

**WARWICKSHIRE BRANCH
MOTH EQUIPMENT**

2011 - EXPECT THE UNEXPECTED!



Alan Prior & Val Weston

**Photographs by Anna Ryder
Cover Photograph by Alan Prior**



2289 Knot Grass



2273 Pink-barred Sallow



2031 White Satin



1637 Oak Eggar



1920 Scalloped Hazel



1790 Tissue



1742 Yellow Shell

Introduction

First could we send our apologies to those of you who had to pay to receive last year's copy. The Post Office decided to be typically unhelpful by giving us wrong information, which led to inconsistent deliveries worldwide! We'll say sorry on their behalf, as they never will! We would also like to thank Paul Waring for his flattering review of our adventures and hope the newly formatted 'moth nights' section meets with his approval.

So to 2011 and a very weird year of weather. In our area of the West Midlands it was consistently dry and any rain that did fall seemed to rebound off the ground. The early year warmth led to moth emergence dates setting records by being found on average three weeks earlier than normal. This unpredictability continued throughout 2011 and we never knew what to expect when looking through our traps. It proved to be a fascinating year because of that and so 'Expect the Unexpected' when reading our account! Enjoy.

February

If you are a regular reader there are no prizes for guessing the first trip of the year was to Chaddesley Wood. We left home with the wind howling viciously and hoped that Chaddesley would work its magic. Thankfully we arrived at the gate and found barely a breath of wind there. With the temperature being reasonable we became quite hopeful. We were joined by Martin Kennard and John Finlay who were also wishing the big 'switch on' would be successful after the winter break. All was well and we retired to the 'tea shop' to watch the first moths arrive. Another welcome arrival was Rose Needham brandishing some stock for the aforementioned 'tea shop' and a currant bush for our garden. It seemed the moths had been waiting for this night as they poured into the traps relentlessly. We also had one final visitor as Dave Grundy popped in after mothing at a different site with Patrick Clement. What made him think we would still be there? Our reputation obviously precedes us! With the sheer number of moths still arriving we decided to start counting earlier than normal and a couple of hours later we'd finished. We amassed some impressive totals with ***Tortricodes alternella*** being the most numerous at 1,248, it was closely followed by **Spring Usher** (854) and **Pale Brindled Beauty** was a distant third (121). The most pleasing though was the 14 **Early Moths** recorded, almost all of which were at actinic lights. Over 2,300 moths of sixteen species were recorded and that got the year off to a great, if slightly exhausting, start.

Martin had taken on the responsibility for trying to get the pitiful historical list for Hay Wood, Rowington to somewhere near respectability. It hasn't got a reputation for stunning butterflies and its only 'claim to fame' is that it was the last Warwickshire site that **Argent & Sable** was recorded (2006). Our first visit got off to a stuttering start as one of the gates had been vandalised which meant we couldn't trap where we'd intended. After John had arrived we all decided to park in the old car park and then we determinedly carried the equipment to a better spot to give it a go. It was cloudy and mild and after one bad shower things improved and we had a reasonable night. Thirteen species were recorded of which eight were new for the wood. They included **March Moth** and **Dotted Border**, which should give you an indication at the lack of recording at this site, especially at either end of the year.

The last trip of a busier than normal February, was to Weston Wood. It was a late decision to go and only Martin managed to join us. It was cloudy and mild, but with the threat of rain in the air we had arrived early enough to look for the best sheltered spots to set up. Martin arrived later after work and by then we'd found some more sheltered spots to suggest to him. The expected rain did arrive and was quite heavy by the end, but the moths were kept dry by our choice of trap locations, which is more than could be said for us. We had one unusual visitor at one of Martins' traps that didn't mind the damp conditions- a Smooth Newt (*Triturus vulgaris*)! We still managed to record almost 600 moths of 24 species. **Tortricodes alternella** (186) was still going well although **Yellow Horned** (161) came a close second in quantity and **Chestnut** was third with 50. The oddest thing was that all 38 **Common Quaker** were in just one trap! It was also nice to see that **Small Brindled Beauty** was well represented with between one and six in all four traps.

March

In a repeat of the previous month the same three sites were visited in the same order! However, Chaddesley had lost a bit of its magic and the threatened miserable conditions made Alan think nobody else would show up. He of little faith was surprised as first John and then Roger Ward arrived. After a cloudy, drizzly start the skies cleared and with a cold north wind the conditions deteriorated to the miserable. With over 2,000 less moths than last month the counting proved a little less taxing! However, seventeen species were recorded with **Shoulder Stripe**, **Engrailed** and **Satellite** being amongst them. Val had missed the 'fun' of Chaddesley as she was preparing food for the Garden Moth Scheme AGM the following day. On arriving home Alan could just see her behind a mountain of loaves of bread and offered to help. It wasn't quite what he expected to be doing before heading for bed after a miserable moth night, but she was extremely grateful, as she'd have been very late arriving for the meeting had she done them on her own.

A return to Hay Wood with Martin was next and we were pleased to find the gate had been fixed and we could gain proper entry. Anna Ryder also joined us for the first time this year. Conditions were a little better than at Chaddesley, but not much. Our strangest visitors tonight were a scout troop with their leaders on 'night maneuvers'! We weren't sure who was the most surprised, us or them coming across the wood all lit up! Overall we did fairly well with 24 species being recorded with eight of them being new for the site. **Semioscopis avellanella**, **Early Tooth-striped** and **Lead-coloured Drab** were three of them. We also managed to record the first **Small Brindled Beauty** at the wood since 1900 (no we don't mean 7 o'clock)!

Val missed out on the final trip of the month due to work. Good conditions met Alan's arrival at Weston Wood and he soon got to work setting up. The bobbing white tail of a Muntjac was seen disappearing as the final trap was put up. There was just time to switch everything on before Alan wandered down to the gate to let John in. There were quite a few moths flying in the headlights on the drive back from the gate and they arrived to find the traps had been steadily filling up. It was a very busy night until around 11 p.m. when the cloud disappeared and the temperature plummeted to 2°C. It took quite a while to tally everything and the result was over 1,500 moths of 31 species recorded. Two of them were new for the site and they were ***Pammene giganteana*** and **Dotted Chestnut**. The most numerous were **Small Quaker** (629) and **Common Quaker** (521) with **Clouded Drab** (75) coming in third.

April

We arrived five minutes late at Chaddesley Wood and were greeted with a queue to get in! Roger, John and Martin were so eager that Alan decided to drive straight up to the shed leaving Val on gate duty to see if anyone would be later than us. She was pleased when Hilary and Geoff Harvey appeared, as we hadn't seen them for ages. The traps were spread all over the hill tonight and several relaxed tours of the traps were made. The count steadily built to almost 800 moths of 31 species. The ***Eriocranias*** were around with ***subpurpurella***, ***salopiella***, ***sangii*** and ***semipurpurella*** all being found. The most pleasing macros were two **Blossom Underwing**, as they were the first recorded in the wood since 2005. **Frosted Green**, **Brindled Pug** and **Hebrew Character** were also found in good numbers. Val was the only one to witness the strangest 'shooting star' she'd ever seen, as a slow moving orange fireball with sparks flying off it drifted across the clear sky before 'going out!' Enquiries were made but she's never found out what it was (answers on a postcard!). A return to Hay Wood was next with Martin and John. It was an enjoyable night with a manageable amount of moths although there was quite a distance between the two trapping areas. Just fewer than 1,000 moths of 37 species were recorded with seven being new for the site. The highlight was probably ***Acleris logiana***, which was a second county record and at a different site to the first that we found last year. Other new species for the site included ***Semioscopis steinkellneriana***, **Twenty-plume Moth**, **Lunar Marbled Brown** and **Early Grey**.

A couple of days later Alan took a trip over to Ryton Meadows where he found it quite 'blow' by the gate so decided to drive up the rutted track to 'scrub hill'. It was certainly warmer up there but the usual nagging Ryton breeze was still in evidence. After leaving messages with people he decided to walk back to the gate to see if anyone else would arrive. On the way he found the ground was so dry that he could just kick the top off of the worst ruts. His efforts weren't wasted as Anna had just managed to open the gate when he got there and so he got a ride back up the hill. After the traps were set up in the best of the sheltered spots, Anna had to brew her own cuppa, as Val and the 'tea shop' weren't available. It was a slow but steady night and Anna saw some new moths, all of which had their photos taken on a regular basis. After waiting for the **Brindled Beauty** to start arriving, it was time to pack up and the final tally was 33 species with two being new for the meadows. They were **Pine Beauty** and **Blossom Underwing**. Amongst the other species found were **Streamer**, **Swallow Prominent** and **Powdered Quaker**.

A few days later Val was back on board as we had been invited down to Berkshire by Les and Martin Finch to join them at an under-recorded site called Bowdown Woods. We were made to feel very welcome on our first visit to VC 22 and were given a tour of the woods before deciding where to set the traps. The weather wasn't great but we had an enjoyable night. The highlight was probably our first visit from the police for quite a while. They had stopped a car leaving the woods and were told, "that something strange was going on with lights". Once they'd joined us and Alan showed them a **Great Prominent** they were satisfied we weren't up to anything criminal. They even asked us to stay all night as we were proving a good deterrent for the usual goings on they had to deal with! The final tally of eighteen species wasn't a disappointment as most of them were new for the site. Alan was a little disheartened by the appearance of a **Brown Silver-line** though! Some of the other species recorded were ***Diurnea fagella***, **Purple Thorn** and **Nut-tree Tussock**.

With some gaps still left from last year on the list for Bishop's Hill we made an attempt to fill some of them. Martin, John and Dave were already there when we arrived and Anna showed up just after us. The weather was somewhat mediocre and so it was a slow and steady night. It wasn't without its early problems as Martin had some trouble getting his lights to come on. As he was trapping on the far side of the hill this was more than a little inconvenient. However, eventually the problem was sorted. At the other end of the night John managed to break his bulb whilst packing up. The mothing was a success as seven more species were added to the site list amongst the 33 recorded. They included ***Parornix finitimella***, ***Pseudoswammerdamia combinella***, ***Acleris cristana***, **Brindled Pug** and **Brindled Beauty**.

