



The Idea behind the Viva Grass Tool and how it integrates the ES approach.

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LIFE Viva Grass LIFE13 ENV/LT/000189

2019

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Viva Grass basemap

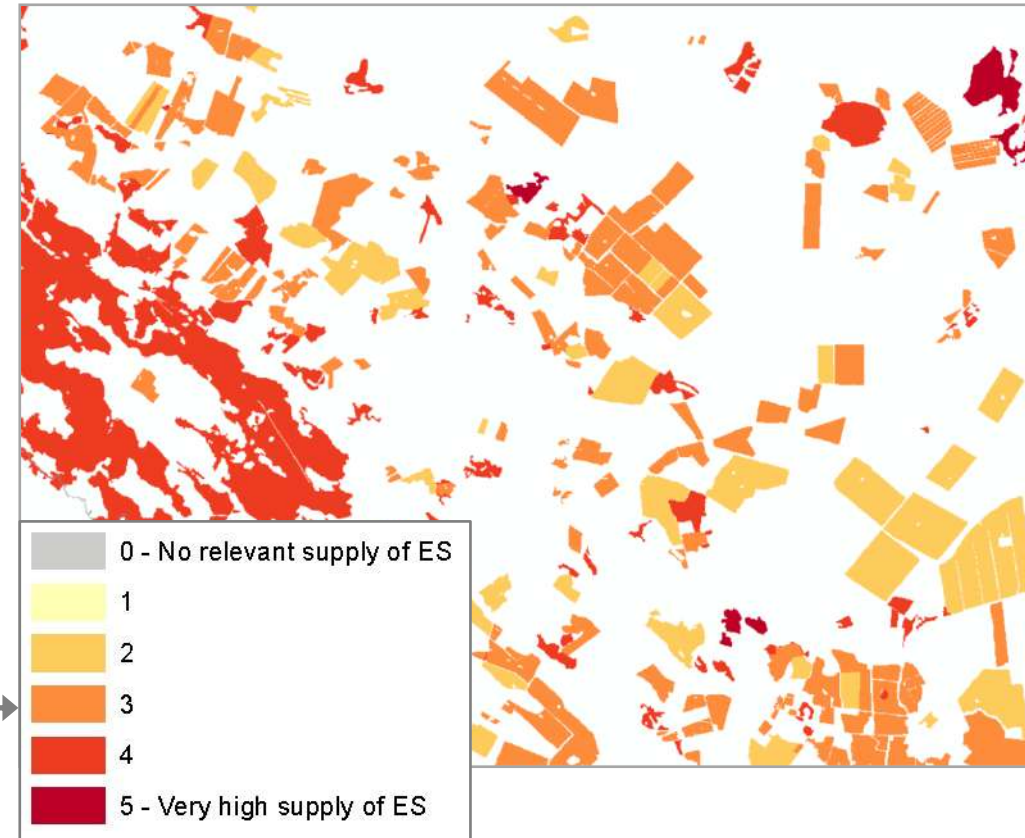
Grasslands types map



Matrix for expert-based assessment

Land category	Provisioning				
	Cultivated crops (t/ha per year)	Reared animals and their outputs Number of animals units (n/ha)	Fodder Standing stock (t/ha per year)	Biomass-based energy sources Standing stock (t/ha per year)	Herbs for medicine (number of species/m ²)
1. Cultivated grassland on plain relief, low soil fertility	0	3	2	2	1
2. Cultivated grassland on plain relief, medium soil fertility	0	4	3	3	1
3. Cultivated grassland on plain relief in, high soil fertility	0	5	4	4	1
4. Cultivated grassland on plain relief, organic soils	0	4	3	3	1
5. Cultivated grassland on gentle slope in low soil fertility	0	3	2	2	1
6. Cultivated grassland on gentle slope, medium soil fertility	0	4	3	3	1
7. Cultivated grassland on gentle slope, high soil fertility	0	5	4	4	1
8. Cultivated grassland on gentle slope, organic soil	0	4	3	3	1
9. Cultivated grassland on steep slope low soil fertility	0	3	2	2	1
10. Cultivated grassland on steep slope, medium soil fertility	0	4	3	3	1

