

The Biodiversity Metric 3.1 - Calculation Tool

Start page

Project details

Planning authority:	
Project name:	
Applicant:	
Application type:	
Planning application reference:	
Assessor:	
Reviewer:	
Metric version:	
Assessment date:	
Planning authority reviewer:	

Instructions

Main menu

Results

Cell style conventions

	Enter data
	Automatic lookup
	Result

View all

Reset view

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

Start page

Main menu

Double click the front page below to open the file

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



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	8	0.0326		0.0000		0.0000
Medium		0.0000	41	1.5016	71	2.6004
Large		0.0000		0.0000		0.0000
Total	8	0.0326	41	1.5016	71	2.6004

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

Return to start
page

Headline results

Detailed results

Habitat trading
summary

Headline Results

[Return to results menu](#)

On-site baseline	<i>Habitat units</i>	19.61
	<i>Hedgerow units</i>	0.08
	<i>River units</i>	0.00
On-site post-intervention <small>(Including habitat retention, creation & enhancement)</small>	<i>Habitat units</i>	26.05
	<i>Hedgerow units</i>	0.09
	<i>River units</i>	0.00
On-site net % change <small>(Including habitat retention, creation & enhancement)</small>	<i>Habitat units</i>	32.84%
	<i>Hedgerow units</i>	17.38%
	<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 & 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 & off-site habitat retention, creation & enhancement)</small>	<i>Habitat units</i>	6.44
	<i>Hedgerow units</i>	0.01
	<i>River units</i>	0.00
Total on-site net % change plus off-site surplus <small>(including all on-site & off-site habitat retention, creation & enhancement)</small>	<i>Habitat units</i>	32.84%
	<i>Hedgerow units</i>	17.38%
	<i>River units</i>	0.00%
Trading rules Satisfied?	Yes ✓	

Distilled Details

Summary Figure

Net project biodiversity gain	184
Net project biodiversity loss	0
Total project biodiversity % change	+100%

Combined habitat gain/loss/loss/loss/loss/loss

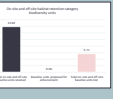
Zone habitats

All sites across the project zone

Site group	Zone	Post development (all sites)	100% change

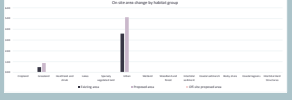
Combined area lost by disturbance total

Change	Area lost (sqm)	Area lost (ha)
Loss	1,840,000	18.4
Gain	0	0
Net	1,840,000	18.4



All sites across the project zone

Site group	Zone	Post development (all sites)	100% change



Combined area lost by disturbance total

Change	Area lost (sqm)	Area lost (ha)
Loss	1,840,000	18.4
Gain	0	0
Net	1,840,000	18.4



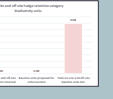
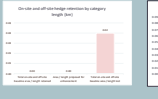
Woodlands and Trees of Value

All sites across the project zone

Site group	Zone	Post development (all sites)	100% change

Combined length lost by disturbance total

Change	Length lost (m)	Length lost (ha)
Loss	1,840,000	18.4
Gain	0	0
Net	1,840,000	18.4



All sites across the project zone

Site group	Zone	Post development (all sites)	100% change



Combined area lost by disturbance total

Change	Area lost (sqm)	Area lost (ha)
Loss	1,840,000	18.4
Gain	0	0
Net	1,840,000	18.4



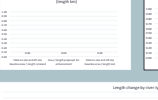
Streams and Wetlands

All sites across the project zone

Site type	Zone	Post development (all sites)	100% change

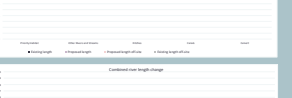
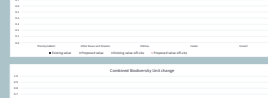
Combined length lost by disturbance total

Change	Length lost (m)	Length lost (ha)
Loss	1,840,000	18.4
Gain	0	0
Net	1,840,000	18.4



All sites across the project zone

Site type	Zone	Post development (all sites)	100% change



Combined area lost by disturbance total

Change	Area lost (sqm)	Area lost (ha)
Loss	1,840,000	18.4
Gain	0	0
Net	1,840,000	18.4



A-1 Site Habitat Baseline

Condense / Show Columns Condense / Show Rows

Main Menu Instructions

Ref	Habitat and area			Disturbance		Condition		Strategic significance			Recommended action to address habitat losses	Ecological baseline	
	Broad Habitat	Habitat Type	Area (hectares)	Disturbance	Score	Condition	Score	Strategic significance	Strategic significance	Strategic Significance multiplier		Total habitat units	
1	Urban	Developed land: sealed surface	1.318	V.Low	0	N/A - Other	0	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Compensation Not Required	0.00	
2	Grassland	Modified grassland	0.38	Low	2	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same Disturbance or better - habitat replaced 2	0.76	
3	Urban	Introduced shrub	0.049	Low	2	Condition Assessment 2/3	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same Disturbance or better - habitat replaced 2	0.10	
4	Urban	Urban Tree	0.22	Medium	4	Poor	1	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same Disturbance or a higher level of disturbance - habitat replaced 2	0.88	Small trees
5	Urban	Urban Tree	2.014	Medium	4	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same Disturbance or a higher level of disturbance - habitat replaced 2	16.11	Medium trees
6	Grassland	Lowland dry soil grassland	0.11	V.High	6	Moderate	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same Disturbance or a higher level of disturbance - habitat replaced 2	1.76	
7													
8													
9													
10													
		Total habitat area	4.09									18.61	

