Site name: to be copied from the BIA sheet
Planning reference number:
to be copied from the BIA sheet

| Existing | Habitat Area (ha) | Hedgerow impact (km) | Connectivity Features (km) | Habitat Biodiversity Value | Hedgerow Biodiversity Value | Connectivity Biodiversity Value |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Onsite Biodiversity Impact | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Indirect Biodiversity Impact | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total habitat / linear features impacted | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Retained / Created / Enhanced |  |  |  |  |  |  |
| Onsite biodiversity retained | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Onsite Creation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Biodiversity retained and enhanced | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total biodiversity retained/enhanced | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Trading Down | n/a | n/a | n/a | 0.00 | 0.00 | 0.00 |
| Biodiversity Impact | n/a | n/a | n/a | 0.00 | 0.00 | 0.00 |


| Habitat Impacts | Loss | Gain | Impact | \%age losses | Compensatory Unit loss | Indicative Offset (ha) |  | WCC Offset units | WCC Indicative Offset Contribution |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Woodland Habitat | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| Grassland Habitat | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| Wetland Habitat | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| Other Habitat (incl. Built Env) | 0.00 | 0.00 | 0.00 |  |  |  |  |  |  |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  | 0.00 |  | £0 |
|  |  | Trading down | 0.00 |  |  |  |  |  |  |
|  |  |  | 0.00 |  |  |  |  |  |  |


| Hedgerow Impacts | Loss | Gain | Trading down | Impact | Unit loss | Indicative Offset (km) | WCC Offset units | WCC Offset Contribution |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hedgerow | 0.00 |  |  |  |  |  |  |  |

SUMMARY
This development will result in 0 Habitat Biodiversity Units loss; 0 Hedgerow Units loss and 0 Connectivity Biodivesity Units loss

## ECOSYSTEM SERVICES ANALYSIS



For any questions with regard to biodiversity impact and this development please contact Warwickshire County Council Ecological Services: email: planningecology@warwickshire.gov.uk or telephone 01926418060

| KEY |  |
| :--- | :--- |
|  | No action required |
|  | Enter valu |
|  | Orop-down menu |
|  | Calculation |
|  | Automatic lookup |
|  | Automatic Condition setting |


| Local Planning Authority: |  |
| :--- | :--- |
| Site name: |  |
| Planning application reference number: |  |
| Assessor: |  |
| Date: |  |

Please fill in both tables
Please do not edit the formulae or structure To condense the form for display hide vacant rows, d them
If additional rows are required, or to provide feedbact calculator please contact WCC Ecological Services C 418060






## Warwickshire, Coventry \& Solihull - Hedge Impact As

| KEY |  |
| :--- | :--- |
|  | No action required |
|  | Enter value |
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|  | Calculation |
|  | Automatic lookup |
|  | Result |



## Indirect Negative Impacts

| Before/after <br> impact |  |  |
| ---: | ---: | :---: |
|  | Before |  |
| K |  |  |
|  | After |  |
|  | Before |  |
|  | After |  |
|  | Before |  |
|  | After |  |
|  | Before |  |
|  | After |  |
|  | Before |  |


| T. Note | code | Phase 1 habitat description |  | Length (km) |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Hedgerow Creation |  | N |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  | Total | 0.00 |
|  |  | Hedgerow Enhancement |  |  |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  | Total | 0.00 |


| $\boldsymbol{K E Y}$ |  |
| :--- | :--- |
|  | No action required |
|  | Action required |
|  | Drop-down menu |
|  | Calculation |
|  | Automatic lookup |
|  | Overall Gain <br> Overall Loss |

## ssessment Calculator

This sheet calculates the impacts to hedges and lines of trees in and around the site.

These units are not transferrable as compensation for either the Habitat or Connectivity Impact Assessment scores.

| Hedgerow distinctiveness |  |  |  |  | Hedgerc |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Distinctiveness | Score | A1 | A2 | B1 | B2 |
|  | A |  |  |  |  |
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Please fill in both tables

| Please do not edit the formulae or structure |
| :--- |
| To condense the form for display hide vacant |
| rows, do not delete them |
| If additional rows are required, |
| or to provide feedback on the calculator |
| please contact WCC Ecological Services |



Time till target condition




Warwickshire Coventry and Solihull - Connectivity Impact Assessment [optional]


Connectivity Features
This sheet dives and indiciation as to whether the development will enhance
comnetivity thorugh or araund the site.
These units are not transterable as compensation for either the Habitat or
Hesogeriw mpact Assessment scores.





| Habitat trading down correction calculator |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Existing Site |  |  |  |  |  |  |  |
| Existing habitat |  | Area of habitat impact | Distinctiveness | High distinctiveness habitat loss biodiversity value | Medium-High distinctiveness habitat loss biodiversity value | Medium distinctiveness habitat loss biodiversity value | Medium-Low distinctiveness habitat loss biodiversity value |
| Direct impacts |  |  |  |  |  |  |  |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 |
| Indirect impacts |  |  |  |  |  |  |  |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | TOTAL | 0.00 |  | 0.00 | 0.00 | 0.00 | 0.00 |


| Proposed habitat creation |  | Area of habitat creation | Distinctiveness | High distinctiveness proposed biodiversity value | Medium-High distinctiveness proposed biodiversity value | Medium distinctiveness proposed biodiversity value | Medium-Low distinctiveness proposed biodiversity value |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
| Proposed habitat enhancement |  | Area | Distinctiveness | High | Medium-High | Medium | Medium-Low |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 |
|  | TOTAL | 0.00 |  | 0.00 | 0.00 | 0.00 | 0.00 |


| Trading Down Correction | High | Medium-High | Medium | Medium-Low |
| :---: | :---: | :---: | :---: | :---: |
| Value of existing habitat loss per distinctiveness | 0.00 | 0.00 | 0.00 | 0.00 |
| Value of created habitats per distinctiveness | 0.00 | 0.00 | 0.00 | 0.00 |
| Would this result in trading down habitats? | Never | No | No | No |
| If no, value each distinctiveness still requiring compensation | 0 | 0 | 0 | 0 |
| Surplus gain to be carried over to compensate loss of lower habitats (rolls over) | 0 | 0 | 0 | 0 |
| Trading down correction value | n/a | 0 | 0 | 0 |

This calculator assess whether there is any down trading in habitats value. E.g. loss of high distinctiveness habitat cannot be compensated for by surpluss medium mitigation. It ca value which enters into the primary calculator to take this into account. Such that the full level of high habitat loss compensation is required. However if additional medium gain is g value of the high loss, this surplus is still be taken into account with on site gain.

[^0]Existing Site

| Existing Hedgerow features |  | length of loss (km) | Distinctiveness |
| :---: | :---: | :---: | :---: |
| Direct impacts |  |  |  |
|  | - | 0.00 |  |
|  | - | 0.00 |  |
|  | - | 0.00 |  |
|  | - | 0.00 |  |
|  | - | 0.00 |  |
|  | - | 0.00 |  |
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|  | - | 0.00 |  |
|  | - | 0.00 |  |
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|  | - | 0.00 |  |
|  | - | 0.00 |  |
|  | - | 0.00 |  |
|  | - | 0.00 |  |
|  | - | 0.00 |  |
| Indirect impacts |  |  |  |
|  | - | - |  |
|  | - | - |  |
|  | - | - |  |
|  | - | - |  |
|  | - | - |  |
|  | TOTAL | 0.00 |  |

Proposed Site

| Proposed hedgerow creation | Length of <br> feature <br> $(\mathrm{km})$ | Distinctiveness |
| :---: | :---: | :---: |
| - | 0.00 |  |
| - | 0.00 |  |
| - | 0.00 |  |
| - | 0.00 |  |
| - | 0.00 |  |


|  | - | 0.00 |
| ---: | :---: | :--- |
|  | - | 0.00 |

Hedgerow trading down correction

| Value of existing habitat loss per distinctiveness |
| ---: |
| Value of created habitats per distinctiveness |
| Would this result in trading down habitats? |
| If no, value each distinctiveness still requiring compensation |
| Surplus gain to be carried over to compensate loss of lower habitats (rolls over) |
| Trading down correction value |

This calculator assess whether there is any down trading in Hedgerow habitats. E.g. loss of high distin the primary calculator to take this into account. Such that the full level of high habitat loss compensatic be taken into account with on site gain.

