

Technical background note

Draft typology of measures

This draft typology of measures is based on, and extends, the list of conservation measures for reporting under Article 17 of the Habitats Directive (2019-2024), the list of Key Types of Measures (KTMs) used for reporting under the Water Framework Directive, and the measures used for reporting under the Marine Strategy Framework Directive. The main principle is therefore to re-use existing typologies of measures to avoid additional administrative burden and to facilitate synergies with above-mentioned legislation.

Additional measures have been formulated based on expert identification and other existing typologies and lists (see references). Subsequent revisions to the structure and specific measures have been implemented in response to feedback from Member States' comments on previous drafts.

The measures are organized into groups according to the structure defined in the list of conservation measures for reporting under Article 17 of the Habitats Directive (2019-2024). Several existing measures have been slightly reformulated, in particular their description, to better reflect restoration objectives. Additional groups of measures or individual measures have been added to cover the breadth of restoration interventions related to the implementation of the Nature Restoration Regulation.

The draft typology contains **114 existing measures** and **27 proposed new measures**.

For the purposes of this typology, measures are defined as intentional activities and practices that are necessary to achieve concrete, time-bound and measurable targets and obligations required by the Nature Restoration Regulation. It is important to note that measures required to achieve one specific target of the NRL will, in many cases, contribute to achieving other targets and obligations and therefore they should be selected strategically.

The current draft typology was created with the collaboration of the EEA, the ETC BE and DG ENV. It is work in progress.

Colour coding

Measures from existing typologies (unchanged) <i>Measures taken directly from HD, WFD, MSFD reporting and unchanged.</i>
Measures from existing typologies partly modified (modified text highlighted) <i>Measures from HD, WFD, MSFD reporting reformulated to better reflect NRR objectives.</i>
New measures <i>New measures added to the list following literature review and expert assessment.</i>

Measure coding

NAMEXX Measure for which name and description is indicated

NAMEXX Measure(s) which correspond to the indicated measure. Please note that this relationship is only indicative. There could be different levels of correspondence (from partial to complete overlap). **Mapping of correspondence between NRR, HD, WFD and MSFD measures is still ongoing.**

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
Measures related to agricultural practices and agriculture-related habitats					
	MA01			Prevent conversion of natural and semi-natural habitats, and habitats of species into agricultural land	Preventing the conversion of natural and semi-natural habitats and habitats of species into agricultural land for production (arable or pasture) or into more intensively farmed land. Includes, for example, the conversion of grasslands or wetlands into arable land.
	MA02			Restore small landscape features on agricultural land	The restoration of small landscape features present on agricultural land that are important to wild fauna and flora for migration, dispersal, genetic exchange or as breeding/feeding habitats. Such features can be hedges, stone walls, ponds, small woods, ecotone zones, edges around fields, ditches, natural pathways.
	MA03			Maintain existing extensive agricultural practices and agricultural landscape features	Maintaining extensive agricultural management practices for existing arable or grazed land such as extensive grazing/mowing or traditional burning, and protecting small landscape features or elements (e.g. ecotone zones, hedges, stone walls, ponds small woods, edges around fields, ditches, ground paths). This also includes 'wildlife-friendly' management of hedges.
	MA04			Reinstate appropriate agricultural practices to address abandonment, including mowing, grazing, burning or equivalent measures	Reinstating agricultural practices to stop or slow down natural succession caused by the abandonment of agricultural land and/or insufficient land use. These practices can be of an agricultural nature, such as the re-introduction of grazing, or a substitute of those (e.g. use machinery to keep open habitats). This can also include conservation grazing (i.e. ecological management using agricultural practices such as grazing by domestic animals – goats, sheep, cattle, horses – without a farming purpose).
	MA05			Adapt mowing, grazing and other equivalent agricultural activities (e.g. burning)	Adapting the frequency, methods used and/or the timing of mowing/cutting of grasslands or of grazing by livestock in order to maintain / improve habitats or to avoid damage to species (e.g. nesting birds). This also includes the adaption and management of other equivalent activities (e.g. burning). Includes, for example, converting from intensively managed grassland to more extensive or reducing trampling by livestock.