ES supply capacity map



Viva Grass Tool modules

Viva Grass basemap

Viva Grass Viewer

Viva Grass BioEnergy

Viva Grass Planner




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Viva Grass Viewer (http://bit.ly/VG_viewer)



Viva Grass Viewer

The project "Integrated planning tool to ensure viability of grasslands" (LIFE Viva Grass) No LIFE13 ENV/LT/000189 is co-financed by the EU LIFE- Programme, Ministry of Environment of the Republic of Lithuania, Latvian Environmental Protection...



Layers

- Protected areas
- Natura2000 Sites
- VivaGrass overview
- Abandoned land in Lithuania

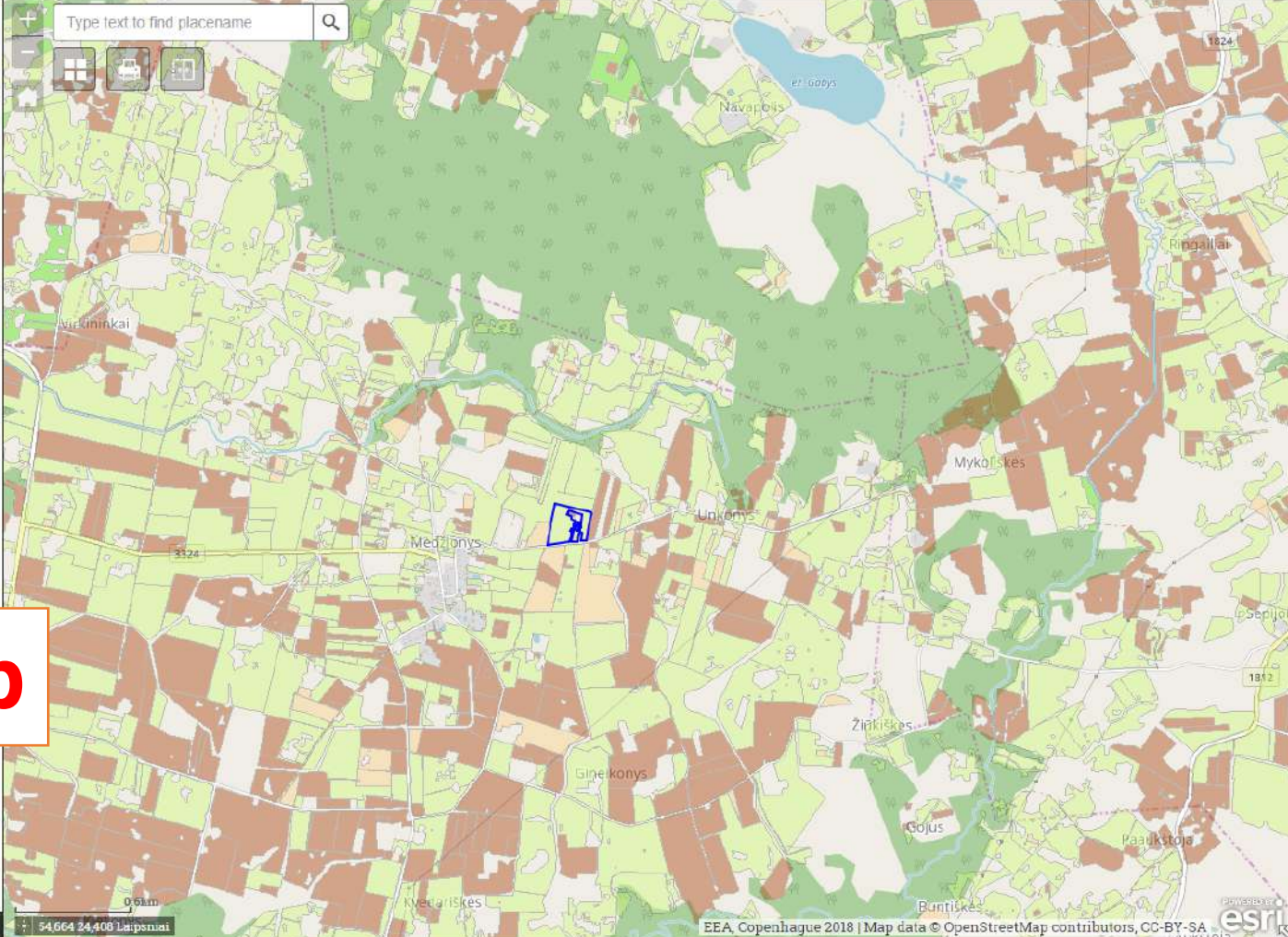