Our next site was somewhere new. Keith and Heather Warmington had been asked to help survey the Lepidoptera at Alvecote Wood by owners Sarah and Steve Walters. So we all met at the wood and were given a tour round to see where we should set the traps. It was decided to hedge our bets and do two different parts to try and widen the variety. As there was only one mature birch tree Alan decided to put one trap in sight of that. The 'tea shop' was then set up and a welcome break was had. A couple of tours of the traps were made with Sarah's camera in regular action as each new species was found. Keith and Heather then decided to call it a night while we hung on for the arrival of **Brindled Beauty** and after a couple duly showed up we followed suit. We'd made a successful start to the recording of this new site with 33 species recorded. Unsurprisingly in an oak dominated wood, ***Eriocrania subpurpurella*** made up almost half the total moths found. Other species recorded included ***Pammene argyrana***, ***Depressaria daucella***, **White-pinion Spotted** and Alan was especially proud of getting **Lesser Swallow Prominent** to the trap nearest the birch tree! It was refreshing to go to a new site with such enthusiastic owners and so we thanked Sarah and Steve for their hospitality and hoped we'd have time to fit in another visit later in the year.

The following night we were making our first visit of the year to Middleton Hall. We were quite looking forward to it as we had been informed that there would be a 'paranormal evening event' on at the same time! When we arrived we were disappointed to find out from caretaker Bob that it had been cancelled. We wondered if they'd had a premonition that all of us mothers wandering around all night would probably be the most 'paranormal' thing they would have ever come across and (quite rightly!) got too scared to turn up! It was such a lovely night that all the spooks had probably gone on holiday anyway! There was a good turn out tonight as Keith, Heather, Martin, Roger, Anna, John and ourselves being joined by John Bates. Hilary and Geoff also made the effort but didn't run a trap. Sam and Sean Maybury were our other special guests and had come all the way from Stafford to see some moths other than their garden species. Caretaker Bob gave us another 'ticking off' for not going often enough before he left us to it. It was the usual enjoyable social night with Sam and Sean not disappointed by the moths. It proved to be a spectacular night with an amazing 82 species being recorded. Even more surprising was that even though we'd been visiting this site since 2005 we managed to get ten new species for the list. They included ***Phyllonorycter salictella***, ***Elachista apicipunctella***, ***Grapholita jungiella***, **Orange Footman** and **Grey Shoulder-knot**. But the most surprising of all was a **Blossom Underwing**. It certainly appeared different to the ones we'd already seen this year and think it was probably a migrant, as there is no suitable habitat anywhere close to the hall. The first proper all-nighter of the year saw us locking up and heading for home at 5:30 a.m.

The final trip of the month was a return visit to Weston Wood on Easter Sunday. Jason Hawkes joined us, eventually. He'd managed to find the wrong gate to wait at and when he realised came to find the right one. It was his first visit and it's not like we've ever done anything like that! It was a nice relaxed night with plenty of catch up chat and touring the three traps. When Jason was ready to leave we counted one trap and while Val was packing it up, Alan let Jason out of the gate. It was a 4. a.m. finish after a successful visit with a total of 57 species being recorded. The four new for the site were ***Phyllonorycter harrisella***, ***Cochylis nana***, **Twenty-plume Moth** and **Alder Moth**.

May

First trip of the month was another visit to Hay Wood with Martin, Dave, Anna and Roger. We were able to cover a large area of the wood with the eleven traps and so it was going to be quite a trek getting round them all. Anna was trying out a generator that she'd borrowed and that provided some problems to start with but it eventually settled down. Whilst Dave was setting up, Alan wandered up to see how he was doing and spotted a bird sitting at the top of a pine tree. Thankfully Dave was able to identify it as a Crossbill. That got things off to a good start. The weather was excellent for mothing, mild, humid and we also noticed a distant lightning display just as the traps went on. The 'tea shop' received some more donations tonight and became a base for quite a while.

Somebody finally looked at a watch and discovered it was 1 a.m. so we thought we'd better go round the traps before it was daylight! There were so many moths that it was a slow trip and we'd just got to one of Martins' when there was a huge crack of lightning followed by a deafening thunderbolt. Alan was the only one to see the lightning and was ready for the thunder but the rest jumped higher than you'd think possible! A strong wind started to blow just before a torrential downpour sent everyone scuttling to put umbrellas over traps and take shelter in cars. We were grateful it was a short storm and it was decided to start counting straight after it had passed. At the end everyone had something new to show off and the final total of 138 species was superb. An impressive 40 species were newly recorded for the site and included ***Phyllonorycter emerizaepennella*, *Pseudatemelia flavifrontella*, *Ancylis upupana*, *Pseudococcyx posticana*, *Cydia cosmophorana* and *Cydia coniferana*** amongst the micros. **Pale Oak Beauty, Square Spot, Pine Hawk-moth** and **Puss Moth** were some of the macros.

The following night Martin, John and us were out again for the monthly visit to Chaddesley Wood. Steve Chappell who had made his way up from Gloucestershire in the hope of seeing a **Great Prominent** also joined us. Mervyn and Rose had come bearing gifts as usual. After we'd set up, Val walked back to the gate to let in Pete Burke. He was a 'newbie' to mothing and had some enthusiastic daughters he was supposed to bring. However, he thought that as it was a wet night he'd come alone to see if the event was still on (he knows us better now!). Most of the night was spent sheltering under the shed roof and depleting the 'tea shop' stocks. We did make one tour around the traps before Mervyn, Rose and Pete left us all to count up. Despite the sometimes-heavy rain, over 100 species were recorded and Steve was happy he'd seen his target and much more. The top three were Alan's' favourite (NOT!) **Brown Silver-line** (222), **Orange Footman** (111) and a surprise third place went to **White-pinion Spotted** (70). It was just getting light as we set off for home, however, we wouldn't reach it for another couple of hours! On our way back something wasn't right and Alan suddenly said " I am not driving this car any further"! So we finally arrived home on the back of a breakdown truck!

Having had the car repaired and told that we were "lucky to be alive" as the problem was far worse than we'd thought, the last thing we needed was for a warning light to come on just as we set off for Weston Wood. So it was back home to make a few calls to find out what this light meant. Having listened to other people's experiences we decided to make the journey anyway as it was more than likely a faulty sensor and nothing mechanical. We were extremely grateful that Martin had been able to open the gate and start setting up. We arrived to find Roger and Stephen Trinder waiting to plug into our generator. After all the stress, Alan decided we'd run one trap just to keep the others company! The 'tea shop' was certainly needed as a calming measure tonight and the strange filling for the sandwiches of peanut butter; corned beef and tomato lightened the mood quite nicely! Amazingly they were all gone by the end of the night too! The weather took a turn for the worse as it got very cold and it was decided to count the few moths we had in the traps.

A low total of 44 species were recorded, but they did include five new for the site. One on them, **Pauper Pug**, was also new for Warwickshire.

It just goes to show you that even on the most unpromising of nights something unexpected is likely to show up. The other new species were **Deltaornix torquillela**, **Lobesia reliquana**, **Little Emerald** and **May Highflyer**. It was a big relief to arrive home safely without the aid of a truck!

With the car fixed again, it was back to Middleton Hall to catch moths to show off at the annual Bird Fair tomorrow. As we arrived we saw caretaker Bob opening up for us. Val stopped for a chat with him while Alan got busy greeting everyone as they showed up. Again it was a good turn out with Martin, John, Anna, Keith, Heather and Stephen Trinder all running traps. Hilary, Geoff, John Bates and John Hoyle all came to join in the social aspect of the night and see some moths! So the palatial canteen was pretty full tonight, especially as it was clear and cold outside! Even so there were some nice moths arriving at the traps that would go down well with the public tomorrow. Having less than 200 moths in the nine traps made counting them a relatively easy affair. Labeling the pots for tomorrow took a while longer! That we managed to record 62 species on such a cold night says more about the diversity of the site than anything else. We even managed to get a few new ones for Middleton. Thankfully there would be both **Lime** and **Poplar Hawk-moths** to show off as well as **Green Silver-lines** and **Gold Spot**. It was just after 4:30 a.m. when we set off for home so Val could get a couple of hours sleep before going back to the Hall.

It was a trip down the M5 next as we went to Ryall's Cottage in Gloucestershire. Roger had beaten us there, as he hadn't had to deal with as much of the Bank Holiday traffic as us. Steve Chappell was there to greet us as he was housesitting for our usual hosts Richard and Ennis. It was an extremely windy night and so after setting up the traps we spent most of the time relaxing in the cottage. When we did finally venture out, we found less moths in the traps than usual at this site due to the wind. However, we still managed a respectable 83 species. The highlights were probably **Grapholita lobarzewskii** and a few of the unusual *f. obscura* of **Treble Lines**, which is very striking. Some of the other species recorded were **Epinotia bilunana**, **Udea olivalis**, **Barred Straw**, **Scorched Wing** and **Dog's Tooth**.

The month ended as it had began with a trip to Hay Wood. Val was too exhausted to make it after helping at the Ryton Meadows Open Day. However, Martin and Alan were joined by Stephen Trinder and the seemingly 'long lost' Nigel Stone. It was a breezy but mild night with occasional light rain. Hay Wood was certainly gaining in reputation, as even on a less than good night it was producing plenty of quality moths. Due to the quantity it was only possible to do one full round of the traps before tally time. The result was over 1,400 moths of 131 species with 32 of them being new for the site. Amongst them were **Argyresthia sorbiella**, **Cedestis subfasciella**, **Spatalistis bifasciana**, **Poplar Lutestring**, **Red-necked Footman** and **Marbled White-spot**.

June

A hectic start to the month began with a surprise visit to Ryton Meadows. It was a surprise as Alan had gone while Val was out for dinner with friends! The usual conditions for Ryton (clear sky with nagging breeze) were found on his arrival. So a venture up 'scrub hill' was called for to get the best shelter and warmth from Ryton Wood. It turned into quite a busy night and the moths took a couple of hours to count. The result was 104 species recorded with five new for the meadows. They were ***Teleiodes luculella***, ***Capua vulgana***, ***Epinotia demarniana***, **Broad-barred White** and **Clouded Brindle**.

The following night Val did make it out with Alan for a long overdue visit to Crown East Wood. There was a slight breeze so we set the traps on the top track of the wood to keep out of the worst of it. Just as everything was set up and we were waiting for it to get dark, Richard Moore arrived to join us. His wife Carol decided against coming as she'd had a late night yesterday. Whilst Val was having a cuppa, Alan pointed out that there was a large bull in the field we were parked in. That caused an interesting expression to appear on her face! Both Richard and us were pleased that neither of our cars were red in colour and luckily it didn't bother us all night! The mothing turned out to be the best we'd had at Crown East in quite a while and Richard was glad he came as he saw lots of species he hadn't seen before. He managed to extend his proposed leaving time a bit so he could see some more to make Carol jealous! Mike, the badger man, also paid us a visit as he was staying in the hide tonight. By the time we left the wood to Mike and the badgers we'd counted just short of 1,000 moths of 94 species with eleven being new for Crown East. Amongst them were ***Coleophora peribenanderi***, ***Mompha ochraceella***, **Lesser Wax Moth**, **Grass Rivulet** and **Green Arches**.