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
	MA06			Stop mowing, grazing and other equivalent agricultural activities e.g., burning	Stopping (or avoiding) the mowing or cutting of grasslands or grazing by livestock in order to restore or improve habitats or to avoid damage to species (e.g., nesting birds); stopping (or avoiding) other equivalent activities.
	MA07			Re-establishment of Annex I agricultural habitats	Land previously used for either agriculture (e.g., arable land), forestry (e.g., poplar plantation) or another use being (re)established as an Annex I agricultural habitat type. Includes, for example, the re-establishment of an Annex I grassland from a forest plantation. This is a process that could take a long time to fully restore the habitat's structure and functions.
MX				Re-establishment of other (not agricultural) habitats	Land previously used for agriculture (e.g. arable land) being (re)established as habitat other than Annex I agricultural habitat type, for example as small landscape feature.
	MA08			Adapt soil management practices in agriculture	Adapting soil management practices (including tillage) to minimize or prevent loss of soil and its biodiversity.
	MA09			Manage the use of natural and synthetic fertilisers as well as chemicals in agricultural for plant and animal production	Managing (reducing or eliminating) the use of fertilisers (e.g. mineral, manure, sludge), pesticides, fungicides, seed coatings, herbicides, growth retardants, hormones and other chemicals used in plant production, rodenticides and other pest control products, wormers and other veterinary products used in animal production (e.g. diclofenac and/or other similar veterinary products).
	MA10			Reduce/eliminate point or diffuse source pollution to surface or ground waters (including marine) from agricultural activities	Reducing or eliminating point or diffuse source pollution from agricultural activities to surface and ground waters (e.g. due to large scale animal breeding or storage of farmyard waste and/or chemical products). This can also include developing and maintaining riparian buffer strips along water courses as a (spatially restricted) way of reducing 'diffuse' pollution to surface waters.
	MA11			Reduce/eliminate air pollution from agricultural activities	Reducing or eliminating air pollution due to agricultural activities
	MA12			Reduce/eliminate soil pollution from agricultural activities	Reducing or eliminating soil pollution due to agricultural activities.

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
	MA13			Manage agricultural drainage and water abstraction (incl. the restoration of drained or hydrologically altered habitats)	<p>Managing drainage and irrigation operations and infrastructures (such as surface and groundwater abstraction, construction and operation of dams or altering of hydrological flow of rivers) as well as managing or restoring the hydrological regime of drained agricultural areas (e.g. restoration of hydrological regimes of drained peatlands, hydrologically altered wetlands and freshwater habitats in agricultural areas). The management of drainage and irrigation can include the possible cessation of these activities.</p> <p>This measure also includes restoring other freshwater habitats or wetlands impacted by changes of hydrological functioning through activities such as building dams or surface water abstraction for agriculture.</p>
	MA14			Other measures related to agricultural practices and agriculture related habitats	Other measures related to agricultural practices or agriculture-related habitats not covered by other MA measures.
Measures related to forestry practices and forest related habitats					
	MB01			Prevent conversion of (semi-) natural habitats into forests and of (semi-) natural forests into intensive forest plantation	Preventing the conversion of natural and semi-natural habitats, as well as habitats of species, into forest (e.g. afforestation), preventing the conversion of natural and semi-natural forests into intensive forest plantations or monocultures.
	MB02			Maintain existing traditional forest management and exploitation practices	<p>Maintaining existing (traditional or extensive) forest management and exploitation practices to preserve habitats or habitats for species or to avoid species disturbance.</p> <p>This includes promoting forests with high nature conservation value (old growth forests, high proportion of dead wood etc.), maintaining traditional or extensive management, for example, to secure or develop old tree stocks, the old-growth and natural decay stages of forests (that are clearly beyond regular harvesting age), coppices, pollarding or secondary forest habitats (such as oak-hornbeam forest on potential beech habitats); maintaining the measures to favour the</p>

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					opening of closed woodlands, to preserve habitat continuity, to manage species composition, or to retain habitat tree groups. Includes also keeping aside wilderness areas and forest grazing.
	MB03			Reinstate forest management and exploitation practices	Reinstating (traditional or extensive) forest management and exploitation practices to preserve or to restore habitats or habitats for species targeted by the nature directives impacted by abandonment of traditional forestry use (e.g reinstating measures to favour the opening of closed woodlands, to preserve or restore habitat continuity, to manage species composition, or to retain habitat tree groups. Includes also keeping aside wilderness areas and forest grazing).
	MB04			Adapt/manage reforestation and forest regeneration	Adapting or managing reforestation to restore habitats and habitats of species including for example the conversion of clear-fell plantations to long-term native woodland or the adaptation of reforestation techniques such as using natural regeneration or fire.
	MB05			Adapt/change forest management and exploitation practices	Adapting or changing forest management and exploitation practices to preserve or to restore habitats/habitats of species targeted by the nature directives or to avoid species disturbance. This can involve adapting and changing management practices in order to secure or develop old stocks of trees, to maintain coppices, to retain dead and dying trees and stumps, to favour opening of closed woodlands, to preserve or restore habitat continuity, to manage species composition, to prevent forest wildfires; but also adapting the time and duration of forestry activities to avoid disturbance of species. However this excludes the management of drainage and irrigation, which are included under MB14.
	MB06			Stop forest management and exploitation practices	Stopping (or avoiding) forest management and exploitation practices e.g. to promote forests with high nature conservation value (old growth forests, high proportion of dead wood etc.), to preserve or to restore habitats or habitats for species targeted by the nature directives, or to avoid species disturbance. Includes the application of non-intervention management.

