

**Table A1: Descriptive statistics of covariates, final sample.
Polytax 0/1**

Variable	Mean	Std. Dev.	Min	Max
Forest owners' characteristics				
Female (0/1)	0.166	0.373	0.000	1.000
Single decision maker (0/1)	0.642	0.480	0.000	1.000
Age (years)	60.308	11.390	28.000	90.000
Education up to Highschool (0/1)	0.364	0.482	0.000	1.000
Up to 3 years of higher education (0/1)	0.157	0.364	0.000	1.000
Up to 4 years of higher education (0/1)	0.185	0.388	0.000	1.000
Other education (0/1)	0.037	0.188	0.000	1.000
Medium level of experience (6 to 40 years) (0/1)	0.767	0.423	0.000	1.000
High level of experience (more than 40 years) (0/1)	0.180	0.384	0.000	1.000
Owner lives in or closeby the forest plot (0/1)	0.811	0.392	0.000	1.000
Plots' characteristics				
Area of the plot (ha)	6.480	8.102	0.500	64.500
High soil quality (0/1)	0.282	0.450	0.000	1.000
Medium soil quality (0/1)	0.655	0.476	0.000	1.000
Forest associations				
Sothern (0/1)	0.227	0.419	0.000	1.000
Middleforest (0/1)	0.163	0.369	0.000	1.000
Northforest (0/1)	0.072	0.259	0.000	1.000
North forest owners' (0/1)	0.087	0.281	0.000	1.000
Other (0/1)	0.043	0.204	0.000	1.000
None (0/1)	0.409	0.492	0.000	1.000
Municipality characteristics				
road density (m/km2)	782.302	327.601	59.695	1704.137

Table A2: Means, t-test stat, and normalized difference in covariates between the control and treated groups. Before and after matching. Polytax 0/1 dataset.

	Mean: Noncertified	Mean: Certified	Difference: t-stat	Difference: Normalized
A. Before Matching				
Number of observations	516	247	.	.
Female (0/1)	0.188	0.121	-2.432	-0.129
Single decision maker (0/1)	0.669	0.587	-2.147	-0.119
Age (years)	60.760	59.364	-1.622	-0.088
Education up to Highschool (0/1)	0.347	0.401	1.427	0.079
Up to 3 years of higher education (0/1)	0.157	0.158	0.033	0.002
Up to 4 years of higher education (0/1)	0.186	0.182	-0.129	-0.007
Other education (0/1)	0.045	0.020	-1.890	-0.097
Medium level of experience (0/1)	0.756	0.789	1.044	0.057
High level of experience (0/1)	0.182	0.174	-0.273	-0.015
Owner lives in or closeby the forest plot (0/1)	0.798	0.838	1.342	0.072
Area of the plot (ha)	6.828	5.752	-1.855	-0.097
High soil quality (0/1)	0.341	0.158	-5.490	-0.292
Medium soil quality (0/1)	0.581	0.810	6.306	0.340
Forest associations (0/1)	0.477	0.830	8.928	0.491
Road density (log)	6.439	6.779	8.162	0.446
B. After Matching				
Number of observations	102	193	.	.
Female (0/1)	0.127	0.135	0.176	0.015
Single decision maker (0/1)	0.598	0.611	0.222	0.019
Age (years)	58.392	59.218	0.581	0.051
Education up to Highschool (0/1)	0.392	0.378	-0.232	-0.020
Up to 3 years of higher education (0/1)	0.098	0.155	1.446	0.121
Up to 4 years of higher education (0/1)	0.216	0.171	-0.908	-0.080
Other education (0/1)	0.039	0.026	-0.592	-0.053
Medium level of experience (0/1)	0.716	0.777	1.135	0.099
High level of experience (0/1)	0.176	0.181	0.104	0.009
Owner lives in or closeby the forest plot (0/1)	0.853	0.839	-0.308	-0.026
Area of the plot (ha)	6.210	5.932	-0.280	-0.025
High soil quality (0/1)	0.216	0.192	-0.481	-0.042
Medium soil quality (0/1)	0.716	0.772	1.038	0.091
Forest associations (0/1)	0.657	0.793	2.408	0.212
Road density (log)	6.608	6.712	1.828	0.161

Notes: Counties for which normalized difference > 0.25 before matching: 2; after matching: 0. Total number of counties: 21

Table A3: Means, t-test stat, and normalized difference in covariates between the control and treated groups. Before and after matching. Polytax 5/7 dataset.

