Surveys of Dentated Pug *Anticollix sparsata*, Portland Moth *Actebia praecox*, Dwarf Willow Roller *Anacampsis temerella* and Southern Barred Groundling *Caryocolum blandulella* in South Wales in 2025

NRW Evidence Report No. 970

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Dentated Pug larva and feeding damage at Pant-y-Sais

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Report series: NRW Evidence Report
Report number: 970
Publication date: February 2026
Contract number:
Contractor: Dr. George Tordoff, Tordoff Ecology
Contract Manager: Dr. Mike Howe
Title: **Surveys of Dentated Pug *Anticollix sparsata*, Portland Moth *Actebia praecox*, Dwarf Willow Roller *Anacampsis temerella* and Southern Barred Groundling *Caryocolum blandulella* in South Wales in 2025**
Author: **G. Tordoff**
Technical Editor: Dr. Mike Howe
Quality assurance: 2
Peer Reviewer(s): Sam Bosanquet
Approved By: Sam Bosanquet
Restrictions: None

Distribution list (core)

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National Library of Wales	1
British Library	1
Welsh Government Library	1
Scottish Natural Heritage Library	1
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Recommended citation for this volume:

Tordoff, G. 2026. Surveys of Dentated Pug *Anticollix sparsata*, Portland Moth *Actebia praecox*, Dwarf Willow Roller *Anacampsis temerella* and Southern Barred Groundling *Caryocolum blandulella* in South Wales in 2025. NRW Evidence Report No. **970**. 40pp. Natural Resources Wales, Bangor.

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Crynodeb gweithredol

Arolygwyd pedwar gwyfyn prin, y pwtyn deintiog *Anticollix sparsata*, y dart llwydwyrdd *Actebia praecox*, y gwyfyn bach *Anacampsis temerella* a'r gwyfyn micro *Caryocolum blandulella*, mewn safleoedd ym Morgannwg a Sir Gaerfyrddin yn ystod haf 2025. Mae pob un o'r pedair rhywogaeth o wyfynod yn nodweddion cymhwyso annibynnol y Safleoedd o Ddiddordeb Gwyddonol Arbennig lle maent yn byw. Nod yr arolwg oedd casglu gwybodaeth gyfoes am y rhywogaethau hyn i benderfynu ar eu statws a'u dosbarthiad presennol ac i nodi unrhyw bryderon rheoli a bygythiadau eraill.

Cofnodwyd larfâu y pwtyn deintiog ym mhob un o'r tri safle arolwg, gydag un o'r larfâu ar Dwyni Tywod Cynffig, saith ar Bant-y-Sais a phedwar ar Gors Crymlyn. Mae'r planhigyn cynhaliol, y trewyn *Lysimachia vulgaris,* yn digwydd yn gyffredin yn y tri safle ac ymddengys nad oes unrhyw fygythiadau uniongyrchol i'r gwyfyn.

Ni chofnodwyd yr un o'r rhywogaethau targed eraill. Cynhyrchodd trapio ysgafn am y dart llwydwyrdd ar Dwyni Tywod Cynffig a Twyni Merthyr Mawr ddalfeydd da o wyfynod, gan gynnwys sawl rhywogaeth nodedig, ond ni ddarparwyd unrhyw dystiolaeth o'r rhywogaeth darged. Y cofnodion olaf o Gymru yw'r rhai ar Dwyni Tywod Cynffig yn 2021 a Thwyni Merthyr Mawr yn 2016, er gwaethaf sawl chwiliad ers hynny. Ar Dwyni Tywod Pen-bre, roedd dalfeydd ysgafn a chwiliadau gyda'r nos am y gwyfyn *Caryocolum blandulella* hefyd yn aflwyddiannus a'r cofnod diweddaraf o Gymru yw un o oedolyn ar yr un safle yn 2006. Cynhaliwyd rhwydi ysgubo am oedolion y gwyfyn *Anacampsis temerella* ar Dwyni Tywod Cynffig ond y cofnod diweddaraf o'r gwyfyn yw un unigolyn yn 2003. Gall y tri rhywogaeth fod yn anodd eu canfod ac ni ddylid cymryd y diffyg tystiolaeth o arolygon diweddar i ddangos difodiant lleol, ac argymhellir arolygon pellach.

Executive summary

Four scarce moths, Dentated Pug *Anticollix sparsata*, Portland Moth *Actebia praecox*, Dwarf Willow Roller *Anacampsis temerella* and Southern Barred Groundling *Caryocolum blandulella*, were surveyed at sites in Glamorgan and Carmarthenshire during the summer of 2025. All four moth species are independently qualifying features of the SSSIs on which they occur. The aim of the survey was to gather contemporary information for these species to determine their current status and distribution and to identify any management concerns and other threats.

Larvae of Dentated Pug were recorded at all three survey sites, with one larva on Kenfig Burrows, seven on Pant-y-Sais and four on Crymlyn Bog. The host plant Yellow Loosestrife *Lysimachia vulgaris* occurs commonly at all three sites and there appear to be no immediate threats to the moth.

None of the other target species was recorded. Light trapping for Portland Moth on Kenfig Burrows and Merthyr Mawr Warren produced good moth catches, including several notable species, but provided no evidence of the target species. The last Welsh records remain those on Kenfig Burrows in 2021 and Merthyr Mawr Warren in 2016, despite several searches since this time. On Pembrey Burrows, light trapping and evening searches for Southern Barred Groundling were also unsuccessful and the most recent Welsh record remains that of an adult at the same site in 2006. Sweep netting for Dwarf Willow Roller adults was undertaken on Kenfig Burrows but the most recent record of the moth remains a single individual in 2003. All three species can be elusive and the lack of evidence from recent surveys should not be taken to indicate local extinction, and further surveys are recommended.

1. Introduction

The current survey focussed on four moths which are independently qualifying features of SSSIs in Glamorgan and Carmarthenshire, with the aim of gathering contemporary information to determine status and distribution and identifying any management concerns and other threats.

1.1 Dentated Pug

Dentated Pug *Anticollix sparsata* (Treitschke, 1828) is associated with fens, marshes, reedbeds and wet woodlands in the UK. It is very local in southern England and East Anglia as far north as Yorkshire, with strongholds in the Norfolk Broads, Cambridgeshire fens, the New Forest and east Dorset (Randle *et al.*, 2019). Adults are on the wing from June to August and larvae can be found from July to September feeding on the leaves and less often the flowers of Yellow Loosestrife *Lysimachia vulgaris,* with an apparent preference for plants growing in deep shade (Henwood *et al.*, 2020). The moth overwinters as a pupa.

In Wales, Dentated Pug is restricted to Glamorgan, where it was first recorded at Crymlyn Bog in 1995 (Waring *et al.*, 2017; Table 1) and where there appears to be a healthy population (Gilmore *et al.*, 2014). It was also recorded at Pen-y-waun, Felindre in 1997 (Gilmore *et al.*, 2014). Larvae were found on Yellow Loosestrife at Kenfig Pool and Pant-y-Sais in July 1997 and these populations persist.

Dentated Pug is an independently qualifying feature of Cors Crymlyn/Crymlyn Bog SSSI, Cynffig/Kenfig SSSI and Pant-y-Sais SSSI.

Table 1. Welsh records of Dentated Pug.

Site	Grid Reference	Date	Abundance
Crymlyn Bog	SS687944	19/08/1995	1 adult
Crymlyn Bog	SS687944	01/06/1998	3 adults
Crymlyn Bog	SS687944	04/07/2001	1 adult
Crymlyn Bog	SS703937	16/07/2004	7 adults
Crymlyn Bog	SS709938	13/06/2009	2 adults
Crymlyn Bog	SS688941	01/07/2015	1 adult
Kenfig Pool	SS7981	18/07/1997	several larvae
Kenfig Pool	SS796817	06/08/2020	4 larvae
Pant-y-Sais	SS7194	18/07/1997	several larvae
Pant-y-Sais	SS713940	24/07/2010	1 adult
Pant-y-Sais	SS713940	08/07/2021	4 adults
Pen-y-waun, Felindre	SN6300	20/08/1997	-

1.2 Portland Moth

Portland Moth *Actebia praecox* (Linnaeus, 1758) is a resident and suspected scarce immigrant in the UK and is primarily associated with coastal sand dunes, sandy beaches and sandy heaths, although in Scotland it is also found inland on river shingle banks (Henwood *et al.*, 2020; Randle *et al.*, 2019). Once relatively widespread, it has undergone significant declines and there may now be less than a dozen widely scattered populations, mostly in southern Lancashire and north-east Scotland (Randle *et al.*, 2019). Adults are on the wing in August and September and can be found nectaring on ragwort *Jacobaea* at night and also come to light. Larvae hide in sand by day and emerge to feed at night, mainly on Creeping Willow *Salix repens* but also on a range of herbaceous dune plants, from September to the following June (Henwood *et al.*, 2020). Pupation occurs underground.

Portland Moth has been recorded from the coasts of seven Welsh vice-counties (Butterfly Conservation Wales, 2022) but the only contemporary records are from Glamorgan. Between 1832 and 2002, it was recorded on 28 occasions from 11 hectads in the county (Gilmore *et al.*, 2014). Since this time, there have been just three records – two on Merthyr Mawr Warren in 2016 and one on Kenfig Burrows in 2021 (Glamorgan Moth Recording Group website; Table 2), despite targeted trapping on both sites across several years. It may be extinct in North Wales with the last record, from Newborough Warren, in 1998 (North Wales Lepidoptera website).

Portland Moth is an independently qualifying feature of Cynffig/Kenfig SSSI and Merthyr Mawr SSSI.

Table 2. Records of Portland Moth from Kenfig Burrows and Merthyr Mawr Warren.

Site	Grid Reference	Date	Abundance
Kenfig Burrows	SS802811	23/07/1985	1 adult
Kenfig Burrows	SS802811	07/08/1993	1 adult
Kenfig Burrows	SS802811	22/08/1993	1 adult
Kenfig Burrows	SS802811	30/08/1993	1 adult
Kenfig Burrows	SS802811	26/08/1994	1 adult
Kenfig Burrows	SS802811	01/08/2021	1 adult
Kenfig Burrows	SS80138101	25/08/2021	1 adult
Merthyr Mawr Warren	SS8777	15/08/2002	1 adult
Merthyr Mawr Warren	SS86237662	24/08/2016	1 adult
Merthyr Mawr Warren	SS86897693	30/08/2016	1 adult

1.3 Dwarf Willow Roller

Dwarf Willow Roller *Anacampsis temerella* (Lienig & Zeller, 1846) is very local in the British Isles where it is associated with coastal dune slacks (Gelechiid Recording Scheme website). Since 1970, the moth has been recorded from only seven localities, with just five sites with post-2000 records - two in Wales, one in Ireland, one in England and one on the Isle of Coll

in Scotland (Gelechiid Recording Scheme website; David Hill, Butterfly Conservation, pers. comm.). A survey of the Lancashire dunes in 2021 funded by the Tanyptera Trust recorded Dwarf Willow Roller at Ainsdale Dunes and Birkdale Sandhills (Smart, 2021a).

Adults are on the wing from June to August and can be swept from stands of the larval foodplant Creeping Willow during the day and occasionally come to light. Eggs are laid on a twig of the foodplant and larvae feed from mid-May to early July, spinning a few terminal leaves together to form a c.5cm long tube around the twig (Emmet & Langmaid, 2002; Langmaid *et al.*, 2025). Larvae can be confused with its congener Poplar Roller *Anacampsis populella* which feeds in a similar manner (Langmaid *et al.*, 2018) such that adults should be reared to confirm identification, although Smart (2021b) noted some differences in larval appearance between the two species.

