

Natural Environment

	Indicator ID and Name	Type	Trend	Policy context		Narratives		
				SCCAP Objective(s)	CCRA Risks/opportunities			
Biodiversity	NB3	Extent and condition of natural landscape connections: hedgerows and ponds	Risk	🔴	N2, N3	Cross-cutting, BD5, AG26/27	Tracking suitable space in a changing climate	
	NB4	Proportion of ancient woodlands with declining overall suitability for lichen epiphytes	Risk	🔴	N2	BD5, FO5	Tracking suitable space in a changing climate	
	NB6a/ NB17a	Abundance and productivity of breeding sea birds	Impact	🔴	N2	BD9	Tracking suitable space in a changing climate, Marine and coastal change	
	NB6b/ NB17b	Abundance of wintering water birds	Impact	🟡	N2	BD9	Tracking suitable space in a changing climate	
	NB7	Area of land under landscape scale conservation	Action	🟡	N2	Cross-cutting	Tracking suitable space in a changing climate	
	NB10a	Extent of key semi-natural habitats: terrestrial	Risk	🔴	N2	Cross-cutting	Resilience of the natural environment (terrestrial)	
	NB10b	Extent of key semi-natural habitats: coastal habitats	Risk	🔴	N2	Cross-cutting	Resilience of the natural environment (terrestrial)	
	NB11	Extent of key habitats: deep peat	Risk	🔴	N2	Cross-cutting	Resilience of the natural environment (terrestrial)	
	NB12	Condition of key habitats: Proportion of notified habitats in unfavourable condition	Risk	🟡	N2	Cross-cutting	Resilience of the natural environment (terrestrial)	
	NB13	Condition of key habitats: Area of modified deep peat soils	Risk	🔴	N2	BD1, BD8, BD13, BD21	Resilience of the natural environment (terrestrial)	
	NB14	Natural Capital Asset Index	Impact	🟡	N2	Cross-cutting	Resilience of the natural environment (terrestrial)	
	NB16a	Abundance and frequency of specialist and generalist species: snow-bed species	Impact	🟡	N2	BD11	Tracking suitable space in a changing climate	
	NB16b	Abundance and frequency of specialist and generalist species: butterflies	Impact	🟡	N2	BD11	Tracking suitable space in a changing climate	
	NB18	Annual greenhouse gas (GHG) emissions from degraded peatlands	Impact	🔴	N2	BD1, BD8,	Resilience of the natural environment (terrestrial)	
	NB19	Proportion of notified habitats and species in 'positive' condition	Action	🟡	N2	Cross-cutting	Resilience of the natural environment (terrestrial)	
	NB22a	Peatland restoration area	Action	🟡	N2	BD1, BD2, BD8, BD13	Resilience of the natural environment (terrestrial)	
	NB23	Amount of natural regeneration in native woodlands	Action	🟡	N2	FO5	Resilience of the natural environment (terrestrial), Pests, diseases and invasive species (forestry)	
	NB24	Proportion of water bodies not meeting Good Overall Status	Risk	🔴	N2	BD13, BD14, BD15	Water quality and availability, Marine and coastal change	
	NB27	Summer low flow events in Scottish rivers (Normalised Flow Index)	Risk	🔴	N2	BD14, BD15, WA2	Water quality and availability, Extreme weather and infrastructure, Resilience and resource use	
	NB31b	Condition and distribution of climate sensitive species: Abundance of Arctic charr in freshwater lochs	Impact	🔴	N2	BD5, BD10, BD13	Water quality and availability	
	NB32	Freshwater monitoring stations: temperature	Action	🟡	N1	BD13, BD14, BD15, WA2	Water quality and availability	
