S3 Table. Evaluation scores of the 60 protected area management plans as assigned in the plan quality evaluation process.

	BR Flusslandschaft Elbe	BR Karstlandschaft Südharz	BR Niedersächsische Elbaue	BR Schaalsee	BR Schwäbische Alb	BR Vessertal-Thüringer Wald	Ackerflur bei Ulmet	Bayrischer Bodensee	Binnendünen Nordoe	Binnensalzstelle Rethriehen	Blumberger Wald	Borntal, Feuchtgebiet und Heide bei Allstedt incl. Erweiterungsflächen	Drahendorfer Spreeniederung	Feuchtgebietskomplexe nördlich Itzny	Flohatal	Heide und Heideweiher auf der Rekumer Geest	Kühkopf-Knoblochsaue	Lauter und Eisenbach	Lußhardt	Magerwiesen Raubach	Mahlpfuhler Fenn	Mattheiser Wald	Mindelquellgebiet	Nordseite der Wagrischen Halbinsel	Nordwestvogtländische Teiche	Oberer Hotzenwald	Oldenburger See	Orsfeld	Pfeifengraswiese bei Günthersdorf	Randowhänge bei Schmölln	Randowtal bei Grünz und Schwarze Berge	Randow-Welse-Bruch	Rothenberg	Sangwelher	Sebnitzer Wald	Trauf der südlichen Frankenalb	Unterer Niederrhein	Warnowtal	Wismarbucht	NLP Bayrischer Wald	NLP Hainich	NLP Harz	NLP Kellerwald- Edersee	NLP Müritz	NLP Sächsische Schweiz	NLP Unteres Odertal	NP Am Stettiner Haff	NP Barnim	NP Bayrischer Wald	NP Dübener Heide	NP Habichtswald	NP Hüttener Berge	NP Schlaubetal	NP Schlei	NP Soonwald-Nahe	NP Stromberg-Heuchelberg	NP Südharz	NP Teutoburgerwald	NP Unteres Saaletal	NP Zittauer Gebirge
1 Addressing climate change	0	3	5	0	2	3	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	4	0	0	0	1	1	0	0	1	1	3	0	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0
Address climate change and its impacts in situation analysis.	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Address climate change in goal setting.	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Address (ecosystem-based) climate change (management) in strategy design and action planning.	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Address climate change in monitoring and research (monitor changes of climatic factors, biological, ecological and physical aspects of (climate change) impacts and climate change impacts in combination with other threats).	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Ecosystem functionality and resilience	4	5	5	4	4	5	0	0	0	0	0	2	1	0	2	0	3	2	0	0	4	1	2	0	1	0	2	0	0	0	2	0	1	1	2	0	2	0	2	6	7	6	7	6	3	4	2	1	3	3	0	4	0	1	1	1	1	0	0	2
Prioritize higher-order systems (ecosystems) and their processes over lower-order systems (species and life communities)	1	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	2	2	2	2	2	2	1	0	0	1	0	0	1	1	0	0	0	1	0	0	1
Prioritize target functionality over representation of target patterns (e.g. specific components such as species or life communities)	1	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2	2	2	2	2	1	1	1	0	0	1	0	1	0	0	0	0	0	0	1
Refrain from static preservation of species/populations in defined areas	0	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	2	1	0	1	1	0	1	0	0	1	0	1	1	1	0	0	0	0
Manage for high levels of biomass, diversity and network.	2	0	2	1	1	2	0	0	0	0	0	2	0	0	2	0	2	1	0	0	2	1	1	0	1	0	0	0	0	0	0	0	0	1	1	2	0	2	0	0	1	1	1	1	1	0	1	0	1	2	0	1	0	0	0	0	0	0	0	0
3 Adequate spatial dimension	7	2	5	6	3	5	1	0	2	0	0	2	3	2	4	0	4	0	0	0	2	0	1	0	0	0	2	0	0	3	2	0	3	0	2	0	2	1	3	7	6	5	6	5	2	6	2	2	5	4	2	6	3	2	2	2	3	1	0	2
Apply ecoregional approaches and delimit spatial management scope according to ecological boundaries of functional size.	2	0	1	1	1	1	1	0	0	0	0	1	0	0	1	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	1	1	1	1	1	1	1	1	0	0	0	1	0	0	2	1	0	0	0	1	0	0	2
Select a spatially continous management scope and avoid disconnection and cluster structure favouring direct connection to nearby conservation sites or functionally relevant eocsystems.	2	1	2	2	1	2	0	0	1	0	0	1	1	0	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	1	1	0	1	0	1	0	1	0	1	2	2	2	2	2	1	1	0	2	1	1	2	1	1	2	2	1	1	0	0
Consider conservation targets within a regional context and let their scale guide the scale of management strategies.	1	0	1	2	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	1	1	1	1	0	1	1	0	1	0	0	1	0	1	0	0	0	0	0