In Wales, Dwarf Willow Roller is known from six sites in three vice counties, with the first record from Newborough Warren (Anglesey) in 1972 (Gilmore *et al.*, 2014; North Wales Lepidoptera website). Post-2000 records are restricted to Kenfig Burrows (Glamorgan) and Tywyn Aberffraw (Anglesey). A casual search of Creeping Willow in several dune slacks on Tywyn Aberffraw in 2022 failed to locate larval spinnings (Mike Howe, pers. obs.). Larvae and adults have been searched for by the author at Kenfig on several occasions over the last decade, but without success.

Dwarf Willow Roller is an independently qualifying feature of Cynffig/Kenfig SSSI and Tywyn Aberffraw SSSI.

Table 3. Welsh records of Dwarf Willow Roller.

Site	Vice County	Grid Reference	Date	Abundance
Crymlyn Bog	41	SS6894	23/06/1989	-
Kenfig Burrows	41	SS7981	15/08/2003	1 adult
Gronant Dunes	51	SJ1084	1974	-
Talacre Warren	51	SJ1284	18/07/1974	1 larva
Newborough Warren	52	SH4362	01/07/1972	1 larva
Newborough Warren	52	SH4066	27/07/1981	-
Tywyn Aberffraw	52	SH36	01/07/2000	6 larvae
Tywyn Aberffraw	52	SH36	30/07/2000	5 larvae
Tywyn Aberffraw	52	SH3668	14/07/2005	3 larvae

1.4 Southern Barred Groundling

Southern Barred Groundling *Caryocolum blandulella* (Tutt, 1887) is a rare moth of sandy coasts and sand dunes in the UK, with post-2000 records restricted to single sites in Norfolk, Suffolk and Carmarthenshire (Gelechiid Recording Scheme website). In the, past it was known from Kent, Hampshire and possibly Glamorgan (Gelechiid Recording Scheme website).

Adults fly at night in July and August and are attracted to light. The larvae feed on the seed capsules of Little Mouse-ear *Cerastium semidecandrum* in May and June, spinning them together and feeding in the year following oviposition (Langmaid *et al.*, 2025). In Sweden, Dwarf Mouse-ear *Cerastium pumilum* is also used (Gregersen & Karsholt, 2022).

In Wales, there are unconfirmed records of Southern Barred Groundling from Gower in 1979 and 1980 - most likely Whiteford Burrows (SS49) (Gilmore *et al.*, 2014). It was however recorded at Pembrey Burrows in 2006 (Jon Baker, pers. comm.).

Southern Barred Groundling is a qualifying feature of Arfordir Pen-bre / Pembrey Coast SSSI.

Table 4. Welsh records of Southern Barred Groundling.

Site	Grid Reference	Date	Stage
Pembrey Burrows	SS416994	July-August 2006	Adult

2. Methods

2.1 Dentated Pug

Larvae were searched for in fine, dry weather on Kenfig Burrows, Pant-y-Sais and Crymlyn Bog in late July and early August (see Table 5). At Pant-y-Sais and Crymlyn Bog, searches were generally restricted to areas close to paths, as most of the sites were too wet to access safely. Searches entailed looking for feeding damage on plants of Yellow Loosestrife growing in wet woodland and tall fen habitats. When likely feeding damage was located, leaves were carefully turned to check for the presence of Dentated Pug larvae; larvae of the sawfly *Monostegia abdominalis*, as well as some generalist invertebrate herbivores, can make similar feeding signs. Dentated Pug larvae generally remain on the plants if leaves are turned carefully, but can drop to the ground if searches are too vigorous.

For all Dentated Pug larvae that were found, the following data were recorded: grid reference (8-figure, using GPS), number of larvae per plant, size of larvae, host plant flowering status (flowering or non-flowering), host plant height, and notes on shading and surrounding habitat.

Table 5. Details of Dentated Pug larval searches.

Date	Site	Search areas
28/7/25	Kenfig Burrows	Slacks and wet woodland close to pool.
30/7/25	Pant-y-Sais & Tennant Canal	Areas accessible from boardwalk and towpath.
30/7/25	Crymlyn Bog	Areas accessible from boardwalk and main paths (south-west of site).
1/8/25	Kenfig Burrows	Slacks to south of pool.

2.2 Portland Moth

Light trapping for adults was undertaken on Kenfig Burrows and Merthyr Mawr Warren in August 2025 (Table 6). Five traps were run on Kenfig Burrows (Figure 1); traps were transported to the front dunes by the warden's electric dune buggy. Two of the traps were situated on the margins of a dune restoration area that was largely free of vegetation. Merthyr Mawr Warren had to be accessed on foot and hence only two portable traps were operated (Figure 2). Weather was generally favourable for moth trapping throughout the trapping sessions.

Table 6. Details of Portland Moth light trapping.

Date	Site	Grid references & trap details	Trap times	Weather
12/8/25	Kenfig Burrows	SS79038056: 125W MV SS78798082: 125W MV SS78918058: 6W actinic SS78888070: 6W actinic SS78868081: LED	21:15-01:50	Clear at first, cloudy later. Breezy at coastal margin. 18°C throughout.
15/8/25	Merthyr Mawr Warren	SS86187661: 6W actinic SS86107657: 6W actinic	21:00-01:05	Clear; half-moon rose during the session. Still until midnight then breezy. Mild.

Figure 1. Portland Moth light trapping locations & trap types on Kenfig Burrows.

On Merthyr Mawr Warren, light trapping was supplemented by torchlight, flower searches and netting of moths in flight, on a walk from the car park to the beach and back. This included the area that was excavated several years previously as part of a dune restoration project (central grid ref.: SS860763).

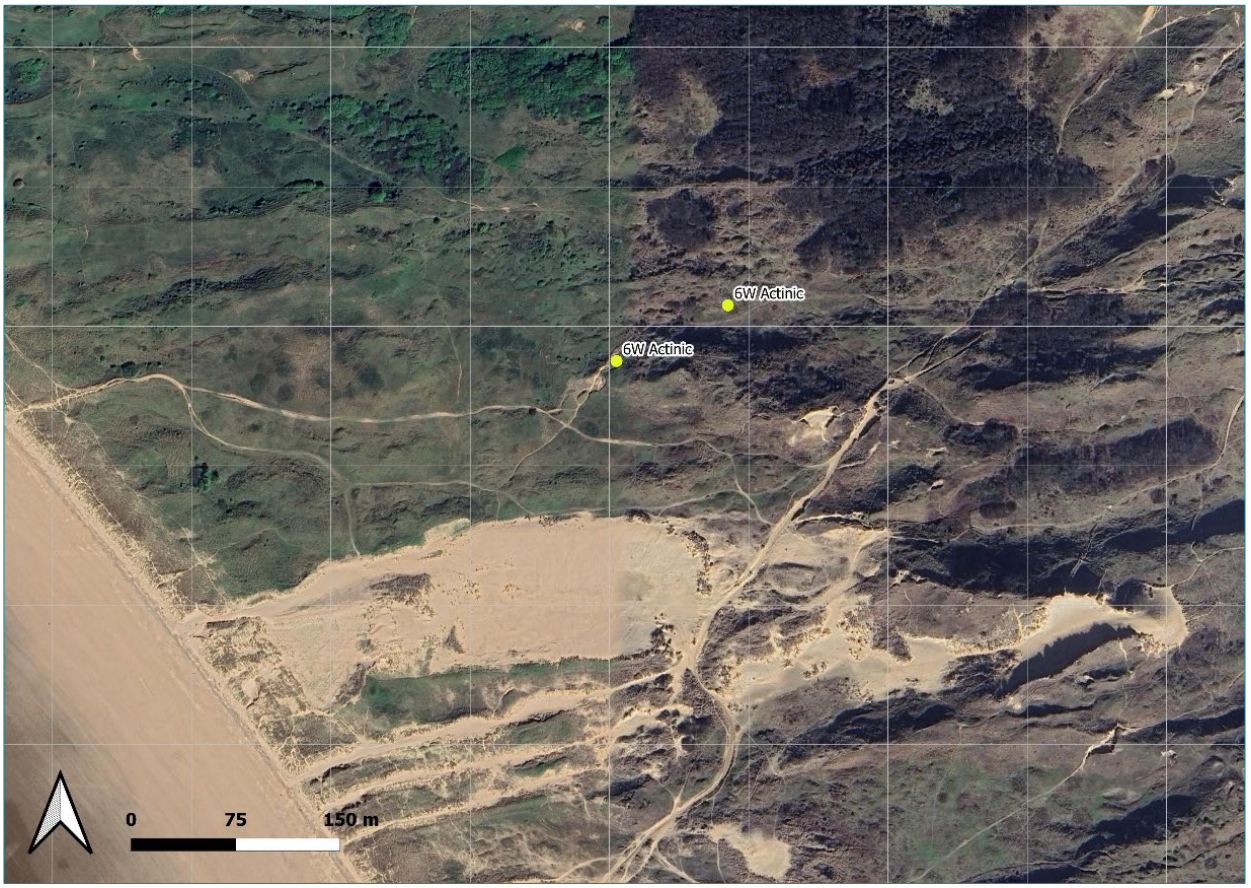

Figure 2. Portland Moth light trapping locations & trap types on Merthyr Mawr Warren.

2.3 Dwarf Willow Roller

Sweep netting of Creeping Willow growing in dune slacks was undertaken at 12 locations across the southern part of Kenfig Burrows on 28th July and 1st August 2025 (Figure 3). A variety of situations was sampled, with Creeping Willow stands ranging from fairly short to tall, and ground conditions from very wet to fairly dry. Weather conditions were favourable on both survey days, being dry and with a temperature of 19-20°C. It was rather breezy, though this is almost inevitable on Kenfig Burrows.

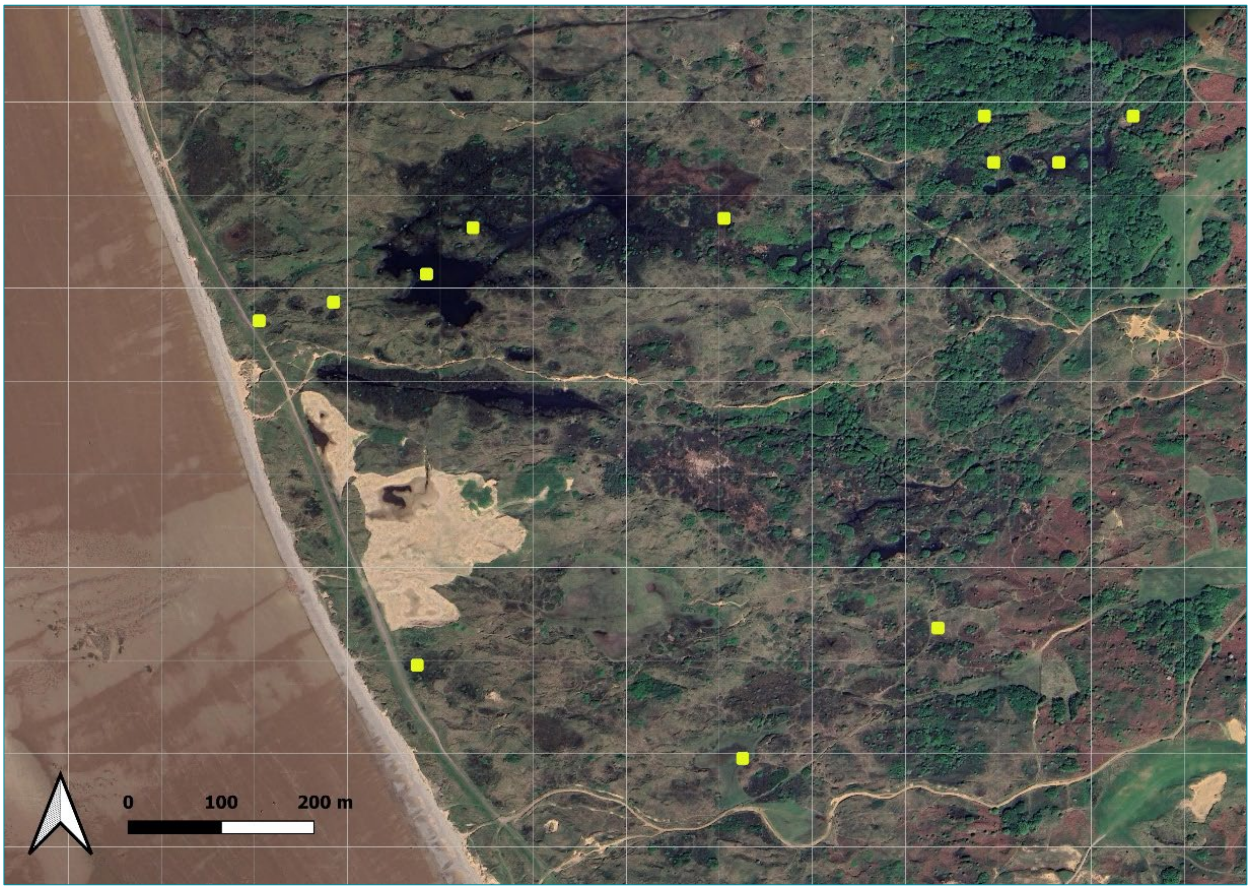

Figure 3. Dwarf Willow Roller sweep netting locations on Kenfig Burrows.