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
	MB08			Re-establishment of Annex I forest habitats	Land previously used for agriculture (e.g., arable land), for industrial forestry plantations (e.g., poplar or eucalyptus plantations), or other land cover being restored or (re)established as an Annex I forest habitat type. This could be, for example, re-establishing an Annex I alluvial forest from farmland. It could take decades to fully restore the habitat's structure and functions and it can include active restoration (seed sowing or planting new vegetation) or passive allowing natural succession.
MXX				Re-establishment of other (not forest) habitats	Land previously used for forestry (e.g. plantations) being (re)established as habitat other than Annex I forest habitat type, for example as grassland.
	MB09	KTM22		Manage the use of natural and synthetic fertilisers, liming and pest control in forestry	Managing, including reducing or eliminating, the use of pesticides, herbicides and pest control products, fertilisers (e.g. mineral, manure, sludge) or liming.
	MB10	KTM22		Reduce diffuse or point source pollution to surface or ground waters (incl. marine) from forestry activities	Reducing diffuse or point source pollution to surface and ground waters due to forestry activities.
	MB11	KTM22		Reduce air pollution from forestry activities	Implement measures to reduce air pollution caused by forestry activities, such as the use of heavy machinery and the processing and transportation of timber. Such measures may include adopting cleaner technologies and practices, such as electric or hybrid vehicles and equipment, using low-emission fuels, and optimizing the timing and location of activities to minimize air pollution impacts.
	MB12	KTM22		Reduce other types of pollution from forestry activities (such as noise and soil pollution)	Reducing pollution due to forestry activities, including but not limited to noise and soil pollution (Air pollution is to be reported under MB11).
	MB09 MB10 MB11 MB12	KTM22		Measures to prevent or control the input of pollution from forestry	

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
	MB13			Controlled burning of forests for nature conservation	The natural or controlled burning of forest habitat as a means to, for example, maintain the structural and functional aspects of ecosystems (e.g. as in mediterranean forest ecosystems), control alien invasive species that can have negative effects in compositional aspects of ecosystems, or for forest rejuvenation. The burning of adapted habitats is very often necessary for germination of particular plant species.
	MB14			Manage drainage and water abstraction for forestry (inc. restoration of drained or hydrologically altered habitats)	Managing drainage and water extraction operations and infrastructure (including surface and groundwater abstraction, construction and operation of dams and altering of hydrological flow of rivers) as well as managing or restoring the hydrological regime of drained forest areas. The management of drainage and irrigation can include the possible cessation of these activities. This measure also includes restoring freshwater habitats impacted by changes of hydrological functioning due to drainage for forestry.
	MB15			Other measures related to forestry practices and forest related habitats	Other measures related to forestry practices or forest habitats not covered by the other MB measures.
NEW Measures related to freshwater activities and freshwater related habitats					
		KTM5		Improving longitudinal continuity (e.g., establishing fish passes, removal of barriers, e.g. demolishing old dams).	
		KTM6		Improving hydromorphological conditions of water bodies other than longitudinal continuity	
		KTM7		Improvements in flow regime and/or	

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
				establishment of ecological flows	
		KTM17		Measures to reduce sediment from soil erosion and surface run-off	
MXX				Ecological maintenance and management (rivers)	Ecologically optimised maintenance practices, including sediment and vegetation management, management of (instream) vegetation (e.g., selective cuts, mosaic and phased mowing), and seasonal or tidal constraints on activity (e.g., maintenance outside the spawning period).
MXX				Restoring natural peatlands	Measures to restore natural peatland habitats, e.g. create preconditions for natural re-vegetation (e.g., by re-wetting, shrub removal, deforestation); planting peatland vegetation and reintroduction or diaspore transfer (e.g., by seeding or transplanting or transferring soil) or peatland species; and (re)instating extensive grazing or mowing regimes.
MXX				Rewetting of organic soils and/or drained peatlands	To be determined
MXX				Re-establishing peatlands	To be determined
MXX				Restoring natural wetlands	Measures to restore natural terrestrial vegetation e.g. by seeding, spreading fresh topsoil, using nurse plants; adding fertiliser if needed; controlling non-native vegetation (e.g., removing non-native weed species using fire or solarisation); monitoring and control of herbivores; (re)instating extensive wetland grazing or mowing regimes; creating vegetation rings around central open water, for creating a zonation of plant communities along an elevation/hydroperiod gradient (coenoclines) (e.g., inland marshes); and disking (practice of mixing the topsoil layer to remove existing vegetation).
MXX				Re-establishing wetlands	Measures to restore natural topography e.g.: using excavation, including microtopographic features; flatten riparian zones (e.g., remove foreland, create natural-like irregularities); and implementing a gentle slope between open water/wetland and upland for access for terrestrial fauna (e.g., amphibians). Measures to restore soil conditions e.g.: transplanting or replacing wetland soil; minimising soil compaction during construction/excavation; incorporating fertiliser and organic matter if needed.

