

# Butterfly Transect Weekly Recording Form - Jersey

SITE:

PARISH:

RECORDER:

DATE:

START TIME:

MEAN % SUN:

MEAN TEMP:

WIND SPEED (0-6):

WIND DIRECTION:

FINISH TIME:

WEEK #:

SECTION	1	2	3	4	5	6	7	8	9	10	TOTAL
% Sun											
Brimstone											
Brown argus											
Clouded yellow											
Comma											
Common blue											
Essex skipper											
European map											
Gatekeeper											
Grayling											
Green hairstreak											
Green-veined White											
Holly blue											
Large skipper											
Large white											
Long-tailed blue											
Meadow brown											
Orange-tip											
Painted lady											
Peacock											
Purple hairstreak											
Queen of Spain fritillary											
Red admiral											
Small copper											
Small heath											
Small tortoiseshell											
Small white											
Speckled wood											
Swallowtail											
Wall brown											
White admiral											
White-letter hairstreak											
TOTAL											

Return weekly forms at season end to Denise McGowan JBMS co-ordinator (for address see box below):

<p><b>Send to: Denise McGowan</b>  <b>Natural Environment</b>  <b>Howard Davis Farm</b>  <b>Trinity JE3 5JP</b>  <a href="mailto:D.mcgowan@gov.je">D.mcgowan@gov.je</a>  <b>01534 441606</b></p>	<p><b>Notes:</b></p>
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# BUTTERFLY TRANSECT – FIELD RECORDING GUIDANCE

## TRANSECT RECORDING

Butterfly transects are a way of measuring the number and variety of butterflies present at a site from year to year, and require a commitment to carry out weekly recording, throughout the main six-month period (April – September) in which butterflies fly in the UK.



## WHEN TO MAKE TRANSECT COUNTS

### Time of year:

Transect counts take place once a week for 26 weeks from April through to the end of September. Count weeks do not run from Sunday to Monday but start from April 1st. Week one runs from 1st to 7th April, week two 8th-14th April and so on, until week twenty-six which runs from 23rd to 29th September. You may also want to record in either late March or early October, if the weather is suitable and for species such as Brimstone, Speckled Wood and Small Copper. In such cases 25th to 31st March becomes week -1, 30th Sept to 6th October is week 27 and so on.

### Time of week:

You can record on any day of the week and should aim to pick the day that has the most favourable weather. Only record more than once a week if the weather on your first visit was unsatisfactory - there is no need to send in data from the unsatisfactory visit.

### Time of day:

Transect walks should only be made between 10:00 and 17:00 hours, and preferably between 10:45 and 15:45.

### Weather conditions:

Transect walks should only be carried out in warm and at least bright weather, with no more than moderate winds. The minimum criteria are either 13-17°C with at least 60% sunshine, or 17+°C with at least 40% sunshine, and windspeed (Beaufort scale) no more than 5 (unless the transect is sheltered). Do not survey if the temperature is below 13°C.

**HOW TO RECORD** 1 - Use a separate form for each weekly visit.

2 - Always follow exactly the same route each time you make a transect walk (be clear that you know exactly where each section starts and finishes).

3 - Before you start recording complete the top of the form up to the start time.

4 - Record each section once only.

5 - For long sections where species are present in large numbers, it may be advisable to tally numbers on a separate sheet or notebook before entering the final total onto the standard recording form (or customise the form beforehand - see previous section above). Record actual numbers seen – an estimate will do if it is not possible to be accurate.

6 - If rare species are present, resist stopping and waiting at favoured hotspots to improve your count, as this will bias results.

7 - Record butterfly numbers and % sunshine in each section as you go along (see below).

8 - At the end of your transect record the time, make notes of any management activity or other points of interest and check that you have filled in all the relevant boxes on the recording form.

## RECORDING BUTTERFLIES:

Walk at a slow, steady pace counting all butterflies seen within a fixed distance - 2.5m either side of the transect line and 5m ahead. In some habitats e.g. along sea cliffs or woodland rides, it is acceptable to record at a width of 5m along one side only of the transect line. Always stick to the limits that you identified when the transect was established. Try to identify and separate all species you encounter, including where possible 'difficult' species. You may want to net a sample. Nets can be borrowed from the co-ordinator.

## RECORDING THE WEATHER:

Sunshine should be estimated for each section to the nearest 10%. If a shadow is cast (bright cloud) then conditions may be classed as sunny. At the end of the transect record shade temperature (with a portable thermometer), estimate average sunshine (based on section data), and average windspeed, using the Beaufort scale.

THE BEAUFORT SCALE		
Code	MPH	Description
0	0-1	Calm - smoke rises vertically
1	1-3	Light air - slight smoke drift
2	4-7	Light breeze - wind felt on face
3	8-12	Gentle breeze – leaves in constant motion
4	13-18	Moderate breeze – dust raised, small branches move
5	19-24	Fresh breeze – small trees in leaf begin to sway
6	25-31	Strong breeze – large branches moves, trees sway