A hat trick of nights out was completed by the monthly visit to Chaddesley Wood. As it had been a dry week beforehand it was decided to set the traps up in Black Meadow. So Roger, Anna, Martin and Stephen Trinder all put one trap in the meadow. Mervyn and Rose had brought a trolley so that getting the equipment up the meadow was a lot easier. As well as having a trap in the meadow, we decided to run one in the wood so there would be some light around the 'tea shop'. Pete Burke, this time with wife Belinda and daughters Lucy and Emily also joined us. There is a small conflict in this household, as Lucy loves moths and Emily bats! Unfortunately, they were both tired before they wanted to be and didn't see as many moths as we'd have liked before they were taken home. The rest of us stuck it out for a few more hours until tally time. It was then that it started to drizzle. Thankfully it stayed like that until most of the equipment was back out of the meadow and packed away. That left our trap in the wood and then the rain started properly. With everyone else finished, Alan was extremely grateful that it turned into a communal count up as the moths were tallied. The help was especially appreciated, as there was over 400 **Green Oak Tortrix** in that trap! It was teamwork at its best! When all was completed over 1,600 moths' of 117 species had been recorded with three being new for Chaddesley. Alan's highlight was provided by Martin who found a dead **Mother Shipton** in a spider's web.

As he doesn't do days and the species doesn't appear to come to light, that was the first time he'd seen one! We didn't quite get to the astonishing tally of **Lobster Moths** we had last year, but 65 was still pretty respectable. New for the site were *Nematopogon metaxella*, *Endothenia nigricostana* and surprisingly, **Large Nutmeg**.

It was a week later when Alan headed down to Essex for his annual visit. It was a dangerous journey due to heavy rain and crosswinds but he arrived safely. The catch from last night was checked in the Heath trap that his Mum had put on, before it was put back out in the wind again! Little of note appeared on that first night due to the wind and intermittent rain. The second night was a completely different story. The biggest species count he'd ever had provided some hard work and a lot of time trying to identify unfamiliar species. One in particular took some finding, which proved a little frustrating as it was so distinctive. Finally it was found and named as *Evergestis limbata* and was a supposed rare migrant. That was just one of five new species for Alan that night. The others were *Luquetia lobella*, *Bryotropha similis*, the superb *Trachycera marmorea* and **Dwarf Cream Wave**. After such a long night he could have done with a break, but jobs had to be done. Night three was no less taxing as there may have been less species, but there were more moths to count than the night before. Another *Evergestis limbata* arrived (it was definitely a second as the first was still in the fridge awaiting a photo opportunity!). On enquiring about this species Alan was told there was a possibility that there was a colony of the moth close by and that may be where they had originated so it was seen as good news that they were mobile and maybe about to spread out. Other species of note that night included *Phtheochroa rugosana* (just because it's a weird looking moth), *Celypha rosaceana*, **Meal Moth** and a pristine **Broad-barred White**.

Alan was supposed to return home the following day but was too exhausted from the work for his Mum and the mothing combined that it was put back a day. It came as a relief that the last night produced only 70 species and not many more moths. It still had its highlights with *Coleophora conyzae* at the top of the list. Other highlights were provided by the always impressive **Privet Hawk-moth** and **Maple Prominent**. The final totals for the visit were 166 species recorded with 50 new for his Mums garden and five new for Alan!

There was an all to brief break for Alan on his return to the Midlands, as after one night off we were back out to Bishop's Hill with Martin, Roger and Dave. The prospect of a damp night had everybody ready with umbrellas early on but they weren't required until the early hours. When the rain did arrive it was persistent for a couple of hours before leaving a spectacular sunrise. There was quite a breeze that came with the rain and that caused more of a problem. The sun had long since risen by the time counting was finally done and over 2,000 moths (some a bit soggy) had been counted. A total of 115 species had been recorded with fourteen being new for the site. Two of those were also new for all of us and they were *Epiblema incarnatana* and *Numonia suavella*. The strangest moth was one of Dave's. It looked like some sort of Dart but had no markings whatsoever to give us a clue as to which one. Genitalia examination finally told us it was a Heart & Club and was the 661st and last of that species identified that night!

It was shown at the BENHS annual meeting in London and caused quite a stir, as nobody who saw it would have guessed the correct identification! The moth is likely to end up in Warwick Museum. Some of the new species for the site were ***Coleophora tamesis***, **Lackey**, **Poplar Kitten** and **Knot Grass**.

There were a few days break before we headed off to do our annual night at the River Arrow Local Nature Reserve due to a request of Martin German from Alcester Grammar School. As usual we had to weave our way past the tents on the playing field so we could park next to the reserve. Val had also got Steve Lane the Warwickshire Beetle Recorder to go and he was already beetling about (sorry-couldn't resist it!) with a sweep net when we arrived. Val joined the students, teachers and Steve on a tour of the reserve to search for more invertebrates. By the time they returned Alan had the traps up and running with a few of the early arrivals in pots to show them. The students then went off to their tents and Steve went home, as he wasn't feeling the best. So it was just us for a while until in the early hours we were joined by a couple of the students. Elizabeth Barry and Jay Procter didn't want to miss out on the mothing. They were fascinated and asked some good questions. We were slightly disappointed that they were more taken with a beetle *Nicrophorus humator* than the moths, but if it keeps your interest in any kind of wildlife then that can't be a bad thing. Elizabeth and Jay went back to 'camp' to wake everyone else up as it was getting light and their guide for a dawn chorus walk had arrived. We'd saved some moths to show them before they set off on their walk and we for home. It was a reasonable night with 81 species recorded and included ***Coleophora anatipennella***, ***Hedya salicella***, ***Euzophera pinguis***, **Lackey**, **Double Square-spot** and **Dingy Shears**.

We made another annual visit next, this time to Purley Quarry. Keith, Heather, Martin and Chris Johnson were the others to run traps. Steve came to record the beetles and bugs, but nobody could keep up with his pace as he raced round the site netting anything that moved and some things that didn't! As the traps were spread widely over the site we all managed only one round before Heather and Steve departed. The rest of us braved the cold until dawn. We didn't do too badly in the end with 118 species recorded with 29 being new for the site. Amongst them were ***Coleophora spinella***, ***Teleiopsis diffinis***, ***Epinotia signatana***, **Grass Emerald**, **Scalloped Hazel** and **Broom Moth**. We were all finally on our way home at 5:30 a.m. and hopefully to a warmer environment!

Val missed the last trip of the month, which was a shame as it proved to be an excellent one. Patrick Clement had asked for help to record at a new site called Avon Meadows Community Wetland near Pershore by Richard Stott. Patrick then asked if anybody wanted to join him and both Alan and Oliver Wadsworth obliged. Patrick had already set up his traps by the time Alan arrived. So Alan looked over the remaining parts of the site to see where to put his trap. As we'd had a big day out yesterday, he decided to run only one trap and Patrick kindly let him plug into his generator. Oliver decided to take the plunge and head out to the flood meadow, while Alan's final location ended up being in the scrubbiest bit of the site. The instigator of the night, Richard, joined us and a guy named Jim was the final arrival. Patrick's far trap seemed the busiest to begin with and everyone was crowded round that for quite some time.

Alan decided to have a look in the other traps and get some photos while they were busy. Jim had gone by the time to start the count had arrived. Oliver finished first as unfortunately; a slight breeze had picked up and kept the number of moths down. Alan's trap seemed almost full to overflowing and it was taking ages to do. Whilst concentrating hard, something hit him in the head and he thought it was probably some sort of hawk-moth, which is an occupational hazard! However, when he noticed this large moth had landed in the grass on the other side of the trap, he was surprised to see it was a **Garden Tiger**! With nobody else around a chase ensued until the moth was in the trap. The counting was then resumed but soon after Alan got hit again and another **Garden Tiger** had arrived! Another chase was made and the moth deposited into the trap. Richard then arrived and was shown the first Garden Tiger he'd seen since 'he was a lad'! Patrick finally finished his counting, but due to all the distractions Alan still had some way to go. When he apologised for being slow due to **Garden Tigers** distracting him, Patrick delivered the shock news that it was the only tiger species he'd never seen! However, Alan was pleased that his reputation for always catching the best moth when he was out with Patrick remained intact! The final tally for the night was 142 species and everyone saw at least one new species for themselves. Some of the highlights apart from the tigers were ***Recurvaria leucate***, ***Gynnidomorpha alismana***, ***Eana osseana***, ***Endothenia quadrimaculana***, ***Grapholita lobarzewskii***, **Bordered Beauty**, **Small Elephant Hawk-moth** and **Obscure Wainscot**. There was another surprise on the way home, as after only a couple of miles the roads were all soaking wet. Everyone had heard the regular sound of distant thunder but it never rained at the meadows. For once a lucky escape was had on a moth night!

July

The month began with one of the longest nights of the year. As we were only expecting the Gloucestershire contingent of Roger and Steve, Alan decided to try the newly laid track into part of Chaddesley previously inaccessible. The track may be only around 100 yards long but it opens up a whole new area known as Morgan's Ride. We drove straight passed Steve and he looked a bit bemused, as he was waiting at the regular meeting spot. Once we'd gained entrance to the new track, Val wandered back down the hill to tell Steve where to go and wait to tell Roger the same directions. Just as she was thinking of walking back up the hill Mervyn arrived to drop off some 'tea shop' goodies and so she got a lift instead. After a brief walk around our new location the four traps were set up. It was a very good night for mothing, cloudy and warm with not a breath of wind. We only managed one round of the traps due to the sheer volume of moths in them before it was decided to start to count up. That proved an epic task and took hours. Daylight had arrived long before we'd all finished as each trap had between 400 and 800 moths in them. The final combined total was 2,379 of 172 species with half a dozen new species for Chaddesley. They were ***Oecogonia deauratella***, ***Batrachedra praeangusta***, ***Isotrias rectifasciana***, ***Celypha striana***, **Square Spot** and **Shark**. Other highlights were **Poplar Lutestring** and **Angle-striped Sallow**.

We were certainly pleased there was only the four traps put up and that was probably one too many! However, everyone left for home around 6:30 a.m. exhausted, but happy with what we'd seen. Morgan's Ride would certainly be revisited in the future now access was possible.