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					Measures to restore vegetation e.g. by replanting or seeding.
MXX		<i>KTM99</i>		Other measures related to freshwater practises and freshwater habitats	Other measures related to freshwater practices and freshwater habitats.
<i>MXX</i>		KTM99		Other key type measure reported under POM	
NEW Measures related to marine activities and marine habitats					
			MSFD26	Physical loss	Measures to reduce physical loss of seabed habitats in the marine environment (beyond WFD coastal waters)
			MSFD27	Physical damage	Measures to reduce physical damage to the marine environment (beyond WFD Coastal waters)
			MSFD28	Energy inputs	Measures to reduce inputs of energy to the marine environment, including underwater noise
			MSFD29	Litter	Measures to reduce marine litter
			MSFD30	Hydrological processes	Measures to reduce interferences with hydrological processes in the marine environment (beyond WFD Coastal waters)
			MSFD31	Contamination	Measures to reduce contamination by hazardous substances (synthetic substances, non-synthetic substances, radio-nuclides) and the systematic and/or intentional release of substances in the marine environment from sea-based or air-based sources
			MSFD32	Accidental pollution	Measures to reduce sea-based accidental pollution
			MSFD33	Nutrient enrichment	Measures to reduce nutrient and organic matter inputs to the marine environment from sea-based or air-based sources
			MSFD36	Other biological disturbance	Measures to reduce other types of biological disturbance, including death, injury, disturbance, translocation of native marine species, the introduction of microbial pathogens and the introduction of genetically-modified individuals of marine species (e.g. from aquaculture)
MXX				Re-establishment of habitat types and habitats of species	Active habitat restoration approaches through direct intervention on the seabed, such as providing new substrate suitable for the settlement of the species/habitats (e.g., clutching for oyster beds); transplanting of specimens on areas where habitats were destroyed; restocking by

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					releasing specimens (from wild broods or -in some cases- farmed); and releasing larvae in areas suitable for their settlement (e.g., algal forests). Active restoration measures of important habitat types, such as seagrass and kelp forests, can be achieved by planting relocated plants from healthy meadows or seedlings of kelp on pebbles. Blue infrastructure can also be an opportunity to contribute to active restoration and promote the return of marine life creating artificial coral/oyster/boulder reefs.
MXX				Re-establishment of habitats through support to undisturbed natural processes	Leaving natural processes essentially undisturbed, for example through designation and effective management of strictly protected marine areas (see the list of enabling measures).
MXX			MSFD39	Other measures related to marine activities and marine habitats	Other measures related to marine activities and marine habitats
MXX			MSFD39	Other measures	Other measures
NEW Measures related to urban habitats					
MXX				Change of land use, towards urban green / blue	Creation of new parks or woodlands or water courses, such as, for example through the conversion of derelict or abandoned land
MXX				Greening of existing buildings / developments	Integration/retrofitting of green roofs/walls onto existing buildings, and/or green space and trees in the land around buildings
MXX				Greening of new buildings / developments	Minimum requirements for integration of green roofs/walls onto new buildings, and/or green space and trees in the land around new buildings/developments
MXX				Greening of existing transport routes	Addition of trees, shrubs, grasses and/or flowers to streets, or public transport lines (train or tram)
MXX				Greening of new transport infrastructure	Minimum requirements for inclusion of green space/trees into new transport developments (road, rail etc)

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
MXX				Use of specific nature-based solutions	Such as the creation of urban wetlands for flood protection
MXX				Greening of public spaces	Adding/increasing the levels of green space and/or trees to public spaces, including creation of permeable, tree covered parking areas.
Measures related to resources extraction and energy production					
	MC01			Adapt/manage extraction of non-energy resources	Adapting and managing (including stopping and avoiding) the extraction of minerals and non-energy resources (e.g., sand, gravel, loam, clay and peat extraction for plant compost or other horticultural purposes) as well as adapting and managing the extraction of salt. Also includes reducing the impact from geotechnical surveying and other preparatory work for extraction.
	MC02			Adapt/manage exploitation of energy resources	Adapting and managing (including stopping and avoiding) the exploitation of energy resources (coal mining, incl. open-cast mining, peat extraction, oil and gas exploration and drilling). Also includes reducing the impact from geotechnical surveying and other preparatory works for extraction.
	MC03			Adapt/manage renewable energy installation, facilities and operation (excl. hydropower and abstraction activities)	Adapting and managing (including stopping and avoiding) installation and operation of renewable energy infrastructure (excluding hydropower and abstraction). This also includes measures to mitigate impact of wind farms such as avoiding building turbines at sensitive sites (e.g., migration bottlenecks), turning off turbines under certain conditions and/or particularly problematic times of year (e.g., peak migration). Mitigating impacts from hydropower activities should be reported under conservation measure MC04 and impacts from activities relating to abstraction of surface or groundwater should be reported under MC12.
	MC04			Reduce impact of hydropower operation and infrastructure	Reducing/minimizing the impact of hydropower infrastructures (such as dams, weirs, reservoirs) and their operation (e.g., hydropeaking) on freshwater habitats and species. This can include building and managing fish passages or regulating water flows.
	MC05			Adapt/manage fossil energy installation, facilities and operation	Adapting and managing the installation of and operation of fossil energy infrastructure (e.g., powerplants). Oil and gas pipelines should be addressed under MC06.