2.4 Southern Barred Groundling

Evening searches and light trapping for adults were undertaken at Pembrey Burrows Local Nature Reserve on 28th July 2025. Evening searches involved looking for adults of Southern Barred Groundling in site compartments 1 and 3 between 19:45 and 21:15, during which time the weather was very favourable for micro-moth activity, being warm, sunny and with light winds. Light trapping utilised three traps: a 125W MV trap (compartment 3) and two 6W actinic Heath traps (one each in compartments 1 and 3); see Figure 4. Traps were run between 21:50 and 02:00. After promising conditions at dusk, the temperature dropped rapidly after dark and few moths arrived during the latter part of the recording period.

Figure 4. Southern Barred Groundling light trapping locations and trap types at Pembrey Burrows.

3. Results

Dentated Pug was recorded at all three survey sites. None of the other target species was recorded. Further details are provided in the individual species sections below. A selection of site photographs is included in Appendix 2.

3.1 Dentated Pug

Larvae of Dentated Pug were recorded at the three survey sites, with one larva on Kenfig Burrows, seven at Pant-y-Sais and four at Crymlyn Bog (Table 7; Figures 5 to 7). The host plant Yellow Loosestrife was found to occur commonly at all three sites.

Host plants of Yellow Loosestrife ranged from 70cm to 120cm in height (mean 90cm). There was no obvious association of larvae with flowering or non-flowering plants (Table 7).

Habitat notes at host plant locations are included in Appendix 1. Only two larvae were found in carr woodland, with the others on plants growing in tall fen. At the fen locations, plants

with larvae had some shading from surrounding vegetation, mostly Common Reed *Phragmites australis* but sometimes sedges *Carex* and other plants. Some host plants were, however, situated in partial sun.

Table 7. Larval survey results for Dentated Pug.

Site	Date	Grid Ref.	No. larvae	Size	Host plant status	Plant height (cm)
Kenfig Burrows	28/07/2025	SS79788179	1	2/3rds grown	Non-flowering	70
Pant-y-Sais (boardwalk)	30/07/2025	SS71369405	1	Half grown	Flowering	120
Pant-y-Sais (boardwalk)	30/07/2025	SS71409406	1	Small (2nd instar?)	Flowering	100
Pant-y-Sais (boardwalk)	30/07/2025	SS71419406	1	Half grown	Non-flowering	70
Pant-y-Sais (boardwalk)	30/07/2025	SS71329407	2	3/4 grown, half grown	Non-flowering	NR
Pant-y-Sais (Tennant Canal)	30/07/2025	SS71459406	1	Half grown	Non-flowering	70
Pant-y-Sais (Tennant Canal)	30/07/2025	SS71609408	1	Half grown	Non-flowering	70
Crymlyn Bog (Bog boardwalk)	30/07/2025	SS68839420	1	2/3rds grown	Flowering	80
Crymlyn Bog (Bog boardwalk)	30/07/2025	SS68839421	1	Half grown	Flowering	100
Crymlyn Bog (Dramway)	30/07/2025	SS68789442	1	Half grown	Non-flowering	100
Crymlyn Bog (Dramway)	30/07/2025	SS68819449	1	Full grown	Flowering	120

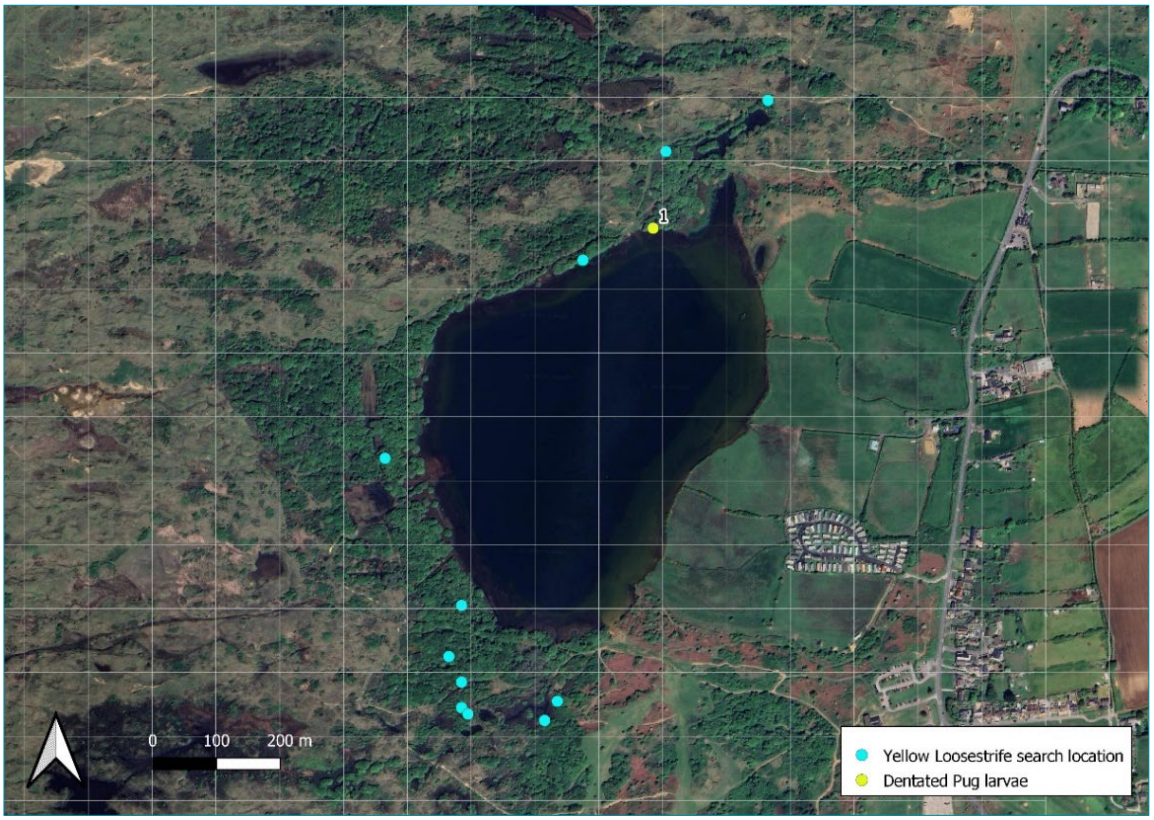

Figure 5. Dentated Pug search areas and larval locations on Kenfig Burrows.

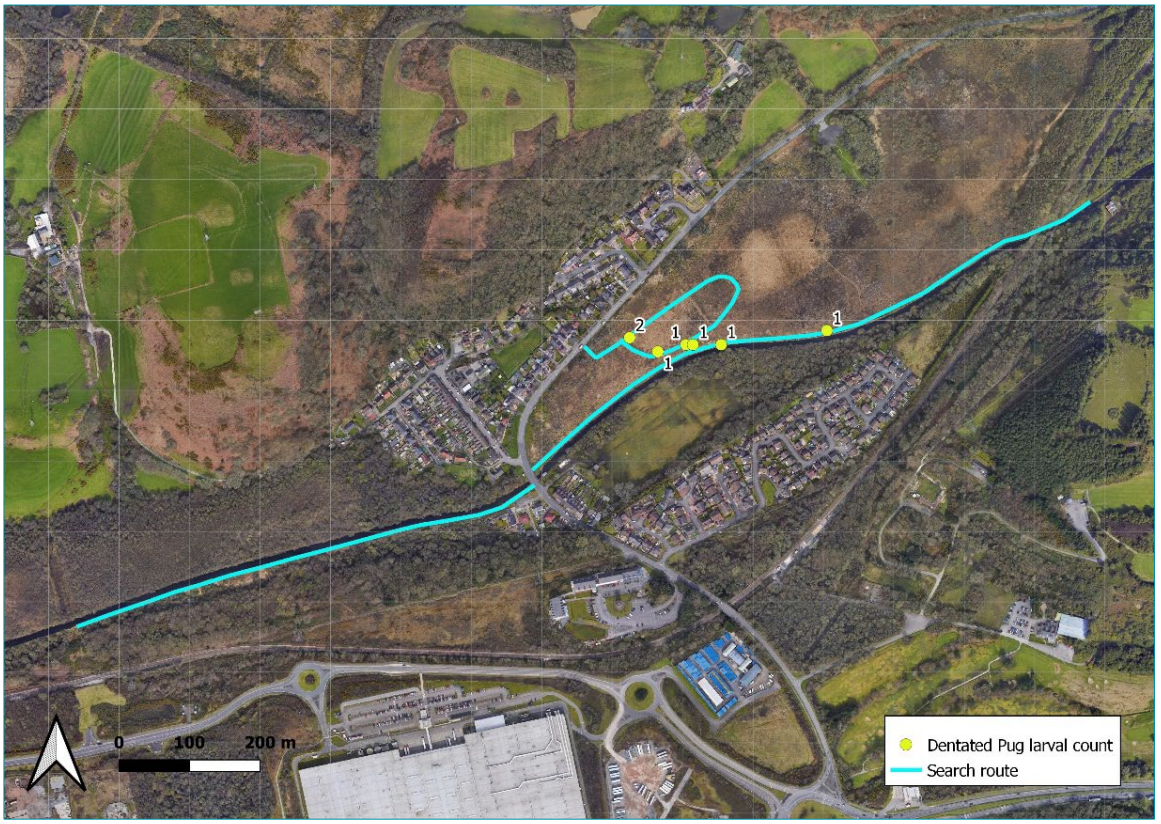

Figure 6. Dentated Pug searches and larval locations at Pant-y-Sais & Tennant Canal.

Figure 7. Dentated Pug searches and larval locations at Crymlyn Bog.

3.2 Portland Moth

Portland Moth was not recorded at either survey site. On Kenfig Burrows, 74 moth species were recorded across five light traps, including *Acleris permutana* (pRDB: proposed Red Data Book), *Notocelia incarnatana* (NS: Nationally Scarce) and *Pyrausta cingulata* (NS). County scarce species included Cream-bordered Green Pea *Earias clorana*, *Coleophora taeniipennella* and the migrant *Diasemiopsis ramburialis*.