A couple of days later Alan thought he'd better visit Weston Wood as he hadn't been since mid-May. After arriving he spent most of the time bracken bashing so he could put a trap in a regular productive spot. Shortly after the traps had been switched on Stephen Trinder arrived after walking up from the gate. Alan gave him the key to get in and then resumed his assault on the bracken. By the time Stephen came back Alan was ready for a break. A brief look in the traps found them heaving with moths and so a longer break was needed before settling down and looking in them properly. When it was time to start counting Stephen kindly left him to it. Three hours later Alan had finished both traps with just short of 1,000 moths counted of 128 species. He found nineteen new species for the wood, which included a second Warwickshire site for ***Monochroa cytisella*** (after the first being discovered at Hay Wood a few days before) and ***Conobathra repandana*** amongst the micros with **Golden-rod Pug, Pine Hawk-moth, Round-winged Muslin, Lunar-spotted Pinion** and **Oak Nycteoline**, some of the macros. The most memorable thing though was seeing an amazing 61 **Suspected** in all their various forms. Alan was slightly later leaving than he wanted to be but it had been a job well done.

We've seen just about every sort of weather at Norton Covert and so it came as a nice change for our annual visit that it would turn out to be an unremarkable night with just enough moths to make it enjoyable and not the slog that it proved last year. It was also Alan's birthday so it should have been fun. We were greeted as normal by Gill and Barry Hunt, who put the traditional glass of wine in Val's hand immediately, although she did put it down until after the traps were set up. Anna joined us tonight although she didn't bring any traps, which was fine and Pete, Belinda, Lucy and Emily arrived to 'help' pot the moths to show everyone. After all the guests had arrived, Gill got to work on the embarrassing part of the night by announcing whose birthday it was, getting everybody to sing and then getting Alan to blow the candle out on the cake she'd provided. Thankfully for Alan the excellent B-B-Q took everyone's attention away from birthday boy-thanks Barry! Oh yes, the moths, well we managed just short of one hundred species with seven being new for the site, they included ***Coleophora betulella*, *Helcystogramma rufescens*, Small Scallop, Marbled Beauty** and **Slender Brindle**. As always it was a thoroughly enjoyable night.

What proved to be the biggest night of the year was next as we made a return to Bishop's Hill. Les and Martin had come up from Berkshire and we were honoured by the presence of Warwickshire Macro County Recorder David Brown. Others running traps were Martin, Stephen, John and Roger, so there was nine in total set out on the hill. Pam Reason also managed to come for a look, as this was her local patch. When all the traps were up and running we thought we'd managed to block David's car in so he couldn't disappear to the pub, but we didn't bargain for Izumi Segawa arriving to give him a lift! It was a windy night and then we had the added problem of some rain, which made it difficult to keep the moths and traps dry.

In the worst of the weather, Dave Grundy was our last visitor to arrive. However, we struggled through the conditions and saw all the traps at some point during the proceedings. The rain cleared by the count up time and we were all very grateful that Dave had arrived, as he did a great job helping Stephen count his trap, which meant we could concentrate on our own. John had a bit of trouble due to this being his first night back mothing after a month away due to other commitments, but we think he did remarkably well and coped with the minimum of help! All the traps were finally counted by 5 a.m. with the impressive total of over 3,300 moths of 210 species recorded with 27 new for the site. The obvious highlight arrived right at the end when the rare migrant plume moth ***Crombruggia laetus*** was captured, which was a first county record. Other highlights were ***Acleris aspersana***, ***Eudonia pallida***, **Oak Eggar**, a pleasing 28 **Chalk Carpet**, **Dark Umber**, **Coronet** and **Small Mottled Willow**. Yet another late night/morning but when you see so many good moths in good company it's always worth the effort.

Our next trip was a return visit to Alvecote Wood. Sarah and Steve already had the gate open for our arrival, which was shortly followed by John and Keith's. John plugged in to Keith's generator, while we ventured to the edge of the wood and the new plantation overlooking the M42! Whilst setting up we discovered we'd lost the baffles on one of the traps. Sarah ingeniously came up with some hastily engineered replacements that worked a treat. John had to leave part way through the night due to work the following day, but the rest of us witnessed a spectacular sunrise as we finished counting up. Considering it had got quite cold during the night we'd done pretty well with 111 species recorded, which included a first record for Warwickshire in ***Coleophora artemisicolella***. Other highlights were ***Cochylis dubitana***, ***Evergestis pallidata***, **Drinker**, **Ruby Tiger**, **Bird's Wing** and **Blackneck**. Steve and Sarah had done well to stay awake all night and hopefully we'd made it worth their while. We were so late leaving that we decided to do some shopping on our way home!

A couple of nights later it was the annual Moth 'n' Nosh night at Windmill Hill in Nuneaton. Martin, John and Chris made it along with local moth recorder Dave Hutton. Thanks in large part to Martins famous cables we managed to cover a large area tonight without need of a generator. It was extremely windy, which certainly made a difference to the overall quantity of moths we caught, but we still managed over 100 species and that included the **Meadow Brown** that made it into our trap! With normal hosts Lloyd and Sandra having to leave early, it was Chris who took over lock up responsibilities. Due in part to that and the wind we decided to count up a little earlier than normal. It was still an enjoyable night and it was good to see some new faces as well as those that were more familiar. Some of the species that did battle their way through the wind were ***Mompha raschkiella***, ***Catoptria pinella***, **Large Emerald**, **Antler Moth** and **Straw Underwing**.

In addition Martin always puts a small actinic trap in the quarry next door and we were all very pleased he'd managed to catch his target species of **Annulet** again this year.

Next up was a visit to Bishop's Bowl Lakes thanks to Mike Slater who'd arranged it. After last year's success at this site we even managed to drag Nigel away from work and along with Martin, Keith and John he made up tonight's recorders. The trapping areas were spread far and wide and we had a huge shock when Martin announced that even his cables had run out before he got to where he wanted to go! Much laughter ensued and it was a while before we all finally recovered. As we were back on Pam's 'patch' she came with her friend Trish to see some of the moths, but as it was quite a trek to see them all they managed to only get about half way round before they headed for home. Mike also called it a night at the same time and left us all to it. During the count a thick mist came down over the lakes and it was quite eerie. It gave Val a shock when she looked up from packing up our last MV trap, as all she could see was a faint purple glow from our actinic on the other side of a lake. She carefully made her way around the water and managed to keep dry, much to her relief. Nigel was another worry, as he hadn't seen the mist arrive either and had his head buried in a trap. When he switched it off he became a bit disorientated, as he couldn't find his grey car in the mist. Thankfully he also remained dry and didn't add to his reputation of falling into places he shouldn't! By the time dawn arrived and the count finished, the mist had dispersed. Another successful night with 158 species recorded with a new Warwickshire site for **Chalk Carpet** confirmed. Other highlights were, all of us keeping dry and amongst the moths ***Aproaerema anthyllidella***, ***Cnephasia genitalana***, ***Schoenobius gigantella***, ***Sitochroa palealis*** (see cover photo), **Golden-rod Pug**, **Scorched Carpet**, **White Satin** and **Crescent**.

Well the date everyone in Warwickshire had been waiting for had finally arrived. OK, that may be a slight exaggeration, but as there was to be no official National Moth Night this year, we had decided to try and get as many people in as many different locations as possible to record Lepidoptera in the county on this date (as advertised in last year's account!). Thanks again to Mike Slater for arranging for us to record at Weethley Wood, which is part of the Ragley Estate on the Worcestershire border. We'd managed to tempt Patrick to join us and Roger completed our small but happy band. That meant that out of all the participants not one of us actually resided in Warwickshire! As Roger hadn't seen Patrick for so long, Alan jokily introduced them to each other. We had been warned that even though we had an official permit, the gate key holder was unreliable and so it wasn't much of a surprise when we had to lift everything over the gate and onto the site. Even the 'tea shop' made the trip! It was a good night for nothing that was helped by the cloud arriving with perfect timing and we expected a busy and interesting night at this rarely recorded site. We weren't disappointed, but we weren't too overwhelmed by numbers and so it was a relaxed tour around the traps with the 'tea shop' in the middle providing a convenient break. As expected, Patrick 'the lightweight' decided to leave around 2 a.m. but he had already contributed greatly to an entertaining night.

Roger and us decided on a trap by trap tally method and so by the time we'd finally got all the moths counted and the equipment back over the gate it was just before 6 a.m.! The night had produced records for 174 species with 43 new for the 10k tetrad and many more new for the site. Amongst the many highlights were ***Nemapogon ruricolella***, ***Phyllonorycter sagitella***, ***Coleophora hemerobiella***, ***Cnephasia longana***, **Maple Pug**, **Magpie Moth**, **August Thorn** and **Chocolate-tip**. Overall the 'Blitz', as it was known, was a resounding success with 29 sites producing records for around 385 species. Thanks to all who took the time and trouble.

August

Alan managed to fit in a long overdue visit to Ryton Meadows at the start of the month. Nigel came and joined him for a while but didn't run a trap. By the time one look in the two traps had taken place Nigel was ready for heading home. Alan thought that it was the sheer volume that had scared him off as the traps were heaving with life. As soon as Nigel left Alan started the count. An hour and a half later the 'emptier' trap was done. He made the decision to leave the bulb on, as he didn't fancy counting that lot again if they decided to migrate to the other trap, which was in plain sight. That seemed to work, but it was still another couple of hours before everything was done and he could make his weary journey home. It was all a bit unexpected as; in previous years trapping at the same time and place hadn't produced this many moths. The total was just short of 1,500 and there were many that 'got away' before being counted. The species count reached 144 with four being new for the meadows. The moth highlights were ***Calybites phasianipennella***, ***Elachista bisulcella***, **Tawny Speckled Pug**, **Sallow Kitten**, **Small Wainscot** and **Dusky Sallow**. The overall highlight was finding a ginormous leafhopper called *Ledra aurita*. It was a true monster of the genre!

Alan joined Martin at Hay Wood for the next trip. They decided to target as much of the heathy parts as possible to see if they could get any specialist species. Unfortunately, the two best bits are a distance apart so it was a trek between the two locations. Anna arrived later but only with a camera and sadly not a trap to bridge the gap. There were plenty of moths to keep Anna's camera busy and they included a superb pristine **Tissue**. There wasn't much in the way of the heath specialists that we'd hoped for, but we did catch ***Catoptria margaritella*** for the first time outside of Sutton Park since 1920! When it was time to count Anna wisely thought it best to head home. The last light finally went off at 4:30 a.m. with Alan struggling to name a familiar looking species. Martin had finished and wandered up and Alan was finally put out of his misery. The species in question was ***Assara terebrella***, one of which Alan had caught in Chaddesley some years back. This time it was a first county record and not a second like the one at Chaddesley. Overall the night resulted in almost 1,500 moths recorded of 139 species with 41 being new for the site. Other highlights included ***Carpatolechia alburnella***, ***Endothenia ustulana*** (first county record since 1961), **September Thorn**, **Black Arches** and **Ear Moth**.