	NB33	Progress towards the environmental objectives of the River Basin Management Plans	Action	🟡	N2	BD13, BD14, BD15	Water quality and availability	
	NB36	Proportion and area of Caledonian pine woodland exposed to Dothistroma needle blight (DNB)	Risk	🔴	N2	BD4, BD46, FO5	Pests, diseases and invasive species (forestry)	
	NB37	Proportion of native woodland affected by invasive non-native plant species	Impact	🔴	N2	BD3, FO5	Pests, diseases and invasive species (forestry)	
	NB39	Freshwater habitats with reported presence of key invasive non-native species (INNS)	Impact	🔴	N2	BD3, BD13	Water quality and availability	
	NB42/ NF17/18	Number and area of reported wildfires in forests and key habitats	Impact	🔴	N2	BD12	Resilience of the natural environment (terrestrial)	
	Agriculture	NA1	Comparison of land capability against actual land use	Risk	🔴	N3	AG1b, c, d, e, AG2/FL4, AG4, AG10, AG19, AG21, AG25/AG51/AG52, AG66	Suitability and productivity (agriculture), Sustainable Agriculture
		NA2	Area of Prime Agricultural Land (Land Capability)	Risk	🟡	N3	AG1b, c, d, e, AG2/FL4, AG4, AG10, AG19, AG21, AG25/AG51/AG52, AG66	Suitability and productivity (agriculture), Sustainable Agriculture
		NA3a/b	Crop yields (including agronomic inputs and variability)	Impact	🟡	N3	AG1b, c, d, e, AG66	Suitability and productivity (agriculture)
		NA5	Trends in breeding farmland birds	Impact	🟡	N3	AG26/27	Sustainable Agriculture
		NA6	National agricultural crop portfolio and diversity index	Action	🟡	N3	AG1b, c, d, e, AG4, AG10, AG25/AG51, AG52, AG66	Suitability and productivity (agriculture)
		NA8	Sustainable intensification index (Scottish LFA beef sector)	Action	🟡	N3	BD21	Sustainable Agriculture
		NA9	Proportion of farmland (Utilised Agricultural Area) under High Nature Value (HNV) farming systems	Action	🟡	N3	BD21	Sustainable Agriculture
		NA10	Soil erosion risk	Risk	🔴	N3	AG19	Condition of agricultural soils
		NA11	Soil carbon concentration in arable soils	Impact	🔴	N3	AG19	Condition of agricultural soils
		NA12	Agricultural production methods which reduce erosion risk (Proportion of arable land using reduced/zero tillage; soil cover)	Action	🟡	N3	AG19, BD13	Condition of agricultural soils
		NA13	Abstraction of water for irrigation	Impact	🔴	N3	AG4, WA1, WA2, WA5	Suitability and productivity (agriculture), Water quality and availability, Resilience and resource use
		NA14	Freshwater bodies affected by diffuse pollution due to agriculture	Impact	🟡	N3	AG19, BD13	Condition of agricultural soils, Water quality and availability
		NA17	Area of agricultural land at significant flood risk (rivers and sea)	Risk	🔴	N3	AG2/FL4	Water quality and availability
NA21		Risk of liver fluke (Fasciola hepatica) in cattle and sheep	Risk	🔴	N3	AG44	Suitability and productivity (agriculture)	
NA22		Area of cultivation under glass or plastic structures	Risk	🔴	N3	AG3	Suitability and productivity (agriculture)	
NA25		Range and prevalence of climate marker pests and diseases in crops: Number of potato blight outbreaks	Impact	🟡	N3	AG3	Suitability and productivity (agriculture)	
NA26		Prevalence of liver fluke (Fasciola hepatica) in cattle and sheep	Impact	🔴	N3	AG44	Suitability and productivity (agriculture)	
NA28		Wetness risk for agriculture (arable suitability and grassland suitability)	Risk	🟡	N3	AG21, AG25/AG51/AG52	Condition of agricultural soils, Suitability and productivity (agriculture), Water quality and availability	
