

The Biodiversity Metric 2.0 - Calculation Tool

Start page

Project details

Planning authority:	Planning Inspectorate (Nationally Significant Infrastructure Project)
Project name:	A417 Missing Link
Applicant:	National Highways
Application type:	Development Consent Order
Planning application reference:	TR010056
Assessor:	Kenna Dallaway/ Charlotte Phillips
Reviewer:	Luke Casey
Revision:	DCO Deadline 1
Assessment date:	10/12/2021
Planning authority reviewer:	

Instructions

Main menu

Results

View all

Reset view

Cell style conventions

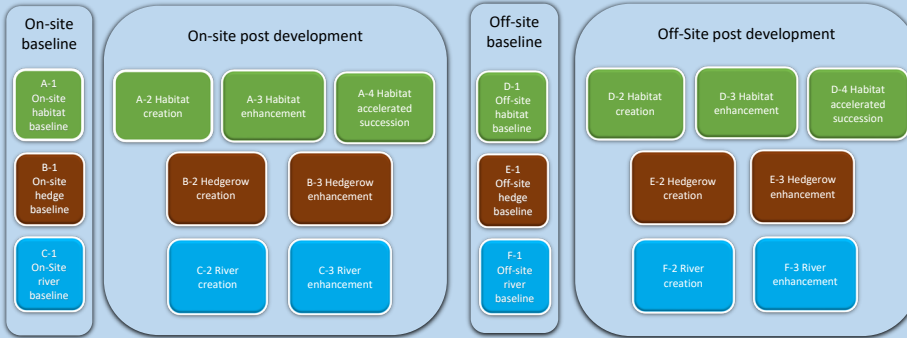
	Enter data
	Automatic lookup
	Result

The Biodiversity Metric 2.0 - Calculation Tool Main menu

Street tree helper		
Tree size	Tree number	Area
Small		0.0000
Medium		0.0000
Large		0.0000
Total	0.00	0.0000

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The Biodiversity Metric 2.0 - Calculation Tool

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Headline results

Detailed results

Habitat trading
summary

2417 Missing Link

Headline Results

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On-site baseline	
Habitat units	847.33
Wetprow units	4.68
River units	20.28

On-site post-intervention <small>(Including habitat retention, creation, enhancement & succession)</small>	
Habitat units	573.59
Wetprow units	74.87
River units	14.89

Off-site baseline	
Habitat units	0.00
Wetprow units	0.00
River units	0.00

Off-site post-intervention <small>(Including habitat retention, creation, enhancement & succession)</small>	
Habitat units	0.00
Wetprow units	0.00
River units	0.00

Total net unit change <small>(Including all on-site & off-site habitat retention/creation)</small>	
Habitat units	-273.74
Wetprow units	70.19
River units	-5.89

Total net % change <small>(Including all on-site & off-site habitat creation + retained habitats)</small>	
Habitat units	-32.42%
Wetprow units	15.19%
River units	-29.56%

Summary Figures

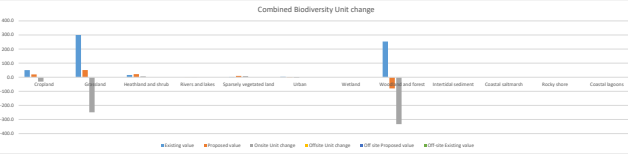
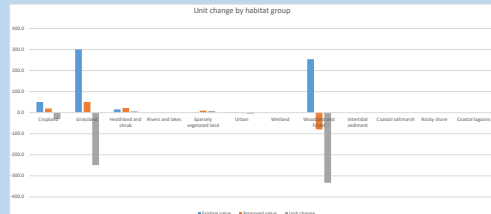
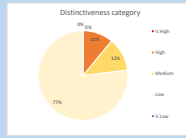
Net project biodiversity units <small>(including all on-site & off-site habitat retention/creation)</small>	Habitat units	-251.34
	Hedgehog units	-25.13
	River units	-5.39
Total project biodiversity % change <small>(including all On-site & Off-site Habitat Creation + Retained Habitat)</small>	Habitat units	-29.66%
	Hedgehog units	-50.40%
	River units	-26.54%