The following night Val was back in the groove and being the first Saturday of the month Chaddesley Wood was the venue. Steve and Roger had come up from the south to join us and it was a pleasant surprise that Mervyn and Rose had time to run a trap as well. We also had some new recorders to help us, as Pete had built an impressive tri-colour actinic trap that he could run off a battery. We thought it was just as well Martin was worn out after last night and hadn't come, as he would have been decidedly jealous of this spectacular vision! We were all back in Morgan's Ride after our exhausting visit last month. Steve ventured a little further into the wood than we did last time and the rest of us were based around the 'tea shop'. We were all pleased to see moths arriving regularly at Pete's trap and the girls were busily potting everything as usual. So that can be described as a definite success. When the girls got tired the trap was counted and they set off for home. They were followed shortly afterwards by Mervyn and Rose, so it was just the 'hard core' left as normal. It was a reasonable night and nothing like last month totals was approached! We finally ended up recording 110 species with two new ones for Chaddesley. They were ***Nephoterix angustella*** and **Ear Moth**. Other highlights included finding **Devon Carpet** in yet another part of the wood, a superb *f. carbonaria* **Peppered Moth** and before Mervyn and Rose left they managed to find a very fresh **Waved Black**.

The following week it was the annual Wildlife Trust Members night at Crown East Wood. With Richard and Carol indisposed until later in the evening we were looked after well by the 'regulars'. John and Oliver joined us and our other helper was Holly Weaver. She was as keen as ever, but had to go early and couldn't wait for the traps to go on. So we set her the task of dusking and she did pretty well, adding the odd species to the list that we didn't catch later on. It was a mainly cloudy night so the Perseid Meteor shower wasn't the spectacle it could have been with only odd glimpses of 'shooting stars' through the occasional gaps in the clouds. Oliver was first to depart and then we started to count up. It had been a respectable night with 95 species recorded including three new for the wood. They were ***Coleophora hemerobiella***, ***Ancylis badiana*** and ***Clavigesta purdeyi***. Other highlights were **Pale Eggar**, **Yellow Shell** (Thanks Holly!), **Canary-shouldered Thorn** and **Dark Sword-grass**. Val and John just managed to sneak in a bacon butty for breakfast before we left.

Val was a little fortunate on our next trip as a work meeting finished early and she was able to join the latest search for **White-spotted Pinion** at Tiddesley Wood. She did have to eat her fish & chips en-route though! John and Oliver were already waiting in the car park when we arrived. We were closely followed by Tony Simpson and Mike Harper. Shortly after, we set off to put up the traps. Tony and Mike went where we went last year and Oliver bridged the gap to us and John. We were hoping for a reasonably easy night but soon after the traps went on they filled with hornets! There was no alternative but to move one of ours and John's trap away from the nest that was situated in a bird box opposite. It was a struggle but we had few problems after the big move, but we weren't as near to the patch of Elm trees as we were originally though. Steve Whitehouse had arrived at some point and set up a couple of traps towards the gate but we never did get time to see them.

Disappointment struck again as we still had no sign of our target species on a pretty good night weather wise and so there's always next year! Tony, Mike and Steve all left at the same time while we decided to take a leisurely approach to tally time. Alan let John out before counting our last trap and discovered some spooky mist surrounding him on the walk back from the gate. At least there was no water to fall into here! Almost a 1,000 moths of 138 species were recorded with nineteen new for the site. So even though we didn't see the target species it was a very productive night. The highlights were ***Epermenia falciformis***, ***Cosmiotes consortella***, ***Grapholita janthinana***, **Mocha**, **Cloaked Carpet** and **Lesser-spotted Pinion**.

A trip to Middleton Hall is always eventful and this was no different. Val had to search for caretaker Bob to open up the canteen and she found him exiting the Hall where a 'Ladies Pamper Evening' was taking place! Val decided she'd much rather be mothing! Tonight's recorders were Martin, John, Roger, John Bates and John Hoyle. So there was the usual widespread locations with traps in various habitats. It was also apple-picking time and Val spent sometime filling up bagsful from the orchard but she forgot to tell anyone else until later. Her guilt meant she went to hold a torch for others to do their own 'scrumping'! With everything up and running caretaker Bob appeared with some trays of posh nibbles left over from the 'Pamper Night'. There was much discussion about what some of them were but they all disappeared anyway! It was pretty good night weather wise and the sky was mainly cloudy until dawn. The result was over 1,600 moths recorded of 158 species with fourteen newly recorded for Middleton. Some of the new species were ***Stigmella basiguttella***, ***Isophrictis striatella***, ***Dichrorampha simpliciana***, **August Thorn** and **Brown-veined Wainscot**. It was another late finish and we were finally on our way home after locking up around 5:30 a.m.

It had been over six weeks since Alan's last visit to Weston Wood and he was pleased to find that his bracken bashing had worked and his favourite trap location was clear. So with that inspiration, after the traps were set up, he decided to clear some more. It was tough going as most of it was over head height and it also disturbed a myriad of flies which all seemed to go for the traps as soon as they were switched on. However, it did provide a banquet for the bats and Alan managed to see at least ten at one time devouring the feast. They included one that was distinctly smaller than the rest and he wondered if it was a youngster following its parent. He also witnessed plenty of moths avoiding the bats gapes on their way to the traps. All the activity was certainly a memorable sight. The moth totals were a little disappointing considering it was a pretty warm night but a final total of 66 species included ten that were new for the site. With such a high percentage it definitely made it a worthwhile trip. The new species included ***Agonopterix nervosa***, ***Catoptria falsella***, **Olive**, **Cloaked Minor** and **Flounced Rustic**. As Alan was packing up one of the traps by torchlight one of the larger bats that were around at that time of night swooped passed his nose so close that he could hear its wing beats! That was certainly unexpected and made him stand quite still for a while! Even so it was still a relatively early night as he was on his way home by 3 a.m.

Next was a frightening trip to Slimbridge WWT Centre down the M5 on a Bank Holiday Friday night. The weather was horrendous with torrential rain, thunder and lightning and adding in the incredible amount of bad drivers on the road it meant we were just glad to arrive still alive. We found Roger, Steve and Guy Meredith sheltering under the car park toilet block roof. It appeared they were standing behind a waterfall the way the rain was pouring off the roof. Guy had been at the centre all afternoon and knew where he was going to set his trap and was the first to brave the elements. Liz and Roy Radcliffe arrived and also disappeared to set up. Val then went to find our host, Pete Cranswick, so he could help with the decision making about what to do next. Roger ended up staying where he was and set his trap up where he stood, Steve put his in its usual spot as he didn't mind getting wet, Liz and Roy ended up under the Gazebo in the Conservation Garden. That just left us and we plumped for a bird aviary with a table and a roof! It was certainly a new location for our trap. After everything was up and running we awaited the rush of public to arrive for this magnificent event! It was a terrible blow for Pete when none of the booked people showed up, as we then made him give his talk and slide show anyway! His audience then consisted of the aforementioned, a girl from the Slimbridge staff and Tony, another moth recorder who hadn't brought a trap! It was a lot of fun because there were only two people allowed to answer the questions in Pete's presentation with everyone else biting their tongues. The public really don't know what they're missing if they don't show up. We all had a great time and just after we broke for refreshments Guy arrived from the back of beyond completely soaked. We had to admire his dedication and courage as he really showed us up that night as we relished the dry warmth of the lecture theatre. By this time we felt a bit guilty and so decided to venture out to the traps. We found conditions were now dry, clear and cold and Guy had had enough and gone home. It turned out to be a real shame, as in our trap we found a micro that turned out to be a county first and he'd missed it. There's no justice sometimes. It did take us quite a while to get its ID correct, but we finally all agreed on ***Tebenna micalis*** a rare migrant. It's an extremely pretty little moth with shining silver dots on its wings. It just proves the point that even on the most unpromising night an unexpected little stunner can still show up to make the effort worthwhile. Everyone then decided to count up. Liz and Roy had long departed for their camper van but said we could look in their trap and so we did that first. In the end we managed to record 53 species including that one star moth of the night. Some of the other species either brave or stupid enough to be found were **Orange Swift, Agonopterix ocellana**, a superb **Red Admiral** in Liz and Roy's trap, **Flame Carpet, White Ermine, Rosy Rustic** and **Red Underwing**. We were certainly grateful that the journey home was uneventful.

The final trip of the month wasn't nearly as far, as we went to Focus Optics near Corley for our annual session. Steve Lane was already beating bushes for bugs as we arrived. The other recorders were Keith, John, Martin, Hilary and Geoff. A nice surprise was that Tim, the owner, had invited Ros and Steve Smith from just over the border in Leicestershire. We hadn't seen them for ages and that provided an extra couple of traps as well. It was a cool, windy night with some drizzle early on which meant that getting the traps as sheltered as possible was the main concern. However, that was the worst of it and it stayed dry for most of the night. Considering the conditions we did surprisingly well with over 700 moths of 81 species recorded. **Stigmella malella**, **Rabbit Moth** (*Ypsolopha sequella*-for the uninitiated!), **Acleris emargana** and **Garden Pebble** were some of the micros with **Large Twin-spot Carpet**, **Brindled Green**, **Orange Sallow** and **Frosted Orange** amongst the macros. Our last duty of the night was to wake Tim up so he could open the gate and let us off the site and on our way home. Another very enjoyable night and we say thanks to Tim for access to the site.

September

Normally this would be one of our favourite months for mothing, however this year it was the most frustrating. On our way to join Steve at Breakheart Hill Quarry in Gloucestershire the car decided to slow down every time the accelerator was pressed. So for a second time this year we arrived home on the back of a breakdown truck! An attempt to let Steve know failed, as the quarry was in a dead spot for a phone signal. Thankfully, he did finally get to a place where he could call us and we could tell him we were OK but wouldn't make it.