On Merthyr Mawr Warren, 69 moth species were recorded by light trapping and torchlight searches, including *Acleris permutana* (pRDB), *Notocelia incarnatana* (NS), *Pyrausta ostrinalis* (NS) and *Pyrausta cingulata* (NS). The scarce migrant *Diasemiopsis ramburialis* was also recorded.

The combined total across both surveys was 103 moth species, a good tally for mid-August and indicative of favourable weather conditions for light trapping.

3.3 Dwarf Willow Roller

Dwarf Willow Roller was not recorded on either survey day on Kenfig Burrows. Sweeping did produce adults of several other micro-moths that feed as larvae on Creeping Willow: *Anacampsis populella, Epinotia caprana*, *Epinotia cruciana* and *Pammene populana* (NS). Larvae of Small Chocolate-tip *Clostera pigra* (NS) and Silver Hook *Deltote uncula* were also recorded by sweeping dune slack vegetation.

3.4 Southern Barred Groundling

Southern Barred Groundling was not recorded by evening searches or light trapping on Pembrey Burrows. A total of 67 moth species was recorded by the survey, including four Nationally Scarce species: *Cnephasia conspersana, Bactra lacteana, Notocelia incarnatana* and Oblique Striped *Phibalapteryx virgata*. Six species with Local status were also recorded: Willow Ermine *Yponomeuta rorrella*, Dowdy Plume *Stenoptilia zophodactylus*, *Aproaerema anthyllidella*, *Bryotropha senectella*, *Celypha cespitana* and *Phycitodes maritima.*

4. Discussion

While it was disappointing to record just one of the four moth species targeted by the survey, this outcome was not entirely unexpected given other negative survey results for these species over the last decade. **Portland Moth**, in particular, has been the target of numerous light trapping sessions on both Kenfig Burrows and Merthyr Mawr Warren, both by the author and other moth recorders in Glamorgan. In addition, the warden at Kenfig has run weekly trapping sessions for several years, using light traps run overnight at the reserve centre and also at various locations on the dunes (C. Jones, pers. comm.). Only one Portland Moth has been recorded during this period, in a trap at the reserve centre in 2021. Given the extensive nature of the open dune habitat on both Kenfig Burrows and Merthyr Mawr Warren, and the relative inaccessibility of many parts of these dune systems for light trapping, it is quite possible that the moth persists at both sites, either at a low density or concentrated in particular areas that have not been sampled by light trapping. The moth was, however, recorded more frequently at these sites in the past, indicating a decline in population. The general stabilisation of Welsh sand dune systems (Howe *et al.*, 2012) is considered a likely factor in the decline of this species across Wales, given that the larva requires loose, dry sand. Climate change might also be a factor, as the species has declined to a lesser extent in the north of the UK than in the south; it appears to be extinct as a breeding species in southern England.

Dwarf Willow Roller has been searched for several times on Kenfig Burrows by the author during the last decade, both as a larva and, as with the current survey, as an adult. All surveys have been negative and the last Kenfig (and South Wales) record remains that of an adult caught in a light trap on 15th August 2003 (Glamorgan Moth Recording Group

website). Creeping Willow occurs abundantly across the dune slacks on Kenfig Burrows and it is difficult to imagine why the moth would have disappeared from the site. In all likelihood, it remains present but localised, perhaps preferring particular stand types or parts of the site that have not so far been sampled.

The weather conditions for light trapping were rather unfavourable on the night that **Southern Barred Groundling** was targeted at Pembrey Burrows, with few small micro-moths being caught in the colder-than-forecast conditions. Conditions before dusk were favourable, however, and this is known to be a productive time to record this species (Gregersen & Karsholt, 2022). The 2006 record was made in Compartment 3 of the Local Nature Reserve, an area that is subject to periodic grazing by cattle (and perhaps ponies) as well as rabbits. The ground disturbance caused by these herbivores is likely a key factor in the persistence of the larval host Little Mouse-ear, a small annual plant of sandy ground. The plant was found to occur more commonly in Compartment 3 than in the other grazing compartments of the site during larval surveys carried out by the author in 2022 and 2024 (Butterfly Conservation, unpublished data). Although the two larval surveys, and an adult survey in 2023, did not produce any confirmed evidence of the moth, several larvae were found in spinnings on the foodplant in 2022 that matched the appearance of Southern Barred Groundling. However, the closely-related Narrow Groundling *Caryocolum alsinella* can also feed on the same plant and larvae are of similar appearance and require rearing to confirm their identity. Narrow Groundling was reared from Common Mouse-ear *Cerastium fontanum* at the site in 2022 but rearing from Little Mouse-ear was unsuccessful.

It was encouraging to record **Dentated Pug** at all three survey sites, and habitat appears broadly suitable with the foodplant Yellow Loosestrife occurring commonly. At Crymlyn Bog, only a small area of the bog surface is accessible from footpaths and boardwalks and the four larvae recorded are likely to represent a tiny fraction of the moth population. Likewise, at Pant-y-Sais, the foodplant occurs in tall fen away from the boardwalk and towpath and the moth will almost certainly occur in these areas too. Crymlyn Bog and Pant-y-Sais are linked by stands of Yellow Loosestrife along the Tennant Canal and it is likely that a single large population of the moth straddles both sites. It is puzzling that only a single larva was recorded on Kenfig Burrows, as many of the surveyed areas appear suitable and larvae were easy to find on a brief search by the pool on 6th August 2020 (Glamorgan Moth Recording Group website). The paucity of larvae in the current survey may be due to phenology – it is possible that some larvae had already left the plants to pupate because of the very warm spring and summer experienced in 2025.

It was a surprise to find more larvae in open, tall fen habitat than under the shade of carr woodland, given that published sources state that deep shade is preferred (Henwood *et al.*, 2020). Host plants in tall fen always had their lower leaves (where larvae were located) at least partially shaded by surrounding vegetation; this appears to be all the species requires in terms of shading and shelter. Phil Sterling (pers. comm.) has also found larvae among Common Reed in tall fen, as well as among Bog Myrtle *Myrica gale* bushes and Purple Moor-grass *Molinia caerulea* tussocks. It thus appears that fen vegetation is just as suitable for this species as carr woodland, if not more so.

5. Conclusions & recommendations

Dentated Pug remains well established on Crymlyn Bog and Pant-y-Sais, and with an abundance of foodplant at these sites there are no immediate causes for concern. It is likely that a reasonably strong population also persists on Kenfig Burrows, with the paucity of larvae recorded in 2025 perhaps due simply to survey timing (assuming that phenology may differ slightly between this site and the others). No special management is required for the moth, with the foodplant persisting in both tall fen and carr situations. All that is required is that pathsides are not cut back during the summer months, when larvae are on the plants. Larval searches should be undertaken at least once every five years, and ideally these should include additional areas of Crymlyn Bog to gain a better understanding of the moth's distribution at the site.

Further surveys for **Portland Moth** should be undertaken on Kenfig Burrows and Merthyr Mawr Warren. Despite the limited success with light trapping for adults at these sites over the past decade, this method is perhaps more likely to produce results than torchlight larval searches (one such larval search at Merthyr Mawr in May 2021 gave negative results). Areas that have undergone dune restoration should be targeted; these areas have more loose sand than other parts of the sites.

Further surveys for **Dwarf Willow Roller** on Kenfig Burrows are also required. Not all dune slacks have been searched; the north of the site in particular has received little attention. Given the larval identification features outlined by Smart (2021b), it is likely to be more productive to search for larvae than adults. The main difficulty is that larvae of many micro-moth species feed in the shoot tips of Creeping Willow at the same time of year as Dwarf Willow Roller, and opening large numbers of spinnings to check for larvae is time consuming. Any larvae matching the appearance of Dwarf Willow Roller would need to be retained for rearing to adults, though this is likely to be straightforward with adults emerging after just a few weeks.

Caryocolum species are generally easier to record as larvae than adults, and further larval searches for **Southern Barred Groundling** are recommended at Pembrey Burrows. Timing is likely to be critical – a survey on 5th June 2024 found only empty spinnings on the host plant, whereas an earlier survey on 24th May 2022 found several larvae (albeit that rearing these failed). Any larvae would need to be reared to rule out the lookalike Narrow Groundling, which has been reared by the author from Little Mouse-ear on Merthyr Mawr Warren. If rearing again proves unsuccessful, DNA analysis may need to be considered as a means of larval identification. Livestock grazing of the compartments at Pembrey Burrows by cattle and ponies should continue, as this is the best means of creating sufficient ground disturbance to enable a continued supply of the foodplant (alongside digging by rabbits).

6. Acknowledgements

Thanks to Dr Mike Howe (NRW Invertebrate Ecologist) for commissioning the survey and providing information and guidance. Thanks also to site managers who helped with access arrangements: Chris Jones (Warden, Kenfig NNR), Jamie Bevan (NRW Senior Officer Land Management, Pant-y-Sais and Crymlyn Bog) and Paul Aubrey (Carmarthenshire County Council Conservation & Nature Reserves Manager, Pembrey Burrows). Paul Parsons and Chris Jones helped with light trapping on Kenfig Burrows.

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Appendix 1. Habitat notes at locations with Dentated Pug Larvae

Site	Grid Reference	No. larvae	Habitat
Kenfig Burrows	SS79788179	1	Among sparse Common Reed *Phragmites*, under willow *Salix* carr by pool. Full shade.
Pant-y-Sais (boardwalk)	SS71369405	1	Plant in partial sun. Some shade/shelter from taller Royal Fern *Osmunda regalis* adjacent. No trees nearby. Immediately to S of boardwalk.
Pant-y-Sais (boardwalk)	SS71409406	1	Among taller *Phragmites*. Semi-shaded host plant. 3m off boardwalk.
Pant-y-Sais (boardwalk)	SS71419406	1	Among taller *Phragmites* (1.8m tall). Semi-shaded host plant at top, lower part shaded. 5m off boardwalk.
Pant-y-Sais (boardwalk)	SS71329407	2	Larvae on adjacent plants, semi-shaded by *Phragmites*, Lady-fern *Athyrium filix-femina*, Hemp-agrimony *Eupatorium cannabinum*, but somewhat more open than plants above.
Pant-y-Sais (Tennant Canal)	SS71459406	1	North of towpath. Plant shaded by very tall *Phragmites*.
Pant-y-Sais (Tennant Canal)	SS71609408	1	North of towpath. Plant shaded by very tall *Phragmites*.
Crymlyn Bog (Bog boardwalk)	SS68839420	1	Plant semi-shaded by sedges *Carex*, brambles etc.
Crymlyn Bog (Bog boardwalk)	SS68839421	1	Plant semi-shaded by Greater Tussock-sedge *Carex paniculata*.
Crymlyn Bog (Dramway)	SS68789442	1	Plant buried deep in very tall *Phragmites* and *Carex*. Possibly some morning sun - more open to east.
Crymlyn Bog (Dramway)	SS68819449	1	Plant by fenceline, not surrounded by vegetation but shaded by *Salix* canopy. Open to east - some morning sun.

Appendix 2. Site photographs

Dentated Pug breeding habitat on Kenfig Burrows. Yellow Loosestrife growing among Common Reed at the margin of the pool, under a canopy of sallows.

Yellow Loosestrife growing in dune slack on Kenfig Burrows. **Dentated Pug** larvae were not recorded in this habitat.

Dentated Pug breeding habitat at Pant-y-Sais. Yellow Loosestrife growing among Royal Fern and Common Reed to right of boardwalk.

