

# Nature Recovery in Dorset: Where are we now?

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Dorset LNP

# **Today**

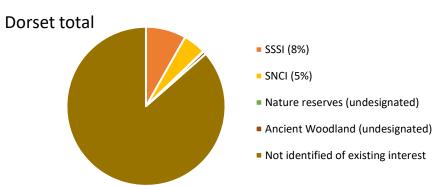
- Baseline
- Work so far
- Work underway or planned



# Baseline

**Baseline data: DERC (2021)** 

## Without Ecological Networks

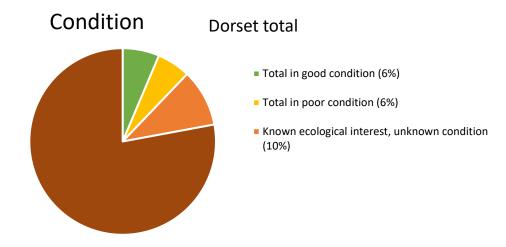




## Protected areas

Dorset total

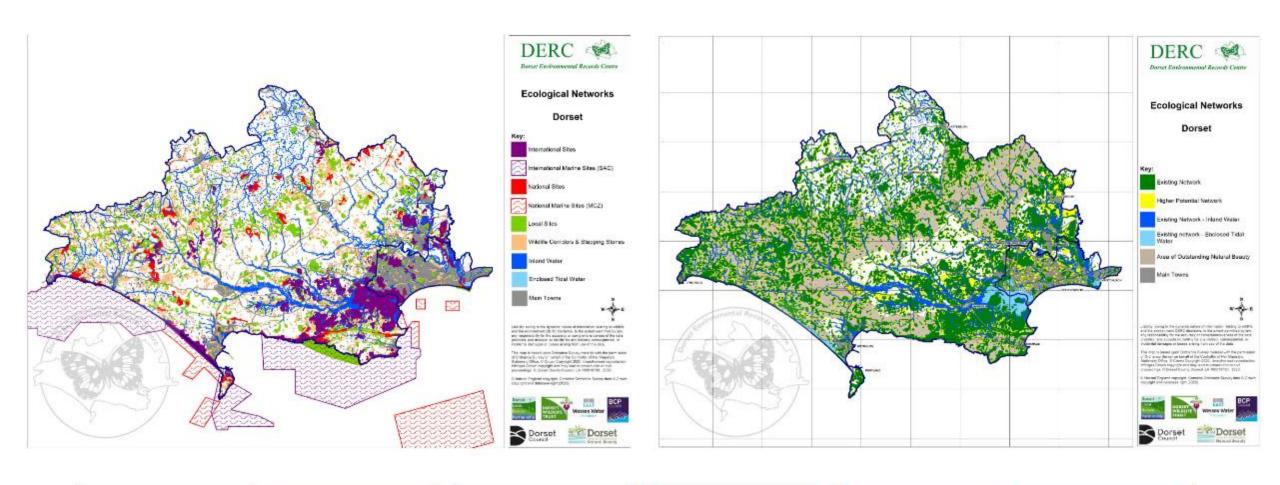
- SSSI (8%)
- SNCI (5%)
- Nature reserves (undesignated)
- Ancient Woodland (undesignated)
- Ecological Networks (other) (9%)



Dorset = Dorset and BCP council areas

**Ecological Network Mapping: DERC (2018 & 2020)** 





## **Terrestrial Biodiversity Audit: DERC (2021)**

# Dorset Local Nature Partnership

## **Dorset Important Species List**

**1** = species on the UK Biodiversity Action Plan Priority Species list or the Section 41 list (NERC Act 2006) or on Schedules 1, 5 and 8 of the Wildlife & Countryside Act 1981 (& amendments).

2 = species with the IUCN Threat Categories; **Critically Endangered**, **Endangered** or **Vulnerable**, or listed as **Near Threatened** or **Data Deficient**, or for <u>Birds</u> on the latest **Red** and **Amber** lists of Birds of Conservation Concern.

**3** = species classed as **Nationally Rare** (found in 1-15 10 -km squares nationally) or **Nationally Scarce** (found in 16-100 10 -km squares nationally).

**4** = species significant in a regional or county context. These can be species that are declining or rare within the County, or those for which Dorset supports a significant population within the region or nationally.



