



SoilCare

SOILCARE FOR PROFITABLE AND SUSTAINABLE
CROP PRODUCTION IN EUROPE



COMPOST TRIAL

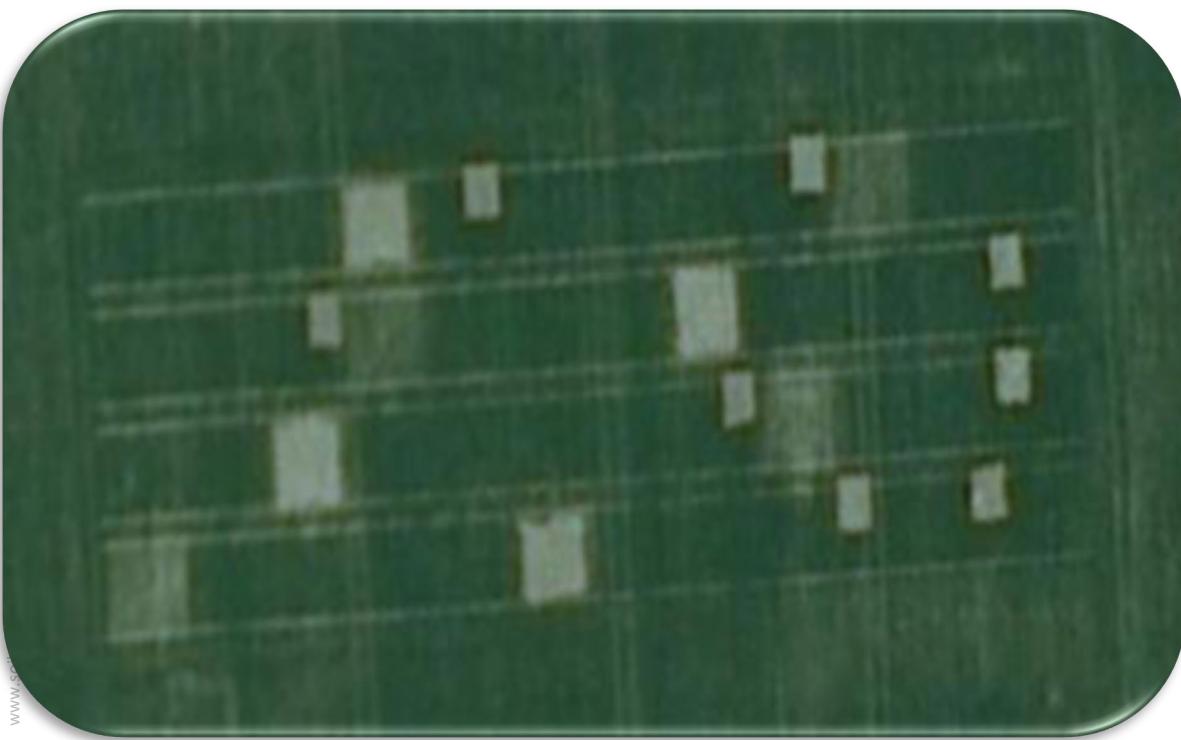
since 1997

winter wheat – sugar beet – potato –
onion – carrot

4 replicates



fallow
unfertilized
mineral fertilized
compost fertilized
15-30-45 ton/ha
1-2-3 years



