United Nations Convention to Combat Desertification Performance review and assessment of implementation system Seventh reporting process

Report from Estonia



United Nations

Convention to Combat Desertification



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SO1-1 Trends in land cover

Land area

SO1-1.T1: National estimates of the total land area, the area covered by water bodies and total country area

Year	Total land area (km²)	Water bodies (km²)	Total country area (km²)	Comments
2 001	42 713	2 626	45 339	
2 005	42 713	2 626	45 339	
2 010	42 713	2 626	45 339	
2 015	42 713	2 626	45 339	
2 019	42 713	2 626	45 339	

Land cover legend and transition matrix

SO1-1.T2: Key Degradation Processes

Degradation Process Starting Land Cover Ending Land Cover

Are the seven UNCCD land cover classes sufficient to monitor the key degradation processes in your country?

Yes

🔿 No

SO1-1.T4: UNCCD land cover legend transition matrix

Original/ Final	Tree-covered areas	Grasslands	Croplands	Wetlands	Artificial surfaces	Other Lands	Water bodies
Tree-covered areas	0	-	-	-	-	-	0
Grasslands	+	0	+	-	-	-	0
Croplands	+	-	0	-	-	-	0
Wetlands	-	-	-	0	-	-	0
Artificial surfaces	+	+	+	+	0	+	0
Other Lands	+	+	+	+	-	0	0
Water bodies	0	0	0	0	0	0	0

Land cover

SO1-1.T5: National estimates of land cover (km²) for the baseline and reporting period

	Tree-covered areas (km²)	Grasslands (km²)	Croplands (km²)	Wetlands (km²)	Artificial surfaces (km²)	Other Lands (km²)	Water bodies (km²)	No data (km²)
2000	24 147	3 036	10 065	1 687	3 332	446	2 626	
2001	24 191	3 055	10 020	1 680	3 330	437	2 626	
2002	24 226	3 067	9 986	1 676	3 329	429	2 626	
2003	24 264	3 071	9 952	1 670	3 335	421	2 626	
2004	24 297	3 070	9 921	1 666	3 345	415	2 626	

SO-1: To improve the condition of affected ecosystems, combat desertification/land degradation, promote sustainable land management and contribute to land degradation neutrality.

	Tree-covered areas (km²)	Grasslands (km²)	Croplands (km²)	Wetlands (km²)	Artificial surfaces (km²)	Other Lands (km²)	Water bodies (km²)	No data (km²)
2005	24 327	3 059	9 895	1 663	3 357	412	2 626	
2006	24 353	3 039	9 871	1 663	3 375	411	2 626	
2007	24 375	3 017	9 852	1 662	3 395	411	2 626	
2008	24 390	2 997	9 838	1 663	3 413	412	2 626	
2009	24 400	2 973	9 830	1 665	3 431	414	2 626	
2010	24 407	2 955	9 822	1 666	3 448	414	2 626	
2011	24 419	2 938	9 816	1 666	3 463	412	2 626	
2012	24 431	2 916	9 810	1 666	3 480	411	2 626	
2013	24 442	2 890	9 810	1 666	3 496	410	2 626	
2014	24 449	2 863	9 814	1 665	3 512	411	2 626	
2015	24 452	2 833	9 823	1 665	3 529	411	2 626	
2016	24 452	2 805	9 832	1 664	3 548	413	2 626	
2017	24 447	2 783	9 844	1 662	3 561	416	2 626	
2018	24 442	2 764	9 853	1 661	3 575	417	2 626	
2019	24 438	2 753	9 856	1 659	3 588	419	2 626	
2020								

Land cover change

SO1-1.T6: National estimates of land cover change (km²) for the baseline period

	Tree-covered areas (km²)	Grasslands (km²)	Croplands (km²)	Wetlands (km²)	Artificial surfaces (km²)	Other Lands (km²)	Water bodies (km²)	Total (km²)
Tree-covered areas (km²)	23 921	40	11	29	126	22		24 149
Grasslands (km²)	254	2 549	176	4	50	3		3 036
Croplands (km²)	137	221	9 636	0	65	4		10 063
Wetlands (km²)	66	3	0	1 617	0	1		1 687
Artificial surfaces (km²)	30	7	0	14	3 282	0		3 333
Other Lands (km²)	45	12	0	0	7	381		445
Water bodies (km²)	0						2 626	2 626
Total	24 453	2 832	9 823	1 664	3 530	411	2 626	

SO1-1.T7: National estimates of land cover change (km²) for the reporting period

-	Tree-covered areas (km²)	Grasslands (km²)	Croplands (km²)	Wetlands (km²)	Artificial surfaces (km²)	Other Lands (km²)	Water bodies (km²)	Total land area (km²)
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SO-1: To improve the condition of affected ecosystems, combat desertification/land degradation, promote sustainable land management and contribute to land degradation neutrality.

	Tree-covered areas (km²)	Grasslands (km²)	Croplands (km²)	Wetlands (km²)	Artificial surfaces (km²)	Other Lands (km²)	Water bodies (km²)	Total land area (km²)
Tree-covered areas (km²)	24 386	13	6	4	36	7		24 452
Grasslands (km²)	38	2 730	52	0	12	0		2 832
Croplands (km²)	3	9	9 797	1	11	1		9 822
Wetlands (km²)	8	1	0	1 654	1	0		1 664
Artificial surfaces (km²)	1	0	0	0	3 528	0		3 529
Other Lands (km²)	1	0	0	0	0	410		411
Water bodies (km²)							2 626	2 626
Total	24 437	2 753	9 855	1 659	3 588	418	2 626	

Land cover degradation

SO1-1.T8: National estimates of land cover degradation (km²) in the baseline period

	Area (km²)	Percent of total land area (%)
Land area with degraded land cover	637	1.4
Land area with non-degraded land cover	44 702	98.6
Land area with no land cover data	0	0.0

SO1-1.T9: National estimates of land cover degradation (km²) in the reporting period

	Area (km²)	Percent of total land area (%)
Land area with improved land cover	97	0.2
Land area with stable land cover	45 137	99.6
Land area with degraded land cover	105	0.2
Land area with no land cover data	0	0.0

General comments

IPCC classification has been used for land cover classes.