Agricultural land use

- Cultivated grassland
- Permanent grassland
- Semi-natural grassland
- Arable land

Ecosystem services

Bundles and tradeoffs

Hotspots and coldspots



Land use block information

Location: Prienuj 1. sav., Lithuania

Grassland type: 16. Permanent grassland on gentle slope, medium soil fertility

Natura 2000 habitat code:

Bundle / Ecosystem service

ES value change when applying land use change

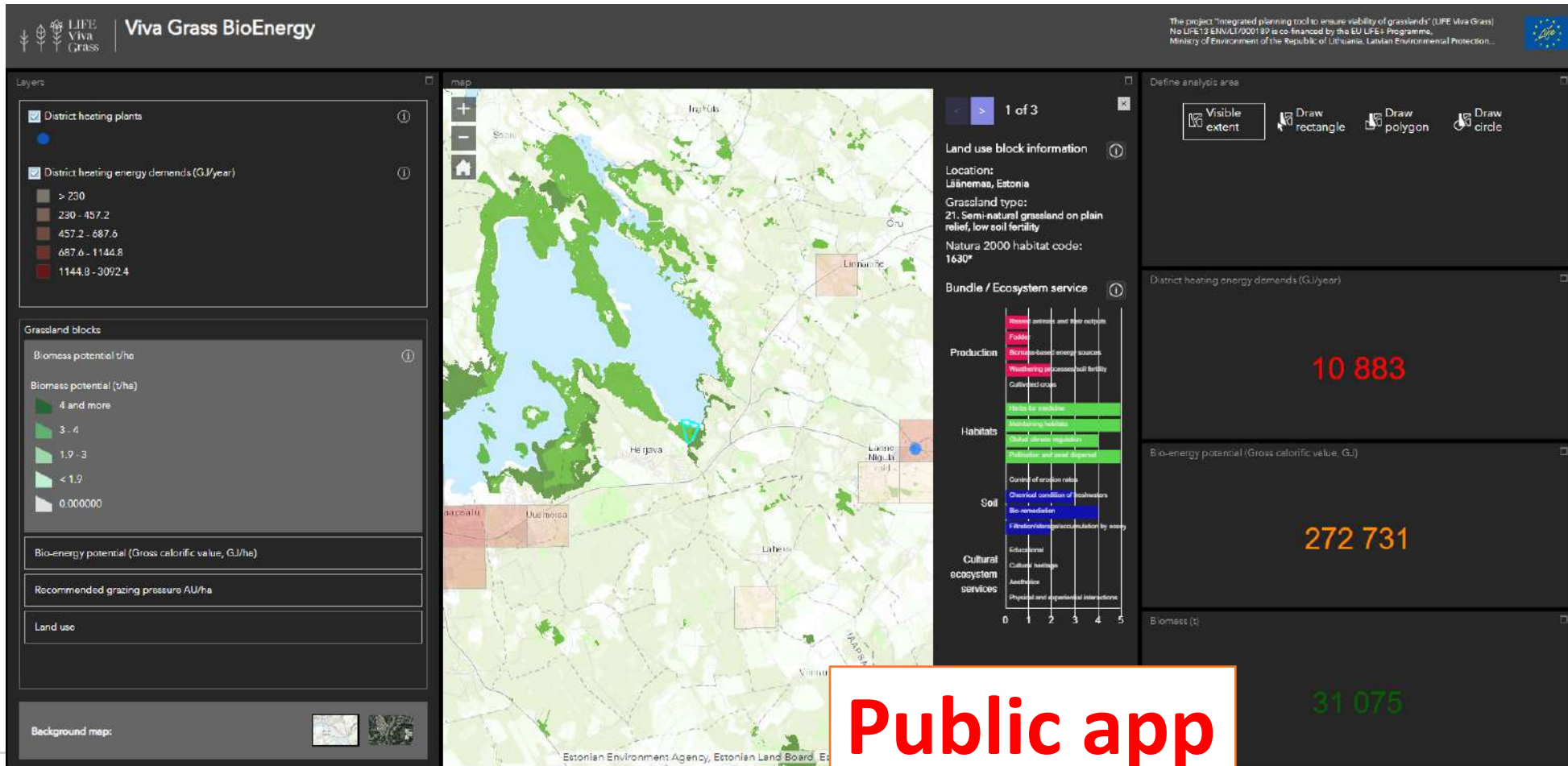
Service	To Cultivated	To Permanent	To Semi-natural	To Arable
Production	4.5	3.5	2.5	1.5
Habitats	2.5	3.5	4.5	5.5
Soil	3.5	4.5	5.5	6.5
Cultural ecosystem services	1.5	2.5	3.5	4.5