ORGANIC SOIL AMENDMENT TRIAL



since 2017

winter wheat – winter barley (+ turnips) – potato

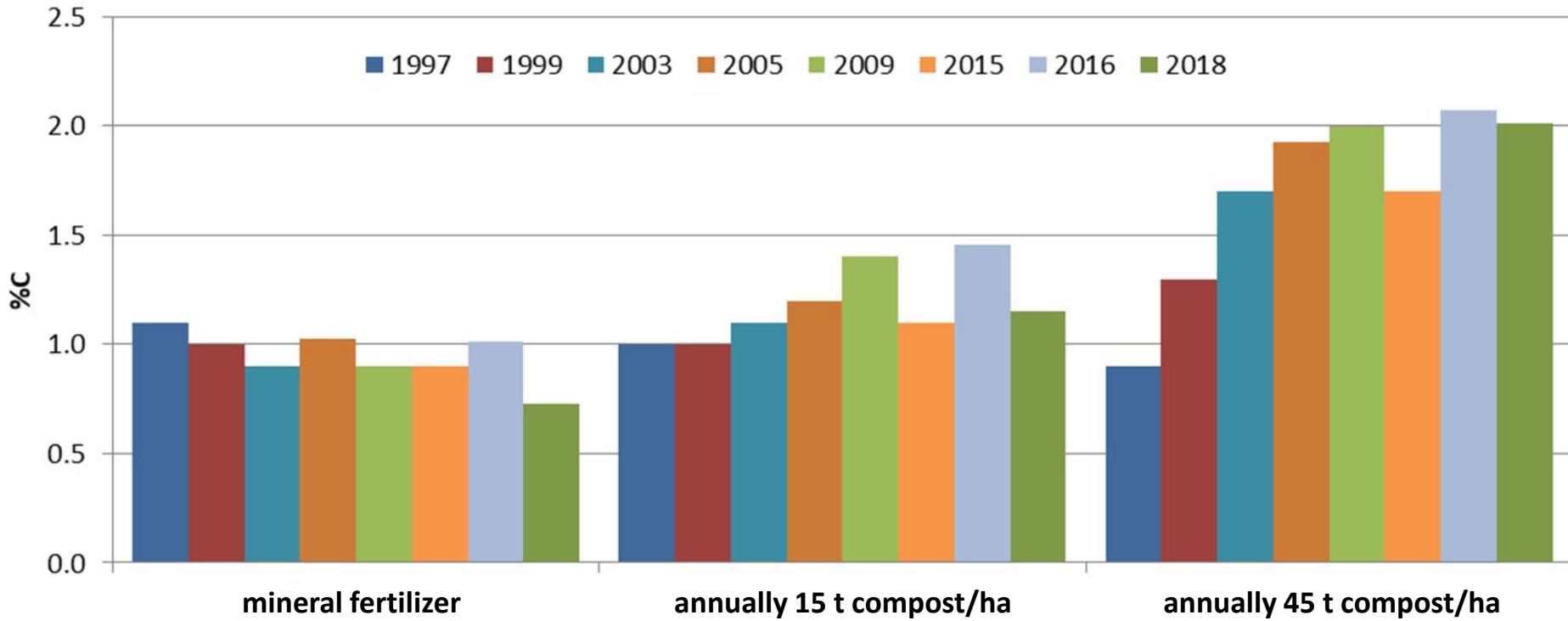
4 replicates