SO1-2 Trends in land productivity or functioning of the land

Land productivity dynamics

SO1-2.T1: National estimates of land productivity dynamics (in km²) within each land cover class for the baseline period

		Net land product	ivity dynamics (km	²) for the baseli	ne period	
Land cover class	Declining (km ²)	Moderate Decline (km ²)	Stressed (km ²)	Stable (km²)	Increasing (km²)	No Data (km²)
Tree-covered areas						
Grasslands						
Croplands						
Wetlands						
Artificial surfaces						
Other Lands						
Water bodies						

SO1-2.T2: National estimates of land productivity dynamics (in km²) within each land cover class for the reporting period.

Land cover class		Net land producti	vity dynamics (km	²) for the reporti	ng period	
Land cover class	Declining (km²)	Moderate Decline (km ²)	Stressed (km ²)	Stable (km²)	Increasing (km²)	No Data (km²)
Tree-covered areas						
Grasslands						
Croplands						
Wetlands						
Artificial surfaces						
Other Lands						
Water bodies						

SO1-2.T3: National estimates of land productivity dynamics for areas where a land conversion to a new land cover class has taken place (in km²) for the baseline period.

Land Conversion Net land productivity dynamics (km ²) for the base					or the baseline peri	iod	
From	То	Net area change (km²)	Declining (km ²)	Moderate Decline (km ²)	Stressed (km ²)	Stable (km²)	Increasing (km ²)

SO1-2.T4: National estimates of land productivity dynamics for areas where a land conversion to a new land cover class has taken place (in km²) for the reporting period.

Land Conversion			Net land pro	ductivity dynamics (km²) fo	or the reporting per	iod	
From	То	Net area change (km²)	Declining (km ²)	Moderate Decline (km²)	Stressed (km ²)	Stable (km²)	Increasing (km ²)

Land Productivity degradation

SO1-2.T5: National estimates of land productivity degradation in the baseline period

	Area (km²)	Percent of total land area (%)
Land area with degraded land productivity		0.0
Land area with non-degraded land productivity		0.0
Land area with no land productivity data		0.0

SO1-2.T6: National estimates of land productivity degradation in the reporting period

	Area (km²)	Percent of total land area (%)
Land area with improved land productivity		0.0
Land area with stable land productivity		0.0
Land area with degraded land productivity		0.0
Land area with no land productivity data		0.0

SO1-3 Trends in carbon stocks above and below ground

Soil organic carbon stocks

SO1-3.T1: National estimates of the soil organic carbon stock in topsoil (0-30 cm) within each land cover class (in tonnes per hectare).

Voor	Soil organic carbon stock in topsoil (t/ha)								
real	Tree-covered areas	Grasslands	Croplands	Wetlands	Artificial surfaces	Other Lands	Water bodies		
2000	170	170	144	271	212	228	11		
2001	171	168	143	271	204	228	11		
2002	171	167	142	270	199	214	11		
2003	171	167	142	270	193	212	11		
2004	173	163	139	268	189	208	11		
2005	173	162	139	268	168	198	11		
2006	174	161	139	268	162	198	11		
2007	174	160	138	266	152	184	11		
2008	175	159	137	266	148	176	11		
2009	175	158	137	266	146	174	11		
2010	176	156	135	264	144	168	11		
2011	177	155	135	260	143	164	11		
2012	177	154	134	258	140	164	11		
2013	178	154	134	255	139	164	11		
2014	178	154	134	252	138	157	11		
2015	178	154	133	256	132	154	11		
2016	177	155	135	255	130	153	11		
2017	177	155	135	255	129	150	11		
2018	177	154	134	253	129	151	11		
2019	177	154	134	251	128	151	11		
2020									

If you opted not to use default Tier 1 data, what did you use to calculate the estimates above? Modified Tier 1 methods and data

○ Tier 2 (additional use of country-specific data)

○ Tier 3 (more complex methods involving ground measurements and modelling)

SO1-3.T2: National estimates of the change in soil organic carbon stock in soil due to land conversion to a new land cover class in the baseline period

Land Conversion		Soil organic carbon (SOC) stock change in the baseline period							
From	То	Net area change (km²)	Initial SOC stock (t/ha)	Final SOC stock (t/ha)	Initial SOC stock total (t)	Final SOC stock total (t)	SOC stock change (t)		

SO-1: To improve the condition of affected ecosystems, combat desertification/land degradation, promote sustainable land management and contribute to land degradation neutrality.