With the monthly Chaddesley Wood session due the following night more phone calls were made so that it could go ahead without us. Thanks go to Martin and Mervyn for stepping in. With no sign of the cars problem being fixed, we finally decided enough was enough and went to buy a new vehicle. That took another week to organise but it arrived just in time for our final visit of the year to Alvecote Wood. In fact, Val picked up the car early in the afternoon and soon after we were working out how to load the equipment into the new space. Once that was done we were on the road and back out 'in the field' after three weeks of frustration. Keith and Sarah were waiting for us when we arrived and directed us to a different parking spot out of the nagging breeze. Martin also made it tonight and so we had more traps than on previous visits spread out across the wood. The hornets were a major problem for Keith tonight and he had to move his trap to lessen their impact on the moths and our enjoyment. It was a slow and steady night but Sarah's camera was kept busy photographing some of the year's most colourful moths. Steve arrived later to check how we were getting on and we did a round of the traps before both he and Sarah headed home leaving Keith with the responsibility of locking up. We counted up after they had left and found we had recorded 38 species, which brought the total for our three visits this year to 170. Not a bad start for a site with no records at all previously. Amongst the moths recorded tonight were **Cameraria ohridella**, **Stenolechia gemmella**, **Feathered Thorn**, **Deep-brown Dart**, **Lunar Underwing** and **Pink-barred Sallow**. It was great to be back and doing what we love best.

We were out again the following night for our final visit of the year to Middleton Hall. Sadly it would also be the final time that caretaker Bob would be opening up for us as both he and his wife Fen will have retired by the time we come back next year. Special thanks are due to them both for their outstanding hospitality and the trust placed in us over the years. They will be sorely missed by us all. Martin, Keith, Roger and for the first time this year Roy Ledbury were the other recorders. Anne Cole and Richard Orton also joined us, as they wanted to sign the card we'd got for Bob and Fen, but we think it was the promise of a slice of the cake Val had made that was an added incentive! It was a thoroughly enjoyable night with a very satisfactory 52 species recorded. Only one, ***Epinotia maculana***, was new for the site but other highlights included ***Epinotia sordidana***, **Black Rustic**, **Green-brindled Crescent**, **Centre-barred Sallow** and **Pinion-streaked Snout**.

The last trip of the month was to Ryton Meadows where both Martin and us managed to weave our way up to 'scrub hill' through the ridiculous amount of tree trunks that were lying either side of the track. It was a mild evening with the big surprises being no wind and no moon! In all the years we've been recording at this site we don't think those two things have ever happened together! It was a slow and steady night again with always something new to see as we toured the traps. Martin managed to leave just before us at around midnight. We didn't want a late night due to Val having to work tomorrow so being on our way home by 1 a.m. was the plan. We'd still done well though with 42 species recorded and two of them ***Epinotia sordidana*** and **Large Wainscot** being new for the meadows. Amongst the other species recorded were ***Depressaria badiella***, ***Apotomis betuletana***, **Lesser Treble-bar**, **Brown-spot Pinion**, **Sallow** and **Gold Spot**.

October

It was great to be back at Chaddesley Wood after being forced to miss last month's visit. As we were only expecting Martin we went straight to the Morgan's Ride gate. However, Mervyn and Rose were seen up at the shed by some dog walkers wondering where we were. They finally worked out where we must be and found us. Martin's cables were to the fore tonight, as he almost made it all the way to the pond. That had never been achieved before and so it would be interesting to see what he caught. The traps were switched on with the highest starting temperature of the year- an amazing 22.5°C! This led to the longest October night we think we've ever done, as we had plenty of moths to keep us busy. Mervyn and Rose left earlier than us, but they did manage to catch the 'monster' of the night as they had a visit from an old favourite of Alan's. It certainly seemed impressive when Alan announced the name of the giant leafhopper *Ledra aurita*, but the others weren't aware that he'd already had this unmistakable insect ID'd by Steve Lane earlier in the year! It didn't only cause a stir on the night, but also with other insect recorders in Worcestershire when they learnt of the record, as it doesn't appear to be recorded as a fully grown adult very often. It put the four adult male Land Caddis (*Eniocyba pusilla*) that were also found at the traps down the list of interest a bit.

As for the moths, we managed a record number for Chaddesley in October with 52 species including an impressive five new for the wood. They were ***Phyllonorycter trifasciella***, ***Argyresthia bonnetella***, ***Ypsolopha sylvella***, ***Epinotia maculana*** and surprisingly, **Small Dusty Wave**. Amongst the other species recorded were ***Caloptilia elongella***, **Autumnal Rustic**, **Beaded Chestnut** and **Barred Sallow**. We were finally on our way home by 3 a.m. after an excellent nights mothing.

Alan joined Martin and John at Hay Wood a couple of days later. The gates had been vandalised yet again but at least access was possible. It was a windy night and the traps were set in the most sheltered spots available. It was another mild night and despite the wind, plenty of moths arrived at the traps. Most of them were one species- **Grey Pine Carpet**, but by the end of the night a respectable 41 species had been recorded with eight being new for the site. Amongst the species found were ***Acleris emargana***, ***Epinotia nisella***, **November Moth**, **Grey Shoulder-knot** and **Yellow-line Quaker**.

The last trip of the month was a final visit to Weston Wood. As we drove through the adjacent Waverley Wood we noticed that plenty of work had been going on. When we reached Weston Wood and our normal spot, Alan was furious to see that all the Aspen spikes that he'd been cultivating for the past two years had been hacked down by the ignorant contractors who had been working in the woods. Speaking with other regular moth recorders, this sort of thing appears to be a regular occurrence everywhere. Education and supervision would seem to be the only way forward, but getting people communicating with each other appears the real stumbling block. Anyway, Martin, John and Anna joined us tonight. It was a cool night with a gusty wind and moths were slow in arriving. The time was passed by watching Alan and Anna having a photo competition, but they were both put in their place when John got involved and took the best picture! It was all very amusing and kept our spirits up. The 'tea shop' was also well used for warming drinks to keep everybody going. As usual at this time of year, when you make the decision to count up things start arriving more regularly. Anna had the most surprising arrivals, as when she was busy potting up moths to show the rest of us, a noise from behind got her attention. She turned to see two Badgers wander right up to her and briefly stop before disappearing again. We did ask why she didn't get a photo, as the camera was in her hand at the time, but agreed the movement would have probably sent them scampering off before she had an opportunity to click the shutter. As for the moths, we managed to record 29 species with a couple being new for the wood. They were **Rusty-dot Pearl** and surprisingly, **Angle Shades**. Martin had also set a trap up in a patch of Beech trees within Waverley Wood to try and catch Pale November Moth. That was unsuccessful, but he still managed to get three new species for Waverley, which were ***Diurnea lipsiella***, ***Agonopterix alstromeriana*** and **Red-line Quaker**, so it did a good job even though it didn't attract the target species.

November

The weather was relatively kind to us for our last visit of the year to Chaddesley Wood. Martin, John and Roger also made the effort. Pete and family arrive a bit late and Mervyn paid us a brief visit before heading home to host a firework party. However, all traps would be needed tonight as we had a 'fun' target for the evening. If we could record more than 191 moths it would mean that for the first time we'd pass 10,000 for the year at Chaddesley. Lucy got the night off to a good start as her habit of potting everything produced a female **Northern Winter Moth** from a tree trunk. John chipped in with a Minotaur Beetle (*Typhaeus typhoeus*) in his actinic, which was a first for Chaddesley but didn't help our moth target! As the night went on the fireworks were going off all around us and Alan commented, "I guess this is what it would sound like if we were mothing in a war zone"! As was the norm when the girls got tired Pete and Belinda packed up and headed for home, but they had managed to record 24 moths towards our target. With time getting on it was decided to count the traps but leave them switched on in case we were short of our target. After a quick count we all met with the figures and found we'd just passed 191 and so we could then pack up properly. In the end we managed to record 225 moths of 20 species by the time everything was packed away. Amongst them were **Scoparia ambigualis**, **Red-green Carpet**, **Mottled Umber** and **Merveille Du Jour**. Job done!

Our last trip of the year was to Tiddesley Wood to have another look for **Plumed Prominent**. We had a slow journey due to the ridiculous amount of 'school traffic' and arrived just before dark, with rain in the air. We knew where we wanted to set the traps and got to work immediately. Just as we were almost finished Tony Simpson arrived. He set his trap further down the track opposite a large Field Maple before we all met up at the 'tea shop' for a break and catch up chat. It was a really mild night and the rain didn't materialise into much more than occasional light drizzle but there was a gusty southerly wind blowing up the track. Even so it was a surprisingly slow night to begin with and disappointingly none of our target species had arrived before Tony decided to call it a night. We gave it until the first **Sprawler** arrived and then packed up too. Whilst we were waiting Alan was taking photos at the traps in the wood while Val was mesmerised by the amount of **Feathered Thorn** that were arriving at our trap by the car. When Alan trudged back to say that the first **Sprawler** had arrived, he was amazed as well. After the furthest two traps were packed up it was time for the one by the car. When he started counting the **Feathered Thorn** there were only two **Sprawler** in the trap, but by the time he'd finished there were nine and the final Thorn total for the trap had reached 125! Alan wondered what the collective term for this many Thorns could be and decided on a "Crown of Thorns"! Even though we didn't find any Plumed Prominent the vision of all those **Feathered Thorn** was truly memorable. It was also nice to see our first **December Moth** of the year amongst the seventeen species recorded.

Summary

Well what can you say about 2011? Another cold winter seemed to have served most species well and the spring was remarkable for all its early emergences and high counts. The trend continued for some time until the lack of a good summer slowed things down a bit. The best 'summer' weather arrived somewhat late, at the end of September and beginning of October, which made for some exceptional nights during that period. We have managed to raise the profile of Hay Wood into one of the best Lepidoptera sites within Warwickshire and our regular recording at Chaddesley Wood has seen us pass the 800 species mark for the site. Overall we never really knew what was going to happen or what we would see and when, more so than in some past years. It really sums up the world of moth recording-always expect the unexpected! Thanks are due as always to the many people we've met and helped us on our way through an interesting year. What will 2012 hold for us all? Hopefully, we'll let you know what happened in a year's time!

Clarification

All species mentioned in the text have been adults. No leaf-mines or cases etc. have been included unless specified. Difficult to identify species will have been confirmed via dissection.

Further Information

For information on Moth Nights or Butterfly Walks in Warwickshire see the Butterfly Conservation web site at: <http://www.warwickshire-butterflies.org.uk>

Or contact David Brown on 01789 840295 or Keith Warmington on 01827 715873

Moth Night 2012

Moth Night 2012 will take place on 21 – 23 June 2012 (Thursday to Saturday). The theme will be the moths of brownfield habitats (such as old quarries, disused railway lines, reclaimed coal tips, gravel and clay workings etc.) and will include both daytime searches and the usual night-time recording.

Recording can take place on any one or more of these nights which is hoped to greatly improve the chances of favourable weather for moth recording during the event. The other major change is a move to full online recording. A comprehensive but easy-to-use online recording system has been developed that will be the route for all future records. As well as vastly improving the efficiency of handling the many thousands of records received each year, this new system will give participants immediate feedback about the event. The full findings will continue to be published in the journal *Atropos* but, in the future, we will be providing better feedback to all those who take part in the event.