Consider and manage adjacent ecosystems/regions as areas of influence.	2	1	1	1	0	1	0	0	1	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0	0	0	0	1	1	2	2	1	2	2	1	2	0	0	1	1	0	1	1	2	0	0	0	0	0
4 Adequate time dimension	1	1	1	3	2	2	0	0	0	0	2	3	0	0	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0	2	0	0	0	2	1	0	0	4	0	2	3	4	1	2	0	0	0	0	0	1	1	0	0	0	1	1	0	0
Adopt a long-term perspective in planning and management (>20 years).	1	0	0	1	1	1	0	0	0	0	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	1	0	0	0	1	2	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0
Extend strategy design to include future changes in target status.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beside short-term and medium-term activities, also include long-term activities in planning and implementation.	0	1	0	1	1	1	0	0	0	0	1	1	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	1	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0
Assess and account for the long-term impact of planned activities.	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Holistic knowledge management	3	7	6	6	6	6	0	2	2	1	5	1	3	3	4	1	1	0	1	1	2	0	2	3	0	3	0	1	1	5	4	5	1	1	1	3	0	3	7	5	3	4	4	5	2	4	5	4	4	1	3	4	3	3	2	2	3	3	2	2
Constantly keep track and make use of best-available knowledge assessing limits to knowledge, uncertainty and knowledge gaps.	0	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	0	0	1	1	1	0	0	1	0	1	0	0	1	1	1	1	1	0	0	0	1	0	1	1	1	1	1	1	0	1	1	1	1	0	1	1	2	1	0	1	0	0	0	0
Consider all forms of relevant information including scientific, indigenous and local knowledge and practice.	1	2	1	2	2	2	0	0	1	0	2	1	1	1	1	0	1	0	0	0	1	0	1	1	0	1	0	1	0	2	2	2	1	0	1	1	0	1	2	0	0	1	1	1	0	1	2	1	1	0	1	1	1	1	1	1	1	1	1	0
Consider all relevant sectors of society and (scientific) disciplines in the planning process	0	2	2	2	2	2	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	1	1	0	0	0	0	0	1	2	2	1	1	1	2	0	1	2	1	1	1	1	2	0	1	1	0	1	1	0	0
Cooperation and knowledge exchange with other organisations, institutions, agencies and conservation projects.	2	2	2	1	1	1	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0	0	2	2	1	1	1	2	1	0	1	1	0	0	0	0	0	0	1	1	1	2
6 Systemic and strategic coherence	5	2	6	6	3	4	0	0	1	0	1	2	4	1	3	0	1	0	3	1	2	1	0	0	2	0	1	1	0	4	2	1	2	2	3	1	2	1	2	6	5	6	5	3	4	5	4	2	3	4	1	4	3	2	1	1	4	0	0	2
Consider interaction with adjacent as well as superordinate and subordinate (eco)systems.	1	0	2	2	0	1	0	0	1	0	0	1	1	1	1	0	1	0	1	1	1	0	0	0	1	0	0	1	0	1	0	1	0	0	1	0	1	1	0	2	2	1	2	1	1	1	0	0	0	2	1	1	1	0	0	2	0	0	1	
Align conservation goals and targets of different planning levels (systematic vertical nestedness)	2	1	2	2	2	1	0	0	0	0	1	1	2	0	1	0	0	0	1	0	1	1	0	0	1	0	1	0	0	1	1	1	1	1	1	0	0	2	1	2	1	2	1	2	2	1	1	2	0	1	2	1	1	1	1	0	0	0		
Align conservation goals, targets and strategies with other planning units of the same level (horizontal alignment).	2	1	1	1	1	1	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	1	1	1	2	1	0	1	1	2	1	1	0	0	1	0	1	0	0	1	0	0	1
Align conservation goals, targets and strategies with adjacent conservation sites (inter-protected area management).	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0
7 Adaptive management	1	4	0	4	3	1	1	0	3	0	0	3	2	2	3	1	0	0	0	0	1	2	0	0	1	1	0	1	2	0	1	0	0	1	1	0	5	1	4	5	2	3	3	2	0	2	0	1	1	2	1	1	2	0	0	0	3	0	0	1
Adopt an open, cyclic and iterative planning approach with continuous development allowing for flexibility and early action.	0	1	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0
Establish a strong systematic monitoring system aligning it along conservation targets and goals with the aim of measuring goal achievement.	1	1	0	1	1	1	0	0	1	0	0	2	1	0	1	1	0	0	0	0	1	1	0	0	1	1	0	1	0	0	0	0	0	1	1	0	2	0	1	2	1	1	1	1	0	1	0	0	1	1	0	0	1	0	0	0	0	0	0	1
Adapt the choice of conservation targets and goals as well as management activities to changing conditions (e.g., community changes) and goal achievement.	0	1	0	1	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0

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