NA29		Drought risk to agricultural land	Risk	🟡	N3	AG4, AG25/AG51/AG52	Condition of agricultural soils, Suitability and productivity (agriculture), Water quality and availability, Resilience and resource use	
Forestry	NF1	Proportion of major timber species on Scotland's National Forest Estate planted in areas likely to be climatically suitable in 2050 (Sitka spruce and Scots pine)	Risk	🔴	N3	FO4b, FO2	Suitability and productivity (forestry)	
	NF3	Proportion of total woodland under High Nature Value (HNV) Forestry	Action	🟡	N3	BD21, FO5	Suitability and productivity (forestry)	
	NF4	Diversity of tree species ordered for planting in Scotland	Action	🟡	N2, N3	Cross-cutting, BD4	Pests, diseases and invasive species (forestry), Suitability and productivity (forestry)	
	NF5	Planted forest tree species diversity index	Action	🟡	N2, N3	Cross-cutting, BD4	Pests, diseases and invasive species (forestry), Suitability and productivity (forestry)	
	NF6	Number of uses & users of the Ecological Site Classification (ESC) decision support tool (DSS)	Action	🟡	N3	Cross-cutting, BD4	Suitability and productivity (forestry)	
	NF7	Proportion and area of pine woodland exposed to Dothistroma needle blight (DNB)	Risk	🔴	N3	FO1a	Pests, diseases and invasive species (forestry)	
	NF8	Proportion and area of larch within Phytophthora ramorum Risk Zone 1	Risk	🔴	N3	FO1	Pests, diseases and invasive species (forestry)	
	NF9	Forest area and proportion of stands infected by Dothistroma needle blight	Impact	🔴	N3	FO1a	Pests, diseases and invasive species (forestry)	
	NF10	Forest area infected by Phytophthora ramorum (Pr)	Impact	🔴	N3	FO1	Pests, diseases and invasive species (forestry)	
	NF11/ NF12	Number of forest sites served with a Statutory Plant Health Notice (SPHN) for Phytophthora ramorum (Pr)/Area of forest felled under Special Plant Health Notices (SPHNs) for Phytophthora ramorum (Pr)	Action	🟡	N3	FO1	Pests, diseases and invasive species (forestry)	
	NF14	Area of woodland with active, approved deer management plans	Action	🟡	N3	Cross-cutting	Pests, diseases and invasive species (forestry), Suitability and productivity (forestry)	
NF16	Proportion of coniferous woodland on the National Forest Estate with a high/medium risk of wind throw	Risk	🔴	N3	FO3	Suitability and productivity (forestry)		
NF21	Number of uses and users of the ForestGALES decision support tool	Action	🟡	N3	FO3	Suitability and productivity (forestry)		
Marine and coastal	NM1	Changes in average sea surface temperature (SST)	Risk	🔴	N2	MA1; MA4a; MA4b; MA6; MA23; MA30; MAr1	Marine and coastal change	
	NM7	Number of Harmful Algal Blooms (HAB)	Impact	🔴	N3	MA1; MA30	Marine and coastal change	
	NM9b	Damage to cultured aquatic species: Frequency of escapes from fish farms due to weather	Impact	🔴	N3	MA30	Marine and coastal change	
	NM21	Occurrence of warm water species in fish stocks exploited by Scottish fisherman: European anchovy; Squid; (red mullet; John Dory; European sea bass)	Impact	🔴	N3	MAr1	Marine and coastal change	
NM46	Change in the latitudinal distribution of industry sectors in response to shifting optimal conditions for species specific growth; aquaculture	Action	🔴	N3	MAr1	Marine and coastal change		