CAUTION - Destruction of each habitat of medium distinctiveness and above should be mitigated for

## g down correction calculator

| High distinctiveness Hedgerow loss biodiversity value | Medium-High distinctiveness Hedgerow loss biodiversity value | Medium distinctiveness Hedgerow loss biodiversity value | Medium-Low distinctiveness Hedgerow loss biodiversity value |
| :---: | :---: | :---: | :---: |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
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| 0.00 | 0.00 | 0.00 | 0.00 |
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| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |


| High distinctiveness <br> proposed Hedgerow <br> biodiversity value | Medium-High <br> distinctiveness <br> proposed Hedgerow <br> biodiversity value | Medium <br> distinctiveness <br> proposed Hedgerow <br> biodiversity value | Medium-Low <br> distinctiveness <br> proposed Hedgerow <br> biodiversity value |
| ---: | ---: | ---: | ---: |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |



| High | Medium-High | Medium | Medium-Low |
| :---: | :---: | :---: | :---: |
| 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 |
| Never | No | No | No |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| n/a | 0 | 0 | 0 |

ıctiveness habitat and surplus creation of medium or low habitats. It calculates a correction $\mathrm{vi}_{\mathrm{i}}$ on is required. However if additional medium gain is generated above the value of the high lo
with creation/restoration of a similar habitat. Trading up of habitat type is encouraged.

| Low distinctiveness <br> Hedgerow loss <br> biodiversity value |
| ---: |
| 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0.00 <br> 0 |


| Low distinctiveness <br> proposed Hedgerow <br> biodiversity value |
| ---: |
| 0.00 |
| 0.00 |
| 0.00 |
| 0.00 |
| 0.00 |
| 0.00 |


|  | 0.00 |
| :--- | ---: |
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|  | 0.00 |
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|  | 0.00 |
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|  | Low |
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| 0.00 |  |
| 0.00 |  |
|  | 0.00 |


| Low |
| :---: |
| 0.00 |
| 0.00 |
|  |
| 0.00 |
| $\mathrm{n} / \mathrm{a}$ |
| 0 |

alue which enters into ss, this surplus is still

| Linear trading down correction calculator |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Existing linear features |  | length of loss (km) | Distinctiveness | High distinctiveness linear loss biodiversity value | Medium-High distinctiveness linear loss biodiversity value | Medium distinctiveness linear loss biodiversity value | Medium-Low distinctiveness linear loss biodiversity value | Low distinctiveness linear loss biodiversity value |
| Direct impacts |  |  |  |  |  |  |  |  |
|  |  |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - |  |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Indirect impacts |  |  |  |  |  |  |  |  |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | - | - |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | TOTAL | 0.00 |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Site


Proposed linear creation

This calculator assess whether there is any down trading in linear habitats. E.g. loss of high distinctiveness habitat and surplus creation of medium or low habitats. It calculates a correction value which enters into the primary calculator to take this into account. Such that the full level of high habitat loss compensation is required. However if additional medium gain is generated above the value of the high loss, this surplus is still be taken into account with on site gain.

| Phase 1 Habitat Type | Phase 1 Habitat Codes | Distinctiveness |  | Difficulty of creation |  | Preset Time to Target Condition (Moderate) | Preset <br> Time to <br> Target Condition (Good) | $\begin{gathered} \text { Difficulty } \\ \text { of } \\ \text { restoration } \end{gathered}$ |  | Preset Time to Target Condition (Moderate) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Built Environment: Buildings/hardstanding | n/a | none | 0 | Low | 1 | n/a | n/a | Low | 1 | n/a |
| Built Environment: Gardens (lawn and planting) | n/a | Low | 1 | Low | 1 | n/a | n/a | Low | 1 | n/a |
| Woodland: Broad-leaved semi-natural woodland | A111 | High | 6 | n/a | - | n/a | n/a | Low | 1 | W_in_P |
| Woodland: Broad-leaved plantation | A112 | Medium | 4 | Medium | 1.5 | $32+$ years | n/a | Low | 1 | W_in_P |
| Woodland: Coniferous semi-natural woodland | A121 | Medium | 4 | n/a | - | n/a | n/a | Low | 1 | n/a |
| Woodland: Coniferous plantation | A122 | Low | 2 | Medium | 1.5 | n/a | n/a | Low | 1 | n/a |
| Woodland: Mixed semi-natural woodland | A131 | Medium | 4 | n/a | - | n/a | n/a | Low | 1 | W_in_P |
| Woodland: Mixed plantation | A132 | Low | 2 | Medium | 1.5 | 32+years | n/a | Low | 1 | W_in_P |
| Woodland: Wet woodland | n/a | High | 6 | Medium | 1.5 | $32+$ years | n/a | Medium | 1.5 | W_in_P |


| Woodland: Dense continuous scrub | A21 | Medium-Low | 3 | Low | 1 | 10 years | 15 years | Low | 1 | W_in_P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Woodland: Scattered scrub | A22 | Medium | 4 | Low | 1 | 10 years | 15 years | Low | 1 | W_in_P |
| Woodland: Scattered trees | A3 | Medium | 4 | Low | 1 | $32+$ years | n/a | Low | 1 | W_in_P |
| Woodland: Broad-leaved parkland | A31 | High | 6 | Medium | 1.5 | n/a | n/a | Low | 1 | W_in_P |
| Woodland: Coniferous parkland | A32 | Medium | 4 | Medium | 1.5 | n/a | n/a | Low | 1 | W_in_P |
| Woodland: Recently felled woodland | A4 | Low | 2 | n/a | - | n/a | n/a | n/a | - | n/a |
| Woodland: Orchard | A5 | High | 6 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |


| Grassland: Unimproved acidic grassland | B11 | High | 6 | Medium | 1.5 | n/a | n/a | Low | 1 | W_in_P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grassland: Semi-improved acidic grassland | B12 | Medium-High | 5 | Medium | 1.5 | 15 years | W_in_P | Low | 1 | W_in_P |
| Grassland: Unimproved neutral grassland | B21 | High | 6 | Medium | 1.5 | n/a | n/a | Low | 1 | W_in_P |
| Grassland: Semi-improved neutral grassland | B22 | Medium | 4 | Medium | 1.5 | 15 years | W_in_P | Low | 1 | 15 years |


| Grassland: Unimproved calcareous grassland | B31 | High | 6 | Medium | 1.5 | n/a | n/a | Low | 1 | W_in_P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grassland: Semi-improved calcareous grassland | B32 | Medium-High | 5 | Medium | 1.5 | 15 years | W_in_P | Low | 1 | 15 years |
| Grassland: Poor semi-improved grassland | B6 | Medium-Low | 3 | Medium | 1.5 | n/a | n/a | Low | 1 | n/a |
| Grassland: Improved grassland | B4 | Low | 2 | n/a | - | n/a | n/a | Low | 1 | n/a |
| Grassland: Marsh / Marshy grassland | B5 | High | 6 | High | 3 | 15 years | W_in_P | Medium | 1.5 | W_in_P |
| Grassland: Dry heath / Acidic grassland mosaic | D5 | High | 6 | Medium | 1.5 | W_in_P | W_in_P | Medium | 1.5 | W_in_P |
| Grassland: Set-aside / Arable field margins | $J 113$ | High | 6 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |


| Grassland: Amenity grassland | J12 | Low | 2 | Low | 1 | n/a | n/a | Low | 1 | n/a |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wetland: Standing water | G1 | High | 6 | Medium | 1.5 | W_in_P | W_in_P | Medium | 1.5 | W_in_P |
| Wetland: Running water | G2 | High | 6 | Medium | 1.5 | W_in_P | W_in_P | Medium | 1.5 | W_in_P |
| Wetland: Reedbed | F1 | High | 6 | low | 1 | W_in_P | W_in_P | low | 1 | W_in_P |
| Wetland: Sphagnum Bog | E11 | High | 6 | Very High | 10 | n/a | n/a | High | 3 | n/a |
| Wetland: Acid/neutral flush | E21 | High | 6 | High | 3 | W_in_P | W_in_P | Medium | 1.5 | W_in_P |
| Wetland: Basin Mire | E32 | High | 6 | High | 3 | n/a | n/a | Medium | 1.5 | n/a |


| Wetland: Swamp | F1 | High | 6 | High | 3 | W_in_P | W_in_P | Medium | 1.5 | W_in_P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wetland: Inundation vegetation | F22 | High | 6 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Other: Arable | J11 | Low | 2 | n/a | - | n/a | n/a | n/a | - | n/a |
| Other: Continuous bracken | C11 | Low | 2 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Other: Tall ruderal | C31 | Medium-Low | 3 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Other: Non-ruderal | C32 | Medium | 4 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Other: Ephemeral/short perennial | J13 | Low | 2 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Other: Allotments | J112 | Low | 2 | Low | 1 | n/a | n/a | Low | 1 | n/a |
| Other: Quarry | 121 | Low | 2 | Low | 1 | n/a | n/a | Low | 1 | n/a |
| Other: Spoil | 122 | Low | 2 | Low | 1 | n/a | n/a | Low | 1 | n/a |
| Other: Refuse tip | 124 | Low | 2 | Low | 1 | n/a | n/a | Low | 1 | n/a |
| Other: Introduced shrub | J14 | Low | 2 | Low | 1 | n/a | n/a | Low | 1 | n/a |
| Other: Bare ground | J4 | Low | 2 | Low | 1 | n/a | n/a | Low | 1 | n/a |
| Other: Vertical face (correction factor) | n/a | none | 0 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Other: Living Wall | n/a | Medium-Low | 3 | Medium | 1.5 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Other: Living roof - Extensive | n/a | Low | 2 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Other: Living roof - Semi-intensive | n/a | Medium-Low | 3 | Medium | 1.5 | W_in_P | W_in_P | Low | 1 | W_in_P |


