DORSET LOCAL NATURE RECOVERY STRATEGY HABITAT ASSEMBLAGES

Habitat assemblage:	Species of short, open chalk and limestone grassland
Broad Habitat type:	Grasslands
S41 and Priority Habitat type:	Lowland Calcareous Grassland
Composite species assemblages:	Butterflies and day-flying moths of chalk and limestone grassland Invertebrates of open, species-rich calcareous grassland Plants of short, open chalk and limestone grassland Bryophytes and lichens of short, open chalk and limestone grassland Fungi associated with Rockrose-rich chalk grasslands

Habitat assemblage description:	There are approximately 3,300-hectares in Dorset which is around 10% of the English resource. Calcareous grassland that is naturally open, often with low rock outcrops and with sward between 1 and 7cm high is often very localised and typically found on south-facing aspects, stands on the coast are often droughted in the summer. There are features such as old pits, spoil heaps, trackways and the ramparts of ancient monuments that often support shorter turf than on the general slope. Historically rabbits would have been important in keeping areas short and open, but their numbers are far lower and now their impact is often very localised. In Dorset the limestone of Portland and Purbeck support the richest stands of this type of grassland including early gentian, early spider-orchid and bastard toadflax for which Dorset has nationally important populations. On sites with a long history of grazing the animals produce paths and small 'terracettes' that support niches for small annual mosses and ground nesting invertebrates. Warm or hot south-facing slopes are favoured by several butterfly species such as the adonis blue and silver-spotted skipper.
	The main plant communities within the National Vegetation Classification that have short turf are CG1, CG2a, CG3a, CG4a and CG7.

Other related assemblages:Species of longer calcareous grassland, and scrub marginsSpecies of maritime cliffs, undercliffs and coastal slopes	
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Pressures and Threats	
PA05	Abandonment of management/use of grasslands and other agricultural and agro-forestry systems (e.g. cessation of grazing, mowing or traditional farming)
	Changes in land use such as the cessation of grazing and abandonment leads to encroachment of coarser grasses and tall vegetation and eventually scrub.
PA07	Intensive grazing or overgrazing by livestock

PJ03	Changes in precipitation regimes due to climate change
	grasses tor-grass and upright brome can be invasive and swamping smaller fine-leaved grasses and herbs and reducing the amount of bare ground for annuals and bryophytes and lichens. These species are generally only a problem where grazing levels are significantly reduced.
	bramble and ivy which can rapidly invade and result in the loss of bare ground and hasten the invasion of larger scrub species. At certain sites the coarse
	Relaxation of grazing encourages coarser grassland and scrub species such
PI03	Problematic native species
	established in chalk and limestone grassland and spread covering large areas of ground. It has been cleared from many areas on within protected sites on Portland.
1102	In Dorset invasive non-native such as <i>cotoneaster</i> species have become
PI02	Other invasive alien species
	Locally very high numbers of visitors can cause erosion and enrichment of soil. In the spring and summer disturbance to ground-nesting birds can be issue.
PF05	Sports, tourism and leisure activities
	events can increase the chances of land managers resorting to herbicides to control problem plants, further exacerbating the ecological damage.
	creeping buttercup, stinging nettle, dock spp. and thistle spp. This sequence of
	favouring plants that benefit from nutrient levels and disturbance such as
	Feeding of animals in feeders causes localised poaching (excessive trampling) and enrichment of the soil resulting in a change in sward composition by
PA19	Agricultural activities generating soil pollution
	grassland in these areas. This is a particular problem on small sites or narrow slopes and can eventually lead to a loss of species diversity.
	slopes often leading to the development of band of rank and species-poor
	survive on steep slopes, the application of fertilizers at the foot of, or top of, the
	thrive in nutrient-poor soils. On the chalk and limestone many grasslands
	the expense of most plants of ancient semi-natural grassland which typically
PA13	Application of natural or synthetic fertilisers on agricultural landArtificial fertilizers encourage the growth of a few nitrogen-tolerant species at
	and coarse grasses such as tor-grass and upright brome.
	species to seed into and provides a habitat for many bryophytes and lichens. Eventually smaller herbs will be outcompeted by more robust perennials herbs,
	herbs resulting in a decrease or loss of bare ground which is required by annual
	Under-grazing of grassland results in the encroachment of coarser grasses and
PA08	Extensive grazing or under-grazing by livestock
	and also enrichment.
	invertebrates. It can also cause localised erosion, especially on steep slopes,
	Higher levels of stocking are needed to maintain a short sward, but prolonged intensive grazing can significantly reduce the flower resource needed by

