

Supplementary data for the article:

Mesarović, J.; Srdić, J.; Mladenović-Drinić, S.; Dragičević, V.; Simić, M.; Brankov, M.; Milojković-Opsenica, D. Evaluation of the Nutritional Profile of Sweet Maize after Herbicide and Foliar Fertilizer Application. *J. Cereal Sci.* **2019**, *87*, 132–137. <https://doi.org/10.1016/j.jcs.2019.03.017>

Table S1. Carotenoids concentration^a (µg/g DW) in sweet maize kernel after applied treatments.

Treatment	ZP504su			ZP355su			ZP553su		
				Lutein + zeaxanthin					
Control	25.72	±	1.06 ^c	11.08	±	0.43 ^h	19.25	±	0.84 ^f
Mesotrione	35.33	±	0.82 ^b	6.54	±	0.53 ⁱ	24.23	±	1.14 ^e
Nicosulfuron	30.79	±	0.48 ^c	20.07	±	0.41 ^f	15.91	±	0.86 ^g
Mesotrione+FF	39.30	±	1.19 ^a	10.74	±	0.42 ^h	25.46	±	1.04 ^e
Nicosulfuron+FF	28.63	±	0.90 ^d	15.56	±	0.36 ^g	19.93	±	0.94 ^f
				<i>β</i> -carotene					
Control	0.92	±	0.04 ^{hi}	0.45	±	0.02 ⁿ	1.01	±	0.04 ^{gh}
Mesotrione	2.35	±	0.06 ^b	0.76	±	0.03 ^{jk}	1.43	±	0.05 ^e
Nicosulfuron	1.23	±	0.02 ^f	1.02	±	0.06 ^g	0.65	±	0.08 ^{lm}
Mesotrione+FF	2.83	±	0.06 ^a	0.59	±	0.01 ^m	1.69	±	0.01 ^d
Nicosulfuron+FF	1.87	±	0.05 ^c	0.84	±	0.03 ^{ij}	0.71	±	0.07 ^{kl}

^aconcentrations are expressed as mean values (n=3) ± standard deviation (SD); Means followed by different letter are significantly different based on Fisher's least significant difference test at $\alpha = 0.05$ level.

Table S2. Tocopherols concentration^a (µg/g DW) in sweet maize kernel after applied treatments.

Treatment	ZP504su			ZP355su			ZP553su		
				<i>δ</i> -tocopherol					
Control	0.36	±	0.01 ^g	0.74	±	0.04 ^d	0.69	±	0.01 ^d
Mesotrione	0.84	±	0.02 ^c	0.53	±	0.03 ^e	0.71	±	0.01 ^d
Nicosulfuron	0.43	±	0.02 ^{fg}	0.94	±	0.02 ^b	0.50	±	0.04 ^e
Mesotrione+FF	0.96	±	0.02 ^b	0.48	±	0.03 ^{ef}	0.98	±	0.04 ^b
Nicosulfuron+FF	0.54	±	0.04 ^e	1.23	±	0.03 ^a	0.40	±	0.01 ^g
				<i>β+γ</i> -tocopherol					
Control	7.97	±	0.05 ^g	6.98	±	0.03 ⁱ	6.15	±	0.05 ^k
Mesotrione	11.06	±	0.22 ^e	4.48	±	0.08 ^l	7.43	±	0.07 ^h
Nicosulfuron	6.53	±	0.09 ^j	8.85	±	0.28 ^f	23.02	±	0.18 ^a
Mesotrione+FF	13.63	±	0.05 ^c	6.95	±	0.19 ⁱ	8.82	±	0.05 ^f
Nicosulfuron+FF	7.62	±	0.27 ^h	12.37	±	0.28 ^d	18.19	±	0.06 ^b
				<i>α</i> -tocopherol					
Control	1.53	±	0.01 ^{gh}	2.15	±	0.00 ^f	3.15	±	0.03 ^b
Mesotrione	2.41	±	0.01 ^r	2.10	±	0.07 ^f	2.98	±	0.08 ^c
Nicosulfuron	1.03	±	0.01 ^j	2.98	±	0.02 ^c	1.21	±	0.01 ⁱ
Mesotrione+FF	2.70	±	0.02 ^d	1.60	±	0.03 ^g	2.63	±	0.06 ^d
Nicosulfuron+FF	1.02	±	0.07 ^j	3.68	±	0.08 ^a	1.49	±	0.06 ^h

^aconcentrations are expressed as mean values (n=3) ± standard deviation (SD); Means followed by different letter are significantly different based on Fisher's least significant difference test at $\alpha = 0.05$ level.

