

# The Biodiversity Metric 3.1 - Calculation Tool

## Start page

### Project details

Planning authority:	North Lincolnshire
Project name:	Barrow Road, Barton-upon-Humber
Applicant:	Strata
Application type:	
Planning application reference:	
Assessor:	Mitchel Greenhalgh
Reviewer:	
Metric version:	3.1
Assessment date:	09/02/2023
Planning authority reviewer:	

Instructions

Main menu

Results

View all

Reset view

### Cell style conventions

	Enter data
	Automatic lookup
	Result

### On-site baseline map

Insert



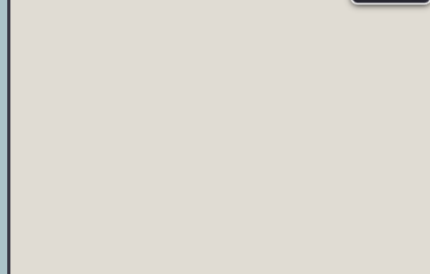
### On-site post intervention map

Insert



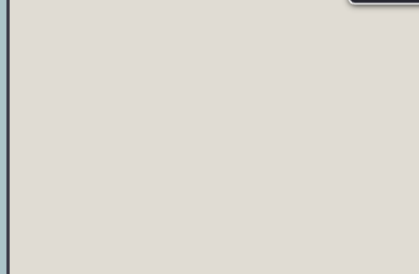
### Off-site baseline map

Insert



### Off-site post intervention map

Insert



# The Biodiversity Metric 3.1 - Calculation Tool Instructions

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Natural England Joint Publication JP039

## Biodiversity Metric 3.1

Auditing and accounting for biodiversity

### Calculation Tool: Short Guide

First published 21st April 2022

[www.gov.uk/natural-england](http://www.gov.uk/natural-england)



# The Biodiversity Metric 3.1 - Calculation Tool

## Main menu

**Key**

-  Area habitats
-  Hedgerows and lines of trees
-  Rivers and streams

- Start page
- Instructions
- Technical data
- Results

Urban tree helper						
Tree size	Number of trees and area (ha) for each condition state					
	Poor	Area	Moderate	Area	Good	Area
Small		0.0000	84	0.3418		0.0000
Medium		0.0000		0.0000		0.0000
Large		0.0000		0.0000	20	1.5283
<b>Total</b>	<b>0</b>	<b>0.0000</b>	<b>84</b>	<b>0.3418</b>	<b>20</b>	<b>1.5283</b>

Start here




1

2







3

4




**On-site baseline**

- A-1 On-site habitat baseline 
- B-1 On-site hedge baseline 
- C-1 On-site river baseline 







**On-site post development**

- A-2 Habitat creation 
- A-3 Habitat enhancement 
- B-2 Hedgerow creation 
- B-3 Hedgerow enhancement 
- C-2 River creation 
- C-3 River enhancement 

**Off-site baseline**

- D-1 Off-site habitat baseline 
- E-1 Off-site hedge baseline 
- F-1 Off-site river baseline 

**Off-site post development**

- D-2 Off-site habitat creation 
- D-3 Off-site habitat enhancement 
- E-2 Off-site hedge creation 
- E-3 Off-site hedge enhancement 
- F-2 Off-site river creation 
- F-3 Off-site river enhancement 

## The Biodiversity Metric 3.1 - Calculation Tool Results

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page

Headline results

Detailed results

Habitat trading  
summary

Barrow Road, Barton-upon-Humber  
 Headline Results

Return to

On-site baseline	<i>Habitat units</i>	12.39
	<i>Hedgerow units</i>	1.55
	<i>River units</i>	0.00
On-site post-intervention <small>(Including habitat retention, creation &amp; enhancement)</small>	<i>Habitat units</i>	8.44
	<i>Hedgerow units</i>	1.69
	<i>River units</i>	0.00
On-site net % change <small>(Including habitat retention, creation &amp; enhancement)</small>	<i>Habitat units</i>	-31.83%
	<i>Hedgerow units</i>	9.27%
	<i>River units</i>	0.00%
Off-site baseline	<i>Habitat units</i>	0.00
	<i>Hedgerow units</i>	0.00
	<i>River units</i>	0.00
Off-site post-intervention <small>(Including habitat retention, creation &amp; enhancement)</small>	<i>Habitat units</i>	0.00
	<i>Hedgerow units</i>	0.00
	<i>River units</i>	0.00
Total net unit change <small>(including all on-site &amp; off-site habitat retention, creation &amp; enhancement)</small>	<i>Habitat units</i>	-3.94
	<i>Hedgerow units</i>	0.14
	<i>River units</i>	0.00
Total on-site net % change plus off-site surplus <small>(including all on-site &amp; off-site habitat retention, creation &amp; enhancement)</small>	<i>Habitat units</i>	-31.83%
	<i>Hedgerow units</i>	9.27%
	<i>River units</i>	0.00%
Trading rules Satisfied?	No - Check Trading Summary ▲	