Land Conversion		Soil organic carbon (SOC) stock change in the baseline period								
From	То	Net area change (km²)	Initial SOC stock (t/ha)	Final SOC stock (t/ha)	Initial SOC stock total (t)	Final SOC stock total (t)	SOC stock change (t)			
Croplands	Tree-covered areas	137	150.8	164 .9	2 066 199	2 259 265	193 066			
Tree-covered areas	Grasslands	251	155.1	155 .1	3 893 122	3 893 122	0			
Tree-covered areas	Wetlands	153	240.9	240.9	3 685 223	3 685 223	0			
Tree-covered areas	Croplands	986	140.0	126 .6	13 800 576	12 481 703	-1 318 873			

SO1-3.T3: National estimates of the change in soil organic carbon stock in soil due to land conversion to a new land cover class in the reporting period

Land Conversion		Soil organic carbon (SOC) stock change in the reporting period									
From	То	Net area change (km²)	Initial SOC stock (t/ha)	Final SOC stock (t/ha)	Initial SOC stock total (t)	Final SOC stock total (t)	SOC stock change (t)				
Croplands	Tree-covered areas	195	137 .6	142 .7	2 682 985	2 781 706	98 721				
Tree-covered areas	Wetlands	45	200.3	200.3	901 256	901 313	57				
Grasslands	Tree-covered areas	36	155.8	155 .8	560 978	560 978	0				
Tree-covered areas	Croplands	148	165.3	161.7	2 446 117	2 393 715	-52 402				

Soil organic carbon stock degradation

SO1-3.T4: National estimates of soil organic carbon stock degradation in the baseline period

	Area (km²)	Percent of total land area (%)
Land area with degraded soil organic carbon (SOC)	567	1.3
Land area with non-degraded SOC	42 312	99 .1
Land area with no SOC data	40	0.1

SO1-3.T5: National estimates of SOC stock degradation in the reporting period

	Area (km²)	Percent of total land area (%)
Land area with improved SOC	0	0.0
Land area with stable SOC	42 832	100 .3
Land area with degraded SOC	111	0.3
Land area with no SOC data	41	0.1

SO1-4 Proportion of degraded land over the total land area

Proportion of degraded land over the total land area (Sustainable Development Goal Indicator 15.3.1)

SO1-4.T1: National estimates of the total area of degraded land (in km²), and the proportion of degraded land relative to the total land area

	Total area of degraded land (km ²)	Proportion of degraded land over the total land area (%)
Baseline Period	5 002	11.7
Reporting Period	3 196	7.5
Change in degraded extent	-1806	

Method

Did you use the SO1-1, SO1-2 and SO1-3 indicators (i.e. land cover, land productivity dynamics and soil organic carbon stock) to compute the proportion of degraded land?

Which indicators did you use?

 \Box Land Cover

 \Box Land Productivity Dynamics

 \Box SOC Stock

Did you apply the one-out, all-out principle to compute the proportion of degraded land?

O Yes

🔿 No

Level of Confidence

Indicate your country's level of confidence in the assessment of the proportion of degraded land:

○ High (based on comprehensive evidence)

O Medium (based on partial evidence)

Low (based on limited evidence)

Describe why the assessment has been given the level of confidence selected above:

False positives/ False negatives

SO1-4.T3: Justify why any area identified as degraded or non-degraded in the SO1-1, SO1-2 or SO1-3 indicator data should or should not be included in the overall Sustainable Development Goal indicator 15.3.1 calculation.

Location Name	Туре	Recode Options	Area (km²)	Process driving false +/- outcome	Basis for Judgement	Edit Polygon	
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Perform qualitative assessments of areas identified as degraded or improved

SO1-4.T4: Degradation hotspots

Hotspots	Location	Area (km²)	Assessment Process	Direct drivers of land degradation hotspots	Action(s) taken to redress degradation in terms of Land Degradation Neutrality response hierarchy	Remediating action(s) (both forward-looking and current)	Edit Polygon
Total no. of hotspots	0						

Hotspots	Location	Area (km²)	Assessment Process	Direct drivers of land degradation hotspots	Action(s) taken to redress degradation in terms of Land Degradation Neutrality response hierarchy	Remediating action(s) (both forward-looking and current)	Edit Polygon
Total hotspot area	0						

What is/are the indirect driver(s) of land degradation at the national level?

1. 2.

3. 4.

4. 5.

SO1-4.T5: Improvement brightspots

Brightspots	Location	Area (km²)	Assessment Process	What action(s) led to the brightspot in terms of the Land Degradation Neutrality hierarchy?	Implementing action(s) (both forward-looking and current)	Edit Polygon
Total no. of brightpots		0				
Total brightspot area		0				

What are the enabling and instrumental responses at the national level driving the occurrence of brightspots?

1. 2. 3. 4. 5. 6. 7. 8. 9.

10.

SO1 Voluntary Targets

SO1-VT.T1: Voluntary Land Degradation Neutrality targets and other targets relevant to strategic objective 1

Target	Year	Location(s)	Total Target Area (km²)	Overarching type of Land Degradation Neutrality (LDN) intervention	Targeted action(s)	Status of target achievement	Is this an LDN target? If so, under which process was it defined/adopted?	Which other important goals are also being addressed by this target?	Edit Polygon
Total			Sum of a 0	ll targeted areas					

SO1.IA.T1: Areas of implemented action related to the targets (projects and initiatives on the ground).