| Other: Living roof - Intensive | n/a | Low | 2 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Other: Living roof - Brown | n/a | Medium-Low | 3 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Other: Living roof - Mosaic | n/a | Medium | 4 | Medium | 1.5 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Linear features |  |  |  |  |  |  |  |  |  |  |
| Hedges: Intact hedge | J21 | Medium | 4 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Hedges: Native species rich intact hedge | J211 | High | 6 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Hedges: Hedge with trees | J23 | Medium-High | 5 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Hedges: Native species rich hedge with trees | J231 | High | 6 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Hedges: Defunct hedge | J22 | Low | 2 | n/a | - | W_in_P | W_in_P | n/a | - | W_in_P |
| Hedges: Linear scrub | A21 | Medium | 4 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Hedges: Linear trees | A3 | Medium | 4 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Hedges: Introduced shrub | J14 | Low | 2 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Ditches: Standing water | G1 | High | 6 | Medium | 2 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Ditches: Running water | G2 | High | 6 | Medium | 2 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Ditches: Dry ditch | J26 | Low | 2 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Boundaries: Fence | J24 | None | 0 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Boundaries: Wall | J25 | Low | 2 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Boundaries: Dry stone wall | J25 | Medium | 4 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Other: Inland cliff | 11 | Medium | 4 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Other: Earth bank | J28 | Low | 2 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |
| Other: Living wall | n/a | Low | 2 | Low | 1 | W_in_P | W_in_P | Low | 1 | W_in_P |


| Habitats for creation | Habitats for restoration |
| :---: | :---: |
| Phase 1 Habitat Descriptions | Phase 1 Habitat Descriptions |
| Built Environment: Buildings/hardstanding | Woodland: Broad-leaved semi-natural woodland |
| Built Environment: Gardens (lawn and planting) | Woodland: Broad-leaved plantation |
| Woodland: Broad-leaved plantation | Woodland: Coniferous semi-natural woodland |
| Woodland: Coniferous plantation | Woodland: Coniferous plantation |
| Woodland: Mixed plantation | Woodland: Mixed semi-natural woodland |
| Woodland: Wet woodland | Woodland: Mixed plantation |
| Woodland: Dense continuous scrub | Woodland: Wet woodland |
| Woodland: Scattered scrub | Woodland: Dense continuous scrub |
| Woodland: Scattered trees | Woodland: Scattered scrub |
| Woodland: Coniferous parkland | Woodland: Scattered trees |
| Woodland: Orchard | Woodland: Broad-leaved parkland |
| Grassland: Semi-improved acidic grassland | Woodland: Coniferous parkland |
| Grassland: Semi-improved neutral grassland | Woodland: Orchard |
| Grassland: Semi-improved calcareous grassland | Grassland: Unimproved acidic grassland |
| Grassland: Marsh / Marshy grassland | Grassland: Semi-improved acidic grassland |
| Grassland: Dry heath / Acidic grassland mosaic | Grassland: Unimproved neutral grassland |
| Grassland: Set-aside / Arable field margins | Grassland: Semi-improved neutral grassland |
| Grassland: Amenity grassland | Grassland: Unimproved calcareous grassland |
| Wetland: Standing water | Grassland: Semi-improved calcareous grassland |
| Wetland: Running water | Grassland: Marsh / Marshy grassland |
| Wetland: Reedbed | Grassland: Dry heath / Acidic grassland mosaic |
| Wetland: Sphagnum Bog | Grassland: Set-aside / Arable field margins |
| Wetland: Acid/neutral flush | Wetland: Standing water |
| Wetland: Basin Mire | Wetland: Running water |


| Distinctiveness |  |
| :--- | ---: |
| High | 6 |
| Medium-High | 5 |
| Medium | 4 |
| Medium-Low | 3 |
| Low | 2 |
| none | 0 |


| Condition |  |
| :--- | ---: |
| Good | 3 |
| Moderate | 2 |
| Poor | 1 |


| Time |  |
| :--- | ---: |
| 3 years | 1.1 |
| 5 years | 1.2 |
| 10 years | 1.4 |
| 15 years | 1.7 |
| 20 years | 2 |
| 25 years | 2.4 |
| 30 years | 2.8 |
| $32+$ years | 3 |


| Difficulty |  |
| :--- | ---: |
| Very high | 10 |
| High | 3 |


| Wetland: Swamp | Wetland: Reedbed |
| :---: | :---: |
| Wetland: Inundation vegetation | Wetland: Sphagnum Bog |
| Other: Continuous bracken | Wetland: Acid/neutral flush |
| Other: Tall ruderal | Wetland: Basin Mire |
| Other: Non-ruderal | Wetland: Swamp |
| Other: Ephemeral/short perennial | Wetland: Inundation vegetation |
| Other: Allotments | Other: Continuous bracken |
| Other: Quarry | Other: Tall ruderal |
| Other: Spoil | Other: Non-ruderal |
| Other: Refuse tip | Other: Ephemeral/short perennial |
| Other: Introduced shrub | Other: Allotments |
| Other: Bare ground | Other: Bare ground |
| Other: Living Wall | Other: Living roof - Extensive |
| Other: Living roof - Extensive | Other: Living roof - Semi-intensive |
| Other: Living roof - Semi-intensive | Other: Living roof - Intensive |
| Other: Living roof - Intensive | Other: Living roof - Brown |
| Other: Living roof - Brown | Other: Living roof Mosaic |
| Other: Living roof Mosaic | Other: Living Wall |
| Linear | Linear |
| Hedges: Intact hedge | Hedges: Intact hedge |
| Hedges: Native species rich intact hedge | Hedges: Native species rich intact hedge |
| Hedges: Hedge with trees | Hedges: Hedge with trees |
| Hedges: Native species rich hedge with trees | Hedges: Native species rich hedge with trees |
| Hedges: Linear scrub | Hedges: Linear scrub |
| Hedges: Linear trees | Hedges: Linear trees |
| Hedges: Introduced shrub | Ditches: Standing water |
| Ditches: Standing water | Ditches: Running water |
| Ditches: Running water | Ditches: Dry ditch |
| Ditches: Dry ditch | Boundaries: Dry stone wall |
| Boundaries: Fence | Other: Inland cliff |
| Boundaries: Wall | Other: Earth bank |
| Boundaries: Dry stone wall | Other: Living wall |
| Other: Inland cliff |  |
| Other: Earth bank |  |
| Other: Green wall |  |



| Preset Time to Target Condition (Good) | UK Priority Habitat /Habitat of Principal Importance | LBAP Priority Habitat | NVC | Habitat Definition | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: |
| n/a | Not a priority habitat | Not a priority habitat |  |  |  |
| n/a | Not a priority habitat | Not a priority habitat |  |  |  |
| W_in_P | Lowland mixed deciduous woodland | Woodland | W8,W10, W16 | Include all stands which do not obviously originate from planting. Both ancient and more recent stands are included. Woodland where more than $30 \%$ is planted should be classified as plantation. However, mature plantations (more than about 120 years old) of locally native species where there are semi-natural woodland ground flora and shrub communities should be classified as semi-natural (NCC, 1990). See Phase 1 Survey Handbook for definition of woodland types included in semi-natural category. |  |
| W_in_P | Not a priority habitat | Not a priority habitat | Some forms of W8, W10, W16 or non NVC | Obviously planted woodland with no more than $10 \%$ of the canopy made up of conifer trees (NCC, 1990). See Phase 1 Survey Handbook for exceptions. The category includes recent stands (i.e less than about 120 years) planted with locally native trees. phase 1 handbook does not define a minimum size but the National Inventory of Woodland and Trees defines woodland as having a minimum area of 0.5 ha and a minimum width of 20 m . |  |
| n/a | Native pine woodlands (Scotland only). Yew stands are inclued in the lowland beech and yew woodland plan and upland mixed ashwood plan. | n/a | W13, W18 |  | This woodland type s not found in Warwickshire |
| n/a | Not a priority habitat | Not a priority habitat | Some forms of W10, W16 or non NVC | Obviously planted woodland with no more than $10 \%$ of the canopy made up of broadleaved trees (NCC, 1990). See Phase 1 Survey Handbook for exceptions. Typical trees species include larch (Larix spp), pine (Pinus spp) and spruce (Picea spp). |  |
| W_in_P | Lowland mixed deciduous woodland | Woodland |  | Woods that do not obviously originate from planting (see Phase 1 Survey Handbook for exceptions) with a canopy made up of between ten and ninety percent of either broadleaved and coniferous trees (NCC, 1990). |  |
| W_in_P | Not a priority habitat | Not a priority habitat |  | Obviuosly planted with 10-90\% of either broadleaved or conifer trees in the canopy (NCC, 1990). See Phase 1 Survey Handbook for exceptions. |  |
| W_in_P | Wet woodland | Woodland | W1-W7 | Wet woodlands are found on poorly drained or seasonally wet soils. They are commonly found on floodplains, alongside rivers and stream, on fens and in damper areas of other woodland types. Alder, birch and willows are usually the dominant tree species. | Wet woodland is scarce in the County. |