**Barrow Road, Barton-upon-Humber  
A-1 Site Habitat Baseline**

Condense / Show Columns

Condense / Show Rows

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Ref	Habitats and areas		Area (hectares)	Distinctiveness	Condition	Strategic significance	Suggested action to address habitat losses	Ecological baseline
	Broad Habitat	Habitat Type						
1	Cropland	Cereals crops	5.6755	Low	Condition Assessment N/A	Area/compensation not in local strategy/ no local strategy	Same distinctiveness or better habitat required ≥	11.35
2	Grassland	Modified grassland	0.2908	Low	Poor	Area/compensation not in local strategy/ no local strategy	Same distinctiveness or better habitat required ≥	0.58
3	Sparsely vegetated land	Ruderal/Ephemeral	0.0073	Low	Poor	Area/compensation not in local strategy/ no local strategy	Same distinctiveness or better habitat required ≥	0.05
4	Grassland	Modified grassland	0.1993	Low	Poor	Area/compensation not in local strategy/ no local strategy	Same distinctiveness or better habitat required ≥	0.40
5	Urban	Developed land, sealed surface	0.3684	V.Low	N/A - Other	Area/compensation not in local strategy/ no local strategy	Compensation Not Required	0.00
6								
7								
8								
9								
		<b>Total habitat areas</b>	<b>6.55</b>					<b>18.39</b>

Retention category biodiversity value						Bespoke compensation agreed for unacceptible losses	Comments	
Area retained	Area enhanced	Baseline units retained	Baseline units enhanced	Area habitat lost	Units lost		Assessor comments	Reviewer comments
0		0.00	0.00	6.68	11.35			
0		0.00	0.00	0.29	0.58			
0		0.00	0.00	0.03	0.05			
0.1791		0.36	0.00	0.02	0.04			
0.3146		0.00	0.00	0.05	0.00			
<b>0.49</b>	<b>0.00</b>	<b>0.36</b>	<b>0.00</b>	<b>6.07</b>	<b>18.03</b>			

**Total area lost (excluding area of Urban trees and Green walls) 6.07**



B-1 Site Hedge Baseline

Condense / Show Columns

Condense / Show Rows

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Instructions

Baseline ref	UK Habitats - existing habitats			Habitat distinctiveness		Habitat condition		Strategic significance			Suggested action to address habitat losses	Ecological health of hedgerow mile	Retention category biodiversity value						Comments	
	Hedge number	Hedgerow type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier			Length retained	Length enhanced	Units retained	Units enhanced	Length lost	Units lost	Assessor comments	Reviewer comments
1		Native Hedgerow	0.774	Low	2	Poor	1	Area/compensations not in local strategy no local strategy	Low Strategic Significance	1	Same distinctiveness band or better	1.55	0.673		1.35	0.00	0.10	0.20		
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10			0.77									1.55	0.67	0.00	1.35	0.00	0.10	0.20		