	The changing climate results in changing weather patterns including droughts and high rainfall that can impact on vegetation. Increase rainfall particularly in late summer and autumn coupled with an extended growing period into early means that swards can be but longer than favourable during the winter unless grazing levels are maintained sufficiently.
PK04	Atmospheric N-deposition
	Low level deposition of nitrogen and ammonia compounds has a fertilizing effect on vegetation favouring Nitrogen demanding grasses and herbs over species of ancient grasslands that require infertile soils. This effect can be compounded by a reduction in grazing and a prolonged growing season.

Group	Species	Common Name	IUCN GB	IUCN Eng	IUCN other	Criteria				Threats / Pre	Pressures			
Butterflies	Coenonympha pamphilus	Small Heath	۷V	n/a	n/a	1	PA05	-	-	-	-	-	•	
Butterflies	Cupido minimus	Small Blue	NT	n/a	n/a	2	-	-			-	-	•	•
Butterflies	Hesperia comma	Silver-spotted Skipper	۷V	n/a	n/a	1	PA05	PA08	•	•		-	•	•
Butterflies	Polyommatus coridon	Chalk-hill Blue	۷V	n/a	n/a	1	PA05	PA07	-	-	-	-	•	
Butterflies	Polyommatus bellargus	Adonis Blue	۷V	n/a	n/a	1	PA05	PA07	•			•	•	•
Butterflies	Pyrgus malvae	Grizzled Skipper	۷V	n/a	n/a	1	PA05	PA07	PA08		-	-	•	
Butterflies	Euphydryas aurinia	Marsh Fritillary	۷V	n/a	n/a	1								
Butterflies	Melitaea cinxia	Glanville Fritillary	Π Ζ	n/a	n/a	7		•	•	•	•	•		•

Micro-habitat assemblage: Butterflies and day-flying moths of chalk and limestone grassland

Micro-habitat assemblage: Invertebrates of short and open species-rich calcareous grassland