Relevant Target	Implemented Action	Location (placename)	Action start date	Extent of action	Total Area Implemented So Far (km²)	Edit Polygon
					Sum of all areas relevant to actions under the same target	

SO2-1 Trends in population living below the relative poverty line and/or income inequality in affected areas

Relevant metric

Choose the metric that is relevant to your country:

- Proportion of population below the
- international poverty line
- Income inequality (Gini Index)

Qualitative assessment

SO2-1.T3: Interpretation of the indicator

Indicator metric Change in the indicator Comments

SO2-2 Trends in access to safe drinking water in affected areas

Proportion of population using safely managed drinking water services

SO2-2.T1: National estimates of the proportion of population using safely managed drinking water services

Year	Urban (%)	Rural (%)	Total (%)
2000			
2001			
2002			
2003			
2004			
2005			
2006			
2007			
2008			
2009			
2010			
2011			
2012			
2013			
2014			
2015			
2016			
2017			
2018			
2019			
2020			

Qualitative assessment

SO2-2.T2: Interpretation of the indicator

Change in the indicator Comments

SO2-3 Trends in the proportion of population exposed to land degradation disaggregated by sex

Proportion of the population exposed to land degradation disaggregated by sex

SO2-3.T1: National estimates of the proportion of population exposed to land degradation disaggregated by sex.

Time period	Population exposed (count)	Percentage of total population exposed (%)	Female population exposed (count)	Percentage of total female population exposed (%)	Male population exposed (count)	Percentage of total male population exposed (%)
Baseline period		0.0		0.0		0.0
Reporting period		0.0		0.0		0.0

Qualitative assessment

SO2-3.T2: Interpretation of the indicator

Change in the indicator Comments

SO2 Voluntary Targets

S02-VT.T1

Target	Year	Level of application	Status of target achievement	Comments
ranget	rear	Level of application	orardo or ranger donnevenneme	oonninento

SO3-1 Trends in the proportion of land under drought over the total land area

Drought hazard indicator

SO3-1.T1: National estimates of the land area in each drought intensity class as defined by the Standardized Precipitation Index (SPI) or other nationally relevant drought indices

		Γ	Drought intensity classes		
	Mild drought (km ²)	Moderate drought (km ²)	Severe drought (km ²)	Extreme drought (km ²)	Non-drought (km ²)
2000					
2001					
2002					
2003					
2004					
2005					
2006					
2007					
2008					
2009					
2010					
2011					
2012					
2013					
2014					
2015					
2016					
2017					
2018					
2019					
2020					
2021					

SO3-1.T2: Summary table for land area under drought without class break down

	Total area under drought (km²)	Proportion of land under drought (%)
2000		0.0
2001		0.0
2002		0.0
2003		0.0
2004		0.0
2005		0.0
2006		0.0
2007		0.0
2008		0.0
2009		0.0

SO-3: To mitigate, adapt to, and manage the effects of drought in order to enhance resilience of vulnerable populations and ecosystems.

	Total area under drought (km²)	Proportion of land under drought (%)
2010		0.0
2011		0.0
2012		0.0
2013		0.0
2014		0.0
2015		0.0
2016		0.0
2017		0.0
2018		0.0
2019		0.0
2020		-
2021		-

Qualitative assessment:

SO3-2 Trends in the proportion of the population exposed to drought

Drought exposure indicator

Exposure is defined in terms of the number of people who are exposed to drought as calculated from the SO3-1 indicator data.

SO3-2.T1: National estimates of the percentage of the total population within each drought intensity class as well as the total population count and the proportion of the national population exposed to drought regardless of intensity.

	Non-exposed		Mild drought		Moderate dro	Moderate drought		Severe drought		Extreme drought		Exposed population	
Reporting year	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%	
2000		-		-		-	0	-	0	-	0	-	
2001		-		-		-	0	-	0	-	0	-	
2002		0.0		0 .0		0 .0	757152	93 .4	53897	6.6	811 049	100 .0	
2003		0.0		0 .0		0 .0	521754	95 .1	26977	4 .9	548 731	100 .0	
2004		-		-		-	0	-	0	-	0	-	
2005		-		-		-	0	-	0	-	0	-	
2006		0.0	659	0 .1		0 .0	247794	25 .2	735361	74 .7	983 814	100 .0	
2007	942457	80 .9	222731	19 .1		0 .0	0	0 .0	0	0.0	222 731	19 .1	
2008	1159650	100 .0	0	0 .0		0 .0	0	0 .0	0	0.0	0	0.0	
2009	1136154	98 .2	20612	1 .8	0	0 .0	0	0 .0	0	0.0	20 612	1 .8	
2010	1093886	94 .4	51428	4 .4	4144	0 .4	5656	0 .5	3755	0 .3	64 983	5.6	
2011	717887	62 .1	225079	19 .5	175496	15 .2	34822	3 .0	3592	0 .3	438 989	37 .9	
2012	1161736	100 .0	0	0 .0	0	0 .0	0	0 .0	0	0.0	0	0.0	
2013	343	0.0	189760	16 .3	855852	73 .3	117767	10 .1	3452	0 .3	1 166 831	100 .0	
2014	48278	4 .1	399862	34 .0	681235	58 .0	23460	2 .0	22081	1.9	1 126 638	95 .9	
2015	0	0.0	387834	32 .7	622584	52 .6	83828	7 .1	90227	7 .6	1 184 473	100 .0	
2016	90060	7 .5	642938	53 .7	12414	1 .0	34930	2 .9	417045	34 .8	1 107 327	92 .5	
2017	489181	40 .4	156857	13 .0	50188	4 .1	25431	2 .1	489369	40 .4	721 845	59 .6	
2018	0	0.0	0	0 .0	0	0 .0	0	0 .0	1228402	100 .0	1 228 402	100 .0	
2019	23528	1.9	475721	38 .0	175148	14 .0	28971	2 .3	548104	43 .8	1 227 944	98 .1	
2020		-		-		-		-		-	-	-	
2021		-		-		-		-		-	-	-	

SO3-2.T2: National estimates of the percentage of the female population within each drought intensity class.