Moth Nights 2011

Date	Site	Traps	Species	Individuals
05/02/2011	Chaddesley Wood, Worcestershire	7	16	2,323
11/02/2011	Hay Wood, Warwickshire	5	13	698
25/02/2011	Weston Wood, Warwickshire	4	24	598
05/03/2011	Chaddesley Wood, Worcestershire	4	17	161
16/03/2011	Hay Wood, Warwickshire	7	24	168
22/03/2011	Weston Wood, Warwickshire	4	31	1,579
02/04/2011	Chaddesley Wood, Worcestershire	9	31	782
08/04/2011	Hay Wood, Warwickshire	6	37	949
10/04/2011	Ryton Meadows, Warwickshire	3	33	259
13/04/2011	Bowdown Woods, Berkshire	4	18	186
16/04/2011	Bishop's Hill, Warwickshire	7	33	125
21/04/2011	Alvecote Wood, Warwickshire	3	33	198
22/04/2011	Middleton Hall, Warwickshire	10	82	365
24/04/2011	Weston Wood, Warwickshire	3	57	234
06/05/2011	Hay Wood, Warwickshire	11	138	1,844
07/05/2011	Chaddesley Wood, Worcestershire	6	102	919
13/05/2011	Weston Wood, Warwickshire	7	44	151
20/05/2011	Middleton Hall, Warwickshire	9	62	196
27/05/2011	Ryall's Cottage, Gloucestershire	9	83	814
29/05/2011	Hay Wood, Warwickshire	7	131	1,417
02/06/2011	Ryton Meadows, Warwickshire	2	104	587
03/06/2011	Crown East Wood, Worcestershire	2	94	996
04/06/2011	Chaddesley Wood, Worcestershire	6	117	1,673
12/06/2011	Weeley, Essex	2	26	68
13/06/2011	Weeley, Essex	3	125	341
14/06/2011	Weeley, Essex	3	107	359
15/06/2011	Weeley, Essex	2	70	174
17/06/2011	Bishop's Hill, Warwickshire	11	115	2,070
21/06/2011	River Arrow LNR, Alcester, Warwickshire	2	81	439
23/06/2011	Purley Quarry, Warwickshire	8	118	709
27/06/2011	Avon Meadows Community Wetland, Worcestershire	5	142	1,317
02/07/2011	Chaddesley Wood, Worcestershire	4	172	2,379
04/07/2011	Weston Wood, Warwickshire	2	128	994
09/07/2011	Norton Covert, Worcestershire	2	98	467
15/07/2011	Bishop's Hill, Warwickshire	9	210	3,365
21/07/2011	Alvecote Wood, Warwickshire	4	111	535
23/07/2011	Windmill Hill, Nuneaton, Warwickshire	8	99	476
27/07/2011	Bishop's Bowl Lakes, Warwickshire	9	158	1,260
30/07/2011	Weethley Wood, Warwickshire	5	174	1,269
02/08/2011	Ryton Meadows, Warwickshire	2	144	1,451

Date	Site	Traps	Species	Individuals
05/08/2011	Hay Wood, Warwickshire	4	139	1,444
06/08/2011	Chaddesley Wood, Worcestershire	7	110	805
13/08/2011	Crown East Wood, Worcestershire	5	95	575
16/08/2011	Tiddesley Wood, Worcestershire	10	138	954
19/08/2011	Middleton Hall, Warwickshire	9	152	1,663
22/08/2011	Weston Wood, Warwickshire	2	66	227
26/08/2011	Slimbridge WWT Centre, Gloucestershire	5	53	240
28/08/2011	Focus Optics, Corley, Warwickshire	9	81	762
22/09/2011	Alvecote Wood, Warwickshire	6	38	167
23/09/2011	Middleton Hall, Warwickshire	9	52	301
28/09/2011	Ryton Meadows, Warwickshire	4	42	138
01/10/2011	Chaddesley Wood, Worcestershire	6	52	376
03/10/2011	Hay Wood, Warwickshire	6	41	398
22/10/2011	Waverley & Weston Woods, Warwickshire	8	29	259
05/11/2011	Chaddesley Wood, Worcestershire	8	20	225
09/11/2011	Tiddesley Wood, Worcestershire	4	17	230



Species Mentioned In Text

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6	<i>Eriocrania subpurpurella</i>	3, 4	729	<i>Isophrictis striatella</i>	17
10	<i>Eriocrania salopiella</i>	3	755	<i>Stenolechia gemmella</i>	19
12	<i>Eriocrania sangii</i>	3	758	<i>Recurvaria leucatella</i>	11
13	<i>Eriocrania semipurpurella</i>	3	771	<i>Carpatolechia alburnella</i>	15
15	Orange Swift	18	774	<i>Teleiodes luculella</i>	8
89	<i>Stigmella basiguttella</i>	17	776	<i>Teleiopsis diffinis</i>	10
97	<i>Stigmella malella</i>	19	780	<i>Bryotropha similis</i>	9
143	<i>Nematopogon metaxella</i>	9	843	<i>Aproaerema anthyllidella</i>	14
219	<i>Nemapogon ruricolella</i>	15	868	<i>Helcystogramma rufescens</i>	12
282	<i>Caloptilia elongella</i>	21	871	<i>Oecogonia deauratella</i>	11
296	<i>Calybites phasianipennella</i>	15	878	<i>Batrachedra praeangusta</i>	11
308	<i>Parornix finitimella</i>	4	883	<i>Mompha raschkiella</i>	13
309	<i>Deltaornix torquillela</i>	7	886	<i>Mompha ochraceella</i>	8
315	<i>Phyllonorycter harrisella</i>	5	925	<i>Phtheochroa rugosana</i>	9
333	<i>Phyllonorycter salictella</i>	5	930	<i>Gynnidomorpha alismana</i>	11
354	<i>Phyllonorycter emberizaepennella</i>	6	964	<i>Cochylis dubitana</i>	13
361	<i>Phyllonorycter trifasciella</i>	21	968	<i>Cochylis nana</i>	5
366	<i>Phyllonorycter sagitella</i>	15	1007	<i>Capua vulgana</i>	8
366a	<i>Cameraria ohridella</i>	19	1014	<i>Isotrias rectifasciana</i>	11
386	<i>Tebenna micalis</i>	18	1016	<i>Cnephasia longana</i>	15
413	<i>Argyresthia sorbiella</i>	7	1023	<i>Cnephasia genitalana</i>	14
421	<i>Argyresthia bonnetella</i>	21	1025	<i>Tortricodes alternella</i>	1, 2
436	<i>Pseudoswammerdamia combinella</i>	4	1029	<i>Eana osseana</i>	11
443	<i>Cedestis subfasciella</i>	7	1033	Green Oak Tortrix	8
459	<i>Ypsolopha sylvella</i>	21	1034	<i>Spatalistis bifasciana</i>	7
462	Rabbit Moth (<i>Ypsolopha sequella</i>)	19	1043	<i>Acleris aspersana</i>	13
481	<i>Epermenia falciformis</i>	17	1051	<i>Acleris logiana</i>	3
495	<i>Coleophora spinella</i>	10	1054	<i>Acleris cristana</i>	4
521	<i>Coleophora conyzae</i>	9	1062	<i>Acleris emargana</i>	19,21
523	<i>Coleophora hemerobiella</i>	15,16	1063	<i>Celypha striana</i>	11
533	<i>Coleophora anatipennella</i>	10	1064	<i>Celypha rosaceana</i>	9
536	<i>Coleophora betulella</i>	12	1086	<i>Hedya salicella</i>	10
559	<i>Coleophora peribenanderi</i>	8	1093	<i>Apotomis betuletana</i>	20
577	<i>Coleophora artemisicolella</i>	13	1101	<i>Endothenia ustulana</i>	15
583	<i>Coleophora tamesis</i>	9	1102	<i>Endothenia nigricostana</i>	9
602	<i>Elachista apicipunctella</i>	5	1104	<i>Endothenia quadrimaculana</i>	11
623	<i>Elachista bisulcella</i>	15	1106	<i>Lobesia reliquana</i>	7
632	<i>Cosmiotes consortella</i>	17	1121	<i>Ancylis upupana</i>	6
661	<i>Pseudatemelia flavifrontella</i>	6	1126	<i>Ancylis badiana</i>	16
663	<i>Diurnea fagella</i>	4	1133	<i>Epinotia bilunana</i>	7
664	<i>Diurnea lipsiella</i>	21	1135	<i>Epinotia demarniana</i>	8
666	<i>Semioscopis avellanella</i>	2	1138	<i>Epinotia nisella</i>	21
667	<i>Semioscopis steinkellneriana</i>	3	1144	<i>Epinotia signatana</i>	10
668	<i>Luquetia lobella</i>	9	1152	<i>Epinotia maculana</i>	20,21
670	<i>Depressaria daucella</i>	4	1153	<i>Epinotia sordidana</i>	20
674	<i>Depressaria badiella</i>	20	1179	<i>Epiblema incarnatana</i>	9
695	<i>Agonopterix alstromeriana</i>	21	1207	<i>Clavigesta purdeyi</i>	16
701	<i>Agonopterix ocellana</i>	18	1208	<i>Pseudococcyx posticana</i>	6
706	<i>Agonopterix nervosa</i>	17	1227	<i>Pammene giganteana</i>	3
728	<i>Monochroa cytisella</i>	12	1228	<i>Pammene argyrana</i>	4