Purbeck Mason Wasp



Portland Sea-lavender



Splendid Waxcap

2,929	Species (1,107 on 2012 list)
424	Section 41 species
120	WCA species
396	IUCN Threatened (CR, EN, & VU
186	IUCN Near Threatened
43	Global / European Red Listed
102	Nationally Rare species
1,289	Nationally Scarce species
432	Not seen since 1990



Podoscypha multizonata



**Early Gentian** 



Duke of Burgundy

# Dorset Local Nature Partnership

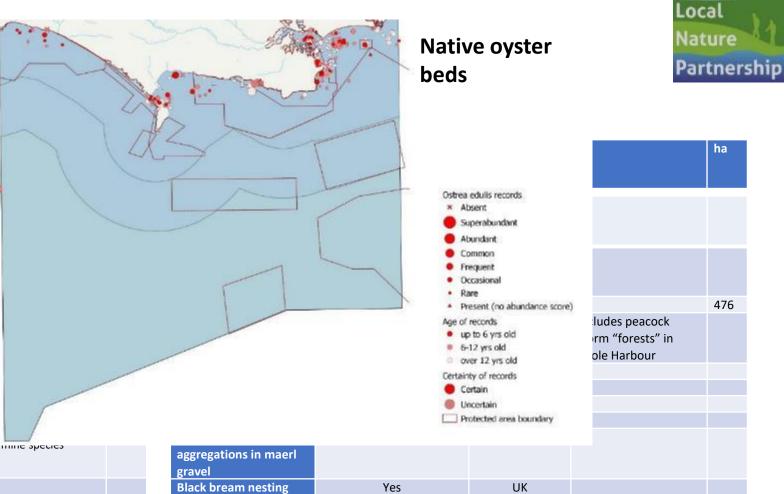
## Marine Biodiversity Audit: DWT (2021)

	FOCI/Priority Habitat occurring in	UK/Dorset Priority Habitat		ha
Blue Mussel Beds	?	UK	Mussel beds on rock excluded from UK priority habitat – probably applies to most Dorset examples	
Estuarine rocky habitats	?	UK	Difficult to map, but probably present in Poole Harbour and Portland Harbour	
Fragile sponge and anthozoan communities on subtidal rocky habitats	Yes	UK		
Intertidal mudflats	Yes	UK		2049
Intertidal underboulder communities	Yes	UK	The extent of boulders on the shore can often be determined from aerial photographs but ground-truthing is necessary to determine species richness	50?
Littoral chalk communities	Yes	UK		
Maerl beds	Yes	UK		
Sea-pen and burrowing megafauna communities	?	UK	Uncertainty over which mud biotope applies in Portland Harbour	
Native oyster (Ostrea edulis) beds	No	UK	Individual oysters widespread, but not at sufficient density to form a bed	
Peat and clay exposures	Yes	UK		

	FOCI/Priority Habitat occurring in Dorset	UK/Dorset Priority Habitat		ha
Honeycomb worm (Sabellaria alveolata) reefs	Yes	UK		
Ross worm (Sabellaria spinulosa) reefs	Yes	UK		
Seagrass beds	Yes	UK		476
Sheltered muddy gravels	Yes	UK	Includes peacock worm "forests" in Poole Harbour	
Subtidal chalk	Yes	UK		
Tide-swept channels	?	UK		
Ampelisca mats	Yes	Dorset		
Brittlestar beds	Yes	Dorset		
Neopentadactyla aggregations in maerl gravel	Yes	Dorset		
Black bream nesting sites	Yes	UK		

**Marine Biodiversity Audit: DWT (2021)** 

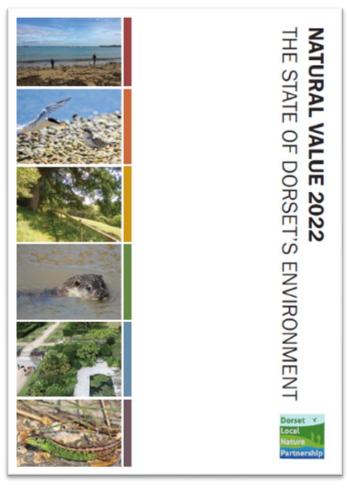
					1
	FOCI/Priority Habitat occurring in	UK/Dorset Priority Habitat			1
Blue Mussel Beds	?	UK	Mussel beds on UK priority habit to most Dorset ε		\
Estuarine rocky habitats	?	UK	Difficult to map, in Poole Harbou Harbour		
Fragile sponge and anthozoan communities on subtidal rocky habitats	Yes	UK			
Intertidal mudflats	Yes	UK		-	
Intertidal underboulder communities	Yes	UK	The extent of bo can often be det photographs but necessary to determine richness	іс эрецез	
Littoral chalk communities	Yes	UK			
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Native oyster (Ostrea edulis) beds	No	UK	Individual oysters wid at sufficient density to		
Peat and clay exposures	Yes	UK			



sites

Dorset

**Natural Value Report: Dorset LNP (2022)** 





**Natural Value Report: Dorset LNP (2022)** 













## **NATURAL**

are often taken for granted, ignored in decision making or given lower priority than social and economic goals, but they are essential for our way of life. These assets provide roads and services we rely on from fartile sof and productive land and test to fresh water and clean air. They provide vital services (often called ecosystem services) such as pollination, natural protection against Sooding spaces for recreation, and the regulation of our climate.

