

**Table S1.** The analyzed FMPs from management units which previously overlapped on the current area of N2000-RG

Section*	Forest district (FD)	Forest management unit (FMU)	FMP's validity period	Analyzed?
Slătioara	Stulpicani	IX Slătioara	1941-1950	Not available
	MUFB Suha	IX Slătioara	1950-1955	Yes
	MUFB Suha	IX Slătioara	1955-1969	Yes
	Stulpicani	VIII Slătioara	1969-1980	Yes
	Stulpicani	VIII Slătioara	1980-1990	Yes
	Stulpicani	VIII Slătioara	1990-2001	Yes
	Stulpicani	VIII Slătioara	2001-2006	Yes
	Stulpicani	VIII Slătioara	2006-2015	Yes
	Stulpicani	VIII Slătioara	2016-2025	Yes
Chiril-Pietrele Doamnei	Crucea	-	1938-1948	Not available
	MUFB Broșteni	XVII Chiril – Pietrele Doamnei	1948-1960	Yes
	BARNAR	IX Chiril – Pietrele Doamnei	1960-1968	Yes
	Crucea	VI Chiril	1968-1978	Yes
	Crucea	VI Chiril	1978-1990	Yes
	Crucea	VI Chiril	1990-2000	Yes
	Crucea	VI Chiril	2000-2010	Yes
	Crucea	VI Chiril	2010-2020	Yes
Rarău	Pojorâta	I Rarău	Before 1962	Not available
	Pojorâta	I Rarău	1962-1972	Yes
	Pojorâta	I Rarău	1972-1983	Yes
	Pojorâta	I Rarău	1983-1994	Yes
	Pojorâta	I Rarău	1994-2004	Yes
	Pojorâta	I Rarău	2004-2014	Yes
	Pojorâta	I Rarău	2014-2024	Yes
Giumalău	Pojorâta	II Giumalău	1941-1950	Not available
	MUFB Moldova superioară	III Putna	1950-1962	Yes
	Pojorâta	III Valea Putnei	1962-1972	Yes
	Pojorâta	III Valea Putnei	1972-1983	Yes
	Pojorâta	III Valea Putnei	1983-1994	Yes
	Pojorâta	III Valea Putnei	1994-2004	Yes
	Pojorâta	III Valea Putnei	2004-2014	Yes
	Pojorâta	III Valea Putnei	2014-2024	Yes

\* The Natura 2000 site ROSCI0212 Rarău-Giumalău currently overlaps on four Forest management units, from three different forest districts and the „Section” column indicates the part of the site belonging to different forest management units.

**Table S2.** Coefficients used for computing the tree aboveground wood volume [1]

Tree Species (i)	Coefficients for Equation (2)				
	a <sub>0</sub>	a <sub>1</sub>	a <sub>2</sub>	a <sub>3</sub>	a <sub>4</sub>
<i>Acer pseudoplatanus</i> L.	-4.06012	1.81478	0.07283	0.76688	0.006155
<i>Abies alba</i> Mill.	-4.46414	2.19479	-0.12498	1.04645	-0.016848
<i>Betula pendula</i> Roth	-4.16999	2.27038	-0.21540	0.30765	0.368258
<i>Fagus sylvatica</i> L.	-4.11122	1.30216	0.23636	1.26562	-0.079661
<i>Larix decidua</i> Mill.	-4.59667	2.26066	-0.13256	1.02582	0.007491
<i>Populus tremula</i> L.	-4.22131	1.76256	0.05900	1.04105	-0.009430
<i>Picea abies</i> (L.) H. Karst.	-4.18161	2.08131	-0.11819	0.70119	0.148181
<i>Pinus sylvestris</i> L.	-3.84672	1.82103	-0.04107	0.35677	0.334910
<i>Sorbus aucuparia</i> L.	-4.31485	2.58064	-0.21693	0.55092	0.025773
<i>Taxus baccata</i> L.	-4.46414	2.19479	-0.12498	1.04645	-0.016848
<i>Ulmus glabra</i> Huds.	-4.49118	2.18244	-0.10324	1.20293	-0.124978

**Table S3.** Short overview on the history of protected forest areas from the reserves inside N2000-RG

Name of reserve		Codrul secular Giumalău	Codrul secular Slătioara	Rarău – Pietrele Doamnei
Establishment	Year	1941	1941	1955
	Area (ha)	290.62	295.28	258.51
1 <sup>st</sup> area change	Year	1950	1950	1972
	SPA (ha)	281.65	359.99	301.6 (267.9 ha in FMU VI Chiril, 33.7 ha in FMU I Rarău)
	Buffer area (ha)	-	549.87	-
	Source	[2]	[3]	[4,5]
2 <sup>nd</sup> area change	Year	1962	1955	1983
	SPA (ha)	282.75	313.65	581.3 (257.5 in FMU VI Chiril, 323.8 ha in FMU I Rarău)
	Buffer area (ha)	-	527.09	-
	Source	[6]	[7]	[8,9]
3 <sup>rd</sup> area change	Year	1972	1969	1994
	SPA (ha)	314	313.6	539.6 (288.5 ha in FMU VI Chiril, 251.1 ha in FMU I Rarău)
	Buffer area (ha)	-	554.4	-
	Source	[10]	[11]	[12,13]
4 <sup>th</sup> area change	Year	1983	1980	2004
	SPA (ha)	192,9	311.6	579.97 (288.2 ha in FMU VI Chiril, 291.77 ha in FMU I Rarău)
	Buffer area (ha)	116,6	746.1	-

	Source	[14]	[15]	[16,17]
	Year	1994	1990	2014
5 <sup>th</sup> area change	SPA (ha)	164,5	330.4	573.14 (281.37 ha in FMU VI Chiril, 291.77 ha in FMU I Rarău)
	Buffer area (ha)	145,0	674.3	-
	Source	[18]	[19]	[17,20]
	Year	2004	2001	2020
6 <sup>th</sup> area change	SPA (ha)	306,2	327.0	578.29 (286.52 ha in FMU VI Chiril, 291.77 ha in FMU I Rarău)
	Buffer area (ha)	-	554.7	-
	Source	[21]	[22]	[17,23]
	Year	2014	2006	
7 <sup>th</sup> area change	SPA (ha)	338.81	1,044.8	
	Buffer area (ha)	-	-	
	Source	[24]	[25]	
	Year		2016	
8 <sup>th</sup> area change	SPA (ha)		1,044.72	
	Buffer area (ha)		-	
	Source		[26]	

SPA – strictly protected area.

## References

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