

Saproxylic invertebrate survey of the central part (Repton Park) of the Knepp Estate

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Fig. 1. *Opilo mollis*.

0 - Summary

The author was commissioned by Back from the Brink and Buglife to carry out a survey of the saproxylic invertebrates of the central area of Knepp, also known as Repton Park, as part of the 'Ancients of the Future' project. The area has the largest density of veteran trees across the Knepp Estate. The approach was to focus on the native, saproxylic beetles and use the Saproxylic Quality Index (SQI) and Revised Index of Ecological Continuity (RIEC) to rank the site in both a Sussex context and a national context. This was an opportunity to calculate the SQI & RIEC for the whole Estate, using records made by the author from other invertebrate surveys to feed into this. Repton Park is about 280 ha of the 1400 ha Estate.

The site was visited on 14 occasions between May and September, primarily to collect and reset four interception traps around the park but opportunities to record deadwood beetles in the field were taken wherever possible. The traps were initially serviced every week but later every two weeks, eleven trapping sessions were made in all. On each visit, the methods pertinent to the season were used, starting with beating Hawthorn in May, searching deadwood and timber stacks, light trapping and searching trees at night.

A total of 252 species were recorded, 47 of which had some form of conservation status. This figure is higher than a usual survey due to the focus on deadwood invertebrates, many of which are rare or scarce.

A total of 101 saproxylic beetles were recorded from the survey area in 2020, rising to a total of 115 species over all time in Repton Park and 129 species across all time, across the whole estate (these figures should be quoted when talking about Knepp generally). The SQI for the whole estate is currently 655.9, making it the 11th best site on the SQI rankings nationally. The RIEC is currently 71 for the whole estate, meaning it has the second highest SQI in Sussex after Petworth Park. The SQI may fall or rise with the identification of additional specimens, yet the RIEC can only rise being an accumulative index. Five grade 1 indicators of ecological continuity were found in Repton Park in 2020 and a further two have now been recorded across the Estate. The SQI for the 101 species recorded only this year in Repton Park was 610.0, ranking third highest in Sussex (after Petworth and Cowdray Parks) and 15th nationally. The RIEC for this year alone was 54.

Highlights include two species new to Sussex; *Euplectus tholini*, an RDB3 species from an interception trap near the Castle on an open-grown oak and *Pentaphyllus testaceus* recorded in an interception trap on a red-rotten hollow and pen-grown oak, this nationally rare/vulnerable species was known only from Windsor and Langley Parks. Five species were recorded new to West Sussex/Vice County 13; *Ptinus palliatus*, (nationally rare and vulnerable), *Notolaemus unifasciatus* (Na) from a trap next to the Castle, the non-native jewel beetle *Agrius sulicicollis* was also recorded from the woodyard. To the south of Knepp, *Sphinginus lobatus* (not assessed) was beaten from an oak.

Other interesting saproxylic species recorded in the traps include *Scydnaemus rufus* (vulnerable) and *Synchita separanda* (nationally scarce). Species recorded away from the traps included the Lime Longhorn Beetle (*Stenostola dubia*, *Opilo mollis* and *Lymexylon navale*, (all nationally scarce). *Lymexylon* was abundant around the timber stack, the large fallen oak at trap B and was also found in trap D. Additional species recorded in the southern block as part of the wider survey include the rare anthribid *Pseudeuparius sepicola*. A number of other interesting taxa were recorded during the survey including the spider *Salticus zebraneus* and the saproxylic moth, *Dasycera oliviella*.

Deadwood management on the site is extremely good with the largest concern being the way the large wood pile for the biomass burner is acting as a sink for species that lay their eggs in the timber before being destroyed. Suggestions on how to overcome and even benefit from this are provided.

Knepp is clearly one of the best sites in Sussex for deadwood invertebrates, the scale of the site makes up for its relative lack of large trees in many parts; the overall resource of these trees when assessed across the whole Estate is significant. The key to finding even more deadwood invertebrates at Knepp is to continue exploring the site and to highlight accessible trees at just the right stage of decay for reactive and focused surveying.

1 - Introduction

The author was commissioned by Back from the Brink and Buglife to carry out a survey of the saproxylic invertebrates of the central area of Knepp, also known as Repton Park, as part of the 'Ancients of the Future' project. The area has the largest density of veteran trees across the Estate. The approach was to focus on the native, saproxylic beetles and use the Saproxylic Quality Index (SQI) and Revised Index of Ecological Continuity (RIEC) to rank the site in both a Sussex context and a regional context. Repton Park is about 280 ha of the 1400 ha Estate.

1.1 - SQI/IEC approach

The SQI assigns an index to every native UK beetle (that was known in the UK at the time the spreadsheet was produced). The rarer the beetle, the higher the index. The SQI is therefore a representation of the mean index of the whole assemblage present. It means that the index can go up or down but the more species present on the list, the more the SQI stabilises. The RIEC assigns an index to the 'best quality' species that are meant to reflect the best sites. The more species present with an RIEC score, the higher the RIEC.

Although this survey is centred around the central portion of Knepp, Repton Park, and focused on the 2020 survey season, it was sensible to calculate three SQIs/RIECs, as this will benefit the Estate for reasons that will become obvious. It also means that all the data regarding saproxylic beetles is now held in one place. Saproxylic surveys are costly and should be surveyed less frequently than other surveys, say maybe every 10 years minimum. Records from 20 years ago should not be assumed to be out of date and the long-term accumulative list is the best way to use the SQI/RIEC, rather than seeing the 2020 survey season as a snapshot. These species are difficult to find and a snap shot in time is only ever going to pick up a small number of the species that are actually present. The author is happy to hold the master copy of the SQI/RIEC across the three scenarios mentioned below and to update them whenever additional species are recorded. The three scenarios are;

- Repton Park, 2020 only (i.e., everything directly surveyed under this contract).
- Repton Park only, all time.
- Whole Estate, all time.

1.2 - Data sources

In order to calculate the SQI/RIEC for the second two scenarios above, all existing data on the site needed to be pulled together from a range of different sources and surveys.