Buildings & Infrastructure Networks


	Indicator ID and Name	Type	Trend	Policy context		Narratives		
				SCCAP Objective(s)	CCRA Risks/opportunities			
Built Environment	BB1/BB3	Property at risk of flooding (residential; non-residential)	Risk	🔴	B2, S1,S2,S3	BE10/BE11/BE12/BE15/BE18/FL6/FL24	Flooding and infrastructure, Climate change risks to society and our capacity to adapt	
	BB6	Cultural Heritage in Flood Risk Areas	Risk	🔴	B1, B2	BE4/FL15	Flooding and infrastructure	
	BB11	Planning Decisions that do not reflect SEPA's flood risk advice	Action	🔴	B2	BE10/BE11/BE12/BE15/BE18/FL6/FL24	Flooding and infrastructure, Resilience and resource use	
	BB13	Proportion of local authority areas under impermeable surfaces / Change in impermeable surfacing in built-up areas	Action	🔴	B2, B3	BE10/BE11/BE12/BE15/BE18/FL6/FL24	Flooding and infrastructure	
	BB16	Building Condition and Disrepair	Risk	🟢	B1, B3	BE13/BE31	Flooding and infrastructure, Resilience and resource use	
	BB17/BB18	Dampness; condensation in housing stock	Impact	🟡	B1, B3	BE13/BE31	Extreme weather and infrastructure	
	BB20	Energy Performance of Scottish Housing Stock	Action	🟢	B1, B2	BE9	Resilience and resource use	
	BB26	Natural gas usage; domestic	Action	🟢	B1, B2	BE9	Resilience and resource use	
	BB27	Natural gas usage; non-domestic	Action	🟢	B1, B2	BE9	Resilience and resource use	
	BE1/BE2/BE3	Major power stations in areas at flood risk	Risk / Action	🔴	B1, B2, B3	FL11a/ENr2	Flooding and infrastructure	
Energy Infrastructure	BE4/14	Electricity supply disruption due to flooding	Impact	🔴	B1, B2, B3	FL11a/ENr2/EN1	Flooding and infrastructure, Resilience and resource use, Climate change risks to society and our capacity to adapt	
	BE5	Electricity substations located in areas at flood risk	Risk	🔴	B1, B2, B3	FL11b	Flooding and infrastructure, Climate change risks to society and our capacity to adapt	
	BE6	Customers reliant on electricity substations in areas at flood risk	Risk	🔴	B1, B2, B3	FL11b	Flooding and infrastructure, Resilience and resource use, Climate change risks to society and our capacity to adapt	
	BE7	Substations in areas at flood risk with completed Flood Risk Assessments	Action	🔴	B1, B2, B3	FL11b	Flooding and infrastructure, Resilience and resource use	
	BE8	Substations in areas at flood risk with completed or planned flood protection works	Action	🔴	B1, B2, B3	FL11b	Flooding and infrastructure, Resilience and resource use	
	BE15	Electricity supply disruption caused by severe weather events	Impact	🟡	B1, B2, B3	severe weather events	Extreme weather and infrastructure	
	BT2	Road Network at risk of flooding	Risk	🔴	B1, B2, B3	FL8a/TR1	Flooding and infrastructure	
	BT4	Flood events affecting the trunk road network	Impact	🔴	B1, B2, B3	FL8a/TR1	Flooding and infrastructure, Extreme weather and infrastructure, Resilience and resource use, Climate change risks to society and our capacity to adapt	
Transport Infrastructure	BT6	Trunk road network benefitting from fluvial flood protection	Action	🔴	B1, B2, B3	FL8a/TR1	Flooding and infrastructure, Resilience and resource use	
	BT8	Railway network at risk of flooding	Risk	🔴	B1, B2, B3	FL8b	Flooding and infrastructure	
	BT9	Disruption risk to railway services as a result of flooding	Risk	🔴	B1, B2, B3	FL8b	Flooding and infrastructure, Resilience and resource use, Climate change risks to society and our capacity to adapt	
	BT12	Flood events affecting the railway network	Impact	🔴	B1, B2, B3	FL8b	Flooding and infrastructure, Resilience and resource use, Climate change risks to society and our capacity to adapt	
	BT16	Rail network benefitting from fluvial flood protection	Action	🔴	B1, B2, B3	FL8b	Flooding and infrastructure, Resilience and resource use	
	BT17	Risk of traffic disruption as a result of flooding	Risk	🔴	B1, B2, B3	FL8a/TR1	Flooding and infrastructure, Resilience and resource use	
	BT22/ BT23	Landslide events affecting the road network; Road closures due to landslides	Impact	🔴	B1, B2, B3	TR2	Extreme weather and infrastructure	
	BT26	Road and rail bridges vulnerable to scour	Risk	🔴	B1, B2, B3	TR6	Extreme weather and infrastructure	
	Water/wastewater infrastructure	BW4	Wastewater treatment works in areas at flood risk	Risk	🔴	B2	FL7/FL24/FL27	Flooding and infrastructure, Climate change risks to society and our capacity to adapt
		BW5	Water treatment works in areas at flood risk	Risk	🔴	B2	FL7/FL24/FL27	Flooding and infrastructure, Climate change risks to society and our capacity to adapt
BW6		Water leakage and losses	Action	🟢	B2, N2	BD15, WA5	Extreme weather and infrastructure, Resilience and resource use	
BW7		Customers and zones vulnerable to supply deficit	Risk	🟢	B2, N2	BD15, WA5	Extreme weather and infrastructure, Resilience and resource use	
BW8		Domestic water usage	Risk / Action	🟡	B2, N2	BD15, WA5, WA4	Extreme weather and infrastructure, Resilience and resource use	
BW9		Non-domestic water usage	Risk / Action	🟢	B2, N2	BD15, WA5	Extreme weather and infrastructure, Resilience and resource use	