| W_in_P | Not a priority habitat | Not a priority habitat | W21-24 | A block of scrub is dominated by the shrub species less than five metres tall. It may have a few scattered trees but there will be no recognisable canopy. To be dense or continuous, the scrub cover must be thirty percent or more. This includes stands of bramble, dog Rose and gorse (Ulex europaeus) and also stands of mature hawthorn (Crataegus monogyna), blackthorn (Prunus spinosa) or grey willow (Salix cinerea) even if they are greater than 5 m tall. (NCC, 1990). | Scrub is often part of mosaic with other habitats. Its conservation value can be variable, and is often seen as of low value due to low botanical species diversity. However, it can be of high value in its own right as well as providing suitable habitat for some of the county's important species of invertebrates, mammals and birds. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| W_in_P | Not a priority habitat | Not a priority habitat | W21-24 | As above but scrub cover is less than thirty percent. | Scattered scrub occurs in association with other semi-natural habitats, frequently occurring as a mosaic with grassland or early uccessional communities, and often having occasional scattered trees. The presence of scattered scrub can add to a sites ecological interest. Where scrub is part of a habitat mosaic, for example with grassland, the habitat with the higher distinctiveness score should automatically be entered in the BIA. |
| W_in_P | Not a priority habitat | Not a priority habitat |  | Habiat that is neither woodland or scrub, but have trees present. Tree cover must be less than thirty percent. However, most examples of planted trees over amenity grassland should be included in this category even where tree cover exceeds $30 \%$ | The area calculation should be the whole land parcel on which the scrub/trees are planted and not just the cover the individual trees/shrubs. Where a parcel of land has more than one habitat e.g. scatterd trees on grassland, the habitat with the higher distinctiveness score should be entered. |
| W_in_P | Wood-pasture and parkland | Old parkland \& veteran trees | Range of NVC types | This category is for Wood Pasture and Parkland Priority Habitat/Habitat of Principle Importance only. Wood-pasture and parkland is not defined by any particular type(s) of vegetation, NVC types, or Phase 1 habitat types. Instead they are mosaic habitats valued for their trees, especially veteran and ancient trees, and the plants and animals that they support (LBAP). | This habitat is typical of large estates with a history of traditional management e.g. grazing by cattle or deer, but can also be found in cemeteries and churchyards. Such sites can often be important due to the presence of large numbers of mature trees and can also have historic, cultural and landscape importance. |
| W_in_P | Not a priority habitat | n/a |  | Parklands with introduced exotic trees such as cedar (Cedrus spp). |  |
| n/a | Not a priority habitat | Not a priority habitat |  | Only include areas where future land use is uncertain, e.g., if it is not clear whether they are to be replanted. |  |
| W_in_P | Traditional orchard | Orchards | Range of NVC types | This category is for Traditional Orchards Priority Habitat/Habitats of Principal Importance only. Intensively managed orchards are not included. Tradition orchards are defined as groups of fruit and nut trees planted on vigorous rootstocks at low densities in permanent grassland and managed in a low intensity way. The minumum size of a traditional orchard is defined as at least five trees with crown edges less than 20 m apart. Orchards are a mosaic habitat containing fruit trees, deadwood, pasture or meadow, scrub, hedgerows, ponds etc. Prime examples support a diversity of vascular plants, bryophytes, lichens, fungi, vertebrates and invertebrates including BAP species, nationally rare and scarce species. |  |


| W_in_P | Lowland dry acid grassland | Acid grassland | U1-U4 | Lowland acid grassland typically occurs on nutrient poor, free-draining soils of low $\mathrm{pH}(<5.5)$. Acid grasslands are characteristically species poor with typical species that include fine-leaved grasses such as common bent, sheep's fescue, mat-grass and wavy hair-grass and forbs such as heath bedstraw, tormentil and sheep's sorrel. Although species-poor compared to other semi-natural grasslands, it contains important communities with species that are rare in the region. | Lowland acid grasslands are very rare in Warwickshire sub region. The HBA (2012) recorded a total resource of 72.7ha (2.4ha unimproved and 70.3ha semi-improved). It is mainly associated with heathland, woodland or post-industrial sites. They are largely confined to the acid glacial soils in the north of the County on the Midlands Plateau Natural Area where they persist as fragments. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| W_in_P | Lowland dry acid grassland | Acid Grassland | U1-U4 | Improvement reduces the acid character of the grassland and semiimproved acid grasslands will contain a mesotrophic species element (such as white clover, yarrow, common mouse-ear, perennial rye-grass, Yorkshire fog) but in practice, it can be difficult to separate unimproved and semi-improved grasslands. | See above |
| W_in_P | Lowland meadow | Neutral grassland | MG4, MG5, MG8 | Unimproved neutral grasslands are found on neutral clays and alluvial soils which have not been subject to alteration through the use of fertilizers, slurry and herbicides. They are the product of a long history of traditional management such as hay making (meadows) or low intensity grazing (pastures) over many decades. Species diversity is often high (but where neglected can be rank) and can include rare or scarce plants such as green-winged orchid, dyer's greenweed, pepper saxifrage and adder's tongue fern. They also support a diverse fauna, especially invertebrate species. | True unimproved grassland is now very rare in the sub region. The HBA recorded 174ha in 2017. SSSIs account for 73ha (40\%) of this total. Outside of SSSIs remnant unimproved grasslands are generally small and highly fragmented, found on nature reserves, small 'hobby' farms, churchyards, traditional orchards, woodland rides, churchyards, as fragments of remnant old grassland that have escaped intensification e.g. within or on the edge of urban areas. Many of these are designated as Local Wildlife Sites. |
| W_in_P | Lowland meadow | Neutral grassland | MG1, MG6, MG4, MG5 | Semi-improved neutral grasslands have been subject to some form of agricultural improvement such as fertilizer application, use of herbicide, intensive grazing or drainage but are typically not subject to regular reseeding (improved grasslands). Semi-improved grasslands cover a very broad range of grassland quality from almost unimproved (speciesrich) to species-poor semi-improved grassland that is just slightly more species-rich than agriculturally improved grassland. | Species-rich semi-improved grassland is more widespread in the sub region than unimproved grassland but still scarce. Species diversity will be lower than unimproved grasslands but still of high botanical diversity supporting grassland communities that resemble MG5 or MG4 grassland with species such as common knapweed, lady's bedstraw, yellow rattle, common bird's-foot-trefoil, meadow vetchling, oxeye daisy and great burnet but often at lower frequencies than seen in unimproved meadows. Rarer species associated with true unimproved grasslands will also tend to be absent. |


| W_in_P | Lowland calcareous grassland | Calcareous grassland | CG2, CG5 | Calcareous grassland supports a range of plant communities in which lime-tolerant (calcicolous) plants are characteristic. Typical forb species include common centuary, yellow-wort, kidney vetch and dwarf thistle and grasses such as sheep's fescue, tor-Grass, upright brome, crested hair-grass and meadow oat-grass. | Calcareous grassland is very rare in the subregion, largely confined to the south and east of Warwickshire within the Cotswolds and Feldon areas (and with limited areas in the south of the Arden). The majority has a relatively recent origin, falling within old or partially worked quarries, where disturbance has ceased some time ago. Further more important examples occur in cuttings. A little exists within agricultural settings (often on steeper ground that has been left out of improvement schemes) and along some road verges and railway or canal cuttings (Warwickshire LBAP). The latest figures from Habitat Biodiversity Audit (HBA, 2012) give the total area of calcareous grassland in Warwickshire, Coventry and Solihull to be 118 ha ( 35 ha unimproved and 83 ha semi-improved). A large part of this resource is included within designated sites (SSSIs and LWSs) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| W_in_P | Lowland calcareous grassland | Calcareous grassland | CG2, CG5 | Semi-improved calcareous grasslands that have been improved by the addition of some fertiliser will contain some mesotrophic species such as white clover, yarrow, Yorkshire fog, cock's-foot and crested dog'stail. |  |
| n/a | Not a priority habitat | Not a priority habitat | Some examples of MG6 | This consists of semi-improved grassland which is more improved, poorer in species diversity, and more resembles species-poor neutral grassland irrespective of the underlying soil type. However, it is noticeably less improved and more species rich than improved grassland (NCC, 1990). Typical species including Yorkshire fog, meadow foxtail, cock's-foot, red fescue, ribwort plantain and meadow buttercup. |  |
| n/a | Not a priority habitat | Not a priority habitat | MG6a, MG7 | Improved grasslands are dominated by a limited range of grasses, particularly perennial rye-grass and have a very low forb diversity characteristically dominated by white clover. | It is the commonest grassland type in the County. |
| W_in_P | Coastal and floodplain grazing marsh Purple moor-grass and rush pasture Lowland meadow |  | $\begin{array}{c\|} \text { MG8-10, } \\ \text { MG12, M22-28 } \end{array}$ | This is a diffuse category covering certain Molinia grasslands, grasslands with a high proportion of Juncus species, Carex species or Filipendula ulmaria, and wet meadows and pastures supporting communities of species such as Caltha palustris or Valeriana species, where broadleaved herbs predominate over grasses. |  |
| W_in_P | Lowland heathland Lowland dry acid grassland | Lowland heathland |  | This represents a common mixture of dry heath and acid grassland.Lowland heathland is typified by the presence of low growing shrubs such as heather (Calluna vulgaris), dwarf gorse (Ulex minor) and cross-leaved heath (Erica tetralix). | Heathland is very rare in the County. The HBA (2012) has recorded 7.76ha of dry heath/acid grassland mosaic. They are mainly associated with common land and woodland on the acid glacial soils in the north of the county. |
| W_in_P | Arable field margins | Arable field margins |  | Arable field margins are herbaceous strips or blocks around arable fields that are managed specifically to provide benefits for wildlife (see UK BAP, 2008 for definition of margin types that are included and those that are excluded). They are valued for supporting scarce/rare arable plants as well as invertebrates and nesting and feeding birds. |  |