	Non-exposed		Mild drought		Moderate drought		Severe drought		Extreme drought		Exposed female population	
Reporting year	Population count	%	Population count	%								

SO-3: To mitigate, adapt to, and manage the effects of drought in order to enhance resilience of vulnerable populations and ecosystems.

	Non-expos	ed	Mild droug	Jht	Moderate dro	ought	Severe drought		Extreme drought		Severe drought Extreme drought Exposi pop		Exposed fe population	male on
Reporting year	Population count	%	Population count	%										
2000		-		-		-		-		-	0	-		
2001		-		-		-		-		-	0	-		
2002		0 .0		0 .0		0 .0	406491	93 .4	28521	6.6	435 012	100 .0		
2003		0 .0		0 .0		0 .0	280814	95 .1	14327	4 .9	295 141	100 .0		
2004		-		-		-		-	0	-	0	-		
2005		-		-		-	0	-	0	-	0	-		
2006		0 .0		0 .0		0 .0		0 .0	395474	100 .0	395 474	100 .0		
2007		-		-		-		-		-	0	-		
2008		-		-		-	0	-	0	-	0	-		
2009		-		-		-	0	-	0	-	0	-		
2010		0 .0		0 .0	2248	30 .7	3054	41 .7	2030	27 .7	7 332	100 .0		
2011		0 .0	120087	51 .4	93210	39 .9	18433	7 .9	1948	8. 0	233 678	100 .0		
2012		-		-	0	-	0	-	0	-	0	-		
2013		0 .0		0 .0	458034	87 .8	61928	11 .9	1797	0 .3	521 759	100 .0		
2014		0 .0		0 .0	366667	93 .9	12330	3 .2	11474	2 .9	390 471	100 .0		
2015		0 .0		0 .0	333138	78 .1	45056	10 .6	48492	11 .4	426 686	100 .0		
2016	46873	16 .0		0 .0	6523	2 .2	18884	6 .5	220187	75 .3	245 594	84 .0		
2017	263792	47 .0		0 .0	26804	4 .8	12859	2 .3	257802	45 .9	297 465	53 .0		
2018	0	0 .0		0 .0	0	0 .0	0	0 .0	656000	100 .0	656 000	100 .0		
2019	12712	3 .1		0 .0	94158	22 .9	15335	3 .7	289660	70 .3	399 153	96 .9		
2020		-		-		-		-		-	-	-		
2021		-		-		-		-		-	-	-		

SO3-2.T3: National estimates of the percentage of the male population within each drought intensity class.

	Non-expos	sed	Mild droug	ht	Moderate dro	ught	Severe drought		Extreme drought		Exposed male population	
Reporting year	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%
2000		-		-		-		-		-	0	-
2001		-		-		-		-		-	0	-
2002	0	0.0		0 .0		0 .0		0 .0	25376	100 .0	25 376	100 .0
2003		0.0		0 .0		0 .0		0 .0	12650	100 .0	12 650	100 .0
2004	546897	100 .0		0 .0		0 .0		0 .0		0.0	0	0.0
2005		-		-		-		-		-	0	-
2006		-		-		-		-		-	0	-
2007		-		-		-		-		-	0	-

SO-3: To mitigate, adapt to, and manage the effects of drought in order to enhance resilience of vulnerable populations and ecosystems.

	Non-exposed Mild drought Moderate		Moderate dro	ought Severe drought			Extreme dro	ought	Exposed male population			
Reporting year	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%
2008		-		-		-		-		-	0	-
2009		-		-		-		-		-	0	-
2010		0.0		0 .0		0 .0	2602	60 .1	1725	39 .9	4 327	100 .0
2011		-		-		-		-		-	0	-
2012		-	0	-		-		-		-	0	-
2013	157	0.0	87213	16 .1	397818	73 .5	55839	10 .3		0.0	540 870	100 .0
2014	22719	4 .2	187946	35 .0	314568	58 .6	11130	2 .1		0.0	513 644	95 .8
2015	0	0.0		0 .0	289446	88 .2	38772	11 .8		0.0	328 218	100 .0
2016	43187	72 .9		0 .0		0 .0	16046	27 .1		0.0	16 046	27 .1
2017	225389	48 .0		0 .0		0 .0	12572	2 .7	231567	49 .3	244 139	52 .0
2018		0.0		0 .0		0 .0	0	0 .0	572402	100 .0	572 402	100 .0
2019		0.0		0 .0	80990	22 .9	13636	3 .9	258444	73 .2	353 070	100 .0
2020		-		-		-		-		-	-	-
2021		-		-		-		-		-	-	-

Qualitative assessment Interpretation of the indicator

SO3-3 Trends in the degree of drought vulnerability

Drought Vulnerability Index

SO3-3.T1: National estimates of the Drought Vulnerability Index

Year	Total country-level DVI value (tier 1)	Male DVI value (tiers 2 and 3 only)	Female DVI value (tiers 2 and 3 only)
2000			
2001			
2002			
2003			
2004			
2005			
2006			
2007			
2008			
2009			
2010			
2011			
2012			
2013			
2014			
2015			
2016			
2017			
2018	4.2		
2019			
2020			
2021			

Method

Which tier level did you use to compute the DVI?

 \Box Tier 1 Vulnerability Assessment (i)

- \Box Tier 2 Vulnerability Assessment
- \Box Tier 3 Vulnerability Assessment

Qualitative assessment

SO3-3.T2: Interpretation of the indicator

Change in the indicator Comments

SO-3: To mitigate, adapt to, and manage the effects of drought in order to enhance resilience of vulnerable populations and ecosystems.