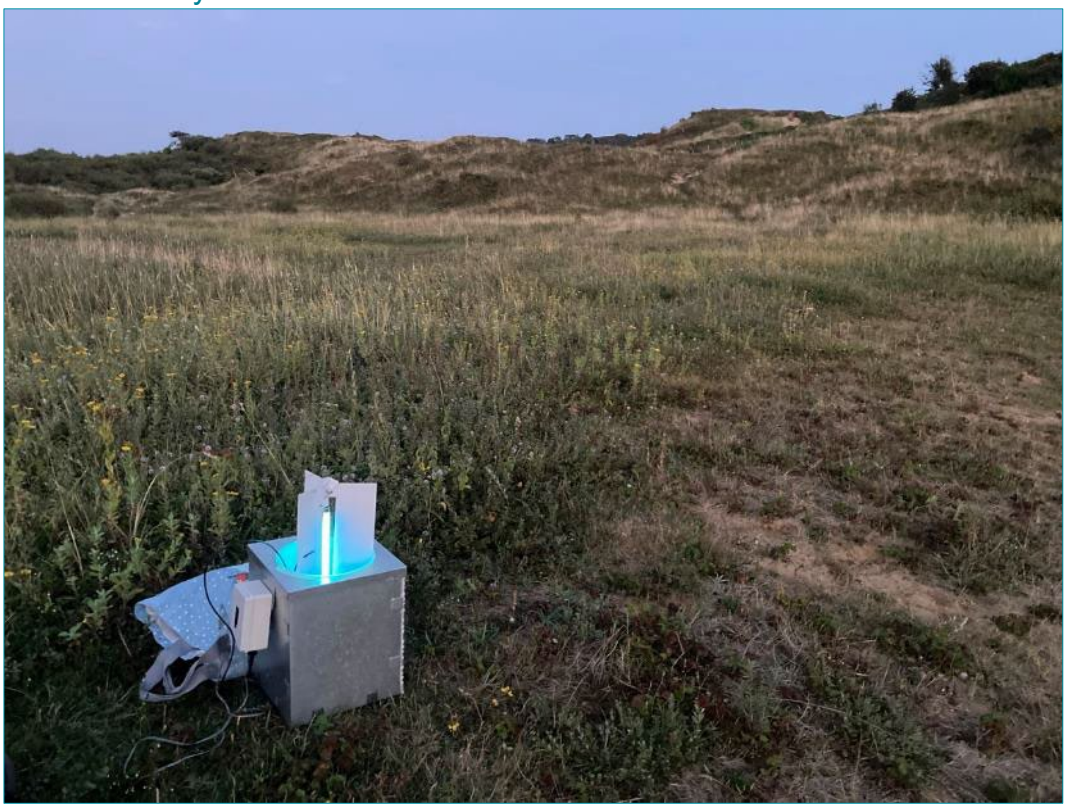
Dentated Pug breeding habitat at Pant-y-Sais. Yellow Loosestrife growing among Common Reed in tall fen.

Dentated Pug breeding habitat at Crymlyn Bog. Yellow Loosestrife growing among Common Reed and sedges *Carex*.

Dentated Pug breeding habitat at Crymlyn Bog. Yellow Loosestrife growing along fenceline under a canopy of sallows.

Dense, tall stand of Creeping Willow close to the pool on Kenfig Burrows, sampled unsuccessfully for **Dwarf Willow Roller**.

Creeping Willow close to seafront on Kenfig Burrows. This stand was sampled unsuccessfully for **Dwarf Willow Roller**.



6W Heath trap on Merthyr Mawr Warren, 15th August 2025. The target species **Portland Moth** was not recorded.

Appendix 3. Non-target moths recorded in 2025

Species	Vernacular Name	Site	Grid Ref	Abundance	Date	Recorder
Abrostola tripartita	Spectacle	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Abrostola tripartita	Spectacle	Merthyr Mawr Warren	SS8676	1 adult	15/08/2025	George Tordoff
Abrostola triplasia	Dark Spectacle	Merthyr Mawr Warren	SS8676	1 adult	15/08/2025	George Tordoff
Acentria ephemerella	Water Veneer	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Acleris emargana	a moth	Crymlyn Bog	SS6894	2 adults	30/07/2025	George Tordoff
Acleris emargana	a moth	Kenfig Burrows	SS794811	1 adult	28/07/2025	George Tordoff
Acleris emargana	a moth	Kenfig Burrows	SS796810	3 adults	28/07/2025	George Tordoff
Acleris emargana	a moth	Kenfig Burrows	SS799819	1 adult	28/07/2025	George Tordoff
Acleris emargana	a moth	Pant-y-Sais	SS7194	3 adults	30/07/2025	George Tordoff
Acleris permutana	a moth	Kenfig Burrows	SS7880	3 adults	12/08/2025	George Tordoff
Acleris permutana	a moth	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Acleris permutana	a moth	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Acleris schalleriana	a moth	Kenfig Burrows	SS793810	5 larvae	28/07/2025	George Tordoff
Acleris variegana	Garden Rose Tortrix	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Acrobasis advenella	a moth	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Adaina microdactyla	Hemp Agrimony Plume	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Agonopterix yeatiana	a moth	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Agriphila latistria	a moth	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Agriphila straminella	a moth	Kenfig Burrows	SS794811	1 adult	28/07/2025	George Tordoff
Agriphila straminella	a moth	Pant-y-Sais	SS7194	1 adult	30/07/2025	George Tordoff
Agriphila straminella	a moth	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Agriphila straminella	a moth	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Agriphila straminella	a moth	Pembrey Burrows	SS416994	2 adults	28/07/2025	George Tordoff
Agriphila tristella	a moth	Kenfig Burrows	SS7880	2 adults	12/08/2025	George Tordoff
Agriphila tristella	a moth	Pembrey Burrows	SS413995	2 adults	28/07/2025	George Tordoff
Agriphila tristella	a moth	Pembrey Burrows	SS416994	3 adults	28/07/2025	George Tordoff
Agriphila tristella	a moth	Pembrey Burrows	SS416994	3 adults	28/07/2025	George Tordoff
Agriphila tristella	a moth	Pembrey Burrows	SS417993	3 adults	28/07/2025	George Tordoff
Agrotis puta	Shuttle-shaped Dart	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Agrotis segetum	Turnip Moth	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Agrotis vestigialis	Archer's Dart	Kenfig Burrows	SS7880	20 adults	12/08/2025	George Tordoff

Species	Vernacular Name	Site	Grid Ref	Abundance	Date	Recorder
Agrotis vestigialis	Archer's Dart	Kenfig Burrows	SS790805	2 adults	12/08/2025	George Tordoff
Agrotis vestigialis	Archer's Dart	Kenfig Burrows	SS787809	8 adults	12/08/2025	Paul Parsons
Agrotis vestigialis	Archer's Dart	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Agrotis vestigialis	Archer's Dart	Merthyr Mawr Warren	SS8676	1 adult	15/08/2025	George Tordoff
Amphipoea oculea	Ear Moth	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Amphipoea oculea	Ear Moth	Pembrey Burrows	SS417993	1 adult	28/07/2025	George Tordoff
Anacampsis populella	a moth	Kenfig Burrows	SS796810	4 adults	28/07/2025	George Tordoff
Anacampsis populella	a moth	Kenfig Burrows	SS795810	1 adult	28/07/2025	George Tordoff
Anacampsis populella	a moth	Kenfig Burrows	SS788804	1 adult	01/08/2025	George Tordoff
Anacampsis populella	a moth	Kenfig Burrows	SS792809	1 adult	01/08/2025	George Tordoff
Anacampsis populella	Poplar Sober	Kenfig Burrows	SS787808	1 adult	12/08/2025	Paul Parsons
Apodia martinii	a moth	Kenfig Burrows	SS798813	1 adult	28/07/2025	George Tordoff
Apotomis betuletana	a moth	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Aproaerema anthyllidella	a moth	Pembrey Burrows	SS416994	2 adults	28/07/2025	George Tordoff
Aproaerema anthyllidella	a moth	Pembrey Burrows	SS417993	1 adult	28/07/2025	George Tordoff
Arctia caja	Garden Tiger	Pembrey Burrows	SS413995	8 adults	28/07/2025	George Tordoff
Arctia caja	Garden Tiger	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Aspitates ochrearia	Yellow Belle	Pembrey Burrows	SS417993	1 adult	28/07/2025	George Tordoff
Autographa gamma	Silver Y	Kenfig Burrows	SS796810	1 adult	28/07/2025	George Tordoff
Autographa gamma	Silver Y	Kenfig Burrows	SS792803	2 adults	01/08/2025	George Tordoff
Autographa gamma	Silver Y	Kenfig Burrows	SS792809	1 adult	01/08/2025	George Tordoff
Autographa gamma	Silver Y	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Autographa gamma	Silver Y	Merthyr Mawr Warren	SS8576	4 adults	15/08/2025	George Tordoff
Autographa gamma	Silver Y	Merthyr Mawr Warren	SS8676	1 adult	15/08/2025	George Tordoff
Bactra lacteana	a moth	Crymlyn Bog	SS686941	20 adults	30/07/2025	George Tordoff
Bactra lacteana	a moth	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Batrachedra praeangusta	a moth	Kenfig Burrows	SS797817	1 adult	28/07/2025	George Tordoff
Bedellia somnulentella	a moth	Kenfig Burrows	SS799818	1 larva	28/07/2025	George Tordoff
Bedellia somnulentella	a moth	Pant-y-Sais	SS7194	1 larva	30/07/2025	George Tordoff
Blastobasis adustella	a moth	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Bryotropha senectella	a moth	Pembrey Burrows	SS417993	1 adult	28/07/2025	George Tordoff
Bryotropha terrella	a moth	Pembrey Burrows	SS416994	10 adults	28/07/2025	George Tordoff
Bucculatrix frangutella	a moth	Crymlyn Bog	SS688942	1 leaf mine	30/07/2025	George Tordoff
Bucculatrix frangutella	a moth	Crymlyn Bog	SS687941	1 leaf mine	30/07/2025	George Tordoff
Cabera exanthemata	Common Wave	Kenfig Burrows	SS796810	2 adults	28/07/2025	George Tordoff
Cabera exanthemata	Common Wave	Kenfig Burrows	SS788809	1 adult	01/08/2025	George Tordoff
Cabera exanthemata	Common Wave	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff

Species	Vernacular Name	Site	Grid Ref	Abundance	Date	Recorder
Cabera exanthemata	Common Wave	Kenfig Burrows	SS790805	2 adults	12/08/2025	George Tordoff
Cabera exanthemata	Common Wave	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Cabera exanthemata	Common Wave	Pembrey Burrows	SS416994	2 adults	28/07/2025	George Tordoff
Cabera exanthemata	Common Wave	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Cabera pusaria	Common White Wave	Crymlyn Bog	SS6894	1 larva	30/07/2025	George Tordoff
Cabera pusaria	Common White Wave	Kenfig Burrows	SS787809	14 adults	12/08/2025	Paul Parsons
Cabera pusaria	Common White Wave	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Calamotropha paludella	a moth	Kenfig Burrows	SS796810	1 adult	28/07/2025	George Tordoff
Callistege mi	Mother Shipton	Pembrey Burrows	SS413995	1 larva	28/07/2025	George Tordoff
Callisto denticulella	a moth	Kenfig Burrows	SS7981	1 leaf mine	01/08/2025	George Tordoff
Caloptilia rufipennella	a moth	Pant-y-Sais	SS7194	1 leaf mine	30/07/2025	George Tordoff
Caloptilia stigmatella	a moth	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Caloptilia stigmatella	a moth	Pant-y-Sais	SS7194	1 leaf mine	30/07/2025	George Tordoff
Caloptilia stigmatella	a moth	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Campaea margaritaria	Light Emerald	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Camptogramma bilineata	Yellow Shell	Merthyr Mawr Warren	SS861765	2 adults	15/08/2025	George Tordoff
Camptogramma bilineata	Yellow Shell	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Camptogramma bilineata	Yellow Shell	Merthyr Mawr Warren	SS8676	1 adult	15/08/2025	George Tordoff
Camptogramma bilineata	Yellow Shell	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Caradrina clavipalpis	Pale Mottled Willow	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Cataclysta lemnata	Small China-mark	Crymlyn Bog	SS687941	1 adult	30/07/2025	George Tordoff
Cataclysta lemnata	Small China-mark	Tennant Canal	SS7093	1 adult	30/07/2025	George Tordoff
Celypha cespitana	a moth	Pembrey Burrows	SS417993	1 adult	28/07/2025	George Tordoff
Celypha cespitana	a moth	Pembrey Burrows	SS417993	1 adult	28/07/2025	George Tordoff
Celypha cespitana	a moth	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Chloroclystis v-ata	V-Pug	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Cilix glaucata	Chinese Character	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Clostera pigra	Small Chocolate-tip	Kenfig Burrows	SS797811	1 larva	28/07/2025	George Tordoff
Clostera pigra	Small Chocolate-tip	Kenfig Burrows	SS796810	2 larvae	28/07/2025	George Tordoff
Cnephasia conspersana	a moth	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Cochylichroa atricapitana	a moth	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Coleophora lusciniaepennella	a moth	Kenfig Burrows	SS796810	1 larva	01/08/2025	George Tordoff
Coleophora taeniipennella	a moth	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Colostygia pectinataria	Green Carpet	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Colostygia pectinataria	Green Carpet	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Colostygia pectinataria	Green Carpet	Merthyr Mawr Warren	SS8676	2 adults	15/08/2025	George Tordoff
Coptotriche marginea	Bordered Carl	Kenfig Burrows	SS787809	1 adult	12/08/2025	Paul Parsons