| n/a | Not a priority habitat | Not a priority habitat | Various grassland forms but mostly MG6, MG7 | This comprises intensively managed and regularly mown grasslands, typical of lawns, playing fields, golf course fairways and many urban 'savannah' parks, in which perennial rye grass, with or without white clover, often predominates. The sward composition will depend on the original seed mixture used and on the age of the community. Herbs such as daisy, greater plantain and dandelion may be present. If the amenity grassland has a sward rich in herbs, it may be possible to classify it as semi-improved acidic, neutral or calcareous grassland, as appropriate. In such cases, the area concerned should be mapped as the specific grassland type and its amenity use target noted (NCC, 1990). |  |
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| W_in_P | Ponds | Ponds |  | Standing water includes lakes, reservoirs, pools, flooded gravel pits, ponds, water-filled ditches and canals. | Typical floating and submerged plant species include Duckweed (Lemna spp.), Canadian pondweed (Elodea canadensis), Hornwort (Ceratophyllum spp.), amphibious bistort (Persicaria amphibia) and yellow water-lily (Nuphar lutea). Standing water bodies are important for a vast range of plants and animals, including several protected species such as great crested newt. |
| W_in_P | Rivers \& streams | Rivers \& streams |  | Running water comprises rivers and streams (but not canals, which are classed as Standing Water). | The habitat quality of watercourses can vary widely, with many adversely affected by human activities, such as channel straightening and pollution. However there are also many that have significant wildlife value, providing habitat for a range of plants and animals including protected species such water vole and otter. |
| W_in_P | Reedbeds | Reedbeds |  | Reed beds are wetlands dominated by, but not necessarily composed purely of, stands of the common reed (Phragmites australis). They can include areas of reed which are both wet and dry at their base but usually the water table is at or above ground level for much of the year (LBAP). Usaully part of a mosaic with open water and ditches, wet grassland, wet woodland etc. They usually require management e.g. grazing, cutting, scrub control to maintain a mosaic of vegetation at different stages of growth. | Reed beds are not common or extensive in the sub-region, being mainly associated with sand and gravel extraction within certain river valleys (e.g. the Tame and Avon), some water-filled limestone quarries, a few mining subsidence pools and formal lakes in country house estates, and occasionally as narrow fringes of reed along rivers, canals and ditches. There are dozens of small reed beds, though large ones are few in number and probably only account for 25-30ha. |
| n/a | $\begin{aligned} & \hline \begin{array}{l} \text { Blanket bog } \\ \text { Lowland raised bog } \\ \hline \end{array} \\ & \hline \end{aligned}$ | n/a | M1-3, M17-20 |  | Habitat not found in Warwickshire |
| W_in_P | Lowlansd fens | Fen \& swamp |  | These typically support species-poor vegetation consisting of a Sphagnum carpet overlain by Carex or Juncus species. Characteristic moss species include Sphagnum recurvum, S. palustre and S. auriculatum. Overlying vegetation may consist of small Carex species (Carex echinata, C. nigra or C cura), Carex rostrata, Juncus acutifloris, J. effusus, J. squarrosus, or Eriophorum angustifolium. | Extremely rare in the County e.g. Coleshill and Bannerly Pools SSSI |
| n/a | Lowland fens | n/a | Various mire communities | Basin mire is a topogenous fen, fed by ground water or streams. It develops in a waterlogged basin and does not contain much open water. The vegetation may be dominated by Sphagnum species, together with Carex rostrata and ericoids, or by tall swamp plants such as Phragmites australis, Schoenoplectus (Scirpus) lacustris and Typha species | Habitat not found in Warwickshire |


| W_in_P | Lowland fens | Fen \& swamp |  | Swamp contains tall emergent vegetation typical of the transition between open water and exposed land. Swamps are generally in standing water for a large part of the year. Swamp vegetation includes both mixed and single-species stands include reedmace (Typha spp.), common reed (Phragmites australis), reed canary-grass (Phalaris arundinacea), reed sweet-grass (Glyceria maxima) and tall sedge species (Carex spp.). | The Phase 1 category includes reedbed (see above) as well as fen and swamp. |
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| W_in_P | Not a priority habitat | Fen \& swamp | MG11, MG13, OV28-36 | Inundation vegetation covers areas that are periodically inundated. The species community is generally open and inherently unstable. Typical species present may include the following: knot grass (Polygonum) species, bulbous rush (Juncus bulbosus), beggartick and bur-marigold (Bidens) species, creeping bent grass (Agrostis stolonifera), marsh foxtail (Alopecurus geniculatus), as well as many ruderal species (NCC, 1990). |  |
| n/a | Not a priority habitat | Not a priority habitat |  | This includes arable cropland, horticultural land (for example nurseries, vegetable plots, flower beds), freshly-ploughed land and recently reseeded grassland, such as rye grass and ryeclover leys, often managed for silage (NCC, 1990). |  |
| W_in_P | Not a priority habitat | Not a priority habitat | W25 | Areas dominated by Pteridium aquilinum (NCC, 1990). |  |
| W_in_P | Not a priority habitat | Not a priority habitat | OV24-27 | This category comprises stands of tall perennial or biennial dicotyledons, usually more than 25 cm high, of species such as rosebay willowherb and common nettle (NCC, 1990). It is often found as a habitat-edge community and in urban areas is frequently found on post industrial sites/waste ground. |  |
| W_in_P | Not a priority habitat | Not a priority habitat |  | Non-wooded stands of species such as Oreopteris limbosperma, Athyrium felix-femina, Dryopteris species or Luzula sylvatica should be included in this category (NCC, 1990). |  |
| W_in_P | Not a priority habitat | Not a priority habitat |  | Short, patchy plant associations typical of derelict urban sites, quarries and railway ballast. The vegetation typically lacks a clear dominant species, but consists of a mixture of low-growing plants, often less than 25 cm high, such as greater plantain, creeping buttercup, white clover, black medick, coltsfoot, oxeye daisy and ragwort species, or of taller species such as Sisymbrium or Melilot species (NCC, 1990). |  |
| n/a | Not a priority habitat | Allotments |  | All alloments included |  |
| n/a | Not a priority habitat | Quarries \& gravel pits |  | Excavations such as gravel, sand or chalk pits and stone quarries should be included in this category. |  |
| n/a | Not a priority habitat | Not a priority habitat |  | Includes abandoned industrial areas and tips of waste material such as coal mine spoil and slag. |  |
| n/a | Not a priority habitat | Not a priority habitat |  | Rubbish tips, worked landfill sites |  |
| n/a | Not a priority habitat | Not a priority habitat |  | This is vegetation dominated by shrub species that are not locally native, whether planted or selfsown. Common introduced shrubs include species of box, dog wood, laurel, privet, Rhododendron and snowberry. Formal beds of shrubs such as of Hypericum calycinum, Cotoneaster, heaths and dwarf conifers should be included here. |  |
| n/a | Not a priority habitat | Not a priority habitat |  |  |  |
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| Condition Assessment | Habitat creation/restotation timescales |
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| Classify as poor condition |  |
| Classify as poor condition |  |
| Use FEP T08 condition assessment | 0-5 years <br> Planted native woodlands will be about 120 years old before they can be considered semi-natural and should be composed of locally native species and have seminatural woodland ground flora and shrub communities (Phase 1 Survey Handbook, NCC 1990) therefore cannot be created on timescales used in BIA. Timescales for the restoration of existing semi-natural woodland will depend on reasons for unfavourable condition. Timescales for restoration will depend on reasons for unfavourable condition (see condition assessment) and management required to improve condition. |
| Use T08 even though this habitat does not meet strict FEP definition for use with T08. | It is likely to take more than 100 years before the planted woodlands approach good condition e.g. with an age and structural diversity including canopy, understory and field layer that supports plants, insect, mammal and bird species typical of native woodlands. For these reasons, aim for moderate condition in 32+ years. The minimum woodland size for Countryside Stewardship woodland creation grants is 0.5 hectares and must have a mimimum width of 20 metres. |
| Use T08 even though this habitat does not meet strict FEP definition for use with T08. | n/a |
| Classify as poor condition | n/a |
| Use FEP T08 condition assessment |  |
| Use T08 even though this habitat does not meet strict FEP definition for use with T08. | It is likely to take more than 100 years before the planted woodlands approach good condition e.g. with an age and structural diversity including canopy, understory and field layer that supports plants, insect, mammal and bird species typical of native woodlands. Target condition should be moderate in $32+$ years. |
| Use FEP T08 condition assessment |  |