SO3 Voluntary Targets

SO3-VT.T1

 Target
 Year
 Level of application
 Status of target achievement
 Comments

SO4-1 Trends in carbon stocks above and below ground

Soil organic carbon stocks

Trends in carbon stock above and below ground is a multi-purpose indicator used to measure progress towards both strategic objectives 1 and 4. Quantitative data and a qualitative assessment of trends in this indicator are reported under strategic objective 1, progress indicator SO1-3.

SO4-2 Trends in abundance and distribution of selected species

SO4-2.T1: National estimates of the Red List Index of species survival

Year	Red List Index	Lower Bound	Upper Bound	Comment
2000	0.98691	0 .98673	0.98764	
2001	0.98682	0.98664	0.98728	
2002	0.98673	0.98655	0.98691	
2003	0.98664	0 .98647	0.98682	
2004	0.98655	0 .9864	0.98673	
2005	0.98647	0 .98633	0.98664	
2006	0 .9864	0.98626	0.98655	
2007	0.98633	0.98624	0.98647	
2008	0.98626	0.98622	0 .9864	
2009	0.98624	0.98619	0.98633	
2010	0.98622	0.98617	0.98626	
2011	0.98619	0 .98601	0.98624	
2012	0.98617	0 .98585	0.98622	
2013	0.98601	0 .98569	0.98619	
2014	0.98585	0 .98553	0.98617	
2015	0.98569	0 .98553	0.98601	
2016	0.98553	0 .98553	0.98585	
2017	0.98553	0.98553	0.98569	
2018	0.98553	0 .98553	0.98553	
2019	0.98553	0.98553	0.98553	
2020	0.98553	0 .98553	0.98553	

Qualitative assessment

SO4-2.T2: Interpretation of the indicator

SO4-3 Proportion of important sites for terrestrial and freshwater biodiversity that are covered by protected areas, by ecosystem type

SO4-3.T1: National estimates of the average proportion of Terrestrial KBAs covered by protected areas (%)

Year	Protected Areas Coverage(%)	Lower Bound	Upper Bound	Comments
2000	8.47	8 .47	8 .47	
2001	8.55	8 .55	8 .55	
2002	8.55	8 .55	8 .55	
2003	8.87	8 .87	8 .87	
2004	94.72	94 .72	94 .72	
2005	94.72	94 .72	94 .72	
2006	94.72	94 .72	94 .72	
2007	94.73	94 .73	94 .73	
2008	94.73	94 .73	94 .73	
2009	94.73	94 .73	94 .73	
2010	94.73	94 .73	94 .73	
2011	94.73	94 .73	94 .73	
2012	94.73	94 .73	94 .73	
2013	94.73	94 .73	94 .73	
2014	94.79	94 .79	94 .79	
2015	94.79	94 .79	94 .79	
2016	94.79	94 .79	94.79	
2017	94.83	94 .83	94 .83	
2018	94.84	94 .84	94 .84	
2019	94.84	94 .84	94 .84	
2020	94.84	94 .84	94 .84	

Qualitative assessment

SO4-3.T2: Interpretation of the indicator

Qualitative Assessment Comment

SO-4: To generate global environmental benefits through effective implementation of the United Nations Convention to Combat Desertification.

SO4 Voluntary Targets

SO4-VT.T1

 Target
 Year
 Level of application
 Status of target achievement
 Comments

Complementary information

SO5-1 Bilateral and multilateral public resources

Tier 1: Please provide information on the international public resources provided and received for the implementation of the Convention, including information on trends.

Trends in international bilateral and multilateral public resources provided

◯ Up↑

 \bigcirc Stable $\leftarrow \rightarrow$

◯ Down↓

○ Unknown ∾

Trends in international bilateral and multilateral public resources received

- ◯ Up↑
- \bigcirc Stable $\leftarrow \rightarrow$
- ◯ Down↓
- 🔵 Unknown ∾

Tier 2: Table 1 Financial resources provided and received

		Total Amount USD			
Provided / Received	Year	Committed	Disbursed / Received		
Provided	2016	Committed 0	Disbursed 0		
Provided	2017	Committed 0	Disbursed 0		
Provided	2018	Committed 0	Disbursed 0		
Provided	2019	Committed 0	Disbursed 0		
Received	2016	Committed 0	Received 0		
Received	2017	Committed 0	Received 0		
Received	2018	Committed 0	Received 0		
Received	2019	Committed 0	Received 0		
Total resources pro	ovided:	0	0		
Total resources rec	ceived:	0	0		

Documentation box

	Explanation
Year	
Recipient / Provider	
Title of project, programme, activity or other	
Total Amount USD	
Sector	
Capacity Building	

SO-5: To mobilize substantial and additional financial and non-financial resources to support the implementation of the Convention by building effective partnerships at global and national level

	Explanation
Technology Transfer	
Gender Equality	
Channel	
Type of flow	
Financial Instrument	
Type of support	
Amount mobilised through public interventions	
Additional Information	

SO5-2 Domestic public resources

Tier 1: Please provide information on the domestic public expenditures, including subsidies, and revenues, including taxes, directly and indirectly related to the implementation of the Convention, including information on trends.