Species	Vernacular Name	Site	Grid Ref	Abundance	Date	Recorder
Cosmorhoe ocellata	Purple Bar	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Cosmorhoe ocellata	Purple Bar	Kenfig Burrows	SS787809	1 adult	12/08/2025	Paul Parsons
Cosmorhoe ocellata	Purple Bar	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Crocallis elinguaria	Scalloped Oak	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Crocallis elinguaria	Scalloped Oak	Kenfig Burrows	SS787809	1 adult	12/08/2025	Paul Parsons
Crocallis elinguaria	Scalloped Oak	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Crocallis elinguaria	Scalloped Oak	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Cupido minimus	Small Blue	Kenfig Burrows	SS788809	1 adult	01/08/2025	George Tordoff
Deilephila elpenor	Elephant Hawk-moth	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Deilephila porcellus	Small Elephant Hawk-moth	Kenfig Burrows	SS787809	1 adult	12/08/2025	Paul Parsons
Delplanqueia inscriptella	a moth	Merthyr Mawr Warren	SS861765	3 adults	15/08/2025	George Tordoff
Delplanqueia inscriptella	a moth	Merthyr Mawr Warren	SS8676	2 adults	15/08/2025	George Tordoff
Deltote uncula	Silver Hook	Kenfig Burrows	SS794810	1 adult	28/07/2025	George Tordoff
Deltote uncula	Silver Hook	Kenfig Burrows	SS795810	1 larva	28/07/2025	George Tordoff
Deltote uncula	Silver Hook	Kenfig Burrows	SS792809	1 larva	01/08/2025	George Tordoff
Denticucullus pygmina	Small Wainscot	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Depressaria radiella	Parsnip Moth	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Depressaria radiella	Parsnip Moth	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Diarsia rubi	Small Square-spot	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Diasemiopsis ramburialis	a moth	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Diasemiopsis ramburialis	a moth	Merthyr Mawr Warren	SS859765	1 adult	15/08/2025	George Tordoff
Earias clorana	Cream-bordered Green Pea	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Eilema complana	Scarce Footman	Pembrey Burrows	SS413995	3 adults	28/07/2025	George Tordoff
Eilema complana	Scarce Footman	Pembrey Burrows	SS416994	5 adults	28/07/2025	George Tordoff
Eilema griseola	Dingy Footman	Kenfig Burrows	SS7981	1 adult	01/08/2025	George Tordoff
Eilema griseola	Dingy Footman	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Eilema griseola	Dingy Footman	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Eilema griseola	Dingy Footman	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Eilema griseola	Dingy Footman	Merthyr Mawr Warren	SS8777	1 adult	15/08/2025	George Tordoff
Eilema griseola	Dingy Footman	Merthyr Mawr Warren	SS8676	3 adults	15/08/2025	George Tordoff
Eilema griseola	Dingy Footman	Pant-y-Sais	SS7194	1 adult	30/07/2025	George Tordoff
Eilema griseola	Dingy Footman	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Eilema griseola	Dingy Footman	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Elachista canapennella	a moth	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Elophila nymphaeata	Brown China-mark	Kenfig Burrows	SS788809	1 adult	01/08/2025	George Tordoff
Emmelina monodactyla	Common Plume	Merthyr Mawr Warren	SS8576	1 adult	15/08/2025	George Tordoff
Endothenia marginana	a moth	Kenfig Burrows	SS7880	3 adults	12/08/2025	George Tordoff

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Endothenia marginana	a moth	Kenfig Burrows	SS790805	5 adults	12/08/2025	George Tordoff
Endothenia marginana	Bordered Marble	Kenfig Burrows	SS787809	12 adults	12/08/2025	Paul Parsons
Endothenia marginana	a moth	Merthyr Mawr Warren	SS861765	2 adults	15/08/2025	George Tordoff
Ennomos alniaria	Canary-shouldered Thorn	Kenfig Burrows	SS790805	2 adults	12/08/2025	George Tordoff
Ennomos alniaria	Canary-shouldered Thorn	Merthyr Mawr Warren	SS861765	2 adults	15/08/2025	George Tordoff
Ennomos alniaria	Canary-shouldered Thorn	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Epinotia caprana	a moth	Kenfig Burrows	SS787808	1 adult	01/08/2025	George Tordoff
Epinotia caprana	a moth	Kenfig Burrows	SS790805	5 adults	12/08/2025	George Tordoff
Epinotia caprana	Large Sallow Bell	Kenfig Burrows	SS787809	9 adults	12/08/2025	Paul Parsons
Epinotia cruciana	Willow Tortrix	Kenfig Burrows	SS795810	1 adult	28/07/2025	George Tordoff
Epinotia immundana	a moth	Crymlyn Bog	SS6894	1 adult	30/07/2025	George Tordoff
Epinotia nisella	a moth	Kenfig Burrows	SS794811	2 adults	28/07/2025	George Tordoff
Epinotia nisella	a moth	Pant-y-Sais	SS7194	2 adults	30/07/2025	George Tordoff
Epinotia trigonella	a moth	Kenfig Burrows	SS790805	2 adults	12/08/2025	George Tordoff
Epirrhoe alternata	Common Carpet	Kenfig Burrows	SS7880	2 adults	12/08/2025	George Tordoff
Epirrhoe alternata	Common Carpet	Kenfig Burrows	SS790805	3 adults	12/08/2025	George Tordoff
Epirrhoe alternata	Common Carpet	Merthyr Mawr Warren	SS861765	3 adults	15/08/2025	George Tordoff
Epirrhoe alternata	Common Carpet	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Epirrhoe alternata	Common Carpet	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Eucosma campoliliana	a moth	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Eudonia mercurella	a moth	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Eudonia mercurella	a moth	Merthyr Mawr Warren	SS8777	1 adult	15/08/2025	George Tordoff
Eudonia pallida	a moth	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Eudonia pallida	a moth	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Eulithis testata	Chevron	Kenfig Burrows	SS796810	3 adults	28/07/2025	George Tordoff
Eulithis testata	Chevron	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Eulithis testata	Chevron	Kenfig Burrows	SS790805	2 adults	12/08/2025	George Tordoff
Eulithis testata	Chevron	Kenfig Burrows	SS787809	2 adults	12/08/2025	Paul Parsons
Eulithis testata	Chevron	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Eulithis testata	Chevron	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Eulithis testata	Chevron	Pembrey Burrows	SS416994	3 adults	28/07/2025	George Tordoff
Eupithecia centaureata	Lime-speck Pug	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Eupithecia centaureata	Lime-speck Pug	Kenfig Burrows	SS790805	2 adults	12/08/2025	George Tordoff
Eupithecia centaureata	Lime-speck Pug	Kenfig Burrows	SS787809	1 adult	12/08/2025	Paul Parsons
Eupithecia centaureata	Lime-speck Pug	Merthyr Mawr Warren	SS861765	2 adults	15/08/2025	George Tordoff
Eupithecia centaureata	Lime-speck Pug	Merthyr Mawr Warren	SS861766	4 adults	15/08/2025	George Tordoff
Eupithecia centaureata	Lime-speck Pug	Merthyr Mawr Warren	SS8676	2 adults	15/08/2025	George Tordoff

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Eupithecia centaureata	Lime-speck Pug	Pembrey Burrows	SS417993	1 adult	28/07/2025	George Tordoff
Eupithecia centaureata	Lime-speck Pug	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Eupithecia icterata	Tawny Speckled Pug	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Eupithecia icterata	Tawny Speckled Pug	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Eupithecia icterata	Tawny Speckled Pug	Kenfig Burrows	SS787809	2 adults	12/08/2025	Paul Parsons
Eupithecia icterata	Tawny Speckled Pug	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Eupithecia virgaureata	Golden-rod Pug	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Eupithecia virgaureata	Golden-rod Pug	Merthyr Mawr Warren	SS8676	1 adult	15/08/2025	George Tordoff
Eupoecilia angustana	a moth	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Eupoecilia angustana	Marbled Conch	Kenfig Burrows	SS787809	1 adult	12/08/2025	Paul Parsons
Euproctis similis	Yellow-tail	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Euproctis similis	Yellow-tail	Pembrey Burrows	SS416994	2 adults	28/07/2025	George Tordoff
Euthrix potatoria	Drinker	Kenfig Burrows	SS792809	1 larva	01/08/2025	George Tordoff
Euthrix potatoria	Drinker	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Euthrix potatoria	Drinker	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Euthrix potatoria	Drinker	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Euxoa tritici	White-line Dart	Kenfig Burrows	SS7880	3 adults	12/08/2025	George Tordoff
Euxoa tritici	White-line Dart	Kenfig Burrows	SS790805	5 adults	12/08/2025	George Tordoff
Euxoa tritici	White-line Dart	Kenfig Burrows	SS787809	6 adults	12/08/2025	Paul Parsons
Euxoa tritici	White-line Dart	Merthyr Mawr Warren	SS861765	2 adults	15/08/2025	George Tordoff
Euxoa tritici	White-line Dart	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Euxoa tritici	White-line Dart	Merthyr Mawr Warren	SS8676	1 adult	15/08/2025	George Tordoff
Euxoa tritici	White-line Dart	Pembrey Burrows	SS416994	5 adults	28/07/2025	George Tordoff
Furcula furcula	Sallow Kitten	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Furcula furcula	Sallow Kitten	Kenfig Burrows	SS787809	4 adults	12/08/2025	Paul Parsons
Gracillaria syringella	a moth	Kenfig Burrows	SS794811	1 adult	28/07/2025	George Tordoff
Grapholita janthinana	a moth	Kenfig Burrows	SS787808	1 adult	01/08/2025	George Tordoff
Gymnoscelis rufifasciata	Double-striped Pug	Kenfig Burrows	SS790805	2 adults	12/08/2025	George Tordoff
Gymnoscelis rufifasciata	Double-striped Pug	Kenfig Burrows	SS787809	3 adults	12/08/2025	Paul Parsons
Gymnoscelis rufifasciata	Double-striped Pug	Merthyr Mawr Warren	SS861765	2 adults	15/08/2025	George Tordoff
Gymnoscelis rufifasciata	Double-striped Pug	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Gymnoscelis rufifasciata	Double-striped Pug	Merthyr Mawr Warren	SS8777	1 adult	15/08/2025	George Tordoff
Heliothis peltigera	Bordered Straw	Merthyr Mawr Warren	SS8676	1 adult	15/08/2025	George Tordoff
Hoplodrina ambigua	Vine's Rustic	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Hoplodrina blanda	Rustic	Pembrey Burrows	SS416994	2 adults	28/07/2025	George Tordoff
Hydraecia micacea	Rosy Rustic	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Hydriomena furcata	July Highflyer	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff

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Idaea biselata	Small Fan-footed Wave	Kenfig Burrows	SS794812	1 adult	28/07/2025	George Tordoff
Idaea biselata	Small Fan-footed Wave	Kenfig Burrows	SS790805	3 adults	12/08/2025	George Tordoff
Idaea biselata	Small Fan-footed Wave	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Idaea dimidiata	Single-dotted Wave	Merthyr Mawr Warren	SS8676	1 adult	15/08/2025	George Tordoff
Idaea dimidiata	Single-dotted Wave	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Ipimorpha retusa	Double Kidney	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Lacanobia suasa	Dog's Tooth	Pembrey Burrows	SS416994	7 adults	28/07/2025	George Tordoff
Lacanobia suasa	Dog's Tooth	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Lacanobia suasa	Dog's Tooth	Pembrey Burrows	SS417993	3 adults	28/07/2025	George Tordoff
Laothoe populi	Poplar Hawk-moth	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Laothoe populi	Poplar Hawk-moth	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Laothoe populi	Poplar Hawk-moth	Kenfig Burrows	SS787809	1 adult	12/08/2025	Paul Parsons
Laothoe populi	Poplar Hawk-moth	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Lasiocampa quercus	Oak Eggar	Kenfig Burrows	SS792809	1 adult	01/08/2025	George Tordoff
Lasiocampa quercus	Oak Eggar	Kenfig Burrows	SS790805	3 adults	12/08/2025	George Tordoff
Lasiocampa quercus	Oak Eggar	Kenfig Burrows	SS787809	5 adults	12/08/2025	Paul Parsons
Lasiocampa quercus	Oak Eggar	Pant-y-Sais	SS7194	1 adult	30/07/2025	George Tordoff
Lasiocampa quercus	Oak Eggar	Pembrey Burrows	SS413995	2 adults	28/07/2025	George Tordoff
Lasiocampa quercus	Oak Eggar	Pembrey Burrows	SS416994	2 adults	28/07/2025	George Tordoff
Lasiommata megera	Wall	Kenfig Burrows	SS794811	1 adult	28/07/2025	George Tordoff
Lasiommata megera	Wall	Kenfig Burrows	SS792803	1 adult	01/08/2025	George Tordoff
Litoligia literosa	Rosy Minor	Kenfig Burrows	SS790805	2 adults	12/08/2025	George Tordoff
Litoligia literosa	Rosy Minor	Kenfig Burrows	SS787809	1 adult	12/08/2025	Paul Parsons
Litoligia literosa	Rosy Minor	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Litoligia literosa	Rosy Minor	Pembrey Burrows	SS417993	1 adult	28/07/2025	George Tordoff
Lomaspilis marginata	Clouded Border	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Lymantria monacha	Black Arches	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Macaria alternata	Sharp-angled Peacock	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Macaria alternata	Sharp-angled Peacock	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Macaria alternata	Sharp-angled Peacock	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Macaria alternata	Sharp-angled Peacock	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Macroglossum stellatarum	Humming-bird Hawk-moth	Kenfig Burrows	SS796810	1 adult	28/07/2025	George Tordoff
Macrothylacia rubi	Fox Moth	Kenfig Burrows	SS7981	1 larva	01/08/2025	George Tordoff
Maniola jurtina	Meadow Brown	Kenfig Burrows	SS796810	2 adults	28/07/2025	George Tordoff
Meganola albula	Kent Black Arches	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Mesapamea secalis agg.	Common/Lesser Common Rustic agg.	Pembrey Burrows	SS416994	2 adults	28/07/2025	George Tordoff
Mesoligia furuncula	Cloaked Minor	Kenfig Burrows	SS790805	2 adults	12/08/2025	George Tordoff

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Mesoligia furuncula	Cloaked Minor	Kenfig Burrows	SS787809	2 adults	12/08/2025	Paul Parsons
Miltochrista miniata	Rosy Footman	Kenfig Burrows	SS7981	1 adult	01/08/2025	George Tordoff
Miltochrista miniata	Rosy Footman	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Mythimna conigera	Brown-line Bright-eye	Pembrey Burrows	SS416994	7 adults	28/07/2025	George Tordoff
Mythimna impura	Smoky Wainscot	Pembrey Burrows	SS413995	5 adults	28/07/2025	George Tordoff
Mythimna impura	Smoky Wainscot	Pembrey Burrows	SS416994	7 adults	28/07/2025	George Tordoff
Mythimna l-album	L-album Wainscot	Merthyr Mawr Warren	SS8777	1 adult	15/08/2025	George Tordoff
Mythimna pallens	Common Wainscot	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Mythimna pallens	Common Wainscot	Kenfig Burrows	SS787809	1 adult	12/08/2025	Paul Parsons
Mythimna pallens	Common Wainscot	Merthyr Mawr Warren	SS861765	3 adults	15/08/2025	George Tordoff
Neocochylis molliculana	a moth	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Noctua comes	Lesser Yellow Underwing	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Noctua comes	Lesser Yellow Underwing	Kenfig Burrows	SS787809	4 adults	12/08/2025	Paul Parsons
Noctua comes	Lesser Yellow Underwing	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Noctua comes	Lesser Yellow Underwing	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Noctua interjecta	Least Yellow Underwing	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Noctua interjecta	Least Yellow Underwing	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Noctua interjecta	Least Yellow Underwing	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Noctua interjecta	Least Yellow Underwing	Pembrey Burrows	SS417993	1 adult	28/07/2025	George Tordoff
Noctua janthe	Lesser Broad-bordered Yellow Underwing	Kenfig Burrows	SS7880	2 adults	12/08/2025	George Tordoff
Noctua janthe	Lesser Broad-bordered Yellow Underwing	Merthyr Mawr Warren	SS861766	3 adults	15/08/2025	George Tordoff
Noctua janthe	Lesser Broad-bordered Yellow Underwing	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Noctua janthe	Lesser Broad-bordered Yellow Underwing	Pembrey Burrows	SS416994	5 adults	28/07/2025	George Tordoff
Noctua pronuba	Large Yellow Underwing	Kenfig Burrows	SS790805	5 adults	12/08/2025	George Tordoff
Noctua pronuba	Large Yellow Underwing	Merthyr Mawr Warren	SS861765	2 adults	15/08/2025	George Tordoff
Noctua pronuba	Large Yellow Underwing	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Noctua pronuba	Large Yellow Underwing	Pembrey Burrows	SS416994	3 adults	28/07/2025	George Tordoff
Noctua pronuba	Large Yellow Underwing	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Noctua pronuba	Large Yellow Underwing	Pembrey Burrows	SS417993	1 adult	28/07/2025	George Tordoff
Nomophila noctuella	Rush Veneer	Kenfig Burrows	SS798813	1 adult	28/07/2025	George Tordoff
Nomophila noctuella	Rush Veneer	Kenfig Burrows	SS7981	2 adults	01/08/2025	George Tordoff
Nomophila noctuella	Rush Veneer	Kenfig Burrows	SS792803	1 adult	01/08/2025	George Tordoff
Nomophila noctuella	Rush Veneer	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Nomophila noctuella	Rush Veneer	Merthyr Mawr Warren	SS8676	2 adults	15/08/2025	George Tordoff
Nomophila noctuella	Rush Veneer	Pant-y-Sais	SS7194	1 adult	30/07/2025	George Tordoff
Nomophila noctuella	Rush Veneer	Pembrey Burrows	SS416994	2 adults	28/07/2025	George Tordoff
Nomophila noctuella	Rush Veneer	Pembrey Burrows	SS417993	1 adult	28/07/2025	George Tordoff

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Notocelia incarnatana	a moth	Kenfig Burrows	SS788809	1 adult	01/08/2025	George Tordoff
Notocelia incarnatana	a moth	Kenfig Burrows	SS790805	70 adults	12/08/2025	George Tordoff
Notocelia incarnatana	Chalk Rose Bell	Kenfig Burrows	SS787809	22 adults	12/08/2025	Paul Parsons
Notocelia incarnatana	a moth	Merthyr Mawr Warren	SS861765	3 adults	15/08/2025	George Tordoff
Notocelia incarnatana	a moth	Merthyr Mawr Warren	SS861766	5 adults	15/08/2025	George Tordoff
Notocelia incarnatana	a moth	Merthyr Mawr Warren	SS8676	1 adult	15/08/2025	George Tordoff
Notocelia incarnatana	a moth	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Notocelia incarnatana	a moth	Pembrey Burrows	SS413995	2 adults	28/07/2025	George Tordoff
Notocelia incarnatana	a moth	Pembrey Burrows	SS416994	3 adults	28/07/2025	George Tordoff
Notocelia incarnatana	a moth	Pembrey Burrows	SS417993	1 adult	28/07/2025	George Tordoff
Notocelia uddmanniana	Bramble Shoot Moth	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Notodonta dromedarius	Iron Prominent	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Notodonta dromedarius	Iron Prominent	Kenfig Burrows	SS787809	2 adults	12/08/2025	Paul Parsons
Notodonta dromedarius	Iron Prominent	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Notodonta dromedarius	Iron Prominent	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Notodonta ziczac	Pebble Prominent	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Ochropleura plecta	Flame Shoulder	Kenfig Burrows	SS7880	5 adults	12/08/2025	George Tordoff
Ochropleura plecta	Flame Shoulder	Kenfig Burrows	SS790805	10 adults	12/08/2025	George Tordoff
Ochropleura plecta	Flame Shoulder	Kenfig Burrows	SS787809	15 adults	12/08/2025	Paul Parsons
Ochropleura plecta	Flame Shoulder	Merthyr Mawr Warren	SS861765	2 adults	15/08/2025	George Tordoff
Ochropleura plecta	Flame Shoulder	Merthyr Mawr Warren	SS861766	3 adults	15/08/2025	George Tordoff
Ochropleura plecta	Flame Shoulder	Pembrey Burrows	SS416994	5 adults	28/07/2025	George Tordoff
Ochropleura plecta	Flame Shoulder	Pembrey Burrows	SS413995	2 adults	28/07/2025	George Tordoff
Opisthograptis luteolata	Brimstone Moth	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Opisthograptis luteolata	Brimstone Moth	Kenfig Burrows	SS787809	1 adult	12/08/2025	Paul Parsons
Opisthograptis luteolata	Brimstone Moth	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Orgyia antiqua	Vapourer	Kenfig Burrows	SS796810	1 larva	28/07/2025	George Tordoff
Orgyia antiqua	Vapourer	Kenfig Burrows	SS792803	1 larva	01/08/2025	George Tordoff
Pammene populana	a moth	Kenfig Burrows	SS795810	1 adult	28/07/2025	George Tordoff
Parapoynx stratiotata	Ringed China-mark	Kenfig Burrows	SS796817	1 adult	28/07/2025	George Tordoff
Parapoynx stratiotata	Ringed China-mark	Pembrey Burrows	SS417993	1 adult	28/07/2025	George Tordoff
Parornix devoniella	a moth	Pant-y-Sais	SS7194	1 leaf mine	30/07/2025	George Tordoff
Peribatodes rhomboidaria	Willow Beauty	Kenfig Burrows	SS790805	2 adults	12/08/2025	George Tordoff
Peribatodes rhomboidaria	Willow Beauty	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Pheosia gnoma	Lesser Swallow Prominent	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Pheosia gnoma	Lesser Swallow Prominent	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Pheosia gnoma	Lesser Swallow Prominent	Merthyr Mawr Warren	SS861766	2 adults	15/08/2025	George Tordoff