| Use condition assessment V05 for scrub, even if the scrub does not meet the FEP definition of high environmental value scrub. | Scrub of high conservation value contains a range of shrub species (at least 3) with mixed age structure, has a complex vertical and horizontal structure i.e. variation in physical structure, age range and spacing, has many clearings and glades giving a high boundary/area ratio, a well developed edge with ungrazed tall herbs, and supports a range of rare/local invertebrates. Scrub typically matures in 15 years (RSPB), so it should be possible to create good quality scrub in 15 years with suitable management e.g. rotational cutting that achieves the above conditions. |
| :---: | :---: |
| Use condition assessment V05 for scrub, even if the scrub does not meet the FEP definition of high environmental value scrub. | Scrub of high conservation value contains a range of shrub species (at least 3) with mixed age structure, has a complex vertical and horizontal structure i.e. variation in physical structure, age range and spacing, has many clearings and glades giving a high boundary/area ratio, a well developed edge with ungrazed tall herbs, and supports a range of rare/local invertebrates. Scrub typically matures in 15 years (RSPB), so it should be possible to create good quality scrub in 15 years with suitable management e.g. rotational cutting that achieves the above conditions. |
| No FEP condition assessment. See next column for important attributes. | The ecological value of scattered trees will depend on the tree species (species such as oak, birch, hawthorn and willows are most valuable), age (large, mature trees have higher value), location (the proximity of other habitats that add habitat, species and structural diversity), the presence of features such as decay, loose bark, dense ivy cover etc. It takes decades for these features to develop. |
| Use FEP T03 condition assessment | Timecales for restoration will depend on reasons for current condition and management required to improve condition. Reasons for unfavourable condition may include e.g. loss of old trees (disease, root damage, soil compaction, felling) lack of replacement trees, lack of standing and fallen deadwood (removed for safety reasons, over-tidying), inappropriate management e.g. intensive grazing levels. |
| Classify as poor condition | n/a |
| Use FEP T15 or PTES (Peoples Trust for Endangered Species) condition assessment (see PTES/NE Project Report NECR077) | The PTES condition assessment has 3 condition categories: excellent (established, mixed ages of tree, grazed, standing and fallen deadwood), good/fair (includes newly planted or young orchards that are mown, they lack good deadwood habitat and the mature trees that can provide it naturally), poor (gappy, no new trees, scrubbed over, trees damaged). Newly planted orchards can therefore be in moderate (i.e PTES good/fair) condition in 5-10 years provided assocatied habitats e.g. wildflower grassland, hedges, scrub, deadwood logpiles etc are incorporated. It will take a lot longer to achieve good condition i.e. trees of varying age, standing and fallen deadwood etc. See PTES website and Natural Englands Technical information notes (TIN12 to 21) for advice on planting, species and varities, wildlife, location, rootstocks etc), also Countryside Stewardship, Creation of traditional orchards option BE5. |


| Use FEP G05 condition assessment | Unimproved grasslands cannot be recreated, at least not on timesacles used in the BIA metric. It is possible to create BAP quality grasslands that resemble old unimproved grasslands but these classified as semi-improved - see below. |
| :---: | :---: |
| Use FEP G05 condition assessment | A review of agri-environment schemes ( 5 sites) found it is possible to create/restore lowland dry acid grassland PH within 10-20 years. One site created (20 years ago) on a field of free draining sand has a well established U1c grassland in good condition. The 4 restored sites were in moderate ( 3 sites) or good ( 1 site) condition over timescales of $10-20$ years by reinstatement of management e.g, grazing, tree/shrub clearance. See attached guidance for details. |
| Use FEP G06 condition assessment |  |
| Use FEP G06 condition assessment | Evidence from agri-environment schemes (Wilson et al - see attached guidance) show that it is possible to create/restore lowland meadow PH of moderate to good quality typically in $8-15$ years. Careful site selection (e.g. low soil nutrient levels) and suitable management (e.g. cutting and grazing) are important. Low frequency of positive indicator species was the primary reason for grasslands failing to achieve good status. It is possible therefore to create/restore lowland meadow PH to good condition in 10 years on high potential sites (see FEP manual Keys 1 and 2c). On low potential sites, moderate condition in 15 years is a more realistic target. |



| Classify as poor condition |  |
| :---: | :---: |
|  | n/a |
| Use FEP W07 condition assessment | Ponds colonise rapidly with plants, invertebrates and ampibians and can take just a few years to be of high wildlife value. However, the value of ponds is affected by the water quality (e.g. elevated nutrient levels), pollution risk e.g. road-runoff, presence o stream inflows, location (ponds in urban and arable areas tend to be of poorer quality). Good quality ponds tend to occur in close proximity to other ponds or wetland habitats and where they are buffered by semi-natural habitat. These factors should be taken into account when deciding on target condition. |
| No FEP condition assessment. See next colum | Good quality watercourses will have a divesity of natural channel features typical of lowland watercourses. These include a variety of flow patterns (riffles, runs, glides, pools and marginal dead water), a variety of channel features (side bars, point bars, silt deposits and islands), meanders and associated erosion/deposition features and natural variation of bankside habitats. |
| Use FEP W08 condition assessment | Newly created reed bed can establish very rapidly ie within a few growing seasons (RSPB). However, reedbed habitat quality can vary greatly depending on size, degree of wetness and dryness, scrub cover, soil type, water quality and management. These factors should be taken into account when making decisions about target condition. |
| n/a | n/a |
| Use FEP W04 condition assessment |  |
|  | n/a |
| n/a | n/a |


| Use FEP W04 condition assessment |
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| High | MediumHigh | Medium | MediumLow | Low | High | MediumHigh | Medium | MediumLow |
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|  | Wetland |  |  |  |  | Other (including Built |  |  |
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| Low | High | MediumHigh | Medium | MediumLow | Low | High | MediumHigh | Medium |
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| Low | High | MediumHigh | Medium | MediumLow | Low | High | MediumHigh | Medium |
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|  |  |  | Wetland |  |  |  |  | Other |
| Low | High | MediumHigh | Medium | MediumLow | Low | High | MediumHigh | Medium |
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| Built Environment |  |  |  |  |  |
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| Built Environmment |  |  |  |  |
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| High | $\begin{array}{l}\text { Medium- } \\ \text { High }\end{array}$ | Medium | $\begin{array}{l}\text { Medium- } \\ \text { Low }\end{array}$ | Low |$]$



| Indirect Impacts |  |  | $\begin{gathered} \text { P_Intensivt } \\ 0.00 \end{gathered}$ |
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Ecosystem Service
Provisioning
Regulating
Cultural

Exiting

|  | After |  | gain/loss |  | P_Intensivt |
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## Provisioning Services




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Regulating Services


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| R_Pest contrc R_Species | R_Climate | R_Air quality | R_Flood prote $R$ R_Water puri | R_Soil Erosio Regulating |  |  |  |
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| R_Pest contrc R_Species |  | R_Climate | R_Air quality | R_Flood prot¢ R_Water puri R_Soil Erosio Regulating |  |  |  |
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| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
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| R_Pest contrc $R$ R_Species | R_Climate | R_Air quality | R_Flood prot R_Water puri | R_Soil Erosio Regulating |  |  |  |
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## Regulating Services



|  |  | $0^{5 \theta^{i k v^{20}}}$ |  | $c^{(0)^{(0)}}$ | A111 |
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| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | A121 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | A122 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | A131 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | A132 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | A21 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | A22 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | A31 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | A3 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | A32 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | A4 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | A5 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | A6 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | B11 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | B12 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | B21 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | B22 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | B31 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | B32 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | B4 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | B5 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | B6 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | C11 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | C31 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | C32 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | D5 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | E11 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | E21 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | E32 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | F1 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | F22 |
|  |  |  |  |  | G1 |
| C_Physical | C_Aesthetic | C_Spiritual | C_Intellectura | Cultural | G2 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 121 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 122 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 124 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | J11 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | J112 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | J113 |
|  |  |  |  |  | J12 J13 |
| C_Physical | C_Aesthetic | C_Spiritual | C_Intellectura | Cultural | J14 |


| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ | J4 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ | URB |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ | B 51 |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ | $\mathrm{n} / \mathrm{a}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ | $\mathrm{n} / \mathrm{a}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ | $\mathrm{n} / \mathrm{a}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ | $\mathrm{n} / \mathrm{a}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ | $\mathrm{n} / \mathrm{a}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ | $\mathrm{n} / \mathrm{a}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ | $\mathrm{n} / \mathrm{a}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |  |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |  |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |  |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |  |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |  |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |  |
|  |  |  |  |  |  |


| C_Physical | C_Aesthetic | C_Spiritual | C_Intellectura Cultural |  |
| ---: | ---: | ---: | ---: | ---: | :--- |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | $\mathbf{0 . 0 0}$ |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |


| C_Physical | C_Aesthetic | C_Spiritual | C_Intellectura Cultural |  |
| ---: | ---: | ---: | :---: | :---: |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## DESCRIPTION

Woodland: Broad-leaved semi-natural woodland
Woodland: Broad-leaved plantation
Woodland: Coniferous semi-natural woodland
Woodland: Coniferous plantation
Woodland: Mixed semi-natural woodland
Woodland: Mixed plantation
Woodland: Dense continuous scrub
Woodland: Scattered scrub
Woodland: Broad-leaved parkland
Woodland: Scattered trees
Woodland: Coniferous parkland
Woodland: Recently felled woodland
Woodland: Orchard
Woodland: Wet woodland
Grassland: Unimproved acidic grassland
Grassland: Semi-improved acidic grassland
Grassland: Unimproved neutral grassland
Grassland: Semi-improved neutral grassland
Grassland: Unimproved calcareous grassland
Grassland: Semi-improved calcareous grassland
Grassland: Improved grassland
Grassland: Marsh / Marshy grassland
Grassland: Poor semi-improved grassland
Other: Continuous bracken
Other: Tall ruderal
Other: Non-ruderal
Grassland: Dry heath / Acidic grassland mosaic
Wetland: Sphagnum Bog
Wetland: Acid/neutral flush
Wetland: Basin Mire
Wetland: Swamp
Wetland: Inundation vegetation
Wetland: Standing water
Wetland: Running water
Other: Quarry
Other: Spoil
Other: Refuse tip
Other: Arable
Other: Allotments
Grassland: Set-aside / Arable field margins
Grassland: Amenity grassland
Other: Ephemeral/short perennial
Other: Introduced shrub

Other: Bare ground
Built Environment: Buildings/hardstanding
Wetland: Reedbed
Built Environment: Gardens (lawn and planting)
Other: Vertical face (correction factor)
Other: Living Wall
Other: Living roof - Extensive
Other: Living roof - Semi-intensive
Other: Living roof - Intensive
Other: Living roof - Brown
Other: Living roof - Mosaic