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
	MC06			Reduce impact of service corridors and networks	Reducing the impact of service corridors, transmission lines and communication networks (electricity, telecommunications such as cables and powerlines, oil and gas pipelines) on habitats and species targeted by the nature directives. This includes for example modifying power lines to prevent bird electrocution or developing green/blue infrastructure to improve connectivity.
	MC07			Habitat restoration/creation from resources, exploitation areas or areas damaged due to installation of renewable energy infrastructure	Land previously used or prepared for mineral extraction (e.g., gravel extraction, quarry), energy resources extraction (e.g., coal or peat) or damaged due to depositing of extraction material or due to construction and operation of renewable energy infrastructure being restored as Annex I habitat type and/or habitat of a species targeted by the nature directives. This includes both active or passive restoration allowing for natural succession. Excludes restoration of agricultural and forest habitats which should be reported under MA07 or MB08 respectively and restoration of habitats damaged due to construction and operation of hydropower infrastructure, which should be reported under MC04.
	MC08			Manage/reduce/eliminate point or diffuse source pollution to surface or ground waters-from resource exploitation and energy production	Managing, reducing or eliminating point or diffuse source pollution to surface or ground waters caused by the extraction and exploitation of minerals and energy resources (e.g., from mine waters), and energy production.
	MC09			Manage/reduce/eliminate air pollution from resource exploitation and energy production	Managing, reducing or eliminating air pollution related to resource exploitation and energy production such as the combustion of fossil or bioenergy fuels.
	MC10			Manage/reduce/eliminate marine pollution from resource exploitation and energy production	Managing, reducing or eliminating marine pollution related to resource exploitation and energy production.
	MC11			Manage/reduce/eliminate pollution types related to resource exploitation and energy production, (including but not limited	Reducing or eliminating noise and light pollution, electromagnetic pollution, thermal heating of water bodies or localised heating of the sea related to resource exploitation and energy production. Includes also the reduction/elimination of noise pollution from sonar and geological surveys at sea.

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
				to noise, light, thermal and soil pollution).	
	MC12			Manage water abstraction for resource extraction and energy production	Managing surface and ground water abstraction for extraction/exploitation of resources and energy production. This includes the management of activities, processes and infrastructures associated with water abstraction. (This excludes the management of drainage and water abstraction activities related to extraction and exploitation, e.g., peat drainage - MC02 or abstraction of mine waters - MC01).
	MC13			Other measures related to extraction and energy exploitation activities	Other measures related to the extraction and energy exploitation activities.
Measures related to development and operation of transport systems					
	ME01			Reduce impact of transport operation and infrastructure	Reducing the impact of transport infrastructures (roads, railroads, bridges, viaducts, tunnels, shipping lanes and canals, locks, ports, airfields) and transport operations on habitats and species targeted by the nature directives. This includes for example, building and managing passages for animals, developing green/blue infrastructure, managing marine and fluvial traffic and infrastructure to, for example, reduce erosion of banks and deterring (e.g. by letting grass grow long or employing active 'scaring' tactics) birds from using airfield/airports. Also includes any measures to reduce noise and light pollution. Regulating traffic or construction of traffic infrastructure in order to reduce chemical/particulate pollution should be reported under code ME03.
	ME02			Manage/reduce/eliminate pollution to surface or ground water from transport	Managing, reducing or eliminating point or diffuse pollution to surface and ground waters due to land, water, and air-based transport (e.g. cars, boats, airplanes).
	ME03			Manage/reduce/eliminate air pollution from transport	Managing, reducing or eliminating air pollution due to land, water or air-based transport (e.g. cars, boats, airplanes).

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
	ME04			Manage/reduce/eliminate marine pollution from transport	Managing, reducing or eliminating marine pollution due to transport activities and infrastructure.
	ME05			Manage/reduce/eliminate noise, light and other forms of pollution from transport	Managing, reducing or eliminating noise, light and other forms of pollution related to land, water and air-based transport (e.g. cars, boats, airplanes).
	ME07			Other measures related to transport	Other measures related to transport
Measures related to residential, commercial, industrial and recreational infrastructures, operations and activities					
	MF03			Reduce impact of outdoor sports, leisure and recreational activities	Reducing the impact of outdoor sports, leisure and recreational activities (e.g. camping, skiing, mountaineering, boating, wildlife watching - bird and whale watching) on terrestrial, freshwater and marine habitats and species, and managing these activities. Also includes restoration of habitats impacted by outdoor sports, leisure and recreational activities. Excludes measures addressing changes in hydrological and coastal systems and regimes for construction and development, which should be reported under MF08.
	MF04			Reduce/eliminate pollution to surface or ground waters from commercial, residential and recreational areas and activities, and from industrial activities and structures	Reducing or eliminating pollution to surface and ground waters from industrial, commercial, residential and recreational areas and activities. This includes reducing/eliminating discharges from industrial and urban waste water treatment plants, or reducing/eliminating point source pollution from contaminated or abandoned industrial sites, from household waste dumps, from sewage networks or leakages from waste disposal sites.
	MF05			Reduce/eliminate air pollution from industrial, commercial, residential	Reducing or eliminating chemical and micro-particulate point and diffuse pollution to air from industrial, commercial, residential and recreational areas and activities.