wood chips
compost
solid pig manure
mineral fertilizer

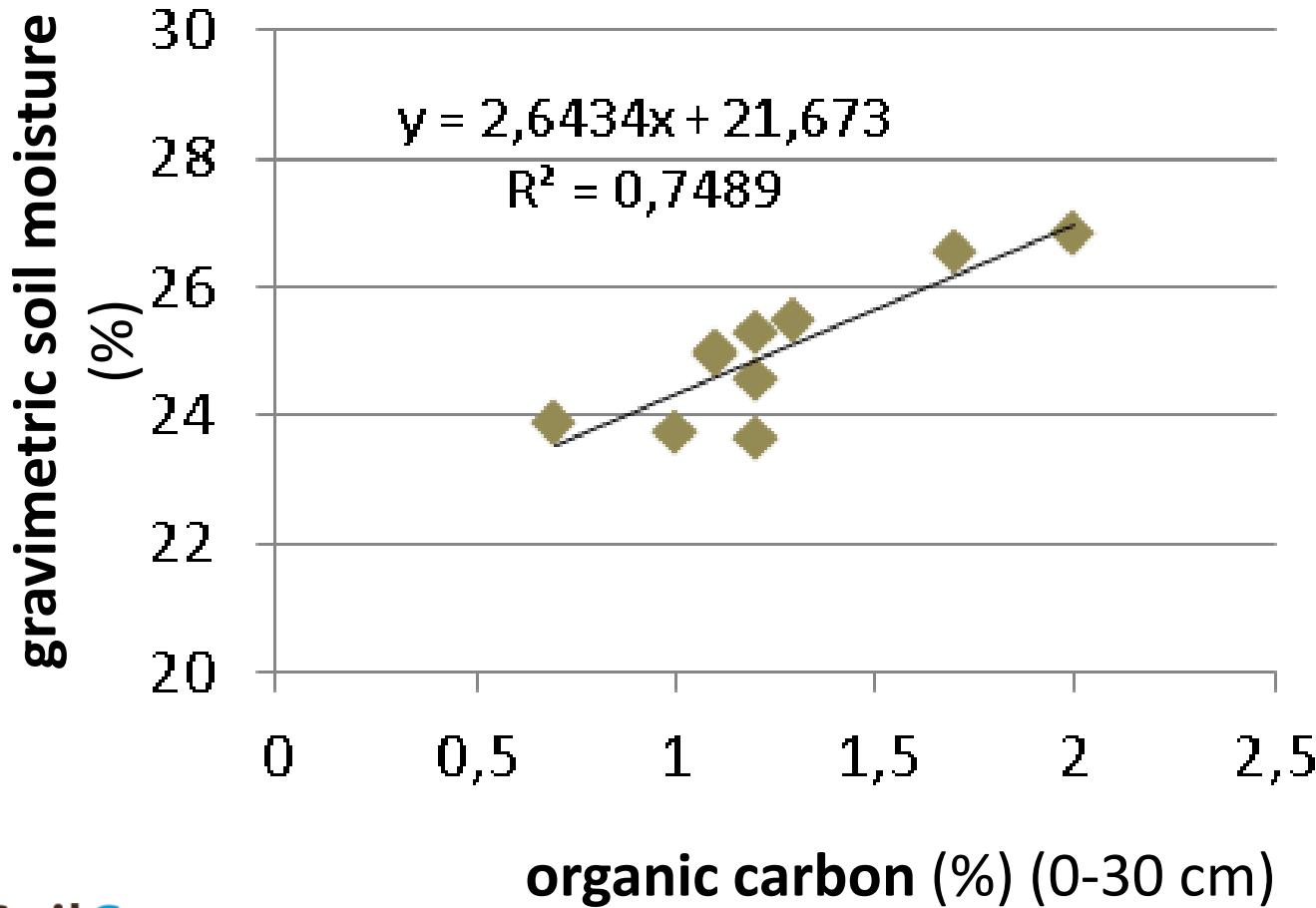


Carbon increase = slow



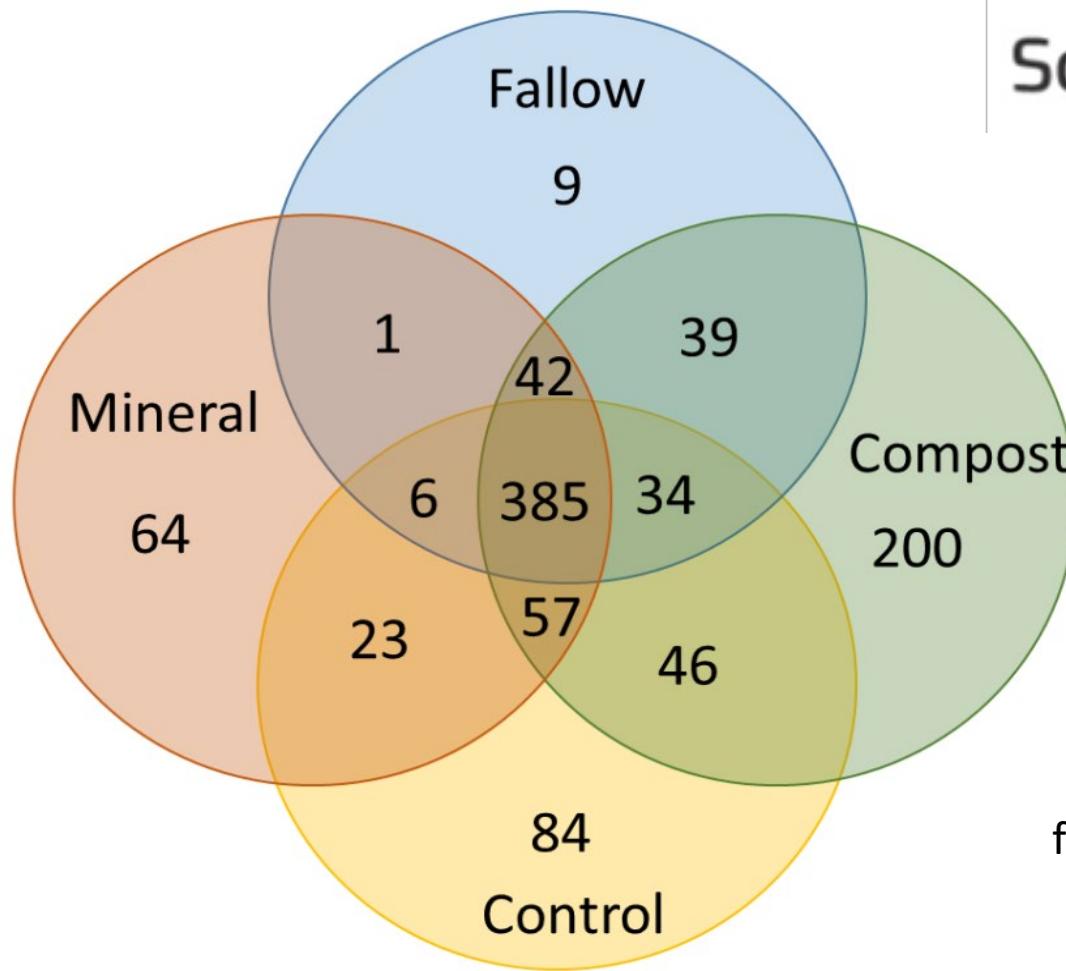