Trends in domestic public expenditures and national level financing for activities relevant to the implementation of the Convention

- ◯ Up↑
- \bigcirc Stable $\leftarrow \rightarrow$
- ◯ Down↓
- Unknown ∾

Trends in domestic public revenues from activities related to the implementation of the Convention

- ◯Up↑
- \bigcirc Stable $\leftarrow \rightarrow$
- ◯ Down↓
- Unknown ∾

Tier 2: Table 2 Domestic public resources

	Year	Amounts	Additional Information
Government expenditures			
Directly related to combat DLDD			
Indirectly related to combat DLDD			
Subsidies			
Subsidies related to combat DLDD			
Total expenditures / total per year			

	Year	Amounts	Additional Information
Government revenues			
Environmental taxes for the conservation of land resources and taxes related to combat DLDD			
Total revenues / total per year			

Documentation box

Explanation	
	Government expenditures
	Subsidies
	Government revenues
	Domestic resources directly or indirectly related to combat DLDD

Has your country set a target for increasing and mobilizing domestic resources for the implementation of the Convention?

Yes

🔿 No

SO5-3 International and domestic private resources

Tier 1: Please provide information on the international and domestic private resources mobilized by the private sector of your country for the implementation of the Convention, including information on trends. Trends in international private resources

	Up↑
	Stable $\leftarrow \rightarrow$
	Down↓
	Unknown ∾
Tre	ends in domestic private resources
	Up↑
	Stable $\leftarrow \rightarrow$
	Down↓
	Unknown ∾

Tier 2: Table 3 International and domestic private resources

Year	Title of project, programme, activity or other	Total Amount USD	Financial Instrument	Type of institution	Recipient	Additional Information
	Total	0				

Please provide methodological information relevant to data presented in table 3

Has your country taken measures to encourage the private sector as well as non-governmental organizations, foundations and academia to provide international and domestic resources for the implementation of the Convention?

SO5-4 Technology transfer

Tier 1: Please provide information relevant to the resources provided, received for the transfer of technology for the implementation of the Convention, including information on trends. Trends in international bilateral and multilateral public resources provided

- ◯ Up↑
- \bigcirc Stable $\leftarrow \rightarrow$
- ◯ Down ⊥
- Unknown ∾

Trends in international bilateral and multilateral public resources received

- ⊖Up↑
- \bigcirc Stable $\leftarrow \rightarrow$
- ◯ Down ↓
- Unknown ∾

Tier 2: Table 4 Resources provided and received for technology transfer measures or activities

Provided Received	Year	Title of project, programme, activity or other	Amount	Recipient Provider	Description and objectives	Sector	Type of technology	Activities undertaken by	Status of measure or activity	Timeframe of measure or activity	Use, impact and estimated results	Additional Information
Total provided:		0		Total received:			0					

Please provide methodological information relevant to data presented in table 4

Include information on underlying assumptions, definitions and methodologies used to identify and report on technology transfer support provided and/or received and/or required. Please include links to relevant documentation.

Please provide information on the types of new or current technologies required by your country to address desertification, land degradation and drought (DLDD), and the challenges encountered in acquiring or developing such technologies.

SO5-5 Future support for activities related to the implementation of the Convention

SO5-5.1: Planned provision and mobilization of domestic public and private resources

Please provide information relevant to the planned provision and mobilization of domestic resources for the implementation of the Convention, including information relevant to indicator SO5-2, as well as information on projected levels of public financial resources, target sectors and planned domestic policies.

SO5-5.2: Planned provision and mobilization of international public and private resources

Please provide information relevant to the planned provision and mobilization of international resources for the implementation of the Convention, including information on projected levels of public financial resources and support to capacity building and transfer of technology, target regions or countries, and planned programmes, policies and priorities.

SO5-5.3: Resources needed

Please provide information relevant to the financial resources needed for the implementation of the Convention, including on the projects and regions which needs most support and on which your country has focused to the greatest extent.

Financial and Non-Financial Sources

Increasing the mobilization of resources:

Would you like to share an experience on how your country has increased the mobilization of resources within the reporting period?

O Yes

🔿 No

Using Land Degradation Neutrality as a framework to increase investment:

From your perspective, would you consider that you have taken advantage of the LDN concept to enhance the coherence, effectiveness and multiple benefits of investments?

O Yes

🔘 No

Improving existing and/or innovative financial processes and institutions

From your perspective, do you consider that your country has improved the use of existing and/or innovative financial processes and institutions?

O Yes

🔿 No
Policy and Planning

Action Programmes:

Has your country developed or helped develop, implement, revise or regularly monitor your national action programme?

O Yes

🔿 No

Policies and enabling environment:

During the reporting period, has your country established or helped establish policies and enabling environments to promote and/or implement solutions to combat desertification/land degradation and mitigate the effects of drought?

O Yes

🔿 No

Synergies:

From your perspective, has your country leveraged synergies and integrated DLDD into national plans related to other MEAs, particularly the other Rio Conventions and other international commitments?

O Yes

🔿 No

Mainstreaming desertification, land degradation and drought:

From your perspective, did your country take specific actions to mainstream, DLDD in economic, environmental and social policies, with a view to increasing the impact and effectiveness of the implementation of the Convention?

O Yes

O No

Drought-related policies:

Has your country established or is your country establishing national policies, measures and governance for drought preparedness and management?

O Yes

🔘 No

Has your country supported other countries in establishing policies, measures and governance for drought preparedness and management, in accordance with the mandate of the Convention?

O Yes

🔿 No

Action on the Ground

Sustainable land management practices:

Has your country implemented or is your country implementing sustainable land management (SLM) practices to address DLDD?

O Yes

🔿 No

Has your country supported other countries in the implementation of SLM practices?

O Yes

🔿 No

Restoration and Rehabilitation:

Has your country implemented or is your country implementing restoration and rehabilitation practices in order to assist with the recovery of ecosystem functions and services?

O Yes

🔿 No

Drought risk management and early warning systems:

Is your country developing a drought risk management plan, monitoring or early warning systems and safety net programmes to address DLDD?