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
				and recreational areas and activities	
	MF06			Reduce/eliminate marine pollution from industrial, commercial, residential and recreational areas and activities (incl. contamination with litter)	Reducing or eliminating chemical point and diffuse source pollution to marine waters from industrial, commercial, residential and recreational areas and activities.
	MF07			Reduce/eliminate pollution (incl. noise, light, heat, soil pollution) from industrial, commercial, residential and recreational areas and activities	Reducing or eliminating noise, light, heat, electromagnetic or other types of pollution from industrial, commercial, residential and recreational areas and activities. Excludes measures to reduce noise and light pollution from sport and leisure activities (MF03).
	MF08			Manage changes in hydrological and coastal systems and regimes for construction and development-(incl. restoration of habitats).	<p>Managing construction and development activities causing changes in hydrological conditions and coastal systems (e.g. drainage, land reclamation, conversion of wetlands, modification of flooding regimes, flood protection infrastructure and operations, building of dams and reservoirs, coastal protection and sea defence) associated with residential, commercial, industrial and recreational areas and activities.</p> <p>This includes restoring freshwater habitats and wetlands impacted by changes of hydrological functioning like building dams or canalisation for flood protection.</p> <p>Measures addressing impacts due to outdoor sports, leisure and recreational activities should be reported under MF03.</p>
	MF09			Adapt the management of water abstraction for public supply and for industrial and commercial use to reduce negative impacts on habitats and	<p>Adapting the management of abstracting ground and surface water for industrial and commercial use, as well as for public water supply (including, for example, drinking water, water for urban watering of parks and gardens and irrigation of golf courses).</p> <p>This includes also restoring freshwater habitats impacted by changes of hydrological functioning like building dams for surface water abstraction.</p>

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
				species (incl. restoration of habitats)	
	MF10			Other measures related to residential, commercial, industrial and recreational infrastructures, operations and activities	Other measures related to residential, commercial, industrial and recreational infrastructures, operations and activities. Includes, for example, measures to regulate/adapt the reconstruction and renovation of buildings (important for nesting and sheltering of bats and birds) for example, by regulating timing of those interventions. Includes reducing the use of pesticides and fertilisers on lawns, hedges and fences.
Measures related to the effects of extraction and cultivation of biological living resources					
	MG01	KTM19, KTM20	MSFD35	Management of professional/commercial fishing, shellfish and seaweed harvesting	Managing of e.g. quantities, methods, periods, areas, and species for professional fishing; and shellfish and seaweed harvesting in marine, coastal and inland waters. This can include enforcement and control of e.g. fishing quotas and other regulations or stopping/avoiding fishing. Managing methods and periods for fishing to reduce bycatch and/or incidental killing should be included under MG05.
	MG02	KTM19, KTM20	MSFD35	Management of hunting, recreational fishing, and the recreational or commercial harvesting or collection of plants and fungi	Managing methods, periods, areas, quotas and species for hunting, recreational angling, recreational shellfish harvesting and recreational or commercial harvesting of plants (including fruits) and mushrooms. This can include stopping or avoiding hunting, recreational fishing, harvesting or collecting.
	MG01. MG02	KTM19	MSFD35	Measures to prevent or control the adverse impacts of recreation including angling	
	MG01. MG02	KTM20	MSFD35	Measures to prevent or control the adverse impacts of fishing and other	

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
				exploitation/removal of animal and plants	
	MG01. MG02	KTM19, KTM20	MSFD35	Extraction of species	Measures to reduce biological disturbances in the marine environment from the extraction of species including incidental non-target catches
	MG03			Reducing the impact of (re-) stocking for fishing and hunting, of artificial feeding and predator control	Reducing the impacts caused by (re-) stocking fish and game species, artificial game feeding, culling of possible predators or competitors of game species (illegal persecution of predators such as raptor persecution should be reported under MG04) and reducing the impact of other similar activities related to management of game and fishing stocks.
	MG04	KTM19, KTM20	MSFD35	Control/eradication of illegal killing, fishing and harvesting of wild plants, fungi and animals	Controlling, through enforcement, the illegal killing, fishing and harvesting of fish, shellfish, plant species or fungi, including the use of illegal methods or the taking protected species.
	MG05			Reduce bycatch and incidental killing of non-target species	Introducing or adapting practices to reduce bycatch or incidental killing from commercial and recreational use and exploitation of species (e.g. by adapting methods or periods for fishing).
	MG06			Reduce impact of lead poisoning	Reducing impact of lead ammunition or fishing weights.
	MG07			Manage changes in coastal conditions for marine aquaculture	Managing changes to coastal conditions due to the installation, maintenance and operation of marine/coastal aquaculture facilities for fish, shellfish, plants or algae. This can include, for example, regulating or minimising the effect of dredging. Restoration of coastal habitats and wetlands impacted by changes of coastal conditions due to marine aquaculture are to be reported under MG12.
	MG08			Reduce/eliminate diffuse and point source pollution from marine aquaculture	Reducing or eliminating pollution to marine waters from marine/coastal aquaculture (fish, shellfish, plants, algae).
	MG09			Other measures to reduce impacts from aquaculture infrastructures and operation	Other measures to reduce the impact from aquaculture such as impacts from the introduction of new species. Includes maintaining existing extensive aquaculture.