Carbon ↑ = ↑ water retention





Carbon ↑ = ↑ soil biodiversity



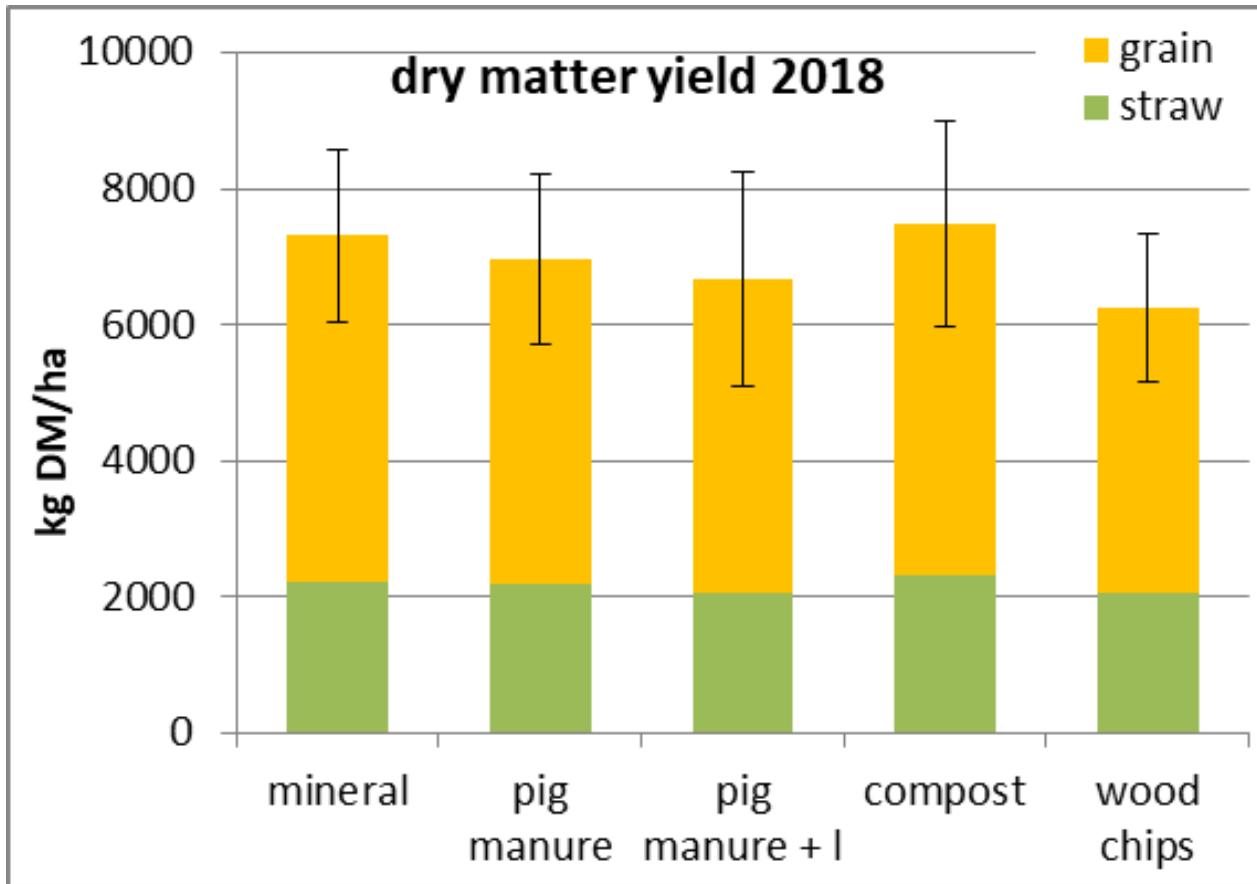
fungal metabarcoding
(ITS-region)