- 2013 bioblitz including Mark Telfer's records
- 2015 wider invertebrate survey by author
- 2016 river restoration survey by author
- 2020 wider survey & Knepp garden survey by author
- Casual records from other sources

The author was carrying out surveys across the Estate in 2020 (in which two out of eight recording blocks occurred in the central block) and in the Estate garden (which sits in the centre of Repton Park). Therefore, these two surveys also fed into this survey, helping to boost the number of species recorded.

1.3 - Recording

The whole of central area sits in the hectad TQ12 in Vice County 13.

2 - Methodologies

On the first visit on the 12th May, the author walked as much of the site as possible beating Hawthorn, which was at its peak. Many species were recorded on this session that were not seen again on the survey. It was also a vital visit for deciding where to place the four traps. Care needed to be taken to place the traps high enough so that livestock could not interfere with them. The four traps were labelled A through D and their locations are shown in figure 2 below.

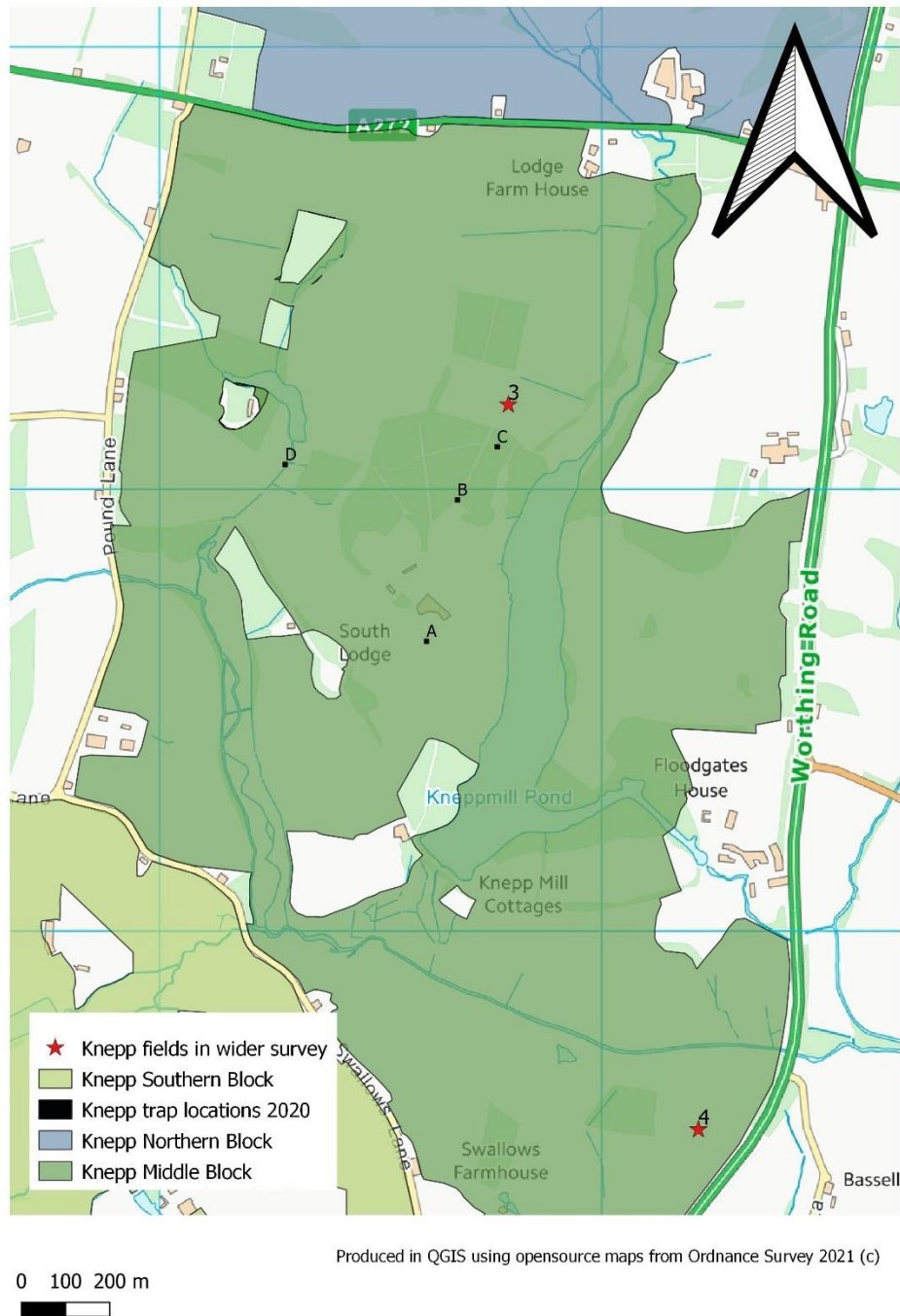


Fig. 2. Location of four aerial interception traps and the two fields on the wider survey that site in Repton Park.

Trap selection was as much about accessibility as it was about finding the perfect tree in the right stage of decay. The red-rotten hollow oak tree at the eastern end of field 3 in figure 2 above (also referred to as the 'pixie tree') did not have suitable branches to hang a trap and uneven ground at the base also meant placing a step ladder here was dangerous. Therefore, although the tree was perfect, logistically placing a trap here was impossible.

The traps were placed in a roughly circular route that would take about an hour to collect and reset. The original plan was for volunteers to do this but due to COVID-19, the author decided it was best to collect and reset the traps himself. In doing so, a number of significant records were also made of beetles flying around the trees and woodyard.

Trap A

Placed on a fallen oak limb on a cluster of open grown veteran oaks directly to the west of the Castle.



Fig. 3. Trap A.

Trap B

A veteran oak has recently fallen over here on the edge of a block of mixed woodland and is at just the right stage of decay to place a trap. It was in a sunny glade, created by its own canopy gap.

The tree was especially large and as a result there was a huge amount of timber with one very convenient branch that the trap could be hung from.

The number of burrows of *Platypus cylindrus* that appeared on this tree by the end of summer was remarkable, showing that the tree is at a critical stage in decay for recording deadwood invertebrates.



Fig. 4. Trap B and the author setting up the trap in May. The large step ladders were a vital tool for setting, servicing and dismantling the traps and were just light enough for one person to carry along with all the other equipment.

Trap C

This site was selected due to a number of species being recorded here in May. It was a medium-sized Sweet Chestnut that had fallen recently, again creating a small and very warm glade in an area of woodland.



