Relative Maturity	**Yield Bu/A (15.5%)**	Grain Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A x 1000)
NuTech/G2 Genetics	5H-903	103	**246.2**	22.2	55.0	0.0	28.1
Wensman	W 91011STX	101	**244.4**	21.6	56.6	0.0	26.4
Channel	202-64STX	102	**241.8**	22.5	56.5	0.0	28.1
NuTech/G2 Genetics	3D-802	102	**240.6**	22.7	55.4	0.0	26.5
Masters Choice	5273000G	105	**239.4**	23.6	55.4	2.0	27.7
Renk	RK633SSTX	101	**238.4**	21.9	55.4	0.0	27.4
Renk	RK666SSTX	102	**237.2**	23.3	54.5	0.0	27.6
Wensman	W 7330VT3PRIB	104	**236.4**	24.2	52.9	0.0	26.7
DEKALB	DKC53-56RIB	103	**235.8**	22.6	56.1	0.0	28.1
Pioneer	P0297XR	102	**235.4**	23.1	56.0	0.8	27.2
Dairyland Seeds	DS-9809RA	109	**235.0**	24.9	54.5	0.4	28.1
Pioneer	P0193AM	101	**232.4**	19.9	54.1	0.0	25.4
Dairyland Seeds	DS-9501SSX	101	**231.9**	20.9	56.2	0.0	27.1
Masters Choice	MCT 5373	103	**230.0**	23.2	55.4	0.4	26.9
Wensman	W 7320VT3PRIB	101	**229.5**	23.3	57.2	0.0	24.6
DEKALB	DKC52-04RIB	102	**229.4**	21.2	56.6	0.0	27.6
-	**CHECK**	99	**228.4**	21.8	57.4	0.0	27.2
Wensman	W 9325STXRIB	102	**228.2**	20.7	54.8	0.9	25.8
Pioneer	P0533AM1	105	**227.0**	22.8	56.8	0.0	27.1
Renk	RK699SSTX	105	**226.2**	24.1	55.5	0.5	24.2
NuTech/G2 Genetics	5H-805	105	225.1	21.2	55.1	0.0	25.6
NuTech/G2 Genetics	5H-502	102	223.2	22.4	55.9	0.5	24.7
Channel	203-44STX	103	221.1	22.1	55.5	0.0	27.1
Masters Choice	MCT535GT	107	219.7	25.9	52.8	3.8	25.7
NuTech/G2 Genetics	5H-905	105	218.6	19.7	54.2	0.8	27.1
Channel	201-39STX	101	217.9	21.0	55.8	0.4	26.7
NuTech/G2 Genetics	5H-806	106	216.9	23.5	54.2	0.0	25.0
Masters Choice	MCT 5663	106	215.1	22.4	53.9	0.8	27.2
Dairyland Seeds	DS-9604SSX	104	212.5	22.5	55.6	0.4	27.8
Proseed	PX101R VT3P	101	210.3	20.9	54.6	0.4	26.6
NuTech/G2 Genetics	5H-202	102	206.1	20.7	58.5	4.2	26.2
Epley	E1438VIP	104	203.6	20.7	53.9	0.8	27.1
		Trial Average	227.6	22.3	55.4	0.5	26.7
		LSD (0.05)†	20.8	1.3	1.5	1.6	1.1
		C.V.‡	6.5	4.3	1.9	-	3.0

† Yield, moisture, test weight, lodging, and plant population value required (≥LSD) to determine if hybrids are different from each other with confidence.
‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.
*Lodging percentage – stalks broken below the ear as a percentage of the final stand.