

Table S1. Chemical plant protection during the growing seasons

Plant Protection Product		Dose	Application Date
Soybean			
Seed dressing	T75 DS/WS [thiuram (a compound from the dithiocarbamate group) -750 g·kg ⁻¹]	2g·kg ⁻¹ seeds	Before sowing
	Nitragin	300 g·ha ⁻¹	Before sowing
Herbicide	Roundup 360 SL [glyphosate (a compound from the amino phosphonic acid group) as potassium salt - 360 g·dm ⁻³].	1.5 dm ³ ·ha ⁻¹	Before emergence
	Corum 502.4 SL [bentazon (a compound from the diazine group) - 480 g·dm ⁻³ ; imazamox (a compound from the imidazolinone group) - 22.4 g·dm ⁻³]	1.25 dm ³ ·ha ⁻¹	BBCH 12–25
Adjuvant	Dash HC [methyl oleate - 348.75 g·dm ⁻³ ; fatty alcohol (alkoxylated phosphoric acid ester) - 209.25 g·dm ⁻³]	1.0 dm ³ ·ha ⁻¹	BBCH 12–25
Winter wheat			
Seed dressing	Scenic 080 FS [prothioconazole (a substance of the triazole group) – 37.5 g·dm ⁻³ ; fluoxastrobin (a substance) of the strobilurin group) – 37.5 g·dm ⁻³ tebuconazole (a substance of the triazole group) – 5 g·dm ⁻³]	1 ml·kg ⁻¹ seeds	Before sowing
Herbicide	Axial 50 EC [pinoxaden (a compound of the phenylpyrazolin group) – 50 g·dm ⁻³].	0.9 dm ³ ·ha ⁻¹	BBCH37
	Mustang 306 SE [florasulam (a substance of the triazolopyrimidine group) – 6.25 g·dm ⁻³ ; 2,4-D (a substance belonging to the group of phenoxyacids) – 300 g·dm ⁻³]	0.6 dm ³ ·ha ⁻¹	BBCH 12–32
	Capalo 337.5 SE [fenpropimorph (a compound of the morpholine group) – 200 g·dm ⁻³ ; epoxiconazole a compound of the triazole group) – 62.5 g·dm ⁻³ ; metraphenone (a compound of the diphenyl ketone group of derivatives) – 75 g·dm ⁻³]	2.0 dm ³ ·ha ⁻¹	end of tillering
Fungicide	Optan 183 SE [pyraclostrobin (a substance of the strobilurin group) – 133 g·dm ⁻³ ; epoxiconazole (a substance of the triazole group) – 50 g·dm ⁻³]	1.5 dm ³ ·ha ⁻¹	BBCH 25–69
	Caramba 60 SL [metconazole (a compound of the triazole group) – 60 g·dm ⁻³]	1.5 dm ³ ·ha ⁻¹	BBCH 30–59
	Tebu 250 EW [tebuconazole (a compound of the triazole group) – 250 g·dm ⁻³]	1.0 dm ³ ·ha ⁻¹	BBCH 30–59
Insecticide	Cyperkill max 500 EC [cypermethrin (a compound of the pyrethroid group) – 500 g·l ⁻¹]	0.05 dm ³ ·ha ⁻¹	BBCH 30–59
Maize			

Seed dressing	ALIOS 300 FS [triticonazole (a compound of the triazole group) – 300 g·dm ⁻³]		
	Roundup 360 SL [glyphosate (a compound from the amino phosphonic acid group) as potassium salt – 360 g·dm ⁻³] and ammonium sulphate (21%N; 24%S)	4.0 dm ³ ·ha ⁻¹ and 5.0 kg·ha ⁻¹	Spring
Herbicide	Lumax 537,5 SE [mesotrione (a compound of the group of triketones) – 37.5 g·dm ⁻³ ; s-metolachlor (a compound of the chloroacetoanilide group) – 312.5 g·dm ⁻³ ; terbuthylazine (a compound of the triazine group) – 187.5 g·dm ⁻³]	4.0 dm ³ ·ha ⁻¹	Before emergence
	Ikanos 040 OD [nicosulfuron (a compound of the group of sulfonylurea derivatives) – 40 g·dm ⁻³]	1.0 dm ³ ·ha ⁻¹	Before emergence