Fig. 5. Trap C.

Trap D

An open grown mature oak with a red-rotten hollow interior and a fallen limb with an entrance straight into the hollow trunk. The trap was hung from this fallen limb. The limb fell down, destroying the trap (and the sample) in the last two weeks of the survey. A Hornet nest became evident by July here. The trap contents were always filled with red rot, perhaps rain was washing material from the hole above directly into the trap.



Fig. 6. Trap D.

On each visit, the methods pertinent to the season are used, being: sweeping, beating, picking through deadwood, beating old bracket fungi, searching flowers, turning logs, netting, searching trees at night and light-trapping etc.

As the author was carrying a thorough survey of other invertebrates for the Estate in 2020, within reason, only saproxylic invertebrates were recorded during this survey to save and focus time. However, where possible all invertebrates were identified from the traps.

The aleocharine staphylinid beetles have yet to be identified. This is going to take a significant time investment from the author. The specimens have been stored and will be looked at in the future and the totals updated.

The site was visited on the following 14 occasions:

- 9th May - Full day's surveying concentrating on beating Hawthorn at its peak and deciding on where to place the four interception traps.
- 12th May - set up four interception traps.
- 19th May - change traps and some casual recording around fallen trees and woodyard.
- 26th May - Night time session with Penny & Dave Green. A wealth of records made when collecting the traps too including netting *Synchita humeralis* in flight around the timber stack.
- 2nd June - traps serviced and reset.
- 9th June - traps serviced and reset.
- 11th June - brief session after garden survey.
- 23rd June - traps collected and reset.
- 25th June - helping film crew find woodland invertebrates in southern section. Found *Sphinginus lobatus* new to West Sussex.
- 10th July- traps collected and reset and some casual recording carried out.
- 24th July - collect and reset traps and some casual recording. *Arhopalus rusticus* found under pine bark.
- 6th August - collected and reset traps. Moth trapping session and dusking in evening, very few moths and even fewer beetles, possible due to the advanced seasons
- 20th August - collect and reset the traps.
- 4th September - All traps collected (although trap D had failed as the branch holding it collapsed and the sample was ruined. Hornets prevented dismantling and the author returned several weeks later when it was cooler).

Tab. 1. Trapping session timings.

Session	Date set	Date collected	Period
Session 1	12 th May	19 th May	One week
Session 2	19 th May	26 th May	One week
Session 3	26 th May	2 nd June	One week
Session 4	2 nd June	9 th June	One week
Session 5	9 th June	23 rd June	Two weeks
Session 6	23 rd June	2 nd July	One week & two days
Session 7	2 nd July	10 th July	One week & one day
Session 8	10 th July	24 th July	Two weeks
Session 9	24 th July	6 th August	Two weeks
Session 10	6 th August	20 th August	Two weeks
Session 11	20 th August	4 th September	Two weeks & one day

Pheromones for *Gnorimus nobilis* and *Elater ferrugineus* unsuccessful.

3 - Results

3.1 - Summary of findings

A total of 252 species were recorded, 47 of which had some form of conservation status. This proportion of 18.7% is artificially high due to the bias towards focusing on saproxylic invertebrates which have a high proportion of rare species in the group.

Tab. 2. Summary of species recorded

Order	Species	Species with status	Proportion of species with status
Coleoptera	185	39	21.1
Heteroptera	18	1	5.6
Lepidoptera	17	2	11.8
Araneae	16	3	18.8
Diptera	5	1	20.0
Aculeate	4	1	25.0
Hymenoptera	2	0	0.0
Crustacea	1	0	0.0
Hopper	1	0	0.0
Mollusca	1	0	0.0
Odonata	1	0	0.0
Pseudoscorpion	1	0	0.0
TOTAL	252	47	18.7

A total of 101 species of native saproxylic beetle were recorded in Repton Park in 2020.

3.2 - Species with conservation status

Conservation status is a complex issue. Each taxonomic group has used a slightly different set of criteria for assessing their species. Within each group, some species are assessed more often or more thoroughly than others. Some are long overdue and as a result there are two systems running at present. Mike Edwards has kindly allowed the author to use this text to explain both systems.

“GB Conservation Status categories are in the process of being upgraded. This means that it is currently necessary to provide values for both systems as not all groups have been dealt with.

The old RDB (Red Data Book) Conservation Status categories were based purely on the number of 10km squares which a species was known to have been recorded from, with a base-line date of 1970. These categories are obviously susceptible to the progressive accumulation of new records over time. This is especially so as, for some species in particular, non-specialist recording has increased significantly. There are also known changes in range and abundance which have been increasingly commented on by specialists.

The old system graded species like this:

RDB 1. Endangered. Species currently (post 1970) known to exist in five or fewer ten-kilometre squares.

RDB 2. Vulnerable. Species in severely declining or vulnerable habitats, or of low known populations. Known to exist (post 1970) in ten, or fewer, ten-kilometre squares.

RDB 3. Rare. Species with small populations, not at present Endangered or Vulnerable, but which are felt to be at risk. Species currently known to exist (post 1970) in fifteen, or fewer, ten-kilometre squares.

RDB K. Species of undoubted RDB rank, but with insufficient information for accurate placement; includes possible recent arrivals.

Nationally Scarce. Species currently (post 1970) known to exist in one hundred, or fewer, ten-kilometre squares.

In some groups these are further sub-divided into:-

Nationally Scarce a. Species currently (post 1970) known to exist in thirty, or fewer, ten-kilometre squares.

Nationally Scarce b. Species currently (post 1970) known to exist in thirty-one to one hundred ten-kilometre squares.

The new IUCN-type Red Data Book Conservation Status categories are based on perceived threat, of which distribution is only one part, the other being related to the population trend over the 10 years previous to the assessment, for the species in question. Such trends may be inferred from accumulated specialist knowledge, but, as the quantity and quality of data improves increasing effort is being made to model such changes. The output of such modelling being then compared with the specialist knowledge. Species with a negative trend may not be inherently rare, it is the decline which is the significant factor.

The new system grades species like this (This is very much a summary, there is considerable detail to this, please consult the group-appropriate published Great Britain Red List for a better understanding of how the gradings have been arrived at):

Regionally Extinct (RE). See group-appropriate Red List for criteria. In general, a sufficiently long time has elapsed since the last record of this species.

