

Supplementary Materials: Fumonisin Production by *Fusarium verticillioides* in Maize Genotypes Cultivated in Different Environments

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Table S1. Analysis of joint variance for a Thousand Kernel Weight (TKW) and disease severity considering two methods of inoculation of *Fusarium verticillioides* in 10 commercial maize hybrids planted at four different localities in Brazil.

FV	TKW					Disease Severity			
	GL	QM	Fc	Ftab	F Test	QM	Fc	Ftab	F Test
BLOCK/ENVIRONMENT	8	753.64	205.67	1.98	*	0.13	1.13	1.98	NS
INOCULATION	2	13290.95	4.98	3.03	*	121.97	41.25	3.10	*
GENOTYPE	9	16437.67	6.16	1.92	*	12.18	4.12	1.99	*
INOCULATION*GENOTYPE	18	863.66	0.32	1.65	NS	1.76	0.60	1.72	NS
ENVIRONMENT	3	184416.19	53.91	2.72	*	69.90	22.72	2.70	*
ENVIRONMENT*TREATMENT1	87	2667.55	727.97	1.33	*	2.96	26.72	1.33	*
MEDIUM ERROR	232	3.66				0.11			
Average: 285.2		CV: 19.82				Average:	6.13	CV:	5.43

* Significant at the 5% level by Test F. 1 Treatment: Combination of factors levels: inoculation and genotype. NS: Not significant.

Table S2. Pearson's linear correlations below the main diagonal and p-value T test for correlation above the main diagonal between the variables Fumonisin B1 (FB1), Fumonisin B2 (FB2), Thousand Kernel Weight (TKW), disease severity (SEV), temperature maximum (°C Max) and minimum temperature (°C Min) of maize hybrids.

30K75Y	FB1	FB2	TKW	SEV.	°C Max	°C Min	Average
FB1	1	0	0	0.017	0.001	0.001	0.001
FB2	0.99*	1	0	0.003	0	0	0
MMG	-0.56*	-0.63NS	1	0	0.228	0.118	0.169
SEV.	0.40*	0.49*	-0.61*	1	0.029	0.004	0.012
°C Max	0.52*	0.56*	-0.21NS	0.36*	1	0	0
°C Min	0.54*	0.58*	-0.27NS	0.47*	0.95*	1	0
Media	0.54	0.57	-0.23	0.42	0.990195745	0.981625806	1
32R48YH							
FB1	1	0	0.098	0	0	0.002	0
FB2	0.99*	1	0.14	0	0	0.004	0
MMG	0.28NS	0.25NS	1	0.003	0.013	0.002	0.005
SEV.	0.73*	0.71*	0.47*	1	0.00	0	0
°C Max	0.70*	0.66*	0.41*	0.75*	1	0	0
°C Min	0.50*	0.47*	0.50*	0.68*	0.95*	1	0
Media	0.61	0.59	0.45	0.728	0.99	0.982	1
DKPKB240PRO2							
FB1	1	0	0.056	0.066	0.001	0.002	0.001
FB2	0.969	1	0.118	0.193	0.016	0.015	0.014
MMG	-0.32NS	-0.27NS	1	0	0.04	0.006	0.017
SEV.	0.31NS	0.222NS	-0.81*	1	0.005	0.001	0.002
°C Max	0.54*	0.40*	-0.35*	0.46*	1	0	0
°C Min	0.51*	0.40*	-0.45*	0.53*	0.95*	1	0
Media	0.54	0.41	-0.394	0.498	0.99	0.982	1

DKPDKB390PRO2							
FB1	1	0	0.227	0.372	0.006	0.144	0.026
FB2	0.919*	1	0.287	0.158	0.289	0.903	0.572
MMG	−0.21NS	−0.18NS	1	0.654	0.511	0.889	0.658
SEV.	−0.15NS	−0.24NS	−0.08NS	1	0.301	0.032	0.13
°C Max	0.45*	0.18NS	−0.11NS	0.18NS	1	0	0
°C Min	0.25NS	−0.02NS	−0.02NS	0.36*	0.96*	1	0
Media	0.37	0.10	−0.076	0.257	0.99	0.982	1
DOW30A37PW							
FB1	1	0	0	0.002	0.731	0.382	0.565
FB2	0.95*	1	0	0.016	0.222	0.138	0.177
MMG	−0.67*	−0.63*	1	0	0.039	0.029	0.032
SEV.	0.51*	0.399*	−0.60*	1	0.004	0.002	0.003
°C Max	0.06NS	0.21NS	−0.35*	0.463*	1	0	0
°C Min	0.15NS	0.25NS	−0.36*	0.508*	0.945*	1	0
Media	0.10	0.23	−0.358	0.489	0.99	0.982	1
MFRDKB310PRO2							
FB1	1	0	0.022	0	0.463	0.06	0.22
FB2	0.988*	1	0.013	0	0.712	0.112	0.373
MMG	−0.38*	−0.41*	1	0	0.067	0.082	0.069
SEV.	0.75*	0.755*	−0.68*	1	0.607	0.909	0.801
°C Max	0.126NS	0.064NS	0.309NS	−0.09NS	1	0	0
°C Min	0.317NS	0.27NS	0.294NS	0.02NS	0.945NS	1	0
Media	0.21	0.153	0.307	−0.043	0.99	0.982	1
P3250							
FB1	1	0	0.003	0.048	0	0.001	0
FB2	0.976*	1	0.009	0.043	0	0.001	0
MMG	−0.49*	−0.43*	1	0.003	0.884	0.944	0.956
SEV.	0.332*	0.339*	−0.48*	1	0.581	0.461	0.523
°C Max	0.582*	0.637*	−0.03NS	0.095NS	1	0	0
°C Min	0.52*	0.541*	0.012NS	0.127NS	0.945*	1	0
Media	0.563	0.604	−0.009	0.11	0.99	0.982	1
P3340YHR							
FB1	1	0	0.063	0	0	0	0
FB2	0.954	1	0.098	0	0.003	0	0.001
MMG	−0.31NS	−0.28NS	1	0	0.472	0.88	0.628
SEV.	0.606*	0.66*	−0.55*	1	0.53	0.206	0.364
°C Max	0.66*	0.49*	−0.12NS	0.108NS	1	0	0
°C Min	0.76*	0.60*	−0.03NS	0.216NS	0.945*	1	0
Media	0.697	0.544	−0.084	0.156	0.99	0.982	1
P3630H							
FB1	1	0	0.727	0.949	0	0.019	0.001
FB2	1	1	0.718	0.943	0	0.015	0.001
MMG	0.06NS	0.06NS	1	0.001	0.373	0.234	0.303
SEV.	0.01NS	0.01NS	−0.52*	1	0.06	0.026	0.038
°C Max	0.60*	0.603*	−0.15NS	0.32NS	1	0	0
°C Min	0.391*	0.402*	−0.24NS	0.37*	0.96*	1	0
Media	0.514	0.525	−0.177	0.347	0.99	0.982	1
P4285H							
FB1	1	0	0.06	0.008	0.07	0.167	0.099
FB2	0.98*	1	0.023	0.041	0.05	0.13	0.071
MMG	−0.32NS	−0.38*	1	0.026	0.102	0.33	0.171
SEV.	0.44*	0.342*	−0.37*	1	0.017	0.121	0.04
°C Max	0.305*	0.332*	−0.28NS	0.394*	1	0	0
°C Min	0.235NS	0.26NS	−0.17NS	0.26NS	0.945*	1	0
Media	0.279	0.305	−0.233	0.344	0.99	0.982	1