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
	MG10			Manage water abstraction and modification of hydrological conditions for marine and freshwater aquaculture	Managing water abstraction and modification of hydrological conditions (e.g., weirs, canals, small dams, water deviation) due to installation, maintenance and operation of freshwater aquaculture of fish, plants and algae.
	MG11			Reduce/eliminate point and diffuse source pollution to surface waters from freshwater aquaculture	Reducing or eliminating point and diffuse source pollution to surface waters from freshwater aquaculture (e.g. due to feeding, use of antibiotics or fertilisation).
	MG13			Other measures related to exploitation of species	
Measures related to military installations and activities and other specific human activities					
	MH01			Reduce impact of military installations and activities	Reducing the impact of military sites, infrastructures, exercises and operations.
	MH02			Adapt/maintain military activities	Adapting or maintaining military activities for nature protection objectives; use of military activity to maintain habitats (e.g., use disturbance from military exercises to maintain open habitats). Habitat restoration of areas related to military installations and activities and other specific human activities are to be reported under MH04.
	MH03			Reduce impact of other specific human activities	Reducing the impact from specific human actions not included in other categories. (e.g., from property fences and walls, closure of caves and gallery entrances, felling roadside trees or from civil unrest and vandalism).
	MH04			Habitat restoration of areas related to military installations and activities and other specific human activities.	Land used for military activity (e.g., army grounds, camps, training facilities, storage facilities or other military infrastructures) or land impacted by specific human actions not included in other categories being (re)established/restored as habitat. Includes terrestrial, coastal and marine habitats.

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
Measures related to alien and problematic native species					
	MI01	KTM18	MSFD 34	Early detection and rapid eradication of invasive alien species of Union concern	Controlling invasive alien species of Union concern (under Regulation (EU) No 1143/2014) through establishing and operating a system of early detection, monitoring and rapid eradication. This also includes measures to prevent, or reduce the likelihood of the establishment and entry of invasive alien species.
	MI02	KTM18	MSFD 34	Management, control or eradication of established invasive alien species of Union concern	Managing and controlling established invasive alien species of Union concern (under Regulation (EU) No 1143/2014) through establishing and operating a management system of monitoring and eradicating (e.g., culling of Ruddy duck - <i>Oxyura jamaicensis</i>).
	MI03	KTM18	MSFD 34	Management, control or eradication of other invasive alien species	Managing, controlling the spread of other 'invasive' alien species (i.e., any species introduced in modern period that is established in the wild outside its natural range and whose introduction and/or spread represents a threat or a potential threat to habitats and species, regardless of the invasive population dynamics (e.g., controlling <i>Acacia</i> spp.)) or eradicating established populations of other alien species.
	MI05	KTM18	MSFD 34	Management of problematic native species	Managing native plants and animals that have become out-of-balance directly or indirectly due to human activities and, in certain regions, may be causing damage to particular habitats (e.g., deer jeopardising forest restoration) or threatening population of target species (e.g., gulls predated on eggs and chicks of a threatened bird). This also includes managing impacts of feral populations.
	MI06	KTM18	MSFD 34	Controlling and eradicating plant and animal diseases, pathogens and pests	Controlling and eradicating plant and animal diseases, pathogens and pests (including insect and nematode pests).
				Other measures related to alien and problematic native species	

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
	MI01, MI02, MI03, MI04, MI05, MI06	KTM18	MSFD34	Measures to prevent or control the adverse impacts of invasive alien species and introduced diseases	
	MI01, MI02, MI03, MI04, MI05, MI06	KTM18	MSFD34	Non-indigenous species	Measures to reduce the introduction and spread of non-indigenous species in the marine environment and for their control
Measures related to climate change					
	MJ01			Implement climate change mitigation measures	Adoption and implementation of general climate change mitigation measures. These are generally taken in a broader scale and not specifically for alleviating pressure on habitats and species. Therefore, this 'conservation measure' should only be noted when the main pressure is climate change and mitigation measures are being implemented.
	MJ02			Implement climate change adaptation measures	Implementation of specific climate change adaptation measures to address specific pressures on habitats and species (e.g., managing an interconnected network of habitats / protected areas, to facilitate the adaptive dispersal of key species in the context of shifts in suitable 'climate envelopes').
Measures related to mixed source pollution and human-induced changes in hydraulic conditions for several uses					
	MK01			Reduce impact of mixed source pollution	Reducing the impact of pollution in situations where no specific driver can be identified.
	MK02			Reduce impact of multi-purpose hydrological changes	Reducing the impact of landfilling, removal of sediments, canalisation, water deviation, flooding regime modification and other modifications of hydrological functioning or physical characteristics of water bodies, which cannot be easily associated with one of the categories above.

