

SUPPLEMENTARY MATERIALS

Pasture management to reduce the risk of *Acer pseudoplatanus* poisoning while preserving ecological sustainability

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SUPPLEMENTARY TABLE S1

Table S1. List of the five species with highest cover in experiment 1 and 2, before (D0-D24) and after (D42 or D29) treatments: untreated condition, mowing, Doxstar®, Genoxone®, Garlon Super®, mowing 1 and 2. Mean cover and standard deviation are indicated in brackets. Grass species are in bold and legume species are underlined.

Experiment	Intervention	Before	After
1	Untreated	<i>Lolium perenne</i> (23.1±13.0%) <i>Acer pseudoplatanus</i> (18.0±3.3%) <i>Holcus lanatus</i> (17.8±8.8%) <i>Alopecurus pratensis</i> (13.7±9.3%) <i>Geranium molle</i> (6.5±4.7%) <i>Taraxacum sp.</i> (6.0±8.7%) <u><i>Trifolium repens</i></u> (3.3±4.5%) <i>Ranunculus acris</i> (3.2±6.3%) <i>Stellaria media</i> (3.0±3.5%) <i>Dactylis glomerata</i> (1.5±3.5%)	<i>Holcus lanatus</i> (15.4±11.4%) <i>Poa trivialis</i> (14.2±9.8%) <u><i>Trifolium repens</i></u> (9.0±9.2%) <i>Agrostis tenuis</i> (8.9±7.0%) <i>Geranium dissectum</i> (8.2±8.4%) <i>Lolium perenne</i> (8.0±4.5%) <i>Agrostis stolonifera</i> (4.8±4.4%) <i>Plantago lanceolata</i> (4.7±3.2%) <i>Bromus mollis</i> (4.6±5.3%) <i>Alopecurus pratensis</i> (3.3±2.7%)
	Mowing	<i>Lolium perenne</i> (25.0±11.3%) <i>Holcus lanatus</i> (18.9±3.2%) <i>Alopecurus pratensis</i> (16.6±9.6%) <i>Acer pseudoplatanus</i> (13.6±6.3%) <i>Plantago lanceolata</i> (5.6±4.1%) <i>Ranunculus repens</i> (3.6±7.2%) <u><i>Trifolium repens</i></u> (3.5±6.0%) <i>Ranunculus acris</i> (3.4±5.9%) <i>Capsella bursa-pastoris</i> (2.4±1.6%) <i>Geranium molle</i> (2.3±3.0%)	<i>Poa trivialis</i> (14.3±6.8%) <i>Lolium perenne</i> (14.0±8.5%) <u><i>Trifolium repens</i></u> (12.2±9.9%) <i>Holcus lanatus</i> (10.3±7.8%) <i>Agrostis stolonifera</i> (8.7±9.4%) <i>Plantago lanceolata</i> (7.4±6.1%) <i>Ranunculus acris</i> (7.3±6.5%) <i>Agrostis tenuis</i> (4.9±4.2%) <i>Geranium dissectum</i> (4.6±3.7%) <i>Taraxacum sp.</i> (3.0±2.0%)
	Doxstar	<i>Holcus lanatus</i> (25.9±17.7%) <i>Lolium perenne</i> (20.9±11.6%) <i>Alopecurus pratensis</i> (11.4±6.7%) <u><i>Trifolium repens</i></u> (10.4±11.8%) <i>Acer pseudoplatanus</i> (8.4±5.2%) <i>Plantago lanceolata</i> (5.3±5.7%) <i>Ranunculus acris</i> (4.9±4.2%) <i>Taraxacum sp.</i> (4.7±3.9%) <i>Dactylis glomerata</i> (3.0±3.6%) <i>Geranium molle</i> (1.4±2.7%)	<i>Holcus lanatus</i> (25.2±10.7%) <i>Poa trivialis</i> (16.8±9.9%) <i>Agrostis tenuis</i> (14.5±12.4%) <i>Lolium perenne</i> (9.6±7.3%) <i>Holcus mollis</i> (5.8±11.6%) <i>Alopecurus pratensis</i> (5.0±5.5%) <i>Ranunculus acris</i> (3.6±4.4%) <i>Plantago lanceolata</i> (3.1±4.3%) <i>Bromus mollis</i> (3.1±3.6%) <i>Agrostis stolonifera</i> (3.0±6.1%)
	Genoxone	<i>Holcus lanatus</i> (26.9±20.4%) <i>Alopecurus pratensis</i> (22.6±8.3%) <i>Acer pseudoplatanus</i> (15.5±9.9%)	<i>Poa trivialis</i> (36.9±10.5%) <i>Holcus lanatus</i> (17.8±19.4%) <i>Lolium perenne</i> (13.3±4.5%)