We need to invest in our natural approach when decision making (i.e. incorporating the impacts on the environment from the outset. so as not to grode the assets which underpin our economy and quality of Ife). This will enable greater benefits to society, to our hasith and wallbeing and community rashunca, and to our economy, to deliver a sustainable future and be an economic driver. This will also conserve and enhance our natural environment for its own intrinsic value, help to reverse the

Our natural assets (or natural capital) | ecological crisis and help address climate change insues

### Land use change

Dorset is recognized for its brodiversity and landscape quality. with many national and international designations for both wildlife species and sites. This does not mean however that all our natural environment is in good health. As with many areas in the country, land use has changed over time and more of our land has been developed to meet population growth and the need for housing and food.

Paure I shows that over time land use tross that tend to be more wildife rich such as neutral and calcareous erasslands and heathland. have been converted to improved grassland, arable and urban use. which tends to be less wildlife rich. The maps exclude most of the BCF Council area as this was not within the original 1930 map.

FIGURE I: LAND COVER CHANGE

Over 52% of Dorset's high-quality landscape to designated as Areas of Outstanding Natural Beauty (AONZ). Approximately 42% of Dorset is covered by the Dorset AONB with 1,127km² and it the fifth largest of the 46 AONBs to the UK. A further 278km<sup>1</sup> is covered by the Crarborna Chase AONB (29% of the AONB is within Dorset). These areas are designated for their beauty but are living, working areas so development is not prohibited but needs to be appropriate, for example esting local stone or versacular desire.

in around 2000 the area of fragmented hasthland (areas less than 25ha and >500m from neighbouring heathland blocks) in the south Purbeck area was approx. 230ha. Pollowing restoration work (between 2000 and today). including reversion from conflar, Improved pusture, srable, quarries etc. to lowland heathland lacid grassland, fragmentation has been reduced to around 145ha, a reduction of some 40%.

Nationally, blodhersity is in decline and between 1970 and 2019, there was a significant decline of 13% in the avarage abundance of 676 terrectrial and freshwater indicator species and a 5% decline in average species distribution. Of R.431 species assessed nationally, 15% are threatened with actinction, and 2% are already extinct

The Dorset Biodiversity Audit 2021 licts 2,930 terrestrial and freshwater species and 157 marine species of conservation concern in Dorset (species that are rare, scarce threatened, protected, declining or actinct in the county).

Table I demonstrates the marma priority habitats known to be present in Dorset, for most of these the total area is not known.

Table 2 sets out the area covered by terrestrial priority habitat within the area. The total area of priority habitat is some 19,900ha and is about 7.4%

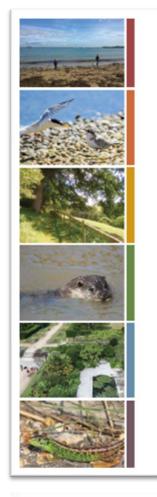
State of Mature (2019)



	UK/Dorset	
	Priority Habitat	Areaha
Fragtie sponge and anthosoan communities on subtidal rocky habitats	UK	unknown
Intertidal reudiflats	UK	2049
Intertidal underboulder communities	UK	Estimated 50
Littoral chalk communities	UK	seknown
Maerl beds	UK	unknown
Fast and day exposures	LIK	unknown
Honeycomb worm (Sabellaria alvealate) reefs	UK	unknown
Koss worm (Sabellaria spioulesa) reafs	UK	seknown
Susgram beds	UK	476
Sheltered moddy gravels	UK	unknown
Subtidal chalk	LIK	seknown
Ampelioca mato	Dorset	unknown
Brittfastar bads	Dorset	sekzown
Nespentadactyle aggregations in maeri gravel	Dorset	unknown
Black bream nesting sites	UK	unknown

	All Dorset	DC	BCP
Priority Habitat	Area (Ha)	Area (Ha)	Area (Ha
Coastal Floodplan & Grazing Marsh	655	460	195
Coastal saltmarsh	476	276	100
Coastal sand dunes	93	90	)
Coastal vegetated shingle	101	100	0
Lowland beach and your	34	24	0
Lowland calcarwous grassland	3,296	3,286	0
Lowland dry acid grantland	662	565	76
Lowland fera (excluding Valley mires)	47	45	2
Lowland fors (including Valley retrus)	665	656	,
Lowland hasthland	5,529	4,669	860
Lowland meadows	702	663	38
Lowland mixed deciduous woodland	4,401	4,288	112
Maritime citif and slope	670	470	0
Fonds (of High Ecological Quality)	7	7	0
Purple moor grass	532	500	22
Reedbeds	289	272	18
Saline Lagnons	511	511	0
Traditional Orchards	47	67	0
Wat woodland	585	553	32
Wood parture and parkland	590	590	0