Wood chips = crop emergence ↓



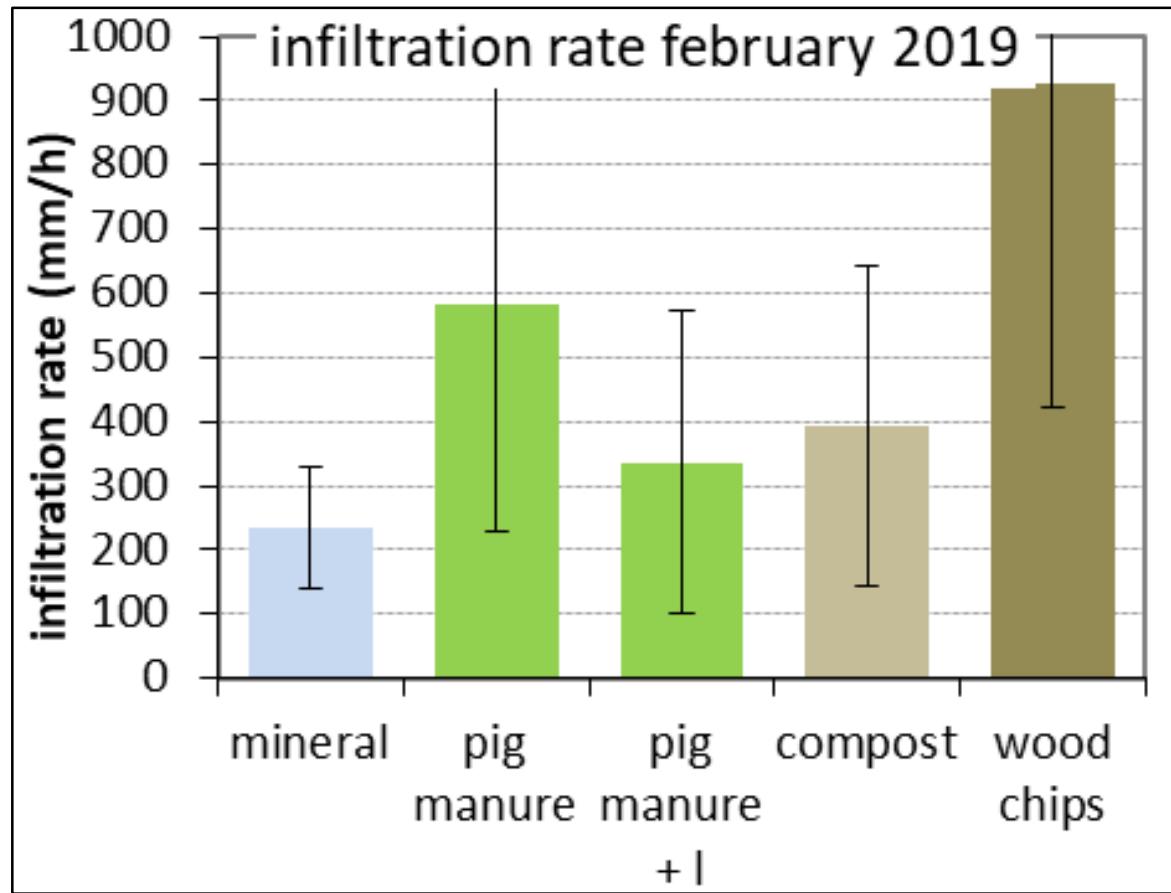


No effects on yield





Wood chips = ↑ infiltration





Benefits & barriers

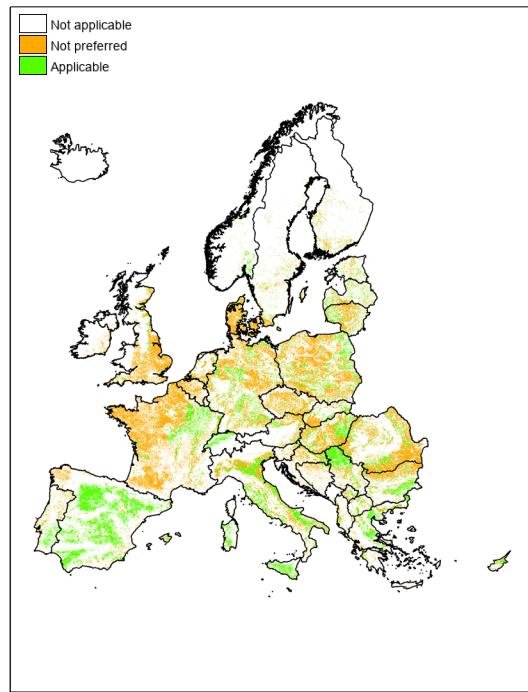
COMPOST

- + increase OM / soil Q
- additional cost
- legislation (high P)

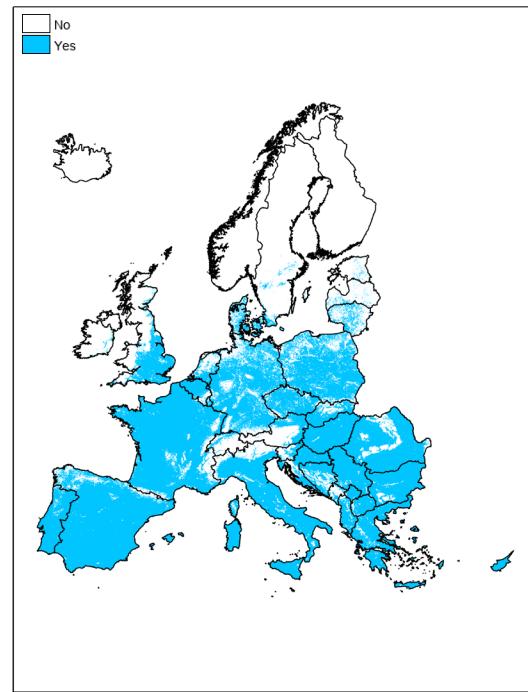
