

Responsible partner: Estonian University of Life Sciences

Contact person:

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Biogeographical type: Nemoral to Boreal

Area description, history and existing data:

No previous soil microplastic assessment. Sellers collect big bags and agricultural plastic.



Farms description:

Farm # (Management)	Main crop per field (Cropping system category)	Soil texture	Plastic use history (intentional)	Secondary sources of plastic	Other potential contaminants
1. (Conv)	1. Cucumber (V) 2. Red clover (V)	sandy loam	plastic mulch and cover	irrigation system, mineral fertilizers	road, pesticides
2. (Org)	1. Rubarb (V) 2. Fallow (V)	sandy loam	plastic mulch	Irrigation, organic fertilizers	no
3. (Conv)	1. Oil rape (V) (strawberry) 2. Grass (C)	loamy sand	plastic mulch	Irrigation system	pesticides
4. (Trans)	1. Strawberry (V) 2. Phacelia (V)	sandy loam, loam	plastic mulch	Irrigation system	road, company near by
5. (Conv)	1. Winter wheat (C) 2. Winter wheat (C)	sandy loam	no	biowaste compost	pesticides
6. (Conv)	1. Pea (C) 2. Winter wheat (C)	loamy sand	no	Biowaste compost	pesticides
7. (Org)	1. Grass (C) 2. Grass (C)	loamy sand	no	>5 years compost	no
8. (Conv)	1. Winter wheat (V) 2. Strawberry (V)	sandy loam	plastic mulch	irrigation, mineral fertilizers	pesticides
9. (Conv)	1. Spring barley 2. Winter wheat	sandy loam	no	biowaste compost	pesticides
10. (Conv)	1. Fallow (V) 2. Grass (C)	sandy loam	plastic mulch, cover, pots	Irrigation system	pesticides
11. (Conv)	1. Corn (C) 2. Corn (C)	sandy loam	no	organic fertilizers (slurry)	road, pesticides
12. (Org)	1. Pea (V) (potato) 2. Pea (C)	sandy loam	no	organic fertilizers (manure)	no

Main challenge encountered : Timing with farmers



Cucumber, farm 1



Pea field, farm 6



Corn, farm 11

Stakeholders: Baltic Agro, Agricultural Research Center