<a href="#">Return to start</a>		<b>Condition</b>						
<b>Habitat Description</b>	Good	Fairly Good	Moderate	Fairly Poor	Poor	Condition Assessment N/A	N/A - Other	
Cropland - Arable field margins cultivated annually	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Cropland - Arable field margins crone bird mix	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Cropland - Arable field margins pollen & nectar	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Cropland - Arable field margins tussocky	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Cropland - Cereal crops	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Cropland - Cereal crops winter stubble	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Cropland - Horticulture	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Cropland - Intensive orchards	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Cropland - Non-cereal crops	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Cropland - Temporary grass and clover leys	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Grassland - Traditional orchards	3	2.5	2	1.5	1	Not Possible	Not Possible	
Grassland - Bracken	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Grassland - Floodplain Wetland Mosaic (FCFM)	3	2.5	2	1.5	1	Not Possible	Not Possible	
Grassland - Lowland calcareous grassland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Grassland - Lowland dry acid grassland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Grassland - Lowland meadows	3	2.5	2	1.5	1	Not Possible	Not Possible	
Grassland - Modified grassland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Grassland - Other lowland acid grassland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Grassland - Other neutral grassland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Grassland - Tall herb communities (H6430)	3	2.5	2	1.5	1	Not Possible	Not Possible	
Grassland - Upland acid grassland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Grassland - Upland calcareous grassland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Grassland - Upland hay meadows	3	2.5	2	1.5	1	Not Possible	Not Possible	
Heathland and shrub - Blackthorn scrub	3	2.5	2	1.5	1	Not Possible	Not Possible	
Heathland and shrub - Bramble scrub	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Heathland and shrub - Gorse scrub	3	2.5	2	1.5	1	Not Possible	Not Possible	
Heathland and shrub - Hawthorn scrub	3	2.5	2	1.5	1	Not Possible	Not Possible	
Heathland and shrub - Hazel scrub	3	2.5	2	1.5	1	Not Possible	Not Possible	
Heathland and shrub - Lowland Heathland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Heathland and shrub - Mixed scrub	3	2.5	2	1.5	1	Not Possible	Not Possible	
Heathland and shrub - Mountain heaths and willow scrub	3	2.5	2	1.5	1	Not Possible	Not Possible	
Heathland and shrub - Rhododendron scrub	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Heathland and shrub - Sea buckthorn scrub (Annex 1)	3	2.5	2	1.5	1	Not Possible	Not Possible	
Heathland and shrub - Sea buckthorn scrub (other)	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Heathland and shrub - Upland Heathland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Lakes - Aquifer fed naturally fluctuating water bodies	3	2.5	2	1.5	1	Not Possible	Not Possible	
Lakes - High alkalinity lakes	3	2.5	2	1.5	1	Not Possible	Not Possible	
Lakes - Low alkalinity lakes	3	2.5	2	1.5	1	Not Possible	Not Possible	
Lakes - Merit Lakes	3	2.5	2	1.5	1	Not Possible	Not Possible	
Lakes - Moderate alkalinity lakes	3	2.5	2	1.5	1	Not Possible	Not Possible	
Lakes - Peat Lakes	3	2.5	2	1.5	1	Not Possible	Not Possible	
Lakes - Ponds (Priority Habitat)	3	2.5	2	1.5	1	Not Possible	Not Possible	
Lakes - Ponds (Non-Priority Habitat)	3	2.5	2	1.5	1	Not Possible	Not Possible	
Lakes - Reservoirs	3	2.5	2	1.5	1	Not Possible	Not Possible	
Lakes - Temporary lakes, ponds and pools	3	2.5	2	1.5	1	Not Possible	Not Possible	
Sparsely vegetated land - Callaminarian grasslands	3	2.5	2	1.5	1	Not Possible	Not Possible	
Sparsely vegetated land - Coastal sand dunes	3	2.5	2	1.5	1	Not Possible	Not Possible	
Sparsely vegetated land - Coastal vegetated dingle	3	2.5	2	1.5	1	Not Possible	Not Possible	
Sparsely vegetated land - Rubus/Euphrasia	3	2.5	2	1.5	1	Not Possible	Not Possible	
Sparsely vegetated land - Inland rock outcrop and scree habitats	3	2.5	2	1.5	1	Not Possible	Not Possible	
Sparsely vegetated land - Limestone pavement	3	2.5	2	1.5	1	Not Possible	Not Possible	
Sparsely vegetated land - Maritime cliff and slopes	3	2.5	2	1.5	1	Not Possible	Not Possible	
Sparsely vegetated land - Other inland rock and scree	3	2.5	2	1.5	1	Not Possible	Not Possible	
Urban - Aliments	3	2.5	2	1.5	1	Not Possible	Not Possible	
Lakes - Ornamental lake or pond	3	2.5	2	1.5	1	Not Possible	Not Possible	
Urban - Artificial unvegetated, unsealed surface	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	0	Not Possible	
Urban - Biowale	3	2.5	2	1.5	1	Not Possible	Not Possible	
Urban - Intensive green roof	3	2.5	2	1.5	1	Not Possible	Not Possible	
Urban - Built linear features	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Urban - Cemeteries and churchyards	3	2.5	2	1.5	1	Not Possible	Not Possible	
Urban - Developed land: sealed surface	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	0	Not Possible	
Urban - Other green roof	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Urban - Facade-bound green wall	3	2.5	2	1.5	1	Not Possible	Not Possible	
Urban - Ground based green wall	3	2.5	2	1.5	1	Not Possible	Not Possible	