## INFERENCE

```
Median Stakeholder value
Median Stakeholder value
Set to mean of Semi-natural BL (A111) & coniferous plantation (A122)
Median Stakeholder value
Set to average (A1111 + A121)
Set to average (A112 + A122)
Median Stakeholder value
Set to A22
Set to J12 for cultural; average (J12 + A112) for others (J12 = amenity; A112 = broadleaf plantation)
same as A31
Set to J12 for cultural; average (J12 + A122) for others (J12 = amenity; A122 = Conifer plantation)
Set to J4 (bare ground) with reduced habitat (3-->1) and soil-related variables set to those ofA132 (mixed plantation)
Set to A112 with modified food provision (A112 = BL plantation)
CT Added
Median Stakeholder value
Set to B11
Median Stakeholder value
Set to B21
Median Stakeholder value
Set to B31
Median Stakeholder value
Median Stakeholder value
Set to mean of B4 and B22 (IG and Neutral grassland)
Set to C31
Median Stakeholder value
Set to C31
Median Stakeholder value
Set to B5 with some expert modification (Pam) to reflect differences
Set to B5 with some expert modification (Pam) to reflect differences
Set to B5 with some expert modification (Pam) to reflect differences
Set to B5 with some expert modification (Pam) to reflect differences
Set to B5 with some expert modification (Pam) to reflect differences
Median Stakeholder value
Set to G1 (sthanding water)
Set to J4 (bare ground)
Set to J4 (bare ground)
Set to J4 (bare ground)
Median Stakeholder value
Set to J12 (amenity) with increased food provision, reduced arable and more intellectual /spiritual interactions
CT Added
Median Stakeholder value
set to C31 (tall ruderal)
set to C31 (tall ruderal)
```

Median Stakeholder value Median Stakeholder value Set to B5 - WCC set - WCC set

- WCC set
same as garden - WCC set same as garden - WCC set same as garden - WCC set same as garden - WCC set same as garden WCC set same as garden - WCC set



| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 4 | 3 | 4 | 5 | 3.5 | 5 | 3 | 3 | 4 |
| 3 | 2 | 1.5 | 1 | 1.5 | 1 | 1.5 | 0.5 | 1 | 1 |
|  |  |  |  |  |  |  |  |  |  |
| 3 | 2 | 1.5 | 1 | 1.5 | 1 | 1.5 | 0.5 | 1 | 1 |
| 3 | 2 | 1.5 | 1 | 1.5 | 1 | 1.5 | 0.5 | 1 | 1 |
| 3 | 2 | 1.5 | 1 | 1.5 | 1 | 1.5 | 0.5 | 1 | 1 |
| 3 | 2 | 1.5 | 1 | 1.5 | 1 | 1.5 | 0.5 | 1 | 1 |
| 3 | 2 | 1.5 | 1 | 1.5 | 1 | 1.5 | 0.5 | 1 | 1 |
| 3 | 2 | 1.5 | 1 | 1.5 | 1 | 1.5 | 0.5 | 1 | 1 |



| 4 |  |  | 0 | 0 | 0.5 | 0 | 1 | 0 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 4 | 4 | 0 | 1 | 0 | 0.5 | 1 | 0 | 4.5 |
| 2.5 | 3.5 | 0 | 0 | 0.5 | 0.5 | 0.5 | 4 | 5 |
| 3 | 3 | 0 | 0 | 2.5 | 0 | 0 | 3 | 2 |
| 3.6 | 4.6 | 0 | 0 | 0.5 | 0.1 | 0.9 | 1 | 4.3 |
| 3.3 | 3.8 | 0 | 0.5 | 0.3 | 0.5 | 0.8 | 2 | 4.8 |
| 3 | 3 | 0 | 0 | 2.5 | 0 | 0 | 3 | 2 |
| 3 | 3 | 0 | 0 | 2.5 | 0 | 0 | 3 | 2 |
| 3 | 3.3 | 0 | 0.5 | 0.5 | 0.3 | 0.5 | 0 | 2.3 |
| 3 | 3.3 | 0 | 0.5 | 0.5 | 0.3 | 0.5 | 0 | 2.3 |
| 2.3 | 3 | 0 | 0 | 0.8 | 0.3 | 0.3 | 2 | 2.5 |
| 3.3 | 0 | 0 | 0 | 0 | 0 | 0.8 | 0 | 0 |
| 4 | 4 | 0 | 3 | 0 | 0.5 | 1 | 0 | 4.5 |
| 5 | 5 | 0 | 2 | 1 | 1 | 2 | 3 | 2 |
| 3 | 4 | 0 | 0 | 3 | 0.5 | 0 | 0 | 0 |
| 3 | 4 | 0 | 0 | 3 | 0.5 | 0 | 0 | 0 |
| 3 | 4 | 0 | 0 | 3 | 0.5 | 0 | 0 | 0 |
| 3 | 4 | 0 | 0 | 3 | 0.5 | 0 | 0 | 0 |
| 2.5 | 4 | 0 | 0 | 3 | 0.5 | 0 | 0 | 0 |
| 2.5 | 4 | 0 | 0 | 3 | 0.5 | 0 | 0 | 0 |
| 1.5 | 2.5 | 1.5 | 0 | 5 | 0 | 0 | 0 | 0 |
| 4 | 4 | 0 | 0 | 3.5 | 0.5 | 1 | 0 | 0 |
| 2.3 | 3.3 | 0.8 | 0 | 4 | 0.3 | 0 | 0 | 0 |
| 2.5 | 3 | 0 | 0 | 1.5 | 0.5 | 0.5 | 0 | 0 |
| 2.5 | 3 | 0 | 0 | 1.5 | 0.5 | 0.5 | 0 | 0 |
| 2.5 | 3 | 0 | 0 | 1.5 | 0.5 | 0.5 | 0 | 0 |
| 3 | 3.5 | 0 | 0 | 2.5 | 0.5 | 0 | 0 | 0 |
| 4 | 4 | 0 | 0 | 1.5 | 0.5 | 1.5 | 0 | 0 |
| 4 | 4 | 0 | 0 | 1.5 | 0.5 | 1 | 0 | 0 |
| 4 | 4 | 0 | 0 | 1.5 | 0.5 | 1.5 | 0 | 0 |
| 4 | 4 | 0 | 0 | 1.5 | 0.5 | 1.5 | 0 | 0 |
| 4 | 4 | 0 | 0 | 1.5 | 0.5 | 1 | 0 | 0 |
| 3.5 | 0.5 | 0 | 0 | 1 | 1.5 | 5 | 0 | 0 |
| 3.5 | 0.5 | 0 | 0 | 1 | 1.5 | 5 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 5 | 4 | 1 | 0 | 0 | 0 | 0 |
| 2 | 2.5 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 4 | 4 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |
| 2 | 2.5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2.5 | 3 | 0 | 0 | 1.5 | 0.5 | 0.5 | 0 | 0 |
| 2.5 | 3 | 0 | 0 | 1.5 | 0.5 | 0.5 | 0 | 0 |
|  |  |  |  |  | 0 | 0 | 0 | 0 |


| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 4 | 0 | 0 | 3.5 | 0.5 | 1 | 0 | 0 |
| 0.5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |


|  |  | $e^{\left(00^{200^{30}}\right.}$ | $0^{u v^{u 2}}$ | $Q<^{100^{\circ}}$ |
| :---: | :---: | :---: | :---: | :---: |
| 0 | 1.1 | 4.7 | 4.9 | 0.2 |
| 0 | 1.3 | 3.8 | 3.6 | 0.3 |
| 0 | 1.2 | 2.6 | 2.5 | 0.2 |
| 0.5 | 0.9 | 3.5 | 2.3 | 0.8 |
| 0 | 1.1 | 4.2 | 4.3 | 0.2 |
| 0 | 1.3 | 3.2 | 3.1 | 0.3 |
| 0.5 | 0.9 | 3.5 | 2.3 | 0.8 |
| 0.5 | 0.9 | 3.5 | 2.3 | 0.8 |
| 0 | 0.8 | 2.4 | 3.1 | 0.3 |
| 0 | 0.8 | 2.4 | 3.1 | 0.3 |
| 0 | 0.7 | 1.9 | 1.9 | 0.3 |
| 0 | 0.2 | 0.9 | 0.6 | 0 |
| 0 | 1.7 | 3.8 | 3.6 | 1 |
| 1 | 1.4 | 4.3 | 3.3 | 0 |
| 0.5 | 0.6 | 3.8 | 3.8 | 1 |
| 0.5 | 0.6 | 3.8 | 3.8 | 1 |
| 0 | 0.6 | 3.8 | 3.8 | 1 |
| 0 | 0.6 | 3.8 | 3.8 | 1 |
| 0 | 0.6 | 3.7 | 3.8 | 1 |
| 0 | 0.6 | 3.7 | 3.8 | 1 |
| 0 | 1.3 | 1.4 | 1 | 2.2 |
| 0.5 | 0.9 | 3.9 | 3.5 | 1.2 |
| 0 | 1 | 2.6 | 2.4 | 1.6 |
| 0.5 | 0.4 | 3.3 | 1.9 | 0.5 |
| 0.5 | 0.4 | 3.3 | 1.9 | 0.5 |
| 0.5 | 0.4 | 3.3 | 1.9 | 0.5 |
| 0.5 | 0.5 | 3.7 | 3.9 | 0.8 |
| 0.5 | 0.6 | 3.9 | 3.3 | 0.5 |
| 0.5 | 0.5 | 3.9 | 3.3 | 0.5 |
| 0.5 | 0.6 | 3.9 | 3.3 | 0.5 |
| 0.5 | 0.6 | 3.9 | 3.3 | 0.5 |
| 0.5 | 0.5 | 3.9 | 3.3 | 0.5 |
| 0.5 | 1.2 | 2.6 | 4.5 | 0.3 |
| 0.5 | 1.2 | 2.6 | 4.5 | 0.3 |
| 0 | 0 | 0.9 | 0.6 | 0 |
| 0 | 0 | 0.9 | 0.6 | 0 |
| 0 | 0 | 0.9 | 0.6 | 0 |
| 1 | 2 | 1 | 0.9 | 3.3 |
| 0 | 0.8 | 1.4 | 1.8 | 1.3 |
| 0 | 0.4 | 3.9 | 1 | 0 |
| 0 | 0.2 | 1.4 | 1.3 | 0.3 |
| 0.5 | 0.4 | 3.3 | 1.9 | 0.5 |
| 0.5 | 0.4 | 3.3 | 1.9 | 0.5 |