**Natural Value Report: Dorset LNP (2022)** 





## **NATURAL**

## HEALTH

in Dorset the Integrated Care System (NHS and local authorities) spend £1.4 billion on health services# It to forecast that by 2023-24 NHS specialized services in Dorset will have a gap of £272reditor!". The health system needs to change to invest and focus on prevention to reduce the need for acute care in the

There is increasing evidence about the value being in nature has to health and wellbeing. The natural environment makes a huge contribution to physical and mantal has/th and wallbaing, with many paopla accessing natural and green spaces to support their quality of Iffa, offering opportunities for physical activity and a place for quiet contemplation to reduce stress and anxiety. The pandemic highlighted the value of nature for people's wellbeing. health issue at some time in their lift particularly during the lockdowns.

### atural health service

Physical activity can reduce the risk of reator illnesses, such as type 2 disbetes, cancer, heart disease and stroke by up to 50%, and lower risk. of early death by up to 30% as well as supporting good mantal health. The cost of physical tractivity to Dorset CCG is around £6.5million\* A study by Exeter University valued the benefits to health of 'Green avarcita' (physical activity in natural environments) in England at around £2.2 billion a year"

Both inactivity and longings; can have huge impacts to people's health and wellbeing. Table 10 demonstrates Dorsat's activity levels. In 2019. 20" 57% of BCP Council residents active (at least 150 minutes a week) compared with 61% across England. In the same year 30.6% in BCP Council area and 19.9% in Dorset Council area did less than 30mins a week (27% England).

While Source across Dorset are below the prerure for people feeling lonely often or always and above average for those never feeling lonely almost 39% of people felt lonely some of the time or occasionally (comparable with the England

One in four people will have a mental and one in six people at any one time will have a mental health incue - this means that in Dorset about 128,971 pappia out a total population of 773 831 (mad-year estimates 2019) will have a reental health book at an

	2015-16	2016-17	2017-18	2018-19	2019-20
Active at Least 150 minutes a week	62.0	64.0	66.6	66.5	643
Fairly active: 30-149 minutes per week	13.4	12.2	12.4	12.3	10.2
Inactive: less than 30 minutes a week	24.5	23.0	21.0	21.2	25.3



	Dorset	BCP Council	Derset Council	England
Other/always	0	0	0	5.3
Some of the time	19.7	21.4	17.9	16.9
Occasionally	19	19	18	21.5
Hardly ever	25.8	25.1	26.5	29.8
Never	31.6	30.1	33.3	27

### FABLE 12: DEPRESSION AND ANXIETY PREVALENCE \*

	BCP Council	Dorset	Southwest	England
Depression and anotaty prevalence (% on GP register 18+)	10.8	11.0	11.2	10.7

Receased shows that just 5 mins in the natural environment helps to boost mood" and a recommendation has been made that we should all spend 120 minutes a week in the nature to support of wellbeing. Activities in the natural environment offer both a preventative and a and enhance health and wellbeing.

opportunities to support wellbeing and act as a prevention to filess. through opportunities for physical

activity, social correction, meetal streedston and relaxation. Health needs and illnesses can also be supported by therapeutic opportunities to either reduce symptoms or help improve quality of life. The green prescription service. Natural Choices\*, was rolled out across Dorset, offering over 60 activities from 27 providers (precovid). The programme acts as an umbrella brand which brings together opportunities for activities within the natural emtronment which support both physical and mental wellbeing in one place which people can self-refer

Dorset

Nature

Partnership

Local

Dorset AONE received £329,000 from the By Lottery for a three-year protect (2017-2020) to engage older people needing additional support, including those living with demants and their rarger in demantis friendly eathers, has ad activities and seesany rich visits to places of interest in Dorset. The Stapping into Nature® evaluation highlighted the benefits of the project - 79% of people intended to spend more time outdoors, 92% fait they had good opportunities to socialise, 80% fait the activities allowed them good opportunities to and 91% intended to return and take part in further activities. A feture £380,000 has been awarded to expand the project for a further three years.

The Dorset Sustainability and Transformation Plan (STP) brings the hasith system (NI-IS, Public Health,

in Journal of Position Psychology (2018)





Work underway or planned

- Data / evidence mapping
- Biodiversity Character Area Mapping
- Stakeholder Communications
   Plan
- Wider engagement once guidance published



Thank you

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