Critically Endangered (CE). Species with a very severe decline in population trend or geographic range within the area considered.

Endangered (E). Species with a severe decline in population trend or geographic range within the area considered.

Vulnerable (V). Species with a marked decline in trend or geographic range within the area considered.

Near Threatened (NT). Species which are suspected to qualify for Vulnerable, but where the data does not quite support such a category.

Least Concern (LC). Species which show no marked negative population trend or geographic range. Indeed, they may have positive values for either or both.

There will be a number of species where it has been considered that there is insufficient information to provide a supported grading, such species are called Data Deficient (DD). There are also categories for invasive (with anthropogenic agency) species, which are usually assessed as Not Applicable (NA).

The IUCN Red List system was primarily developed for assessing large mammal populations and fish stocks, adapting it for invertebrates is, inevitably, an experimental process and it is to be expected that there will be variability in its application and interpretation between groups. However, each published GB Red List has information on the actual way in which decisions have been arrived at. These should be consulted where necessary.

There is no inherent equivalence between the old and new systems

Great Britain has a considerable environmental gradient from north to south and, to a lesser extent, east to west. Species which are stable in their trend or geographic extent may still be considerably limited by the availability of suitable habitat resources. In order that such species do not get missed from conservation considerations a second, parallel, system of GB scarcity has been developed. This is similar to the old Conservation Status system in that it is based on the number of 10km squares which the species is known from, in a given time period, usually 30 years previous to the date of the assessment.

Categories for this National Scarcity rating are:

NR, with 1-15 10Km occupied squares

NS, with 16 to 100 10Km occupied squares.

Clearly both systems will require periodic revision if they are to remain relevant to the needs of a modern country and the conservation of its fauna.”

3.2.1 - Coleoptera (beetles)

185 species were recorded, 39 of which had conservation status. Of these 39, 36 considered saproxylic.

Aeletes atomarius - Nationally Scarce

This incredibly small beetle (0.8mm long) was found around the large fallen oak at trap B on the evening of the 23rd June.

Abdera biflexuosa - Nationally Scarce

Recorded frequently around the site in 2020, mainly on the wider survey and places in between, by beating the lower dead branches of oak. It was recorded in 7 of the 8 fields in the wider survey.



Fig. 7. The tiny *Abdera biflexuosa*.

***Ampedus elongantulus* - Nationally scarce a**

Recorded by Ross Piper near the bothy on the 4th September. It was recorded in the wider survey in 2015 in the Park by the author also. It is becoming more and more frequent.



Fig. 8. *Ampedus elongantulus*.

***Anapsis costai* - Nationally Scarce**

Large numbers were beaten from a flowering lime tree just to the north west of the Castle on the 11th June. A single male was also recorded in trap B between the 9th and 23rd June.

***Axinotarsus ruficollis* - Nationally Scarce**

Four were beaten from oak during the wider invertebrate survey on from the red rotten hollow oak tree in field 3.



Fig.9. One of the four *Axinotarsus ruficollis*.

***Colydium elongatum* - Nationally Scarce**

Abundant around the log stack in the woodyard and the fallen oak (trap B) on the night of the 26th May.



Fig. 10. One of several *Colydium elongatum* found at night on the fallen oak at trap B.

***Corticaria alleni* - Nationally scarce b**

A grade 1 indicator of ecological continuity. A male was recorded from one of the traps and confirmed by dissection but the exact date and trap was not noted.

***Cryptarcha strigata* - Nationally scarce b**

A single animal was caught in trap D between 26th May and 2nd June.

***Diaperis boleti* - Nationally Scarce**

A single adult was beaten from a Sulphur Polypore in 'field 3' during the wider survey on the 2nd June.



Fig.11. *Diaperis boleti*.

***Dorcatoma dresdensis* - Nationally Scarce**

Adults were found on trap D between 23rd June and 9th July.

***Enicmus brevicornis* - Notable**

Now common and found in several of the traps on the survey.

***Enicmus rugosus* - Notable**

Two adults were recorded in trap D between 23rd June and 9th July and again between 10th and 24th July.

***Euglene oculatus* - Nationally Scarce**

This small beetle is typically found around red rotten oaks. In fact, it was extremely abundant around trap D but also occurred in traps B and C. One evening when collected trap D at dusk in summer, there were hundreds if not thousands of animals swarming around the tree.

***Euplectus tholini* - RDB3**

New to VC13 & 14

A single male was recorded in trap B between 23rd July and 7th August. This tiny beetle is less than 2 mm long and was found to be a new species for Sussex. It was previously thought to be a sub species of *Euplectus punctatus* and as such, it is labelled as punctatus on the SQI spreadsheet but it's score is considered the same until the whole spreadsheet is revised.



Fig. 12. The male *Euplectus tholini*.

***Korynetes caeruleus* - Nationally Scarce**

An elytron was found in the hollow tree during the 1st of the wider surveys in field 3, a known site for this species. An adult was swept from oak on to the north of the Park too. The species is well known from Knepp.



Fig. 13. *Korynetes caeruleus*.

***Lymexylon navale* - Nationally Scarce**

Four animals were found in the woodyard on the same timber stack ovipositing and a further three females were found doing the same on the evening of the 23rd June.



Fig. 14. A female *Lymexylon navale* ovipositing on the large timber stack.

***Megatoma undata* - Nationally Scarce**

A single animal was recorded in trap D between 19th & 26th May.

***Melasis buprestoides* - Nationally scarce b**

One was netted in flight in the garden on the afternoon of the 9th and another caught between the 12th and 19th May in trap B. A further animal was trapped in trap C.



Fig. 15. *Melasis buprestoides* showing its distinctive antennae.

***Notolaemus unifasciatus* - Nationally scarce A - New to VC13**

Two animals were recorded by interception trap at trap A between 19th and 26th May and a third animal was recorded between 26th May and 2nd June in the same trap. It was also recorded in a trap in 2020 at Petworth Park by Mark Telfer. Only one other Sussex record is known for this species from the 1950s. The record is probably from A.A.Allen at Borde Hill.



Fig. 16. *Notolaemus unifasciatus*.