On-site habitat retention and enhancement

	Baseline	Proposed	Change
Total site area / length	100.00	4.93	2.01
Total site units	847.23	48.55	20.33
Area / length retained	30.39	1.81	1.11
Units Retained	186.64	15.55	12.35
Area / length enhanced	17.88	0.06	0.06
Baseline units enhanced	95.79	0.05	0.05
Area / length succession	0.00		
Units succession	0.00		
Area / length lost	154.45	1.12	0.21
Units lost	326.54	30.04	7.84

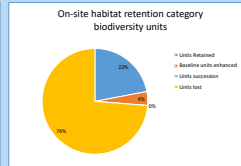
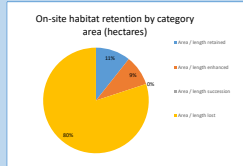
Lost by distinctiveness

Category	Area lost (hectares)	Area lost (%)
Low	0	
High	16.87	11
Medium	85.26	52
Low	104.17	77
Very low	0	



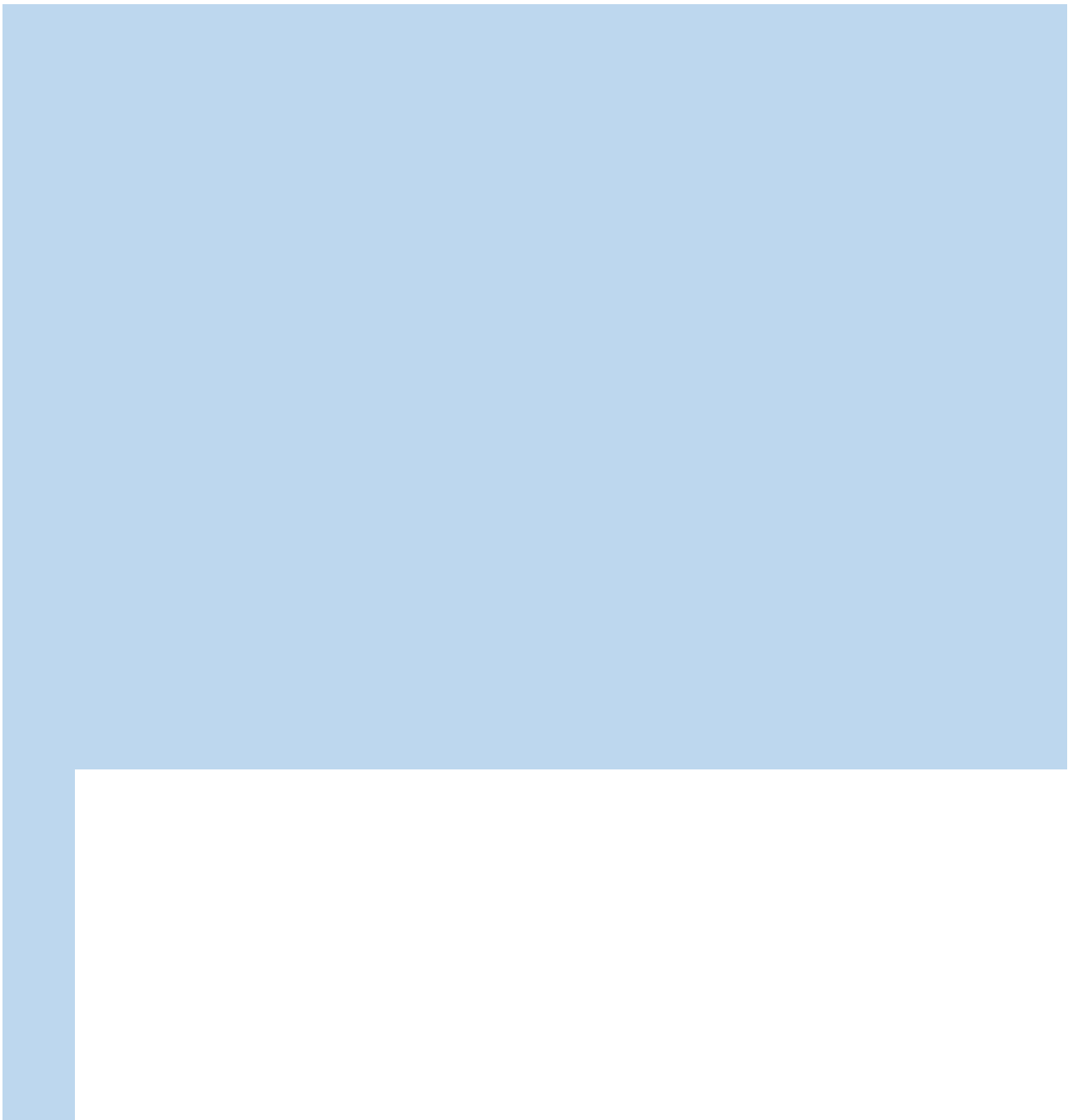
Habitat group	Baseline		Post development on site		On-site Change	
	Existing area	Existing value	Proposed area	Proposed value	Area change	On-site Unit change
Cropland	25.7	50.6	10.3	19.9	-15.4	-30.7
Grassland	114.4	300.0	22.2	51.0	-126.6	-249.0
Heathland and scrub	2.5	15.9	2.5	22.3	0.3	6.4
Rivers and lakes	0.0	0.0	0.0	0.1	0.0	0.1
Sparsely vegetated land	1.1	2.0	1.8	9.8	0.8	7.8
Urban	22.8	2.8	18.6	2.1	-2.2	-5.0
Woodland	0.0	0.0	0.0	0.0	0.0	0.0
Woodland and forest	26.7	253.3	7.7	79.4	-19.0	-332.9
Intertidal wetland	0.0	0.0	0.0	0.0	0.0	0.0
Coastal saltmarsh	0.0	0.0	0.0	0.0	0.0	0.0
Rocky shore	0.0	0.0	0.0	0.0	0.0	0.0
Coastal lagoons	0.0	0.0	0.0	0.0	0.0	0.0