Society


	Indicator ID and Name	Type	Trend	Policy context		Narratives	
				SCCAP Objective(s)	CCRA Risks/opportunities		
Society	CRS8	Excess deaths due to extreme temperatures	Impact	🟢	S1, S2	HE1, HE5	Climate change risks to society and our capacity to adapt
	CRS9	Number of hospital admissions as a result of extreme weather events	Impact	🟡	S1, S2	HE2, HE6, HE7	Climate change risks to society and our capacity to adapt
	CRS12	Number of community services at significant risk of flooding	Risk	🔴	S2, S3, B2	FL1/2, FL7/FL24/FL27	Climate change risks to society and our capacity to adapt, Flooding and infrastructure
	CRS20	Number of flood incidents attended by SFRS each year	Impact	🟡	S1, S2, S3, B2	FL1, FL7/FL24/FL27, GMr1, BE10/BE11/BE12/BE15/BE18/FL6/FL24	Climate change risks to society and our capacity to adapt, Flooding and infrastructure, Resilience and resource use
	CRS34	Number of registrations for flood warnings/alerts	Action	🟢	S2, S3	FL1, FL2	Climate change risks to society and our capacity to adapt, Flooding and infrastructure, Resilience and resource use
	CRS54	Off-grid private water supplies at risk of flooding	Risk	🔴	S1, S2, S3	FL1, FL2, HE16/MA2b	Climate change risks to society and our capacity to adapt, Extreme weather and infrastructure
	CRS58	Number of households/people falling below the SHQS & Tolerable Standard	Risk	🟢	S2, S3, B3	ENr1, BE31, HE19	Climate change risks to society and our capacity to adapt, Extreme weather and infrastructure
	CRS61	Number of households in fuel poverty	Risk	🔴	S2, B3	ENr1	Climate change risks to society and our capacity to adapt
	CRS62	Domestic debt held with energy companies for the supply of electricity and gas	Risk	🟢	S2, B3	ENr1	Climate change risks to society and our capacity to adapt
	CRS64	Uptake of energy efficiency measures	Action	🔴	S2, B3	ENr1	Climate change risks to society and our capacity to adapt, Resilience and resource use

Key


Understanding the indicator icons




Upward trend



Downward trend




No significant trend




No trend possible


The colour of icon indicates whether the trend is positive (desirable), negative (undesirable) or neutral (neither desirable or undesirable) as follows:



Positive



Negative



Neutral

Trends are described as 'positive' or 'negative' depending on whether the development is desirable for society. Based on what is being measured, both an increasing and a decreasing trend could therefore be positive.