***Opilo mollis* - Nationally Scarce**

A single animal found by torch light on the huge veteran oak near the castle after midnight on the evening of the 26th May by Dave Green.



Fig. 17. The *Opilo mollis* found by Dave Green.

***Pentaphyllus testaceus* - Nationally Rare, Vulnerable**

New to all Sussex

Recorded in trap D between the 2nd and 9th June. This is a new species to Sussex. It is thought to only occur at Windsor and Langley Parks, meaning this is a highly significant record for Knepp. It is unfortunately poorly reflected on the SQI/IEC, as little was known of its provenance at the time. It has no RIEC score and only scores 4 for the SQI. It is likely that this should be a grade 1 indicator of ecological continuity and score much higher on the SQI. For standardisation though, these statistics have not been altered.



Fig. 18. The single specimen of *Pentaphyllus testaceus* recorded in trap D.

***Poecilium alni* - Nationally Scarce**

A pair were beaten from a decaying lower branch of an oak on the 9th May.



Fig. 19. The attractive longhorn beetle *Poecilium alni*.

***Platypus cylindrus* - Nationally scarce b**

Several animals were recorded flying around the fallen oak at trap B on the 2nd June. The signs of this beetle were increasingly evident on the limbs of this oak as piles of saw dust, which by September covered most of the main trunk. By mid-July it was the commonest beetle in trap B but it was also observed in the woodyard and occasionally other traps. It is now considered not to warrant this status and will lose it in the forthcoming review.



Fig. 20. *Platypus cylindrus* is indeed very cylindrical.

***Prionychus ater* - Nationally Scarce**

The species was found as a single elytron under bark on the large fallen dead poplar to the south of the castle on the 9th May and it was later conformed from the same tree as an adult. A singleton was also recorded in trap B.



Fig. 21. *Prionychus ater* on the fallen poplar.

***Ptinus palliatus* - Nationally Rare, Vulnerable - New to VC13**

A single animal was caught in trap D between the 12th and 19th May and appears to be a first for West Sussex. Another adult was found in the southern block on the 25th June.



Fig. 22. *Ptinus palliatus* from trap D.

***Scryptia testacea* - Nationally Scarce - New to VC13**

Scores '3' IEC points. A single adult was recorded in trap D between 9th June and 23rd June and again 23rd June and 9th July. It was also recorded by the author at farm near Brighton and by Mark Telfer at Petworth Park, all in 2020.

***Scydnaemus rufus* - RDB2, Vulnerable**

A single adult was found in trap C between 10th and 14th July.

***Sphindus dubius* - Nationally scarce b**

A single animal was netted in flight on the large fallen oak of trap B on the evening of the 23rd June.

***Stenostola dubia* (Lime Longhorn Beetle) - Nationally Scarce**

A single animal was beaten from a veteran lime on the morning of the 9th May. The last time the author encountered this species was at Ebernoe Common in 2009, showing that it is clearly uncommon.



Fig. 23. *Stenostola dubia*.

***Synchita humeralis* - Nationally Scarce**

One animal netted in flight around the woodyard log stack at about 7.00 pm on the 26th May.



Fig. 24. *Synchita humeralis*.

***Synchita separanda* - Nationally Scarce?**

The rarer of the two species was recorded in trap D between 19th & 26th May. Both species in this genus were represented only by one individual.

***Taphrorychus bicolor* - Nationally scarce a**

Six animals were caught in trap B between 12th and 19th May. There arguably two species according to Duff. In fact, some of the specimens recorded here were intermediate between the *bicolor* and *villifrons*.

***Tomoxia bucephala* - Nationally Scarce**

Two adults were caught in trap B between 2nd and 9th June.



Fig. 25. *Tomoxia bucephala*.

***Uleiota planata* - Nationally scarce a**

This species is now widespread and common and no longer warrants the status it has. A pair were found beneath chestnut bark on the 9th May.

***Xyleborus dryographus* - Nationally scarce b**

A single animal was caught in trap B on the fallen oak between 12th and 19th May.

Not recorded in the central area but recorded in the southern block of Knepp in 2020 by the author

Pseudeuparius sepicola - RDB2

Two adults were beaten from a dead oak limb in a medium-aged open grown oak tree at the start of July. A single animal was found on the same tree one month later in August. This is the first record for this species in West Sussex for approximately 50 years.



Fig. 26. *Pseudeuparius sepicola*.

***Sphinginus lobatus* - Not Evaluated**

New to VC13

Recorded on the 25th June when helping a filming crew find invertebrates for a documentary.



Fig. 27. *Sphinginus lobatus*.

3.2.2 - Diptera (true flies)

***Brachypalpus laphriformis* - Nationally Scarce**

A single adult of this impressive saproxylic Honey Bee mimic was found on the trunk of the fallen oak at trap B on the 2nd June.

3.2.3 - Lepidoptera (moths)

Crassa tinctella - Nationally scarce b

Dozens of this moth were recorded flying around the dead lower branches of an open grown, dying Horse Chestnut on the 9th May.



Fig.28. *Crassa tinctella*.

***Dasycera oliviella* - Nationally scarce a**

Swept from a veteran lime on the evening of the 26th May. It was also recorded on the wider survey in field 3 on the same tree it was recorded on in 2015. It was also found on the 'pixie tree'.



Fig. 29. *Dasycera oliviella*.

3.2.4 - Aranea (spiders)

Both these species are arguably saproxylic, they are probably as saproxylic as any spider can truly be however. Although not listed as such in the 'The invertebrates of living & decaying timber in Britain & Ireland', they should be considered at least as dependant on the wood decay process as those listed there.

***Marpissa muscosa* - Nationally Scarce**

Britain's biggest jumping spider, it is often found on sunny old trees but equally on fence posts and gates. It is well known from Knepp and although nationally scarce, it is common in the region.

***Salticus zebraneus* - Nationally Scarce**

This is an uncommon spider that was found to be widespread during this survey, typically from beating low dead branches of open grown oaks. Interestingly, the author did not pick it up on the wider survey in 2020 (although it was picked up in 2015). It could arguably be

seen as a saproxylic species. Knepp is by far the best place in the UK the author knows for this species and it was readily found when beating lower branches of oaks. In 202, it was not picked up on the wider survey.