Species	Vernacular Name	Site	Grid Ref	Abundance	Date	Recorder
Phibalapteryx virgata	Oblique Striped	Pembrey Burrows	SS417993	2 adults	28/07/2025	George Tordoff
Phibalapteryx virgata	Oblique Striped	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Phibalapteryx virgata	Oblique Striped	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Phlogophora meticulosa	Angle Shades	Merthyr Mawr Warren	SS8676	1 adult	15/08/2025	George Tordoff
Phlogophora meticulosa	Angle Shades	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Phlogophora meticulosa	Angle Shades	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Phragmatobia fuliginosa	Ruby Tiger	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Phragmatobia fuliginosa	Ruby Tiger	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Phragmatobia fuliginosa	Ruby Tiger	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Phragmatobia fuliginosa	Ruby Tiger	Pembrey Burrows	SS416994	2 adults	28/07/2025	George Tordoff
Phycitodes maritima	a moth	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Phyllonorycter blancardella	a moth	Kenfig Burrows	SS7981	1 larva	01/08/2025	George Tordoff
Phyllonorycter coryli	Nut Leaf Blister Moth	Pant-y-Sais	SS7194	1 leaf mine	30/07/2025	George Tordoff
Phyllonorycter quinqueguttella	a moth	Kenfig Burrows	SS795810	1 larva	01/08/2025	George Tordoff
Phyllonorycter ulmifoliella	a moth	Kenfig Burrows	SS798818	1 larva	28/07/2025	George Tordoff
Phyllonorycter viminiella	a moth	Pant-y-Sais	SS7194	1 larva	30/07/2025	George Tordoff
Phytometra viridaria	Small Purple-barred	Kenfig Burrows	SS787809	1 adult	12/08/2025	Paul Parsons
Plusia festucae	Gold Spot	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Plusia festucae	Gold Spot	Kenfig Burrows	SS787809	3 adults	12/08/2025	Paul Parsons
Plusia festucae	Gold Spot	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Plutella xylostella	Diamond-back Moth	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Plutella xylostella	Diamond-back Moth	Pembrey Burrows	SS416994	2 adults	28/07/2025	George Tordoff
Polyommatus icarus	Common Blue	Kenfig Burrows	SS796810	2 adults	28/07/2025	George Tordoff
Polyommatus icarus	Common Blue	Kenfig Burrows	SS792803	5 adults	01/08/2025	George Tordoff
Pseudargyrotoza conwagana	a moth	Kenfig Burrows	SS794810	1 adult	01/08/2025	George Tordoff
Pterostoma palpina	Pale Prominent	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Ptocheuusa paupella	a moth	Kenfig Burrows	SS794811	1 larva	28/07/2025	George Tordoff
Ptocheuusa paupella	a moth	Kenfig Burrows	SS796810	1 adult	28/07/2025	George Tordoff
Ptocheuusa paupella	a moth	Kenfig Burrows	SS787808	1 larva	01/08/2025	George Tordoff
Ptocheuusa paupella	a moth	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Pyrausta aurata	a moth	Crymlyn Bog	SS688942	1 adult	30/07/2025	George Tordoff
Pyrausta aurata	a moth	Kenfig Burrows	SS796810	1 adult	28/07/2025	George Tordoff
Pyrausta cingulata	a moth	Kenfig Burrows	SS790805	3 adults	12/08/2025	George Tordoff
Pyrausta cingulata	a moth	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Pyrausta despicata	a moth	Kenfig Burrows	SS790805	2 adults	12/08/2025	George Tordoff
Pyrausta despicata	a moth	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Pyrausta ostrinalis	a moth	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff

Species	Vernacular Name	Site	Grid Ref	Abundance	Date	Recorder
Pyrausta ostrinalis	a moth	Merthyr Mawr Warren	SS861766	10 adults	15/08/2025	George Tordoff
Pyronia tithonus	Gatekeeper	Kenfig Burrows	SS796810	3 adults	28/07/2025	George Tordoff
Rhodometra sacraria	Vestal	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Rivula sericealis	Straw Dot	Kenfig Burrows	SS798818	1 adult	28/07/2025	George Tordoff
Rivula sericealis	Straw Dot	Kenfig Burrows	SS790805	2 adults	12/08/2025	George Tordoff
Rivula sericealis	Straw Dot	Kenfig Burrows	SS787809	1 adult	12/08/2025	Paul Parsons
Rivula sericealis	Straw Dot	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Rivula sericealis	Straw Dot	Merthyr Mawr Warren	SS8676	1 adult	15/08/2025	George Tordoff
Rivula sericealis	Straw Dot	Pant-y-Sais	SS7194	1 adult	30/07/2025	George Tordoff
Rivula sericealis	Straw Dot	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Rivula sericealis	Straw Dot	Pembrey Burrows	SS413995	1 adult	28/07/2025	George Tordoff
Scoliopteryx libatrix	Herald	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Scotopteryx chenopodiata	Shaded Broad-bar	Kenfig Burrows	SS799819	1 adult	28/07/2025	George Tordoff
Scotopteryx chenopodiata	Shaded Broad-bar	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Scotopteryx chenopodiata	Shaded Broad-bar	Kenfig Burrows	SS790805	2 adults	12/08/2025	George Tordoff
Scotopteryx chenopodiata	Shaded Broad-bar	Kenfig Burrows	SS787809	3 adults	12/08/2025	Paul Parsons
Scotopteryx chenopodiata	Shaded Broad-bar	Merthyr Mawr Warren	SS8676	1 adult	15/08/2025	George Tordoff
Spodoptera exigua	Small Mottled Willow	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Spodoptera exigua	Small Mottled Willow	Kenfig Burrows	SS787809	3 adults	12/08/2025	Paul Parsons
Stenoptilia zophodactylus	Dowdy Plume	Pembrey Burrows	SS416994	2 adults	28/07/2025	George Tordoff
Stigmella aeneofasciella	a moth	Kenfig Burrows	SS793810	1 leaf mine	01/08/2025	George Tordoff
Stigmella aeneofasciella	a moth	Kenfig Burrows	SS796810	6 leaf mines	01/08/2025	George Tordoff
Stigmella betulicola	a moth	Pant-y-Sais	SS7194	1 leaf mine	30/07/2025	George Tordoff
Stigmella microtheriella	a moth	Pant-y-Sais	SS7194	1 leaf mine	30/07/2025	George Tordoff
Stigmella sakhalinella	a moth	Kenfig Burrows	SS794810	1 leaf mine	01/08/2025	George Tordoff
Stigmella salicis	a moth	Kenfig Burrows	SS7981	1 leaf mine	01/08/2025	George Tordoff
Stigmella salicis	a moth	Pant-y-Sais	SS7194	3 leaf mines	30/07/2025	George Tordoff
Stigmella speciosa	a moth	Pant-y-Sais	SS7194	1 leaf mine	30/07/2025	George Tordoff
Stigmella spinosissimae	a moth	Kenfig Burrows	SS799807	4 adults	01/08/2025	George Tordoff
Thalpophila matura	Straw Underwing	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Thalpophila matura	Straw Underwing	Kenfig Burrows	SS7880	1 adult	12/08/2025	George Tordoff
Thalpophila matura	Straw Underwing	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Thalpophila matura	Straw Underwing	Kenfig Burrows	SS787809	6 adults	12/08/2025	Paul Parsons
Thalpophila matura	Straw Underwing	Merthyr Mawr Warren	SS861765	1 adult	15/08/2025	George Tordoff
Thera britannica	Spruce Carpet	Merthyr Mawr Warren	SS8777	1 adult	15/08/2025	George Tordoff
Timandra comae	Blood-Vein	Kenfig Burrows	SS796810	1 adult	28/07/2025	George Tordoff
Timandra comae	Blood-Vein	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff

Species	Vernacular Name	Site	Grid Ref	Abundance	Date	Recorder
Udea ferrugalis	Rusty-dot Pearl	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Udea ferrugalis	Rusty Dot	Kenfig Burrows	SS787809	3 adults	12/08/2025	Paul Parsons
Udea ferrugalis	Rusty-dot Pearl	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Udea ferrugalis	Rusty-dot Pearl	Merthyr Mawr Warren	SS8676	7 adults	15/08/2025	George Tordoff
Udea ferrugalis	Rusty-dot Pearl	Merthyr Mawr Warren	SS8777	1 adult	15/08/2025	George Tordoff
Udea ferrugalis	Rusty-dot Pearl	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Vanessa atalanta	Red Admiral	Kenfig Burrows	SS796810	1 adult	28/07/2025	George Tordoff
Vanessa cardui	Painted Lady	Kenfig Burrows	SS794811	1 adult	28/07/2025	George Tordoff
Xanthorhoe ferrugata	Dark-barred Twin-spot Carpet	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Xanthorhoe spadicearia	Red Twin-spot Carpet	Kenfig Burrows	SS792803	1 adult	01/08/2025	George Tordoff
Xanthorhoe spadicearia	Red Twin-spot Carpet	Kenfig Burrows	SS790805	1 adult	12/08/2025	George Tordoff
Xestia c-nigrum	Setaceous Hebrew Character	Kenfig Burrows	SS790805	3 adults	12/08/2025	George Tordoff
Xestia c-nigrum	Setaceous Hebrew Character	Kenfig Burrows	SS787809	2 adults	12/08/2025	Paul Parsons
Xestia c-nigrum	Setaceous Hebrew Character	Merthyr Mawr Warren	SS861765	5 adults	15/08/2025	George Tordoff
Xestia c-nigrum	Setaceous Hebrew Character	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Xestia c-nigrum	Setaceous Hebrew Character	Merthyr Mawr Warren	SS8576	1 adult	15/08/2025	George Tordoff
Xestia c-nigrum	Setaceous Hebrew Character	Merthyr Mawr Warren	SS8676	2 adults	15/08/2025	George Tordoff
Xestia c-nigrum	Setaceous Hebrew Character	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Xestia sexstrigata	Six-striped Rustic	Merthyr Mawr Warren	SS861766	1 adult	15/08/2025	George Tordoff
Xestia sexstrigata	Six-striped Rustic	Merthyr Mawr Warren	SS8676	7 adults	15/08/2025	George Tordoff
Xestia xanthographa	Square-spot Rustic	Merthyr Mawr Warren	SS861766	2 adults	15/08/2025	George Tordoff
Xestia xanthographa	Square-spot Rustic	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff
Yponomeuta rorrella	Willow Ermine	Pembrey Burrows	SS416994	1 adult	28/07/2025	George Tordoff

Data Archive Appendix

The data archive contains:

[A] The final report in Microsoft Word and Adobe PDF formats.

~~[B] A full set of maps produced in JPEG format.~~

~~[C] A series of GIS layers on which the maps in the report are based with a series of word documents detailing the data processing and structure of the GIS layers.~~

~~[D] A set of raster files in ESRI and ASCII grid formats.~~

~~[E] A database named [name] in Microsoft Access 2000 format with metadata described in a Microsoft Word document [name.doc].~~

~~[F] A full set of images produced in [jpg/tiff] format.~~

[G] Species records are held in the Welsh Invertebrate Database (WID).

Metadata for this project is publicly accessible through Natural Resources Wales' Library Catalogue https://libcat.naturalresources.wales (English Version) and https://catllyfr.cyfoethnaturiol.cymru (Welsh Version) by searching 'Dataset Titles'. The metadata is held as record no. **NRW_DS161501**.

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