Overall Change	
Area change	Unit change
-15.4	-30.7
-126.6	-249.0
0.3	6.4
0.0	0.1
0.8	7.8
-2.2	-5.0
0.0	0.0
-19.0	-332.9
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0



Habitat group	Baseline		Post development Off-site		Off-site Change	
	Existing area	Existing value	Proposed area	Proposed value	Area change	Off-site Unit change
Cropland	0.0	0.0	0.0	0.0	0.0	0.0
Grassland	0.0	0.0	0.0	0.0	0.0	0.0
Heathland and scrub	0.0	0.0	0.0	0.0	0.0	0.0
Rivers and lakes	0.0	0.0	0.0	0.0	0.0	0.0
Sparsely vegetated land	0.0	0.0	0.0	0.0	0.0	0.0
Urban	0.0	0.0	0.0	0.0	0.0	0.0
Woodland	0.0	0.0	0.0	0.0	0.0	0.0
Woodland and forest	0.0	0.0	0.0	0.0	0.0	0.0
Intertidal wetland	0.0	0.0	0.0	0.0	0.0	0.0
Coastal saltmarsh	0.0	0.0	0.0	0.0	0.0	0.0
Rocky shore	0.0	0.0	0.0	0.0	0.0	0.0
Coastal lagoons	0.0	0.0	0.0	0.0	0.0	0.0

Habitat group	Baseline		Combined Post development		Combined change	
	Existing area	Existing value	Proposed area	Proposed value	Proposed area	Proposed value
Cropland	25.7	50.6	10.3	19.9	-15.4	-30.7
Grassland	114.4	300.0	22.2	51.0	-126.6	-249.0
Heathland and scrub	2.5	15.9	2.5	22.3	0.3	6.4
Rivers and lakes	0.0	0.0	0.0	0.1	0.0	0.1
Sparsely vegetated land	1.1	2.0	1.8	9.8	0.8	7.8
Urban	22.8	2.8	18.6	2.1	-2.2	-5.0
Woodland	0.0	0.0	0.0	0.0	0.0	0.0
Woodland and forest	26.7	253.3	7.7	79.4	-19.0	-332.9
Intertidal wetland	0.0	0.0	0.0	0.0	0.0	0.0
Coastal saltmarsh	0.0	0.0	0.0	0.0	0.0	0.0
Rocky shore	0.0	0.0	0.0	0.0	0.0	0.0
Coastal lagoons	0.0	0.0	0.0	0.0	0.0	0.0