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Group	Species	Common Name	GB	Eng	other	Criteria				Threats / Pre	ressures			
Beetles h	Harpalus dimidiatus	a ground beetle	T	n/a	n/a	2	-	•	•	-	•			•
Beetles C	Cryptocephalus primarius	Rockrose Pot Beetle	ΕN	n/a	n/a	1	PA05	РК04	-	-	•	-	-	•
Beetles L	Lebia cruxminor	a ground beetle	EN	n/a	n/a	1	•	•	•	-	•	•	-	•
Beetles L	Longitarsus minusculus	a flea beetle	DD	n/a	n/a	သ	PA05	PA08	РК04	-	•	•	•	•
Beetles A	Amphimallon fallenii	Scarce Summer Chafer	TN	n/a	n/a	2								
Bugs C	Canthophorus impressus	Down Shieldbug	LC	n/a	n/a	3							•	•
	Solenopsis fugax	Small Raider Ant	RDB3	n/a	n/a	3	PA05	PA08				•		•
	Sphecodes ferruginatus	Dull-headed Blood Bee	(NT)	n/a	ГС	2, 4	PA04	PA05	PA08					
Bees S	Sphecodes hyalinatus	Furry-bellied Blood Bee	•	n/a	NT(ERLB)	2	PA04	PA05	PA08	-	•	-	•	•
Bees A	Andrena similis	Red-backed Minig Bee	-	n/a	LC	4	PA05	PA08	PK04	-	-	-	-	•
Wasps A	Aporus unicolor			n/a	n/a	3	PA05	PA07	PF05	PH04	•	•	-	•
	Arachnospila minutula			n/a	n/a	4	PA05						-	
Macro-moths A	Adscita geryon	Cistus Forester	LC	n/a	n/a	5	-	•	•	•	•	•	-	•
Macro-moths F	Parasemia plantaginis	Wood Tiger		n/a	n/a	5	•		•		•		-	•
Macro-moths 7	Trichopteryx polycommata	Barred Tooth-striped		n/a	n/a	4	•	•	•	•	•		•	•
Micro-moths	Epermenia insecurella	Chalk-hill Ridge-back Chalk-hill Lance-wing		n/a	n/a	3		-	-				-	•
Micro-moths h	Mecyna flavalis subsp. flaviculalis		5	n/a	n/a	5	-	-						
Micro-moths	Pelochrista caecimaculana	Chalk Hill Tortrix; Chalk Hill Bell		n/a	n/a	4	-	-						
Macro-moths T	Tholera cespitis	Hedge Rustic	۷V	n/a	n/a	1	-	-	-	-	-	-	-	•
Micro-moths A	Acompsia schmidtiellus	Margjoram Snout; Marjoram Crest		n/a	n/a	5			-				-	
Micro-moths G	Gynnidomorpha luridana	Bartsia Straw; Bank Conch		n/a	n/a	5	-	-	•	•	•	•	-	•
Macro-moths A	Adscita statices	Forester	LC	n/a	n/a	5	-	-	-	-	-	-	-	•
Micro-moths A	Agonopterix pallorella	Black-streaked Buff; Pale Flat-body		n/a	n/a	5		-	-	-				•
Macro-moths E	Eupithecia satyrata	Satyr Pug	Ś	n/a	n/a	-	•		•	•	•	•	•	•