O Yes

🔿 No

Has your country supported other countries in developing drought risk management, monitoring and early warning systems and safety net programmes to address DLDD?

O Yes

🔿 No

Alternative livelihoods:

Does your country promote alternative livelihoods practice in the context of DLDD?

O Yes

🔿 No

Do you consider your country to be taking special measures to engage women and youth in promoting alternative livelihoods?

O Yes

No

Establishing knowledge sharing systems:

Has your country established systems for sharing information and knowledge and facilitating networking on best practices and approaches to drought management?

O Yes

O No

Do you consider that your country has implemented specific actions that promote women's access to knowledge and technology?

O Yes

🔿 No

Estonia – SO1-1.M1 Land cover in the initial year of the baseline period



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- United Nations Clear Map, United Nations Geospatial.
- European Space Agency Climate Change Initiative Land Cover (ESA CCI-LC) product, 1992-2019. URL: https://www.esa-landcover-cci.org/

Estonia – SO1-1.M2 Land cover in the baseline year



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Estonia – SO1-1.M3 Land cover in the latest reporting year



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Estonia – SO1-1.M4 Land cover change in the baseline period



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Estonia – SO1-1.M5 Land cover change in the reporting period



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Estonia – SO1-1.M6 Land cover degradation in the baseline period



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Estonia – SO1-1.M7 Land cover degradation in the reporting period



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Estonia – SO1-2.M1 Land productivity dynamics in the baseline period



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- EC-JRC, 2021, based on Xavier Rotllan-Puig, Eva Ivits, Michael Cherlet, LPDynR: A new tool to calculate the land productivity dynamics indicator, Ecological Indicators, Volume 133, 2021, 108386, ISSN 1470-160X. URL: https://doi.org/10.1016/j.ecolind.2021.108386

Estonia – SO1-2.M2 Land productivity dynamics in the reporting period



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Estonia – SO1-2.M3 Land productivity degradation in the baseline period



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Estonia – SO1-2.M4 Land productivity degradation in the reporting period



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Estonia – SO1-3.M1 Soil organic carbon stock in the initial year of the baseline period



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- United Nations Clear Map, United Nations Geospatial.
- International Soil Reference and Information Centre (ISRIC) SoilGrids250m dataset. URL: https://www.isric.org/explore/soilgrids

Estonia – SO1-3.M2 Soil organic carbon stock in the baseline year



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Estonia – SO1-3.M3 Soil organic carbon stock in the latest reporting year



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Estonia – SO1-3.M4 Change in soil organic carbon stock in the baseline period



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Estonia – SO1-3.M5 Change in soil organic carbon stock in the reporting period



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Estonia – SO1-3.M6 Soil organic carbon degradation in the baseline period



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Estonia – SO1-3.M7 Soil organic carbon degradation in the reporting period



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Estonia – SO1-4.M1 Proportion of land that is degraded over total land area (SDG Indicator 15.3.1) in the baseline period



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- United Nations Clear Map, United Nations Geospatial.
- Derived based on the methodology in the Good Practice Guidance Version 2 for Sustainable Development Goal (SDG) indicator 15.3.1 Proportion of land that is degraded over total land area. URL: https://www.unccd.int/publications/good-practice-guidance-sdg-indicator-1531-proportion-land-degraded-over-total-land

Estonia – SO1-4.M2 Proportion of land that is degraded over total land area (SDG Indicator 15.3.1) in the reporting period



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Estonia – SO1-4.M3 Progress towards Land Degradation Neutrality (LDN) in the reporting period



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Estonia – SO2-3.M1 Total Population exposed to land degradation (baseline)



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- United Nations Clear Map, United Nations Geospatial.
- WorldPop project URL: https://www.worldpop.org

Estonia – SO2-3.M2 Female Population exposed to land degradation (baseline)



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- WorldPop project URL: https://www.worldpop.org

Estonia – SO2-3.M3 Male Population exposed to land degradation (baseline)



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- WorldPop project URL: https://www.worldpop.org

Estonia – SO2-3.M4 Total Population exposed to land degradation (reporting)



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- WorldPop project URL: https://www.worldpop.org

Estonia – SO2-3.M5 Female Population exposed to land degradation (reporting)



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- WorldPop project URL: https://www.worldpop.org

Estonia – SO2-3.M6 Male Population exposed to land degradation (reporting)



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Estonia – SO3-1.M1 Drought hazard in first epoch of baseline period



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- United Nations Clear Map, United Nations Geospatial.
- Global Precipitation Climatology Centre (GPCC) monthly precipitation products, 1982-present. URL: https://opendata.dwd.de/climate_environment/GPCC/html/gpcc_monitoring_v6_doi_download.html

Estonia – SO3-1.M2 Drought hazard in second epoch of baseline period



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Estonia – SO3-1.M3 Drought hazard in third epoch of baseline period



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Estonia – SO3-1.M4 Drought hazard in fourth epoch of baseline period



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Estonia – SO3-1.M5 Drought hazard in the reporting period



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Estonia – SO3-2.M1 Drought exposure in first epoch of baseline period



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Estonia – SO3-2.M2 Drought exposure in second epoch of baseline period



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Estonia – SO3-2.M3 Drought exposure in third epoch of baseline period



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Estonia – SO3-2.M4 Drought exposure in fourth epoch of baseline period



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Estonia – SO3-2.M5 Drought exposure in the reporting period



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Estonia – SO3-2.M6 Female drought exposure in the reporting period



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Estonia – SO3-2.M7 Male drought exposure in the reporting period



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