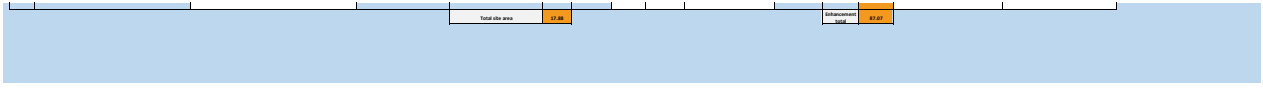


Proposed Habitat	Area (hectares)	Disturbance	Score	Condition	Score	Habitat Characteristics				Management Options				Effort/Weight		Habitat units achieved	Assessor comments	Reviewer comments
						Ecological connectivity	Connectivity	Connectivity multiplier	Strategic significance	Strategic multiplier	Time to target condition/years	Time to target multiplier	Difficulty of creation/years	Difficulty of maintenance/multiplier				
Grassland - Modified Grassland	0.79	Low	2	Poor	1	Low	Dispersed habitat	1	Area comparison not in local context on local scale	Low Strategic significance	1	1	0.905	Low	1	18.28		
Woodland and forest - Other coniferous woodland	0.01	Low	2	Poor	1	Low	Dispersed habitat	1	Area comparison not in local context on local scale	Low Strategic significance	1	1	0.905	Low	1	0.01		
Woodland and forest - Lowland mixed deciduous woodland	0	High	4	Moderate	2	High	Highly connected habitat	1.68	Area comparison not in local context on local scale	High Strategic significance	1.68	20+	0.920	High	0.18	0.00		
Urban - Arable grassland	0	Low	2	Poor	1	Low	Dispersed habitat	1	Area comparison not in local context on local scale	Low Strategic significance	1	1	0.905	Low	1	0.00		
Urban - Arable grassland	0.00	Low	2	Poor	1	Low	Dispersed habitat	1	Area comparison not in local context on local scale	Low Strategic significance	1	1	0.905	Low	1	0.00		
Heathland and shrub - Mixed scrub	0.11	Medium	4	Moderate	2	Low	Dispersed habitat	1	Location ecologically desirable but not ecologically strategic	Medium Strategic significance	1.1	2	0.900	Low	1	0.07		
Heathland and shrub - Mixed scrub	0	Medium	4	Poor	1	Low	Dispersed habitat	1	Area comparison not in local context on local scale	Low Strategic significance	1.1	1	0.905	Low	1	0.00		
Coastal - Central ridge	0.01	Low	2	N/A - Marginal	1	Low	Dispersed habitat	1	Area comparison not in local context on local scale	Low Strategic significance	1	1	0.905	Low	1	0.01		
Woodland and forest - Lowland mixed deciduous woodland	0.1	High	4	Moderate	2	Low	Dispersed habitat	1	Within area formerly identified in local context	High Strategic significance	1.15	20+	0.920	High	0.18	0.01		
Grassland - Other neutral grassland	1.08	Medium	4	Moderate	2	Low	Dispersed habitat	1	Location ecologically desirable but not ecologically strategic	Medium Strategic significance	1.1	10	0.700	Low	1	0.08		
Woodland and forest - Other woodland, broadleaved	0.07	Medium	4	Moderate	2	Low	Dispersed habitat	1	Area comparison not in local context on local scale	Low Strategic significance	1	20	0.920	Medium	0.07	0.13		
Woodland and forest - Lowland mixed deciduous woodland	0.07	Medium	4	Moderate	2	Low	Dispersed habitat	1	Area comparison not in local context on local scale	Low Strategic significance	1.1	20	0.920	Medium	0.07	0.18		
Grassland - Lowland calcareous grassland	0.4	High	4	Moderate	3	High	Highly connected habitat	1.15	Within area formerly identified in local context	High Strategic significance	1.15	20+	0.920	High	0.18	0.00		
Woodland and forest - Other coniferous woodland	0.01	High	4	Moderate	3	High	Highly connected habitat	1.15	Within area formerly identified in local context	High Strategic significance	1.15	20	0.920	High	0.18	0.00		
Woodland and forest - Lowland mixed deciduous woodland	0.01	High	4	Poor	1	High	Highly connected habitat	1.68	Area comparison not in local context on local scale	High Strategic significance	1.68	20+	0.920	High	0.18	0.00		
Grassland - Other neutral grassland	0.07	Medium	4	Poor	1	Low	Dispersed habitat	1	Location ecologically desirable but not ecologically strategic	Medium Strategic significance	1.1	1	0.905	Low	1	0.07		