Table S3. Free phenolic acids concentration^a ($\mu\text{g/g}$ DW) in sweet maize kernel after applied treatments.

Treatment	ZP504su			ZP355su			ZP553su		
					Protocatechuic acid				
Control	36.69	±	0.82 ^d	29.14	±	1.02 ^{fg}	27.55	±	0.70 ^{gh}
Mesotrione	36.55	±	0.35 ^d	39.80	±	1.04 ^c	43.44	±	1.04 ^b
Nicosulfuron	30.18	±	2.55 ^f	32.71	±	1.25 ^e	24.56	±	0.64 ⁱ
Mesotrione+FF	42.08	±	0.15 ^b	39.94	±	0.23 ^c	48.40	±	1.32 ^a
Nicosulfuron+FF	37.57	±	0.49 ^d	26.61	±	2.34 ^h	33.18	±	0.81 ^e
				Caffeic acid					
Control	0.56	±	0.01 ⁿ	1.23	±	0.03 ^j	1.50	±	0.04 ^d
Mesotrione	1.04	±	0.02 ^l	1.20	±	0.03 ^k	1.49	±	0.04 ^e
Nicosulfuron	0.41	±	0.00 ^o	1.31	±	0.03 ⁱ	1.71	±	0.04 ^c
Mesotrione+FF	1.46	±	0.04 ^g	1.95	±	0.05 ^a	1.72	±	0.05 ^b
Nicosulfuron+FF	0.81	±	0.02 ^m	1.47	±	0.04 ^f	1.41	±	0.03 ^h
				<i>p</i> -Coumaric acid					
Control	9.89	±	0.21 ^{jk}	9.70	±	0.24 ^k	23.76	±	0.60 ^a
Mesotrione	11.37	±	0.15 ^{gh}	11.16	±	0.27 ^h	11.65	±	0.28 ^g
Nicosulfuron	10.62	±	0.24 ⁱ	10.02	±	0.26 ^j	19.64	±	0.51 ^b
Mesotrione+FF	12.00	±	0.28 ^f	15.51	±	0.40 ^c	12.69	±	0.35 ^e
Nicosulfuron+FF	9.21	±	0.23 ^l	13.42	±	0.35 ^d	19.67	±	0.48 ^b
				Ferulic acid					
Control	19.04	±	0.19 ^f	16.79	±	0.16 ^{jk}	17.16	±	0.25 ^{ij}
Mesotrione	17.44	±	0.19 ⁱ	21.86	±	0.28 ^c	16.73	±	0.16 ^k
Nicosulfuron	18.96	±	0.21 ^f	23.09	±	0.26 ^b	18.94	±	0.31 ^f
Mesotrione+FF	21.02	±	0.44 ^d	20.63	±	0.27 ^e	18.53	±	0.23 ^{gh}
Nicosulfuron+FF	18.74	±	0.22 ^{fg}	25.38	±	0.24 ^a	18.20	±	0.20 ^h
				Cinnamic acid					
Control	1.81	±	0.04 ^m	5.62	±	0.14 ^e	5.20	±	0.13 ^g
Mesotrione	3.05	±	0.07 ^k	5.35	±	0.15 ^f	3.47	±	0.09 ^j
Nicosulfuron	0.50	±	0.01 ^o	7.20	±	0.17 ^c	4.87	±	0.11 ^h
Mesotrione+FF	4.18	±	0.11 ⁱ	9.68	±	0.23 ^a	2.31	±	0.06 ^l
Nicosulfuron+FF	1.19	±	0.03 ⁿ	8.69	±	0.22 ^b	5.89	±	0.13 ^d

^aconcentrations are expressed as mean values (n=3) ± standard deviation (SD); Means followed by different letter are significantly different based on Fisher's least significant difference test at $\alpha = 0.05$ level.