Retention category biodiversity value						Biodiversity compensation agreed for macrophyte losses	Comments	
Area retained	Area enhanced	Biodiversity units retained	Biodiversity units enhanced	Area habitat lost	Units lost		Assessor comments	Reviewer comments
0	0.00	0.00	1.32	0.00	0.00			
0	0.00	0.00	0.38	0.76	0.76			
0	0.00	0.00	0.06	0.10	0.10			
0.032	0.13	0.00	0.19	0.75	0.75			
1.502	12.02	0.00	0.51	4.10	4.10			
0.11	1.76	0.00	0.00	0.00	0.00			
1.84	0.00	12.00	0.00	8.48	8.91			

Total area lost (excluding area of Urban trees and Green walls) 1.75

A-2 Site Habitat Creation

Collapse / Show Columns

Collapse / Show Rows

Main Menu

Instructions

Post development post intervention tables

Broad Habitat	Proposed habitat	Area (hectares)	Substratum		Condition		Strategic significance				Temporal multiplier			Difficulty multipliers				Habitat units delivered	Comments			
			Disturbance	Score	Condition	Score	Strategic significance	Strategic significance	Strategic position multiplier	Standard time to target condition/years	Habitat created in advance/years	Delay in starting habitat creation/years	Standard or adjusted time to target condition	Final time to target condition/years	Final time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier		Final difficulty of creation	Difficulty multiplier applied	Assessor comments	Reviewer comments
Urban	Developed land sealed surface	0.227	Y.Low	0	NA - Other	0	Area/complementation not in local strategy/ no local strategy	Low Strategic Significance	1	0	0	0	Standard time to target condition applied	0	1.000	Low	Standard difficulty applied	Medium	0.67	0.00		
Urban	Bioretention green roof	0.269	Medium	4	Medium	2	Area/complementation not in local strategy/ no local strategy	Low Strategic Significance	1	5	0	0	Standard time to target condition applied	5	0.837	Medium	Standard difficulty applied	Medium	0.67	1.16		
Greenland	Modified grassland	0.429	Low	2	Poor	1	Area/complementation not in local strategy/ no local strategy	Low Strategic Significance	1	1	0	0	Standard time to target condition applied	1	0.966	Low	Standard difficulty applied	Low	1	0.83		
Greenland	Other natural grassland	0.205	Medium	4	Medium	2	Area/complementation not in local strategy/ no local strategy	Low Strategic Significance	1	2	0	0	Standard time to target condition applied	2	0.827	Low	Standard difficulty applied	Low	1	0.20		
Urban	Ground based green wall	0.002	Low	2	Medium	2	Area/complementation not in local strategy/ no local strategy	Low Strategic Significance	1	3	0	0	Standard time to target condition applied	3	0.899	Medium	Standard difficulty applied	Medium	0.67	0.00		
Urban	Urban Tree	2.0	Medium	4	Medium	2	Area/complementation not in local strategy/ no local strategy	Low Strategic Significance	1	27	0	0	Standard time to target condition applied	27	0.262	Low	Standard difficulty applied	Low	1	1.92		
Total habitat area		4.88																				
Site Area (including area of Urban trees and Green walls)		1.74																				
Total Units																			18.18			

B-1 Site Hedge Baseline

Condense / Show Columns

Condense / Show Rows

Main Menu

Instructions

UK Habitats - existing habitats		Habitat distinctiveness		Habitat condition		Strategic significance			Suggested action to address habitat losses	Ecological baseline Total hedge row units	Botanical category biodiversity value						Comments		
Baseline ref	Hedge number	Hedge row type	Length (m)	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
1	T1	Line of Trees	0.02	Low	2	Medium	2	Area/compensation not in local strategy/ no local strategy	Low Strategic Significance	1	Same distinctiveness based on border	0	0	0.00	0.00	0.02	0.01		
2																			
3																			
4																			
5																			
6			0.02																
											0.00	0.00	0.00	0.00	0.02	0.01			

B-2 Site Hedge Creation	
Condense / Show Columns	Condense / Show Rows
Main Menu	Instructions

Baseline ref	New hedge number	Proposed habitats		Habitat distinctiveness		Habitat condition		Strategic significance			Temporal multiplier				Difficulty risk multipliers				Hedge value delivered	Comments			
		Habitat type	Length (km)	Distinctiveness	Score	Condition	Score	Strategic significance	Strategic significance	Strategic priority multiplier	Standard Time to target condition/years	Habitat created in advance/years	Delay in starting habitat creation/years	Standard or adjusted time to target condition	Final time to target condition/years	Final time to target multiplier	Standard difficulty of creation	Applied difficulty multiplier		Final difficulty of creation	Difficulty multiplier applied	Assessor comments	Reviewer comments
1	H1	Native Species Rich Hedgeform	0.012	Medium	4	Good	3	Area of preservation not in local strategy no local plan area	Low Strategic Significance	1	12	0	0	Standard time to target condition applied	12	0.012	Low	Standard difficulty applied	Low	1	0.00		
2																							
3																							
4																							
5																							
			0.01																				0.00