Woodland and forest - Other coniferous woodland	0	Low	2	Fairly Poor	1.5	Low	Dispersed habitat	1	Area comparison not in local context on local scale	Low Strategic significance	1	20	0.900	Low	1	0.00		
Woodland and forest - Other woodland, broadleaved	0.11	Medium	4	Moderate	2	Low	Dispersed habitat	1	Location ecologically desirable but not ecologically strategic	Medium Strategic significance	1.1	20	0.920	Medium	0.07	0.20		
Grassland - Lowland calcareous grassland	0.25	High	4	Moderate	3	High	Highly connected habitat	1.15	Within area formerly identified in local context	High Strategic significance	1.15	20	0.920	High	0.18	0.04		
Urban - Developed land, mixed surface	0.16	V Low	0	N/A - Other	0	Low	Dispersed habitat	1	Area comparison not in local context on local scale	Low Strategic significance	1	0	1.000	Low	1	0.00		
Grassland - Other neutral grassland	0	Medium	4	Moderate	2	High	Highly connected habitat	1.15	Within area formerly identified in local context	High Strategic significance	1.15	20	0.700	Low	1	0.00		
Woodland and forest - Lowland mixed deciduous woodland	0.07	High	4	Moderate	2	Low	Dispersed habitat	1	Within area formerly identified in local context	High Strategic significance	1.15	20+	0.920	High	0.18	0.01		
Openly registered land - Rubens/Ephemeral	0.25	Low	2	Poor	1	Low	Dispersed habitat	1	Area comparison not in local context on local scale	Low Strategic significance	1	1	0.905	Low	1	0.08		
Grassland - Lowland calcareous grassland	0	High	4	Poor	1	High	Highly connected habitat	1.15	Within area formerly identified in local context	High Strategic significance	1.15	20	0.700	High	0.18	0.00		
Urban - Developed land, mixed surface	34.41	V Low	0	N/A - Other	0	Low	Dispersed habitat	1	Area comparison not in local context on local scale	Low Strategic significance	1	0	1.000	Low	1	0.00		
Grassland - Lowland calcareous grassland	2.06	High	4	Moderate	3	High	Highly connected habitat	1.15	Within area formerly identified in local context	High Strategic significance	1.15	20	0.920	High	0.18	0.00		
Heathland and shrub - Mixed scrub	0.11	Medium	4	Moderate	2	Low	Dispersed habitat	1	Location ecologically desirable but not ecologically strategic	Medium Strategic significance	1.1	2	0.900	Low	1	0.08		
Grassland - Other neutral grassland	1.08	Medium	4	Moderate	2	Low	Dispersed habitat	1	Location ecologically desirable but not ecologically strategic	Medium Strategic significance	1.1	10	0.700	Low	1	0.08		
Openly registered land - Other mixed scrub and trees	1.4	Medium	4	Moderate	2	Low	Dispersed habitat	1	Within area formerly identified in local context	High Strategic significance	1.15	10	0.700	Medium	0.07	0.12		
Woodland and forest - Lowland mixed deciduous woodland	1.720	High	4	Moderate	2	Low	Dispersed habitat	1	Within area formerly identified in local context	High Strategic significance	1.15	20+	0.920	High	0.18	0.18		
Grassland - Lowland calcareous grassland	0.11	High	4	Moderate	2	High	Highly connected habitat	1.15	Within area formerly identified in local context	High Strategic significance	1.15	20	0.920	High	0.18	0.01		
Grassland - Other neutral grassland	0.16	Medium	4	Moderate	2	Low	Dispersed habitat	1	Location ecologically desirable but not ecologically strategic	Medium Strategic significance	1.1	10	0.700	Low	1	0.08		
Woodland and forest - Lowland mixed deciduous woodland	0.09	High	4	Moderate	2	Low	Dispersed habitat	1	Within area formerly identified in local context	High Strategic significance	1.15	20+	0.920	High	0.18	0.00		
Woodland and forest - Lowland mixed deciduous woodland	0.17	High	4	Moderate	2	High	Highly connected habitat	1.15	Within area formerly identified in local context	High Strategic significance	1.15	20+	0.920	High	0.18	0.01		