3.2.5 - Aculeate Hymenoptera (bees, ants and wasps)

***Lasius brunneus* - Na**

Although listed as Na, this specie is now common and widespread. It was recorded in trap D during the survey. It is a carton nester, hollowing out decaying timber to form its nests.

3.3. - Other saproxylic species of note

Pachytodes cerambyciformis

Recorded around the timber stack on the Sweet Chestnut that trap C was placed on in May. It was not recorded again throughout the survey.



Fig. 30. *Pachytodes cerambyciformis*.

***Pyrrhidium sanguineum* (Welsh Oak Longhorn)**

This species no longer has conservation status, mainly down to a rapid expansion, away from its original range in Wales. It is likely that it has spread due to being moved around with timber. In fact, the first Sussex records were around 2012 on a pile of timber in West Sussex. It is associated with oak but is not picky, often being found on freshly cut live wood and will use quite small logs.



Fig. 31. *Pyrrhidium sanguineum*

It was most abundant around the huge fallen oak at trap B, especially in the evening where double figures were recorded on evening in May.

Spuleria flavicaput

A single adult was beaten from Hawthorn on the 9th May to the north of the Park.



Fig 32. *Spuleria flavicaput*.

3.4 - Other species with conservation status recorded that are not saproxylic

***Orsodacne humeralis* - Nationally Scarce**

Beaten from Hawthorn in several places around the site on the first visit.



Fig.33. The dark form of *Orsodacne humeralis* could easily be mistaken for an interesting saproxylic species.

***Rhagonycha lutea* - Nationally Scarce**

A fairly common soldier beetle found when beating trees. It was not picked up on the wider survey in 2020, so is included here to capture the record.

***Ceralpetus lividus* - Nationally Scarce**

Recorded in trap C. This species that requires warm, short turf has yet to be recorded on the wider survey and is an unusual find in this trap, deep in the wood.

***Ballus chalybeius* - Nationally Scarce**

A common woodland jumping spider well known from the wider survey.

***Tachys bistriatus* - Nationally Scarce**

Recorded in traps A to C on several occasions. This small carabid is likely coming from the large lake to the east of the traps.

3.5 - Exotica

Agrilus sulcicollis

New to VC13

A male was recorded as new to West Sussex on the 9th May and confirmed by genitalia dissection. It was netted in flight, flying around the wood yard area. It was also recorded nearby in trap B.



Fig. 34. *Agrilus sulcicollis*.

Obrium brunneum

A single animal was beaten from pine foliage on the 9th May.



Fig. 35. *Obrium brunneum*.

Pycnomerus fuliginosus

Widespread throughout the survey, one of the commonest species in the traps.

Euophryum confine

A now very common saproxylic weevil. Recorded in several of the traps throughout the survey. Ubiquitous.

Ahasverus advena

One was recorded in trap D between 9th & 23rd June.

Metalampra italica

Around log stack on 9th June.

Cis bilamellatus

Recorded in several of the traps on the survey. This species is now very common.