Urban - Ground level planters	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Urban - Biodiverse green roof	3	2.5	2	1.5	1	Not Possible	Not Possible	
Urban - Introduced shrub	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Urban - Open Mosaic Habitats on Previously Developed Land	3	2.5	2	1.5	1	Not Possible	Not Possible	
Urban - Rain garden	3	2.5	2	1.5	1	Not Possible	Not Possible	
Urban - Actively worked sand pit quarry or open cast mine	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Urban - Urban Tree	3	2.5	2	1.5	1	Not Possible	Not Possible	
Urban - Sustainable urban drainage feature	3	2.5	2	1.5	1	Not Possible	Not Possible	
Urban - Un-vegetated garden	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	0	Not Possible	
Urban - Vacant/derelict land/ bareground	3	2.5	2	1.5	1	Not Possible	Not Possible	
Urban - Vegetated garden	Not Possible	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Wetland - Blanket bog	3	2.5	2	1.5	1	Not Possible	Not Possible	
Wetland - Depressions on Peat substrates (H7150)	3	2.5	2	1.5	1	Not Possible	Not Possible	
Wetland - Fens (upland and lowland)	3	2.5	2	1.5	1	Not Possible	Not Possible	
Wetland - Lowland raised bog	3	2.5	2	1.5	1	Not Possible	Not Possible	
Wetland - Oceanic Valley Mire 1 (D2.1)	3	2.5	2	1.5	1	Not Possible	Not Possible	
Wetland - Purple moor grass and rush pastures	3	2.5	2	1.5	1	Not Possible	Not Possible	
Wetland - Reedbeds	3	2.5	2	1.5	1	Not Possible	Not Possible	
Wetland - Transition mires and quaking bogs (H7140)	3	2.5	2	1.5	1	Not Possible	Not Possible	
Woodland and forest - Felled	3	Not Possible	Not Possible	Not Possible	Not Possible	1	Not Possible	
Woodland and forest - Lowland beech and yew woodland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Woodland and forest - Lowland mixed deciduous woodland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Woodland and forest - Native pine woodlands	3	2.5	2	1.5	1	Not Possible	Not Possible	
Woodland and forest - Other coniferous woodland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Woodland and forest - Other Scots Pine woodland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Woodland and forest - Other woodland: broadleaved	3	2.5	2	1.5	1	Not Possible	Not Possible	
Woodland and forest - Other woodland: mixed	3	2.5	2	1.5	1	Not Possible	Not Possible	
Woodland and forest - Upland birchwoods	3	2.5	2	1.5	1	Not Possible	Not Possible	
Woodland and forest - Upland mixed ashwoods	3	2.5	2	1.5	1	Not Possible	Not Possible	
Woodland and forest - Upland oakwood	3	2.5	2	1.5	1	Not Possible	Not Possible	
Woodland and forest - Wet woodland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Woodland and forest - Wood-pasture and parkland	3	2.5	2	1.5	1	Not Possible	Not Possible	
Coastal lagoons - Coastal lagoons	3	2.5	2	1.5	1	Not Possible	Not Possible	
Rocky shore - High energy littoral rock	3	2.5	2	1.5	1	Not Possible	Not Possible	
Rocky shore - High energy littoral rock - on peat, clay or chalk	3	2.5	2	1.5	1	Not Possible	Not Possible	
Rocky shore - Moderate energy littoral rock	3	2.5	2	1.5	1	Not Possible	Not Possible	
Rocky shore - Moderate energy littoral rock - on peat, clay or chalk	3	2.5	2	1.5	1	Not Possible	Not Possible	
Rocky shore - Low energy littoral rock	3	2.5	2	1.5	1	Not Possible	Not Possible	
Rocky shore - Low energy littoral rock - on peat, clay or chalk	3	2.5	2	1.5	1	Not Possible	Not Possible	
Rocky shore - Features of littoral rock	3	2.5	2	1.5	1	Not Possible	Not Possible	
Rocky shore - Features of littoral rock - on peat, clay or chalk	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Littoral coarse sediment	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Littoral mud	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Littoral mixed sediments	3	2.5	2	1.5	1	Not Possible	Not Possible	
Coastal saltmarsh - Saltmarshes and saline reedbeds	3	2.5	2	1.5	1	Not Possible	Not Possible	
Coastal saltmarsh - Artificial saltmarshes and saline reedbeds	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Littoral seagrass	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Littoral seagrass on peat, clay or chalk	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Littoral biogenic reefs - <i>Muscella</i>	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Littoral biogenic reefs - <i>Sibellaria</i>	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Features of littoral sediment	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Artificial littoral coarse sediment	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Artificial littoral mud	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Artificial littoral sand	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Artificial littoral muddy sand	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Artificial littoral mixed sediments	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Artificial littoral seagrass	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Artificial littoral biogenic reefs	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Littoral sand	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal sediment - Littoral muddy sand	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal Hard Structures - Artificial hard structures	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal Hard Structures - Artificial features of hard structures	3	2.5	2	1.5	1	Not Possible	Not Possible	
Intertidal Hard Structures - Artificial hard structures with Integrated Greening of Grey Infrastructure (IGI)	3	2.5	2	1.5	1	Not Possible	Not Possible	



# The Biodiversity Metric 3.0 - Calculation Tool

## Technical Data

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