Chemical Applications Used in Field Trial for Production of Composition Samples

Supplementary Information to Report No. SSB-170-09 A2:

Compositional Analysis of Forage and Grain from Event 5307 Hybrid Maize Grown During 2008 in the USA

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Conduct of Field Trials for Production of Composition Samples

During 2008, hybrid maize plants were grown according to local agronomic practices at the following six locations in the USA, representing agricultural regions where the hybrid varieties typically would be cultivated (2008 Field Trial 08SUMGSFR1A-5307-08-101):

Location Code	City and State	Location Identifier
L1	Stanton, MN	Stanton 4536
L2	Janesville, WI	Janesville 5629
L4	New Haven, IN	New Haven 6742
L6	Shirley, IL	Shirley 7630
L7	Marshall, MO	Marshall 8409
L8	Bloomington, IL	BLM 761N

At each location, Event 5307 maize and the corresponding nontransgenic maize were grown in a randomized complete block design, with three replicate plots for each genotype.

The 5307 maize and the nontransgenic maize were treated with conventional pesticides as needed to maintain optimal plant health. A summary of the chemical applications is shown in Table S1.

Table S1. Application of Maintenance Chemicals for Field Trial for Composition Study 5307-08-101

		Maintenance Chemicals			
Location number	**Planting date**	**Maintenance Chemicals**	**Active Ingredient**	**Application Date**	**Application Stage**
L1	04-Jun-08	Outlook 14 oz/A	dimethenamid-P	30-Apr-2008	Preplant
		Lumax® 2.5 qt/A	S-metolachlor, Atrazine, Mesotrione	10-Jun-2008	Pre-emerge to spike
L2	21-May-08	Lumax®	S-metolachlor, Atrazine, Mesotrione	15-May-2008	Preplant
		Dual II Magnum®	S-metolachlor		
L4	25-May-08	Bicep II Magnum® 2.58 qt/A	S-metolachlor, Atrazine	12-Jun-2008	V2
		Accent 0.33 oz/A	Nicosulfuron		
		Atrazine 1 qt/A	Atrazine		
		Northstar® 5 oz/A	Primisolfuron-methyl, Dicamba	25-Jun-2008	V6
L6	06-Jun-08	Callisto® 3 oz/A	Mesotrione	1-Jul-2008	V6
		Atrazine 1 pt/A	Atrazine		
		Accuquest 6.4 oz/A	Proprietary blend of ammonium polyacrylates, hydroxy carboxylates, sulfates, and polymeric deposition agents		
L7	21-May-08	Force® 3G 4.4 lb/A	Tefluthrin	21-May-2008	At planting
		Lumax® 3 qt/A	S-metolachlor, Atrazine, Mesotrione	22-May-2008	Pre-emerge
		Atrazine 1 qt/A	Atrazine		
L8	02-Jun-08	Callisto® 3 oz/A	Mesotrione	29-Jun-2008	V6
		Atrazine 1 pt/A	Atrazine		
		Accuquest 6.4 oz/A	Proprietary blend of ammonium polyacrylates, hydroxy carboxylates, sulfates, and polymeric deposition agents		

liter/ha = pint/A x 1.1692 = quart/A x 2.3385 = oz/A x 0.073075

kg/ha = lb/A x 1.12