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Title: Agroforestry as a Driver for the Provisioning of Peri-Urban Socio-Ecological Functions: A Trans-Disciplinary Approach

Authors: Alice Giulia Dal Borgo¹, Gemma Chiaffarelli^{2*}, Valentina Capocefalo¹, Andrea Schievano³, Stefano Bocchi³, Ilda Vagge²

¹ Department of Heritage and Environment, University of Milan, 20122 Milan, Italy

² Department of Agriculture and Environmental Sciences, University of Milan, 20122 Milan, Italy

³ Department of Environmental Science and Policy, University of Milan, 20122 Milan, Italy

Correspondence: gemma.chiaffarelli@unimi.it

Supplementary materials

Table S1 Extra-local scale landscape eco-mosaic patches entry-level data.

EXTRA-LOCAL SCALE	Surface (ha)	Perimeter (m)	N.º patches
LAND USE TYPE	ai	pi	NP
NAT			
Abandoned uncultivated area (spontaneous tree-shrub recolonization)	52.22	30026	47
Small woody area or woody strip (planted)	25.78	12522	16
Small woody area or woody strip (spontaneous recolonization)	32.00	18798	26
Uncultivated area	26.54	13513	30
Young reforestation area	25.50	9782	15
TOT	162.03	84641	134
AGR			
Agroforestry system	3.16	1032	2
Cropfield	834.43	181097	209
Grassland with trees and arboriculture	5.73	2097	4
Horticulture	10.48	7031	19
Orchard	3.46	1794	6
Permanent grassland	116.22	36170	57
Ricefield	123.74	30061	38
TOT	1097.22	259282	335
HYD			
Water basin and irrigation ditch	56.02	44701	5
TOT	56.02	44701	5
ANT			
Abandoned area	21.62	3863	4
Dump, construction site, quarry	14.37	6271	9
Agricultural building	3.86	1738	5
Industrial or commercial building or services	450.76	100447	145
Railway, street, parking	151.05	108787	32
Residential building	241.39	89137	159
Urban Park and private green area	175.07	99477	198
TOT	1058.12	409718	552
overall TOTAL	2373.39	798343	1026

Table S2 Local scale landscape eco-mosaic CS and TS patches entry-level data.

LOCAL SCALE	CS			TS		
	Surface (ha)	Perimeter (m)	N.° patches	Surface (ha)	Perimeter (m)	N.° patches
LAND USE TYPE	ai	pi	NP	ai	pi	NP
NAT						
Woody area from spontaneous colonization (allochthonous species dominant)	0.88	717.8	2	-	-	-
Woody strip ecological improvement	-	-	-	1.82	1931	5
Phytoremediation woody area	-	-	-	3.95	2194	7
Buffering/filtering woody strip	-	-	-	2.84	2005	2
Abandoned uncultivated area	3.45	1517.15	4	-	-	-
Marginal grass strip	3.42	10870.29	28	2.68	7674	24
Young reforestation area (1-2 yrs)	2.97	2383.4	3	-	-	-
Young reforestation area (5 yrs)	10.75	4285.11	8	-	-	-
Young reforestation area (15 yrs)	-	-	-	12.29	5476	10
Hygrophilous reforestation area (serial patches techniques) (10 yrs)	-	-	-	1.17	807	1
Mesophilous reforestation area (serial patches techniques) (10 yrs)	-	-	-	0.89	673	3
Grassland with trees	3.68	2504.52	5	3.13	2084	3
Spontaneous tree-shrub hedgerow (allochthonous species dominant)	0.55	1211.66	5	-	-	-
Discontinuous spontaneous tree-shrub hedgerow (allochthonous species dominant)	1.51	3587.12	10	-	-	-
Planted hygrophilous tree-shrub hedgerow	0.32	820.51	1	0.43	1184	3
Planted mesophilous tree-shrub hedgerow	0.37	860.12	2	1.90	5194	15
Hygrophilous shrub hedgerow	-	-	-	0.25	965	3
Mesophilous shrub hedgerow	-	-	-	0.78	2367	11
Discontinuous spontaneous tree-shrub coenosis (allochthonous species dominant)	0.58	1541.21	5	-	-	-
Spontaneous tree-shrub coenosis along ditches (allochthonous species dominant)	0.37	946.06	5	-	-	-
Discontinuous spontaneous tree-shrub coenosis along ditches (allochthonous species dominant)	1.6	4631.66	11	-	-	-
Hygrophilous tree-shrub hedgerow ecological improvement	-	-	-	2.14	5851	18
Spontaneous herbaceous coenosis along ditches (allochthonous species dominant)	1.51	3808.09	7	-	-	-
Spontaneous herbaceous-shrub coenosis along ditches (allochthonous species dominant)	0.18	435.16	1	-	-	-
Hygrophilous shrub hedgerow ecological improvement	-	-	-	1.46	4825	8
TOT	32.14	40119.9	97	35.7	43229.1	113
AGR						
Uncultivated area	21.83	7723.08	17	-	-	-
Urban vegetable garden	2.14	2400.54	9	2.44	2629	10
Productive horticulture	0.82	644.67	3	0.82	645	3
Glasshouse productive horticulture	0.5	403.53	2	0.51	406	2
Farm green facilities	0.13	322.9	2	0.13	323	2
Permanent polyphyte grassland	4.33	2260.25	4	1.06	1231	5
Cropfield	16.7	4432.3	7	-	-	-
Highly diversified cropfield	-	-	-	20.45	8567	18
Multi-strata agroforestry system (3 yrs)	2.22	856.25	2	-	-	-
Multi-strata agroforestry system (8 yrs)	-	-	-	9.21	3468	7
Multi-strata agroforestry system (11-13 yrs)	-	-	-	2.22	856	2
Alley-cropping agroforestry system	-	-	-	9.25	4068	9

	TOT	48.67	19043.5	46	46.1	22191.3	58
HYD							
Channel and small irrigation ditches		1.1950	7475.06	2	1.20	7475	2
Wetland		-	-	-	0.30	266	1
Re-activated natural spring		-	-	-	0.05	117	1
	TOT	1.195	7475.06	2	1.545	7857.99	4
ANT							
Construction site		0.25	343.27	1	0.25	343	1
Abandoned farmhouse		0.55	1019.5	7	0.55	1020	7
Cultural religious centre		0.16	163.53	1	1.43	619	2
Abandoned courtyard		0.4	419.34	1	0.40	419	1
Illegal dump		1.28	1480.61	7	-	-	-
Abandoned building		1.67	1174.85	5	0.40	719	4
Productive building		0.2	188.32	1	0.20	188	1
Residential building		4.51	5274.51	25	4.51	5275	25
School building		1.37	576.58	1	1.37	577	1
Parking		2.36	2179.14	8	2.36	2179	8
Parking with trees		0.49	308.65	1	0.49	309	1
Urban Park		4.41	2033.06	5	4.41	2033	5
Public access meadow		0.31	154.2	1	0.30	384	2
Power station hub		0.97	390.57	1	0.97	391	1
Social nursery		0.03	67.8	1	0.03	68	1
Private green area		11.32	9968.77	27	11.32	9969	27
Abandoned private green area		1.31	1219.52	5	1.31	1220	5
	TOT	31.59	26962.2	98	30.3	25711.8	92
	overall TOTAL	114	93601	243	114	98990	267