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Group	Species	Common Name	>			Criteria				Threats / P	Pressures			
Plants	Arabis hirsuta	Hairy Rock-cress	5	N L	n/a	2	PA04	PA05	PA08			•	•	
Plants	Carex humilis	Dwarf Sedge	Б	ГС	n/a	ယ	PA04	PA08	PK04	-	-	•	•	
Plants	Cerastium pumilum	Dwarf Mouse-ear	N	Б	n/a	2	PA05	PA08	PK04	-	-	•	•	
Plants	Dactylorhiza viridis	Frog Orchid	VU	۷V	n/a	-	PA05	PA08	PJ01	PK04	-	-	•	
Plants	Euphrasia confusa	Confused Eyebright	DD	۷V	n/a	4	PA05	PA08	РК04		•		•	
Plants	Euphrasia pseudokerneri	Large-flowered Eyebright	ΕZ	Ś	n/a	-	PA05	PA08	РК04				•	
Plants	Euphrasia tetraquetra	Western Eyebright		N	n/a	2	PA05	PA08	РК04				•	_
Plants	Gastridium ventricosum	Nit-grass	LC	LС	n/a	ω	PA05	PA08	PJ03	РК04	-	-	•	
Plants	Gentianella amarella ssp. anglica	Early Gentian	ГС	Ś	n/a	_	PA05	PA08	PJ03	РК04	-	-		
Plants	Helianthemum nummularium	Common Rock-rose		N	n/a	2	PA05	PA08	РК04				•	
Plants	Neotinea ustulata	Burnt Orchid	ΕN	ΕZ	n/a	-	PA05	PA08	PK04				•	
Plants	Pilosella peleteriana	Shaggy Mouse-ear Hawkweed	۷V	ГС	n/a	4	PA05	PA08	РК04				•	
Plants	Spiranthes spiralis	Autumn Lady's-tresses	NT	N	n/a	2	PA05	PA08	РК04				•	
Plants	Tephroseris integrifolia	Field Fleawort	ΕZ	Ś	n/a	1, 4	PA05	PA08	РК04	-	-		•	
Plants	Thesium humifusum	Bastard Toadflax	- 7	- ว	n/a	ω	PA05	0 0 0 0	РК04		-		•	
Plants	Valerianella eriocarpa	Hairy-fruited Cornsalad	۲ C					LAOO						
Group	Species	Micro-habitat assemblage: Bryophytes and lichens of short, open chalk and limestone grassland	LC LC Imeston	LC e grasslan		ယ	PA04	PA08	РК04					
Liverworts	Cephaloziella baumgartneri	lichens of short, open chalk ar Common Name	nd limeston GB	e grasslan		3 Criteria	PA04	PA08	РК04	Threats / Pr	⁵ ressures			
Liverworts	rella	d lichens of short, open chalk ar Common Name Chalk Threadwort	nd limeston GB EN	e grasslan IUCN Eng		3 Criteria	PA04	PA08	РК04 Р103	Threats / F PK04	O I			
Mosses	_	d lichens of short, open chalk ar Common Name Chalk Threadwort Blackwort	ILC ILC ILC ILC ILC GB GB EN CR	e grasslan IUCN Eng n/a n/a		3 Criteria	PA04 PA05 PA05	PIO2 PIO2	РК04 Р103 Р103	Threats / F PK04 PK04	e e			
Mosses	abietina ssp.	d lichens of short, open chalk ar Common Name Chalk Threadwort Blackwort Prickly Tamarisk-moss	ILC INTER INTER INTER	e grasslan IUCN Eng n/a n/a		Criteria 4	PA05 PA05 PA05	PI02 PK04	РК04 -	Threats / F PK04 PK04	O			
Mosses	a ssp.	d lichens of short, open chalk ar Common Name Chalk Threadwort Blackwort Prickly Tamarisk-moss Canary Thread-moss	Ind limeston Ind limeston Ind limeston Ind limeston Ind limeston	e grasslan IUCN Eng n/a n/a n/a		Criteria 4 4	PA05 PA05 PA05 PA05	PI02 PK04 PK04	РК04 		O O			
Mosses	iense	d lichens of short, open chalk ar Common Name Chalk Threadwort Blackwort Prickly Tamarisk-moss Canary Thread-moss Muhlenberg's Cord-moss	IUCN GB EN EN LC LC	e grasslan IUCN IUCN n/a n/a n/a	z	3 Criteria 4 2, 4	PA05 PA05 PA05 PA05 PA05	РА08 Р102 Р102 РК04 РК04	РЮ3 		O O			
Mosses	abietina ssp. nariense on gii n pulchellus	d lichens of short, open chalk ar Common Name Chalk Threadwort Blackwort Prickly Tamarisk-moss Canary Thread-moss Canary Thread-moss Muhlenberg's Cord-moss Pretty Cord-moss	NT LC NT	e grasslan IUCN Eng n/a n/a n/a n/a n/a		3 Criteria 1 2, 4 2, 4	PA05 PA05 PA05 PA05 PA05 PA05	PIO2 PIO2 PK04 PK04 PK04 PK04	РК04 РК04 РК04					
Mosses	iense oulchellus	d lichens of short, open chalk ar Common Name Chalk Threadwort Blackwort Prickly Tamarisk-moss Canary Thread-moss Muhlenberg's Cord-moss Pretty Cord-moss Strap-leaved Earth-moss	IC IC IC IC IC IC IC IC IC IC	e grasslan IUCN IUCN IUCN n/a n/a n/a n/a n/a		3 Criteria 1 2,4 2,4	PA05 PA05 PA05 PA05 PA05 PA05 PA05	PA08 PI02 PK04 PK04 PK04 PK04	РК04 РЮ3 РЮ3 РК04		0			
Mosses	iense oulchellus	d lichens of short, open chalk ar Common Name Chalk Threadwort Blackwort Prickly Tamarisk-moss Canary Thread-moss Canary Thread-moss Muhlenberg's Cord-moss Pretty Cord-moss Strap-leaved Earth-moss Portland Feather-moss	CR C	e grasslan IUCN Eng n/a n/a n/a n/a n/a n/a n/a		3 Criteria 1 2,4	PA05 PA05 PA05 PA05 PA05 PA05 PA05	PA08 PI02 PK04 PK04 PK04 PK04 PK04 PK04 PK04 PK04	РК04 РК04 РК04					
Mosses	iense oulchellus hium espitosa	d lichens of short, open chalk ar Common Name Chalk Threadwort Blackwort Prickly Tamarisk-moss Canary Thread-moss Canary Thread-moss Muhlenberg's Cord-moss Pretty Cord-moss Pretty Cord-moss Pretty Cord-moss Protland Feather-moss Round-fruited Pottia	IC IC IC IC IC IC IC IC IC IC	e grasslan IUCN Eng n/a n/a n/a n/a n/a n/a n/a n/a		3 Criteria 1 2,4 2,4	PA05 PA05 PA05 PA05 PA05 PA05 PA05 PA05	PA08 PI02 PK04 PK04 PK04 PK04 PK04 PK04 PK04 PK04	РК04 РК04 РК04 РК04	Threats / F PK04 . .				
	iense oulchellus hium hium espitosa im	lichens of short, open chalk ar Common Name Chalk Threadwort Blackwort Srickly Tamarisk-moss Canary Thread-moss Muhlenberg's Cord-moss Pretty Cord-moss Strap-leaved Earth-moss Portland Feather-moss Round-fruited Pottia	Ind limeston Ind limeston In	e grasslan IUCN Eng n/a n/a n/a n/a n/a n/a n/a n/a		3 Criteria 4 4 4	PA05 PA05 PA05 PA05 PA05 PA05 PA05 PA05	PA08 PK04 PK04 PK04 PK04 PK04 PK04 PK04 PA08 PA08 PA08	РК04 РК04 РК04 РК04				