	Mean: Not certified	Mean: Certified	Difference: t-stat	Difference: Normalized
A. Before Matching				
Number of observations	446	619	.	.
Female (0/1)	0.186	0.168	-0.759	-0.033
Single decision maker (0/1)	0.691	0.601	-3.019	-0.132
Age (years)	59.989	60.047	0.077	0.003
Education up to Highschool (0/1)	0.444	0.433	-0.356	-0.016
Up to 3 years of higher education (0/1)	0.132	0.152	0.906	0.040
Up to 4 years of higher education (0/1)	0.146	0.174	1.267	0.055
Other education (0/1)	0.045	0.034	-0.893	-0.040
Medium level of expericence (0/1)	0.769	0.763	-0.249	-0.011
High level of experience (0/1)	0.159	0.202	1.799	0.078
Owner lives in or closeby the forest plot (0/1)	0.812	0.832	0.851	0.038
Area of the plot (ha)	7.371	6.364	-1.754	-0.078
Forest associations (0/1)	0.433	0.798	11.392	0.497
Road density (log)	6.441	6.671	6.957	0.307
B. After Matching				
Number of observations	201	553	.	.
Female (0/1)	0.199	0.179	-0.613	-0.036
Single decision maker (0/1)	0.647	0.626	-0.533	-0.031
Age (years)	60.557	59.964	-0.573	-0.034
Education up to Highschool (0/1)	0.468	0.447	-0.511	-0.030
Up to 3 years of higher education (0/1)	0.119	0.146	0.986	0.056
Up to 4 years of higher education (0/1)	0.139	0.159	0.683	0.039
Other education (0/1)	0.040	0.029	-0.698	-0.042
Medium level of expericence (0/1)	0.776	0.779	0.095	0.006
High level of experience (0/1)	0.174	0.181	0.213	0.012
Owner lives in or closeby the forest plot (0/1)	0.811	0.826	0.482	0.028
Area of the plot (ha)	7.213	6.422	-0.923	-0.058
Forest associations (0/1)	0.582	0.774	4.797	0.284
Road density (log)	6.522	6.647	2.927	0.174

Notes: Counties for which normalized difference > 0.25 before matching: 0; after matching: 0. Total number of counties: 21

Table A4: Effects of certification on environmentally important areas by certification label.
Polytax 0/1 dataset.

	(1)	(2)	(3)	(4)
Dependent variable	FSC=1, Uncertified=0	PEFC=1, Uncertified=0	Both FSC and PEFC=1, uncertified=0	FSC=1, PEFC=0
Noncompliance rate	0.055	-0.026	0.015	0.073
Standard error	[0.070]	[0.059]	[0.075]	[0.115]
Observations	569	591	598	128
R-squared	0.149	0.178	0.154	0.501
Area cleared (ha)	0.193	0.007	0.058	0.316
Standard error	[0.264]	[0.057]	[0.073]	[0.265]
Observations	569	591	598	128
R-squared	0.097	0.089	0.088	0.519
Area cleared (%)	0.063	0.042	0.003	-0.025
Standard error	[0.058]	[0.051]	[0.052]	[0.085]
Observations	538	551	560	119
R-squared	0.113	0.106	0.096	0.529

Notes: All models are OLS including all covariates.

Table A5: Effects of certification on share of set-aside areas

Variable	(1) Any certification	(2) Only FSC	(3) Only PEFC	(4) Any certification	(5) Only FSC	(6) Only PEFC
Certified (dummy=1 if yes)	0.0224 [0.015]	0.0096 [0.016]	0.0280 [0.018]	0.0203 [0.017]	0.0112 [0.019]	0.0272 [0.020]
Area of productive forest (thousand ha)				0.0047** [0.002]	0.0023 [0.002]	0.0059** [0.003]
Constant	0.0731*** [0.012]	0.0731*** [0.010]	0.0731*** [0.014]	0.0406 [0.043]	0.0491 [0.043]	0.0789 [0.055]
Control variables included	NO	NO	NO	YES	YES	YES
Observations	283	152	226	283	152	226
R-squared	0.008	0.002	0.011	0.061	0.100	0.085

Notes: Standard errors in brackets. Control variables include county fixed effects. *** p<0.01, ** p<0.05, * p<0.1