WOODCHIPS

- + legislation (low N/P)
- availability
- cost
- waste legislation

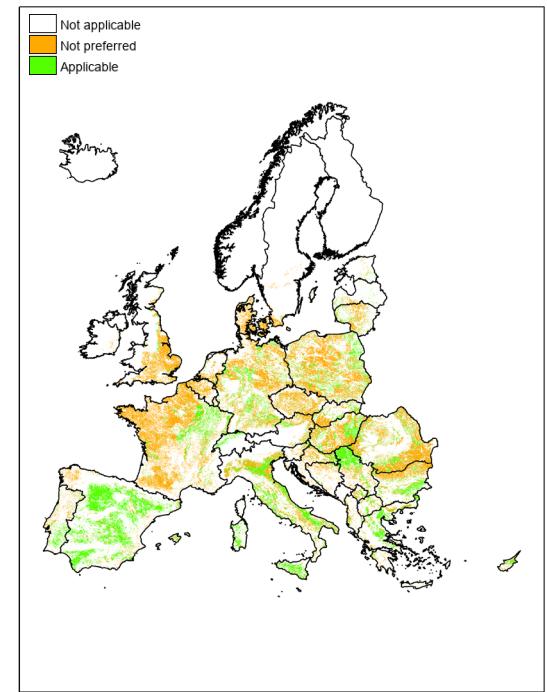
Overall applicability
Organic amendments
Europe



Relevance
Organic amendments
Europe



Combined
Organic amendments
Europe





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