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
	MK03			Restoration of habitats impacted by multi-purpose hydrological changes	Restoring freshwater, wetlands and coastal habitats impacted by multi-purpose hydrological modifications. This excludes restoration of-habitats reported under MA07, MA13, MB08, MB14, MC04, ME06, MF08 or MF09.
	MK04			Other measures related to mixed source pollution.	Other measures related to mixed source pollution.
	MK05			Other measures related to multi-purpose human-induced changes in hydraulic conditions.	Any other measures that are related to multi-purpose human-induced changes in hydraulic conditions not already covered in sector MK above.
Measures related to natural processes, geological events and natural catastrophes					
	MM01			Management of habitats (others than agriculture and forest) to slow, stop or reverse natural processes that occur without direct or indirect influence from human activities or climate change	<p>Managing habitats (biotic and abiotic factors), excluding agriculture and forest-related habitats, to slow down, stop or reverse natural processes. This can include abiotic natural processes (e.g., erosion, silting up, drying out, salinization, eutrophication or acidification), natural succession of vegetation (in open early succession stage habitats), natural accumulation of organic material, which is not a result of human activity, or lack of human activities. For example, if measures address drying out which is a result of a human induced modification of hydrological conditions, it should not be reported under this category.</p> <p>Includes, for example, managing and restoring natural open (early-succession stage) habitats impacted by natural processes (e.g., maintaining heathland to prevent them from being overgrown by trees by grazing, conservation burning).</p>
	MM02			Minimise/prevent impacts of geological and natural catastrophes	Minimising (and when possible, preventing) the impacts of geological events (e.g., volcanic activity) and extreme natural events (e.g., tidal waves, storms, landslides, flooding, wild fires) on habitats and species.
	MM03			Restoration of habitats following geological and natural catastrophes	Restoring habitats and species after the occurrence of geological events (e.g., volcanic activity) and extreme natural events (e.g., tidal waves, storms, landslides, flooding, wild fires).

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
	MM04			Other measures related to natural processes	Other measures related to natural processes e.g., control of natural competitors, predators or diseases of species targeted by the nature directives.
Measures related to restoration of habitats of species from the nature directives and other native species relevant for the targets					
	MS01			Reinforce populations of species from the directives	Reinforcing populations of species targeted by the nature directives, including population enhancement through restocking, strengthening of extant populations by seeding, relocation, use of genetic analysis and transfer from captivity or through cultivation. Excludes restoring habitats for species (see e.g., MS03).
	MS02			Reintroduce species from the directives	Reintroduction of species targeted by the nature directives to former sites from other populations or ex-situ conservation through specific reintroduction programmes. Excludes restoring habitats for species (see e.g., MS03).
	MS03			Restoration of habitat of species from the nature directives	Improvement of conditions for the species from the nature directives through specific measures that cannot be readily achieved by other pressure specific measures or pressure specific measures cannot be identified. This includes, for example, the creation or restoration of landscape features on non-agricultural lands that are important to wild fauna and fauna for migration, dispersal, genetic exchange or as breeding/feeding habitats like ponds for amphibians, boosting reproductive success by installing nest boxes and platforms (as a substitute measure for lack of natural nesting cavities due to inappropriate forest management practices) or supplementary feeding (possibly carried out to mitigate a particular threat, such as 'natural' carcasses containing diclofenac, but also often carried out at as a broader measure to compensate for cumulative human pressures on natural habitats and food resources). Such habitat of the species can be small landscape features like hedges, stone walls, ponds, small woods, ecotone zones, edges around fields, ditches, natural pathways, or larger habitat areas.
	MS04			Restoring and managing native species as part of restoration of habitats	Managing native plants and animals important for the restoration of habitats (e.g., managing keystone species of habitats) or for the survival of certain species (e.g., managing prey and their habitat, like wild rabbits as prey for Iberian lynx and Spanish Imperial Eagle <i>Aquila adalberti</i>).

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
					Includes reintroduction of crucial host species or other positively interacting species (like pollinators).
MXX				Other measures related to restoration of habitats of species from the nature directives and other native species relevant for the targets	Other measures related to restoration of habitats of species from the nature directives and other native species relevant for the targets
Measures outside the Member State					
	MX01			Support conservation measures in another EU Member State	Supporting the implementation of conservation measures in other EU Member States (e.g., financing, -capacity building).
	MX02			Support conservation measures in countries outside the EU	Supporting the implementation of measures in countries outside the EU (e.g., financing, capacity building).
NEW Enabling and supporting measures					
MXX				Education and awareness raising	Formal education, training, communication activities
MXX				Adopting new policy and legislation	Adopting new sub-national or national policy and legislation
MXX				Compliance and enforcement	Enforcement of legislation and compliance promotion, including inspections
MXX				Economic and other incentives	Incentives, including tax-related or market incentives, alternatives for livelihood, payments and compensations

M code (NRR)	CM code (HD)	KTM code (WFD)	MSFD code	Measure name	Description
MXX				Designation and effective management of protected areas	As defined in the Commission staff working document “Criteria and guidance for protected areas designations” (2022) in relation to the 30% target (see https://environment.ec.europa.eu/system/files/2022-01/SWD_guidance_protected_areas.pdf)
MXX				Designation and effective management of strictly protected areas	As defined in the Commission staff working document “Criteria and guidance for protected areas designations” (2022) in relation to the 10% target (see https://environment.ec.europa.eu/system/files/2022-01/SWD_guidance_protected_areas.pdf)
MXX				Other enabling and supporting measures	Other enabling and supporting measures relevant for the targets

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