A-3 Site Habitat Enhancement

Continental / Open-Crested	Continental / Open-Road
Main Name	Reference Code

Baseline Unit	Baseline habitat		Post development post construction habitat										Comments		
	Baseline habitat	Proposed habitat (Pre-populated but can be overridden)	Change in distribution and condition	Disturbance design	Condition change	Area (hectares)	Distribution	Condition	Ecological significance	Strategic significance	Prepared condition	Difficulty of mitigation	Value to target condition/years	Value to offset	Assessor comments
15	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	0.06	High	Moderate	High	Within area formerly identified in local planning	20	High	0.10		
16	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	0.14	High	Moderate	High	Within area formerly identified in local planning	20	High	0.17		
17	Grassland - Modified Grassland	Grassland - Other neutral grassland	Low - Medium	Lower Disturbance Habitat - Grassland	Lower	0.76	Medium	Moderate	Low	Location strategically identified in local planning	10	Low	0.26		
18	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	1.71	High	Moderate	High	Within area formerly identified in local planning	20	High	0.14		
19	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	1.23	High	Moderate	High	Within area formerly identified in local planning	20	High	0.26		
20	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	1.17	High	Moderate	High	Within area formerly identified in local planning	20	High	0.16		
21	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	1.7	High	Moderate	High	Within area formerly identified in local planning	20	High	0.17		
22	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	1.29	High	Moderate	High	Within area formerly identified in local planning	20	High	0.17		
23	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	0.87	High	Moderate	High	Within area formerly identified in local planning	20	High	0.05		
24	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	0.88	High	Moderate	High	Within area formerly identified in local planning	20	High	0.05		
25	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	0.22	High	Moderate	High	Within area formerly identified in local planning	20	High	0.04		
26	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	0.22	High	Moderate	High	Within area formerly identified in local planning	20	High	0.04		
27	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	0.23	High	Moderate	High	Within area formerly identified in local planning	20	High	0.04		
28	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	0.23	High	Moderate	High	Within area formerly identified in local planning	20	High	0.04		
29	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	1.13	High	Moderate	High	Within area formerly identified in local planning	20	High	0.41		
30	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	0.69	High	Moderate	High	Within area formerly identified in local planning	20	High	0.13		
31	Grassland - Modified Grassland	Grassland - Lowland calcareous grassland	Low - High	Lower Disturbance Habitat - Grassland	Lower	0.22	High	Moderate	High	Within area formerly identified in local planning	20	High	0.04		



Site Mitigation

B-1 Site Hedge Baseline

		Site Mitigation			Hedge Baseline			Mitigation			Hedge Baseline			Mitigation			Hedge Baseline			Mitigation		
Site ID	Species	Population	Location	Season	Population	Location	Season	Population	Location	Season	Population	Location	Season	Population	Location	Season	Population	Location	Season	Population	Location	Season
1	Blue Jay	2000	Forest	Spring	2000	Forest	Spring	2000	Forest	Spring	2000	Forest	Spring	2000	Forest	Spring	2000	Forest	Spring	2000	Forest	Spring
2	Blue Jay	2000	Forest	Spring	2000	Forest	Spring	2000	Forest	Spring	2000	Forest	Spring	2000	Forest	Spring	2000	Forest	Spring	2000	Forest	Spring
...

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All area habitats

Area habitat groups

Multipliers

Temporal multipliers

Enhancement temporal
multipliers

Hedgerow data

River data

Condition data

UKHab/Phase 1
translation