Recommendations:

The most appropriate management is moderate grazing because of low grass productivity, but under wet soil conditions are suitable mown of grass biomass with grazing in the aftermath or without. There are a moderate biological diversity value, capacity to retain soil quality and potential of carbon sequestration, but high potential of chemical absorption. Grassland have quit important role of control of erosion, therefore recommended for use management methods without deep soil treatment.

Public app

Viva Grass Bio-energy (<http://bit.ly/bioEnergy>)



Viva Grass Planner

(<http://bit.ly/VGplanner>)

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Agricultural land use: 12. Permanent grassland on plain relief, medium soil fertility

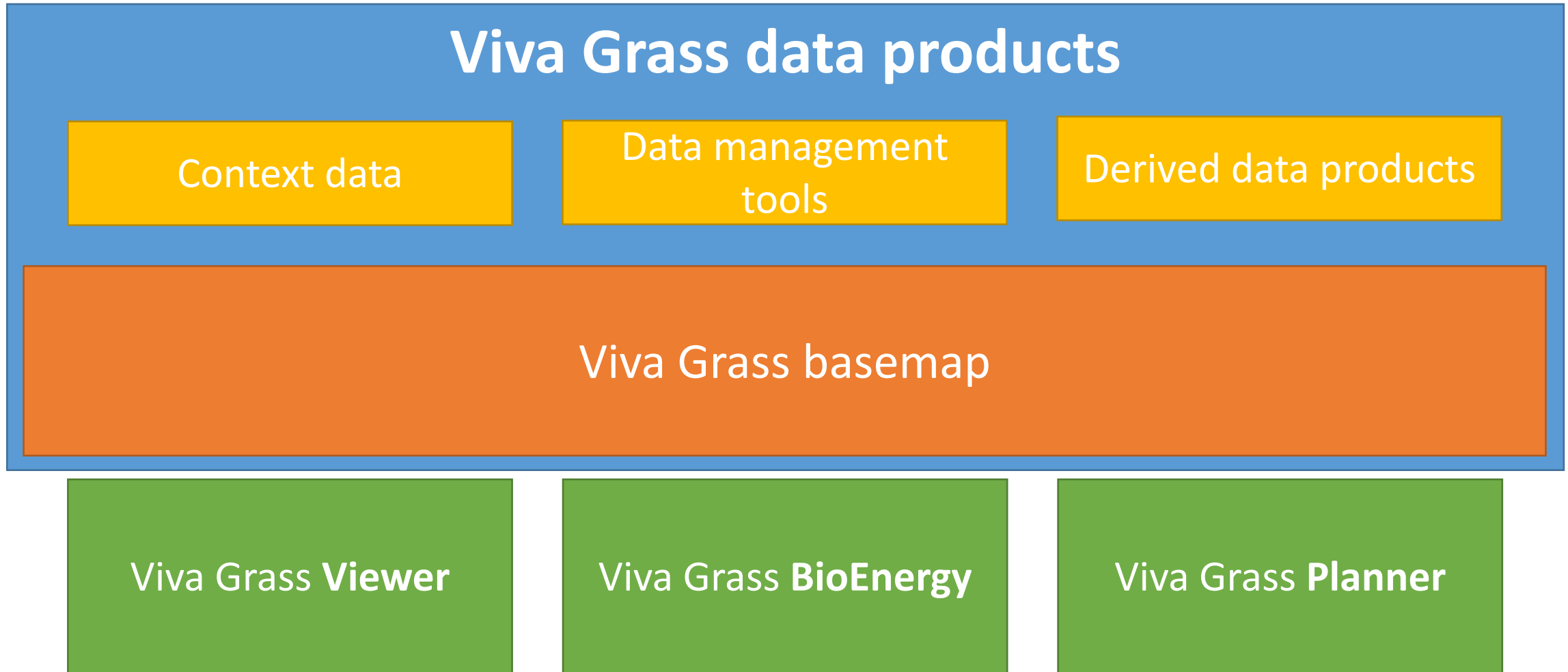
BLOCK ID	46494
Grassland category	12. Permanent grassland on plain relief, medium soil fertility
Slope category	
Soil category	
Land category	Permanent grassland
Land use	Permanent grassland
Natura 2000 category	
Protected area I/O	1
Country code	LV
Municipality code	LV0420200
Reared animals and their outputs ESS	3
Fodder ESS	2
Biomass-based energy sources	2
Herbs for medicine	2
Control of (water) erosion rates	0
Maintaining habitats	3
Weathering processes/soil fertility	3
Chemical condition of freshwaters	4