Micro-habitat assemblage: Plants of short, open chalk and limestone grassland

Land and freshwater snails

Truncatellina callicratis

British Whorl Snail

Z

n/a

n/a

N

PA05

PA08

РК04

.

Threats / Pressures

Lichens	Lichens	Lichens	Lichens	Lichens	Lichens	Lichens	Mosses
Thalloidima sedifolium	Squamarina cartilaginea	Caloplaca stillicidiorum	Placidium pilosellum	Lemmopsis arnoldiana	Bilimbia lobulata	Biatorella fossarum	Weissia sterilis
							Sterile Beard-moss
n/a	n/a	n/a	TN	NT	LC	EZ	LC
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	NT (Eur)
3, 4	3, 4	3, 4	2	2	4	-	2
PA05	PA05	PA05	PA08	PA08	PA05	PA05	PA05
PA08	PF05	PA08	PI02	PI03	PI02	PI02	PA08
PF05	P102	PI03	PI03	PK04	P103	PI03	PK04
PI02	P103	PK04	PK04		PK04	PK04	
PI03	PK04	-	-			-	
PK04		-			•		
		-		-			
		-					

Micro-habitat assemblage: Fungi associated with Rockrose-rich chalk grasslands

		_	
Fungi	Fungi	Fungi	Group
Tricholoma hemisulphureum	Cortinarius subturibulosus	Cortinarius cisticola	Species
			Common Name
n/a	n/a	n/a	IUCN GB
n/a	n/a	n/a	IUCN Eng
n/a	n/a	n/a	IUCN other
4	4	4	Criteria
PA05	PA05	PA05	
PA08	PA08	PA08	
РК04	PK04	PK04	
		-	Threats / Pre
-		•	ressures
-		•	
-		•	
	-	-	