

Tab 1. Characteristic of localization, fertilizers regime and plant protection used for organic and conventional cultivation of tomatoes (average value for 2008-2009)

Farm	Localization	Type of soil	Fertilizers	Plant protection system	fertilization range (kg ha ⁻¹)					
					N	P	K	Mg	Ca	Micro elements
organic farm no.1	Kaszewska Wola /51°30' N 20°55' E/	sandy- loamy, middle soil III category 40% (floatable particles) pH 7.2	green manure (50t ha ⁻¹), Patentkali (P:S 30:10) basaltic flour, Humobak (mixture of bacteria and soil fungi)	Bioczos BR (garlic ekstrakt), Antifung 20 SL	140	30	205	90	130	yes
organic farm no.2	Radzanów /51°56' N 20°05' E/	sandy- loamy, slight soil II category 35% (floatable particles) pH 7.1	compost 60%, Biohumus	Grevit 200 SL	180	60	140	90	160	yes
non-organic farm no.1	Kaszewska Wola /51°19' N 20°58' E/	sandy-clay, slight soil II category 20% (floatable particles) pH 7.0	cow manure (15t ha ⁻¹), organic chalk, calcium and magnesium nitrate	Sumilex 500 SC	220	100	170	60	220	no
non-organic farm no.2	Sewerynow /51°28' N 20°54' E/	sandy- loamy, slight soil II category 15% (floatable particles) pH 6.9	Polidap (N:P:S 18:46:5), Grandar (N:P:K 3:9:19)., Nitrofosfate	Mospilan 20 SP (acetamipiryde) Betoksan S 050 SL (2-naftoxyacetic acid)	300	210	140	35	480	yes