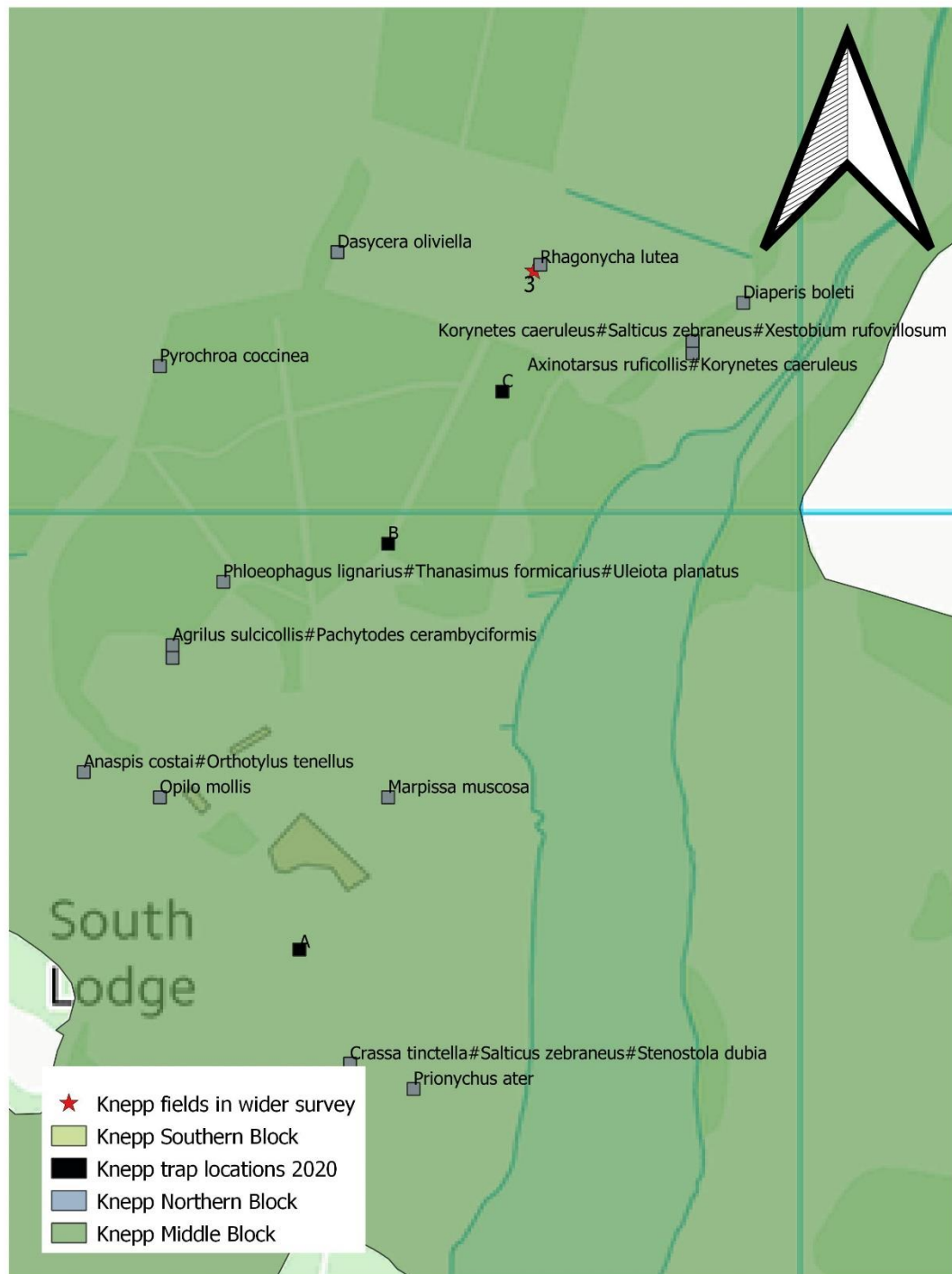
3.6 - Analysis of trap performance

Tab. 3. Number of species and list of species with conservation status per trap

Species	A	B	C	D	Status	Sussex status
<i>Lasius brunneus</i>				1	Na	
<i>Notolaemus unifasciatus</i>	1				Na	New to West Sussex
<i>Taphrorychus bicolor</i>		1	1		Na	
<i>Uleiota planata</i>			1		Na	
<i>Cryptarcha strigata</i>				1	Nb	
<i>Platypus cylindrus</i>	1	1			Nb	
<i>Sphindus dubius</i>		1			Nb	
<i>Xyleborus dryographus</i>	1	1			Nb	
<i>Enicmus brevicornis</i>	1	1	1		Notable	
<i>Enicmus rugosus</i>				1	Notable	
<i>Pentaphyllus testaceus</i>				1	NR, VU	New to Sussex
<i>Ptinus palliatus</i>				1	NR, VU	New to West Sussex
<i>Aeletes atomarius</i>		1			NS	
<i>Anaspis costai</i>		1			NS	
<i>Ceraleptus lividus</i>			1		NS	
<i>Colydium elongatum</i>		1			NS	
<i>Dorcatoma dresdensis</i>				1	NS	
<i>Euglenes oculatus</i>		1	1	1	NS	
<i>Lymexylon navale</i>		1		1	NS	
<i>Megatoma undata</i>				1	NS	
<i>Melasis buprestoides</i>		1	1		NS	
<i>Scryptia testacea</i>				1	NS	New to West Sussex
<i>Synchita seperandana</i>				1	NS	
<i>Tachys bistriatus</i>	1	1	1		NS	
<i>Tomoxia bucephala</i>		1			NS	
<i>Scydmaenus rufus</i>		1			RDB2, VU	
<i>Euplectus tholini</i>		1			RDB3	New to Sussex
TOTAL	43	82	52	57	160	
Species with status	5	15	7	11	27	
Proportion of species with status	11.6	18.3	13.5	19.3	16.9	
New to Sussex		1		1	2	
New to West Sussex	1			2	3	

Clearly trap B on the large fallen oak proved to be the most species rich and have the most species with conservation status. The other trap that worked extremely well was D on the open grown oak with the hollow interior, it had the second highest number of species and species with status, as well as one species new to Sussex and two more new to West Sussex. It was perhaps C that performed the worst, as A at least had *Notolaemus unifasciatus*.

3.7 - Locations of significant field identifications



Produced in QGIS using opensource maps from Ordnance Survey 2021 (c)

0 100 200 m

Fig. 36. Significant field records in Repton Park.



Fig. 37. Significant field records in the southern block made on other surveys/events but have contributed to the ‘Whole Knepp Estate SQI’.

4 - Conclusions

Knepp, and especially the Repton Park area, is an extremely important area for saproxylic invertebrates and is one of the best sites in Sussex for them. It sits within a rich landscape for deadwood invertebrates (albeit further to the east than many of the other sites) but has size on its side, something that other sites simply cannot match. This landscape scale effect is likely to have a positive effect on saproxylic beetles, as many of them are able to move around to find trees at the right stage of decay. A large site, such as Knepp, is functioning at the landscape scale in its own right.

The scale of the site makes up for its relative lack of large workable trees in many parts; the overall resource of these trees when assessed across the whole Estate is significant, what appears to be a low density to us is perhaps extremely beneficial to invertebrates. The key to finding even more deadwood invertebrates at Knepp is to continue exploring the site and to highlight accessible trees and other resources (such as blossom and soft bracket fungi) at just the right stage of decay for reactive and focused surveying. The number of deadwood beetles at Knepp is going to be far greater than the total provided in this report.

4.1 - Saproxylic Quality Index

An SQI of 655.9 for the whole site, sits the site in 11th place at the national level and firmly in 1st place in a Sussex context, comfortably ahead of the next site which is Parham Park (with an SQI of 614.6). If only the 101 species surveyed by the author in Repton Park alone are assessed, this still comes out at the 15th best site nationally and the 2nd best site after Parham Park (which is not far ahead). The Additional 14 species in the 'Repton Park all time' bring the SQI down slightly but it is still at the same point in the national and regional rankings. The identification of the aleocharine staphylinids from the survey may result in a decrease in the SQI but it's unlikely to be a dramatic one.

In the following two tables, each of the three scenarios is listed but only the highest scoring scenario is ranked.

Tab.4. Regional sites ranked by SQI.

Sussex rank	National rank		Site	SQI	No. of species
1st	11th		Whole Knepp Estate all time	655.9	129
2 nd	14th		Parham Park	614.6	82
	15th		Repton Park just 2020	610.0	101
	15th		Repton Park all time	607.9	115
3rd	16th		Cowdray Park	606.6	122
4th	23rd		Petworth Park	578	199
5 th	33rd		Arundel Park	543.5	131
6th	34th		Ebernoe Common	542.5	154
7 th	59th		The Mens	475.7	140

8 th	88 th		Chiddingfold	427.4	171
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4.2 - Revised Index of Ecological Continuity

The Knepp Estate has an RIEC of 71, making it the 2nd highest in Sussex. Nationally, this RIEC ranks the site at 24^h place. The RIEC for 'Repton Park all time' is 59, ranking it 5th place in a Sussex context and 33rd nationally. Just the data for 2020 from Repton Park would rank also rank the site at joint 5th place in Sussex, which it would share with Arundel Park and The Mens. Knepp is still relatively under recorded and there are likely to be many more species that are still to be recorded at the site.