GRASSLAND CATEGORY	REARED ANIMALS AND FODDER ESS	BIOMASS-BASED ENERGY	HERBS FOR MEDICINE	CONTROL OF (WATER)	MAINTAINING HABITATS	WEATHERING PROCESSES/SOI	CHEMICAL CONDITION OF	GLOBAL CLIMATE	CULTIVATED CROPS	BIO-REMEDIATION	FILTRATION/SO	POLLINATION AND SEED	COUNT CODE	
12. Permanent grassland on plain	3	2	2	2	0	3	3	4	3	0	4	3	4	LV
12. Permanent grassland on plain	3	2	2	2	0	3	3	4	3	0	4	3	4	LV
12. Permanent grassland on plain	3	2	2	2	0	3	3	4	3	0	4	3	4	LV
6. Cultivated grassland on gentle	4	3	3	1	2	2	3	3	2	0	3	3	2	LV
32. Arable land on plain relief	0	4	4	1	0	1	2	2	1	3	1	2	1	LV
16. Permanent grassland on gentle	3	2	2	2	3	3	3	4						
11. Permanent grassland on plain	2	1	1	3	0	4	2	3						
11. Permanent grassland on plain	2	1	1	3	0	4	2	3						
16. Permanent grassland on gentle	2	1	1	3	4	4	2	3						
4. Permanent grassland on plain	4	3	3	1	0	3	3	4						

App for specialists



Viva Grass Tool



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GRASSLANDS

We aim to support maintenance of biodiversity and ecosystem services provided by grasslands, through encouraging ecosystem based planning and economically viable grassland management.

[READ MORE](#)



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Thank you.

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