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1245	<i>Grapholita janthinana</i>	17	1760	RED-GREEN CARPET	22
1249	<i>Grapholita lobarzewskii</i>	7, 11	1768	GREY PINE CARPET	21
1251	<i>Grapholita jungiella</i>	5	1778	MAY HIGHFLYER	7
1267	<i>Cydia cosmophorana</i>	6	1787	ARGENT & SABLE	1
1268	<i>Cydia coniferana</i>	6	1790	TISSUE	15
1281	<i>Dichrorampha simpliciana</i>	17	1792	DARK UMBER	13
1288	Twenty-plume Moth	3, 5	1793	CLOAKED CARPET	17
1313	<i>Catoptria pinella</i>	13	1795	NOVEMBER MOTH	21
1314	<i>Catoptria margaritella</i>	15	1800	NORTHERN WINTER MOTH	22
1316	<i>Catoptria falsella</i>	17	1807	GRASS RIVULET	8
1328	<i>Schoenobius gigantella</i>	14	1812	MAPLE PUG	15
1334	<i>Scoparia ambigualis</i>	22	1824	PAUPER PUG	6
1336	<i>Eudonia pallida</i>	13	1838	TAWNY SPECKLED PUG	15
1356	Garden Pebble	19	1851	GOLDEN-ROD PUG	12,14
1356a	<i>Evergestis limbata</i>	9	1852	BRINDLED PUG	3,4
1358	<i>Evergestis pallidata</i>	13	1868	LESSER TREBLE-BAR	20
1370	<i>Sitochroa palealis</i>	14	1881	EARLY TOOTH-STRIPED	2
1392	<i>Udea olivalis</i>	7	1884	MAGPIE MOTH	15
1395	Rusty-dot Pearl	21	1888	SCORCHED CARPET	14
1417	Meal Moth	9	1902	BROWN SILVER-LINE	4, 6
1426	Lesser Wax Moth	8	1904	SCORCHED WING	7
1436	<i>Conobathra repandana</i>	12	1907	BORDERED BEAUTY	11
1438	<i>Numonia suavella</i>	9	1912	AUGUST THORN	15,17
1440	<i>Trachycera marmorea</i>	9	1913	CANARY-SHOULDERED THORN	16
1461	<i>Assara terebrella</i>	15	1915	SEPTEMBER THORN	15
1465	<i>Nephoterix angustella</i>	16	1919	PURPLE THORN	4
1470	<i>Euzophera pinguis</i>	10	1920	SCALLOPED HAZEL	10
1492	<i>Crombrugghia laetus</i>	13	1923	FEATHERED THORN	19,22
1590	Red Admiral	18	1925	SMALL BRINDLED BEAUTY	2
1626	Meadow Brown	13	1926	PALE BRINDLED BEAUTY	1
1631	DECEMBER MOTH	22	1927	BRINDLED BEAUTY	3,4
1632	PALE EGGAR	16	1931	PEPPERED MOTH	16
1634	LACKEY	10	1932	SPRING USHER	1
1637	OAK EGGAR	13	1934	DOTTED BORDER	1
1640	DRINKER	13	1935	MOTTLED UMBER	22
1655	POPLAR LUTESTRING	7, 11	1944	PALE OAK BEAUTY	6
1659	YELLOW HORNED	2	1947	ENGRAILED	2
1660	FROSTED GREEN	3	1949	SQUARE SPOT	6, 11
1663	MARCH MOTH	1	1957	WHITE-PINION SPOTTED	4, 6
1665	GRASS EMERALD	10	1960	EARLY MOTH	1
1666	LARGE EMERALD	13	1964	ANNULET	14
1674	LITTLE EMERALD	7	1976	PRIVET HAWK-MOTH	9
1676	MOCHA	17	1978	PINE HAWK-MOTH	6, 12
1705	DWARF CREAM WAVE	9	1979	LIME HAWK-MOTH	7
1707	SMALL DUSTY WAVE	21	1981	POPLAR HAWK-MOTH	7
1712	SMALL SCALLOP	12	1992	SMALL ELEPHANT HAWK-MOTH	11
1722	FLAME CARPET	18	1995	PUSS MOTH	6
1726	LARGE TWIN-SPOT CARPET	19	1997	SALLOW KITTEN	15
1731	CHALK CARPET	13,14	1998	POPLAR KITTEN	9
1742	YELLOW SHELL	16	1999	LOBSTER MOTH	9
1746	SHOULDER STRIPE	2	2005	GREAT PROMINENT	4, 6
1747	STREAMER	3	2006	LESSER SWALLOW PROMINENT	4
1751	DEVON CARPPET	16	2007	SWALLOW PROMINENT	3
1758	BARRED STRAW	7	2009	MAPLE PROMINENT	9

B&F	Species	Page	B&F	Species	Page
2013	PLUMED PROMINENT	22	2269	CENTRE-BARRED SALLOW	20
2015	LUNAR MARBLED BROWN	3	2270	LUNAR UNDERWING	19
2019	CHOCOLATE-TIP	15	2271	ORANGE SALLOW	19
2031	WHITE SATIN	14	2272	BARRED SALLOW	21
2033	BLACK ARCHES	15	2273	PINK-BARRED SALLOW	19
2035	ROUND-WINGED MUSLIN	12	2274	SALLOW	20
2039	RED-NECKED FOOTMAN	7	2281	ALDER MOTH	5
2043	ORANGE FOOTMAN	5, 6	2289	KNOT GRASS	9
2057	GARDEN TIGER	11	2291	CORONET	13
2060	WHITE ERMINE	18	2293	MARBLED BEAUTY	12
2064	RUBY TIGER	13	2301	BIRD'S WING	13
2091	DARK SWORD-GRASS	16	2303	STRAW UNDERWING	13
2117	AUTUMNAL RUSTIC	21	2306	ANGLE SHADES	21
2128	DOUBLE SQUARE-SPOT	10	2312	OLIVE	17
2138	GREEN ARCHES	8	2313	ANGLE-STRIPED SALLOW	11
2159	DOG'S TOOTH	7	2314	DINGY SHEARS	10
2163	BROOM MOTH	10	2316	LESSER-SPOTTED PINION	17
2164	BROAD-BARRED WHITE	8, 9	2317	WHITE-SPOTTED PINION	16
2176	ANTLER MOTH	13	2319	LUNAR-SPOTTED PINION	12
2179	PINE BEAUTY	3	2327	CLOUDED BRINDLE	8
2182	SMALL QUAKER	3	2333	LARGE NUTMEG	9
2183	BLOSSOM UNDERWING	3, 5	2335	SLENDER BRINDLE	12
2185	LEAD-COLOURED DRAB	2	2341	CLOAKED MINOR	17
2186	POWDERED QUAKER	3	2350	SMALL WAINSCOT	15
2187	COMMON QUAKER	2, 3	2352	DUSKY SALLOW	15
2188	CLOUDED DRAB	3	2353	FLOUNCED RUSTIC	17
2190	HEBREW CHARACTER	3	2360	EAR MOTH	15,16
2204	OBSCURE WAINSCOT	11	2361	ROSY RUSTIC	18
2216	SHARK	11	2364	FROSTED ORANGE	19
2227	SPRAWLER	22	2368	CRESCENT	14
2231	DEEP-BROWN DART	19	2371	BROWN-VEINED WAINSCOT	17
2232	BLACK RUSTIC	20	2375	LARGE WAINSCOT	20
2237	GREY SHOULDER-KNOT	5, 21	2380	TREBLE LINES	7
2243	EARLY THORN	3	2385	SMALL MOTTLED WILLOW	13
2245	GREEN-BRINDLED CRESCENT	20	2410	MARBLED WHITE-SPOT	7
2247	MERVEILLE DU JOUR	22	2422	GREEN SILVER-LINES	7
2248	BRINDLED GREEN	19	2423	OAK NYCTEOLINE	12
2256	SATELLITE	2	2425	NUT-TREE TUSSOCK	4
2258	CHESTNUT	2	2439	GOLD SPOT	7, 20
2260	DOTTED CHESTNUT	3	2452	RED UNDERWING	18
2263	RED-LINE QUAKER	21	2462	MOTHER SHIPTON	8
2264	YELLOW-LINE QUAKER	21	2466	BLACKNECK	13
2266	BROWN-SPOT PINION	20	2475	WAVED BLACK	16
2267	BEADED CHESTNUT	21	2484	PINION-STRTEAKED SNOUT	20
2268	SUSPECTED	12			



2256 Satellite



2179 Pine Beauty



2005 Great Prominent



1659 Yellow Horned



2216 Shark



2380 Treble Lines



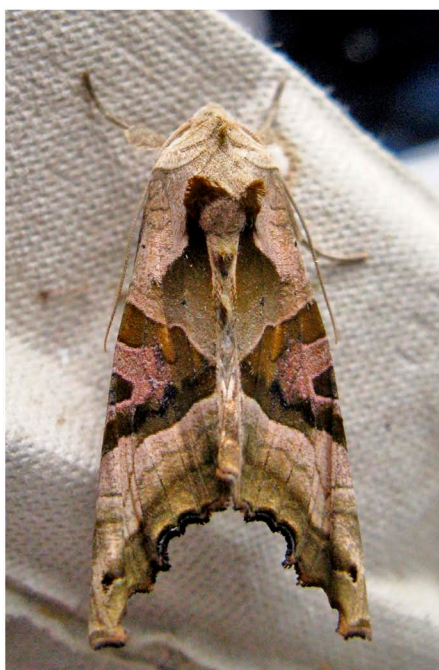
2164 Broad-barred White



1917 Early Thorn



2360 Ear Moth



2306 Angle Shades



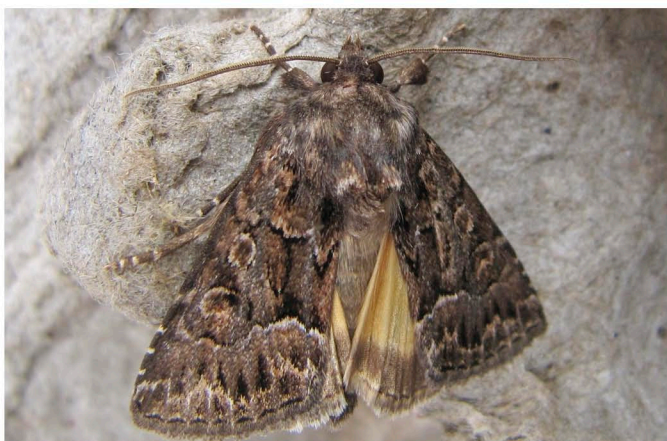
2247 Merveille du Jour



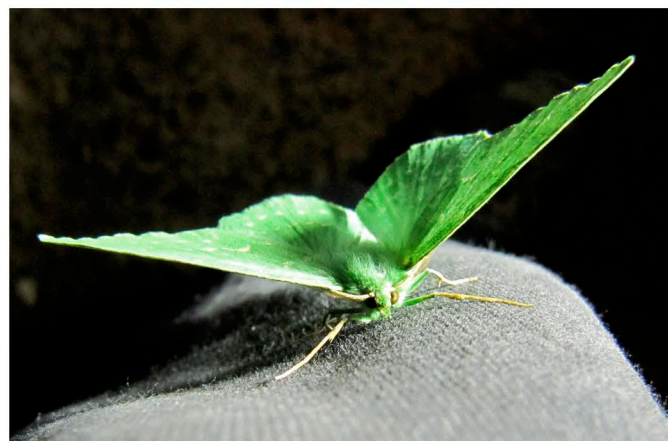
1288 Twenty-plume Moth



2060 White Ermine



2303 Straw Underwing



1666 Large Emerald



**Butterfly
Conservation**

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