		<i>Lolium perenne</i> (14.1±10.5%) <i><u>Trifolium repens</u></i> (4.4±6.3%) <i>Geranium molle</i> (3.0±4.0%) <i>Plantago lanceolata</i> (3.0±6.1%) <i>Dactylis glomerata</i> (2.2±4.3%) <i>Urtica dioica</i> (1.8±3.7%) <i>Ranunculus acris</i> (1.5±2.3%)	<i>Agrostis stolonifera</i> (9.3±8.1%) <i>Agrostis tenuis</i> (7.7±8.3%) <i>Dactylis glomerata</i> (4.0±4.7%) <i>Alopecurus pratensis</i> (2.9±2.7%) <i>Bromus mollis</i> (1.9±3.8%) <i>Phleum pratense</i> (1.8±3.5%) <i>Holcus mollis</i> (1.5±3.0%)
	Garlon super	<i>Lolium perenne</i> (29.9±8.4%) <i>Holcus lanatus</i> (18.6±14.7%) <i>Acer pseudoplatanus</i> (12.3±4.7%) <i>Alopecurus pratensis</i> (11.3±8.2%) <i><u>Trifolium repens</u></i> (8.4±7.7%) <i>Plantago lanceolata</i> (7.3±9.8%) <i>Dactylis glomerata</i> (4.2±5.7%) <i>Taraxacum sp.</i> (2.7±5.4%) <i>Cerastium vulgatum</i> (2.1±2.1%) <i>Agrostis tenuis</i> (1.7±3.3%)	<i>Holcus lanatus</i> (22.6±9.4%) <i>Poa trivialis</i> (21.3±5.2%) <i>Agrostis tenuis</i> (13.6±16.3%) <i>Lolium perenne</i> (13.6±13.4%) <i>Plantago lanceolata</i> (9.1±6.9%) <i>Alopecurus pratensis</i> (6.2±5.2%) <i>Agrostis stolonifera</i> (4.3±5.3%) <i>Taraxacum sp.</i> (2.6±3.1%) <i>Bromus mollis</i> (2.2±4.4%) <i>Poa annua</i> (1.6±3.2%)
2	Untreated	<i>Lolium perenne</i> (22.5±11.2%) <i>Alopecurus pratensis</i> (18.6±19.8%) <i>Agrostis tenuis</i> (12.6±14.6%) <i>Taraxacum sp.</i> (11.0±3.9%) <i>Bellis perennis</i> (10.7±7.3%) <i>Acer pseudoplatanus</i> (4.3±4.0%) <i>Ranunculus repens</i> (4.3±5.1%) <i>Ranunculus acris</i> (4.0±4.7%) <i><u>Trifolium repens</u></i> (2.5±2.2%) <i>Agrostis stolonifera</i> (2.4±2.8%)	<i>Lolium perenne</i> (25.7±6.6%) <i>Poa trivialis</i> (21.8±11.2%) <i>Taraxacum sp.</i> (10.9±6.2%) <i>Ranunculus repens</i> (9.3±9.1%) <i>Ranunculus acris</i> (7.9±4.5%) <i><u>Trifolium repens</u></i> (4.6±2.1%) <i>Plantago lanceolata</i> (3.1±3.7%) <i>Alopecurus pratensis</i> (2.8±3.4%) <i>Holcus lanatus</i> (2.4±3.2%) <i>Cerastium vulgatum</i> (1.9±2.3%)
	Mowing 1	<i>Lolium perenne</i> (26.3±11.5%) <i>Alopecurus pratensis</i> (25.1±9.8%) <i>Bellis perennis</i> (13.6±4.0%) <i>Taraxacum sp.</i> (10.9±3.6%) <i>Acer pseudoplatanus</i> (9.8±5.7%) <i>Ranunculus repens</i> (4.3±3.6%) <i>Ranunculus acris</i> (4.2±2.2%) <i><u>Trifolium repens</u></i> (1.7±1.3%) <i>Festuca rubra</i> (1.1±2.2%) <i>Phleum pratense</i> (0.9±1.1%)	<i>Lolium perenne</i> (28.9±5.7%) <i>Alopecurus pratensis</i> (12.8±10.8%) <i>Poa trivialis</i> (12.8±10.8%) <i>Taraxacum sp.</i> (10.8±4.6%) <i>Ranunculus acris</i> (8.6±1.3%) <i><u>Trifolium repens</u></i> (5.5±3.1%) <i>Bellis perennis</i> (4.7±3.9%) <i>Ranunculus repens</i> (4.5±2.9%) <i><u>Trifolium pratense</u></i> (3.3±2.3%) <i><u>Trifolium dubium</u></i> (1.4±2.7%)

	Mowing 2	<i>Lolium perenne</i> (45.3±7.5%) <i>Bellis perennis</i> (11.1±6.5%) <i>Ranunculus repens</i> (8.9±10.1%) <i>Agrostis tenuis</i> (8.5±7.0%) <i>Taraxacum sp.</i> (7.1±7.6%) <i>Cerastium vulgatum</i> (3.3±3.8%) <i>Ranunculus acris</i> (3.2±5.0%) <i>Holcus lanatus</i> (2.9±4.3%) <i>Poa trivialis</i> (2.8±5.7%) <i>Plantago lanceolata</i> (1.9±3.7%)	<i>Lolium perenne</i> (46.0±9.1%) <i>Taraxacum sp.</i> (14.1±6.0%) <i>Poa trivialis</i> (9.3±8.0%) <i>Alopecurus pratensis</i> (6.2±4.2%) <i>Ranunculus repens</i> (6.0±4.4%) <i>Bellis perennis</i> (4.9±5.2%) <u><i>Trifolium repens</i></u> (3.4±0.9%) <i>Ranunculus acris</i> (2.9±2.2%) <i>Phleum pratense</i> (1.9±3.8%) <i>Plantago lanceolata</i> (1.9±3.7%)
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SUPPLEMENTARY EXCEL TABLES

All tables are present in the sheets of the excel file

Sheet 1: Table S2: Number of sycamore seedlings in experiment 1

Sheet 2: Table S3: Grass height in experiment 1

Sheet 3: Table S4: Concentration of hypoglycin A in sycamore seedlings in experiment 1

Sheet 4: Table S5: Number of sycamore seedlings in experiment 2

Sheet 5: Table S6: Grass height in experiment 2

Sheet 6: Table S7: Harvest yield in experiment 2

Sheet 7: Table S8: Nutritional values of the harvest from the experiment 2