| 0 | 0 | 0 | 0 | 0 |
| ---: | ---: | ---: | ---: | ---: |
| 0 | 0 | 0 | 0 | 0 |
| 0.5 | 0.9 | 3.9 | 3.5 | 1.2 |
| 0 | 0 | 1.9 | 1 | 0 |
|  |  |  |  | 0 |
| 0 |  |  |  | 0 |
| 0 |  |  |  | 0 |
| 0 |  |  |  | 0 |
| 0 |  |  |  | 0 |
| 0 |  |  |  | 0 |



Grassland

|  |  | Target habitat <br> Biodiversity Impact <br> Score |  |
| :---: | :---: | :---: | :---: |
|  | Primary habitat required in offset | distinctiveness |  |
|  |  | Distinctive <br> ness | Score |
| 0.00 |  |  |  |

Werland

| Biodiversity Impact <br> Score | Primary habitat required in offset | Target habitat <br> distinctiveness |  |
| :---: | :---: | :---: | :---: |
|  |  | Distinctive <br> ness | Score |
| 0.00 |  |  |  |
|  | Wetland: Standing Water | High | 6 |

Hedgerow

| Biodiversity Impact <br> Score | Primary habitat required in offset | Target habitat <br> distinctiveness |  |
| :---: | :---: | :---: | :---: |
|  |  | Distinctive <br> ness | Score |
| 0.00 | species rich hedge with trees | Medium-high | 5 |


|  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Target habitat condition | Time till target <br> condition |  | Difficulty of creation | Non- <br> strategic <br> area | Hectares of <br> habitat <br> required |  |  |
| Condition | Score | Time <br> (years) | Score | Difficulty | Score |  |  |
| Moderate | 2 | 30 | 2.8 | Medium | 1.5 | 2 |  |


|  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Target habitat condition | Time till target <br> condition |  | Difficulty of creation | Non- <br> strategic <br> area | Hectares of <br> habitat <br> required |  |  |
| Condition | Score | Time <br> (years) | Score | Difficulty | Score |  |  |
| Good | 3 | 25 | 2.4 | Medium | 1.5 | 2 |  |


|  | Time till target <br> condition |  | Difficulty of creation |  | Strategic <br> area | Hectares of <br> habitat <br> required |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Condition | Score | Time <br> (years) | Score | Difficulty | Score |  |  |
| Moderate | 2 |  |  |  |  |  |  |


| Target habitat condition |  | Time till target <br> condition |  | Difficulty of creation | Strategic <br> Area | Km of <br> habitat <br> required |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Condition | Score | Time <br> (years) | Score | Difficulty | Score |  |  |
| Good | 3 | 20 | 2 | Low | 1 | 1 | 0.00 |


| Provider <br> Agreement Set- <br> up costs | Average <br> Woodland <br> creation cost per <br> ha | Woodland <br> maintenance cost per <br> ha for 30 years | $\mathbf{3 0}$ yrs Maintenance <br> Cost plus inflation at |
| :---: | :---: | :---: | :---: |
| H | I | $£ 184 \times 30=\mathrm{J}$ | $\mathrm{J} \times 1.75=\mathrm{K}$ |
| $£ 7,000$ | $£ 1,584$ | $£ 5,520$ | $3.61 \%$ |
| $£ 0$ | $£ 0.00$ | $£ 0.00$ | $£ 0.00$ |


| Provider <br> Agreement Set <br> up costs | Average Meadow <br> creation cost per <br> ha | Meadow maintenance <br> cost per ha for 30 <br> years | $\mathbf{3 0}$ yrs Maintenance <br> Cost plus inflation at |
| :---: | :---: | :---: | :---: |
| H | I | $£ 227 \times 30=\mathrm{J}$ | $\mathrm{J} \times 1.75=\mathrm{K}$ |
| $£ 7,000$ | $£ 1,686$ | $£ 6,810$ | $3.61 \%$ |
| $£ 0$ | $£ 0.00$ | $£ 0.00$ | $£ 0.00$ |

$\square$

| Number of <br> Ponds to be <br> created | Number of Pond <br> clusters to be <br> created | Provider Agreement <br> Set-up costs | Average Pond <br> creation cost per pond |
| :---: | :---: | :---: | :---: |
| H | I | J | K |
| $\mathrm{L} / 0.017 \mathrm{ha}$ <br> (av. Pond size) |  | $£ 7000$ per pond cluster | $£ 1,212$ |
| 0 | 0.00 | $£ 0$ | $£ 0.00$ |


| Provider <br> Agreement Set <br> up costs | Average <br> Hedgerow <br> creation cost per <br> km | Hedgerow <br> maintenance cost per <br> km for 30 years | $\mathbf{3 0}$ yrs Maintenance <br> Cost plus inflation at |
| :---: | :---: | :---: | :---: |
| H | I | $£ 7270 \times 30=\mathrm{J}$ | $\mathrm{J} \times 1.75=\mathrm{K}$ |
| $£ 7,000$ | $£ 9,400$ | $£ 218,100$ | $3.61 \%$ |
| $£ 0$ | $£ 0.00$ | $£ 0.00$ | $£ 0.00$ |

$£ 9.40$ per metre
$£ 7.27$ per metre

| Estimated cost <br> of offset | Insurance <br> Contribution <br> (index linked) | Management <br> Cost <br> (index linked) | Total Cost of Offset <br> Contribution |
| :---: | :---: | :---: | :---: |
| $\mathrm{H}+\mathrm{I}+\mathrm{K}=\mathrm{L}$ | M | N | $\mathrm{L}+\mathrm{M}+\mathrm{N}$ |
| $£ .00$ | $10 \%$ | $20 \%$ |  |
|  | $£ 0.00$ | $£ 0.00$ | $£ 0.00$ |
|  | Cost per ha of habitat created |  | $£ 0.00$ |
|  | Cost per unit |  |  |


| Estimated cost <br> of offset | Insurance <br> Contribution <br> (index linked) | Management <br> Cost <br> (index linked) | Total Cost of Offset <br> Contribution |
| :---: | :---: | :---: | :---: |
| $\mathrm{H}+\mathrm{I}+\mathrm{K}=\mathrm{L}$ | M | N | $\mathrm{L}+\mathrm{M}+\mathrm{N}$ |
| $£ 0.00$ | $10 \%$ | $20 \%$ |  |
|  | $£ 0.00$ | $£ 0.00$ | $£ 0.00$ |
|  | Cost per ha of habitat created |  | $£ 0.00$ |
|  | Cost per unit |  |  |


| Pond <br> maintenance <br> cost per pond <br> for 30 years | 30 yrs <br> Maintenance <br> Cost plus <br> inflation at | Estimated cost <br> of offset | Insurance <br> Contribution <br> (index linked) | Management <br> Cost <br> (index linked) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $£ 70 \times 30=\mathrm{L}$ | $\mathrm{L} \times 1.75=\mathrm{M}$ | $\mathrm{I}+\mathrm{J}+\mathrm{L}=\mathrm{N}$ | O | P |  |  |  |  |
| $£ 2,100$ | $3.61 \%$ |  | $10 \%$ | $20 \%$ |  |  |  |  |
| $£ 0.00$ | $£ 0.00$ | $£ 0.00$ | $£ 0.00$ | $£ 0.00$ |  |  |  |  |
| Cost per pond cluster created |  |  |  |  |  |  |  | Cost per unit |


| Estimated cost <br> of offset | Insurance <br> Contribution <br> (index linked) | Management <br> Cost <br> (index linked) | Total Cost of Offset <br> Contribution |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | M | N | $\mathrm{L}+\mathrm{M}+\mathrm{N}$ |  |  |
|  | $10 \%$ | $20 \%$ |  |  |  |
| $£ .00$ | $£ 0.00$ | $£ 0.00$ | $£ 0.00$ |  |  |
|  | Cost per ha of habitat created |  | $£ 0.00$ |  |  |
|  | Cost per unit |  |  |  | $£ 0.00$ |




[^0]:    AAUTION - Destruction of habitats of high distinctiveness, e.g. lowland meadow or ancient woodland, may be against local policy. Has the mitigation
    hierarchy been followed, can impact to these habitats be avoided?
    Any unavoidable loss of habitats of high distinctiveness must be replaced like-for like.