Tab. 5. Regional sites ranked by RIEC

Sussex rank	National rank	Site	RIEC	No. of species
1st	16 th	Petworth Park	87	199
2nd	24 th	Whole Knepp Estate all time	71	129
3rd	26 th	Cowdray Park	70	122
4th	29 th	Ebernoe Common	65	154
		Repton Park all time	59	115
		Repton Park 2020	54	101
5 th joint	42 nd	Arundel Park	54	131
5 th joint	42 nd	The Mens	54	140
7 th joint	59 th	Chiddingfold	42	171
7 th joint	59 th	Parham Park	42	82

4.3 - Species recorded (recorder effort)

Knepp scores in sixth place in a regional context for the number of species recorded there. Showing that it has a relatively high RIEC for the number of species recorded there.

Tab. 6. Regional sites ranked by species count.

Sussex rank	National rank	Site	RIEC	No. of species
1st	13 th	Petworth Park	87	199
2nd	23 rd	Chiddingfold	42	165
3rd	30 th	Ebernoe Common	65	154
4th	39 th	The Mens	54	140
5 th	45 th	Arundel Park	54	131
6th	46 th	Whole Knepp Estate all time	71	129
7th	53 rd	Cowdray Park	70	122
		Repton Park all time	59	115
		Repton Park 2020	54	101
8th	99 th	Parham Park	42	82

5 - Management recommendations

5.1 - Deadwood management

The deadwood management is now extremely good at Knepp, fallen timber has been left in situ for decades now and this is commendable. The fallen tree at trap B has fallen across a track and being close to the woodyard/depot at the back of the Castle, it shows how seriously deadwood management is being taken that this has not been sawn up for access. Historically, it's clear this would have been the case, with very old sawn up timber evident in this area of the Estate.

5.2 - The woodyard, timber stack and biomass burner

The large stack of timber, mainly Ash but also oak and other wood, was one of the most productive places to find saproxylic beetles in the whole survey. *Lymexylon navale* was found to be ovipositing there and it was the only place that *Synchita humeralis* was recorded. Storing timber here at the heart of the site is always going to attract deadwood invertebrates, whereby they will lay their eggs and these are then destroyed in the biomass burner. The solution to this problem is a practical one. The obvious answer is to cover the timber to prevent deadwood beetles being attracted to the timber in the first place. This could be coupled with a 'working log pile' or two, that is situated near to the main stack. Placed in a dry, sunny and warm area, this 'sacrificial' pile of timber could be used to help further study deadwood invertebrate on the site. By placing here smaller sections of timber from a range of tree species (that will be left entirely to nature to decompose) it will be possible to both study the populations here with timber that will never be burnt and provide an alternative for them. If the main stacks were then covered with tarpaulins, it would be possible for deadwood invertebrates to find their way to this pile/piles, where they can safely carry out a full life cycle. They would need a small amount of 'topping up' annually to keep a range of ages of decay. Adding in some cylindrical cross sections stacked on top of each other is a convenient way of searching for deadwood invertebrates. By lifting the sections, deadwood beetles often gather in the gaps between cut sections of timber. This is too good an opportunity to miss with such a resource available. Over many years, the population on a site like this could become incredible.

Nectar sources

On the 9th May, the site was an explosion of Hawthorn blossom but it could always benefit from more, as much of it was very clumped. Some planting is already going on and this will only have a positive effect. Strategic planting close to existing veterans in areas where limited blossom is present should be made. The focus here should be living veterans and not dead trees however.

The sward in Repton Park was in a desperate condition in 2020, down to over-grazing and a summer drought. Having some flexibility on numbers as summer droughts become more of an issue will be vital for the development of a better sward. This is going to be covered in more detail in the author's wider survey.

Felled live healthy trees

Some healthy trees appeared to have been felled and placed in the centre of the grassland in field 4 to the south of Repton Park. These will have limited value for deadwood invertebrates being live healthy wood and it's the author's belief that these trees would be better left around the edge of any fields. In the centre of the fields, they are taking up a great deal of open grassland (the grassland on the edge of hedges is typically less interesting

due to enrichment from leaf fall and shade). It would also mean it's a longer way for other invertebrates to move to these felled trees, an unnecessary step and they do not benefit from the shelter of the hedgerows either. They are likely to have limited value due to the lack of natural decay either way. It would be easier and probably better for invertebrates to leave them where they fall.

Monitoring

A survey of this kind should only be repeated say every 10 years. Repeating the survey with four traps (but they would need to be placed at new locations to reflect the best sites at the time) would at least provide fairly comparable data.

The nature of the SQI/RIEC is that it is accumulative. The 'true' RIEC of the site is likely to be much higher and it could easily become the best site in Sussex for deadwood beetles with enough surveying. The author is happy to manage the master SQI/RIEC list for the Estate but encourages staff to record species where ever possible and report them back. In the summer of 2020, many moth-trappers recorded a wider range of saproxylics wandering far and wide and this is likely to be one way to build up a significant list of saproxylic species for Knepp. Beating Hawthorn is another excellent way to add to the site's list.

If one trap was to be run for some or all of 2021, then trap B would be the one that the author would suggest (being close to the Castle as much as anything). Trap D was also good but is a little further away and plagued by Hornets in late summer. And the branch it was hung off fell down too, making this difficult to survey now.

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Appendices

Appendix 1: All records are attached below. Some species recorded in the wider survey (such as *Pseudeuparius sepicola*) are not listed here. Those records are attached to that survey to present double recording.

Appendix 2: The three SQI/RIEC lists are too long to attach to this report so are sent with it as an attached Excel file. The author will maintain the master copy for the Estate of the three lists.

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Notolaemus unifasciatus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Dacne bipustulata</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Lasius brunneus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Euglenes oculus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	5 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	2 Adult	Microscopically examined
<i>Anaspis fasciata</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	2 Adult	Microscopically examined
<i>Temnothorax nylanderi</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	2 Adult	Microscopically examined
<i>Enicmus testaceus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	3 AdultPresent	Microscopically examined
<i>Dasytes aeratus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Xyleborinus saxeseni</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Cryptarcha strigata</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Orchestes signifer</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Paromalus flavicornis</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Cis bilamellatus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 AdultFemale	Microscopically examined
<i>Scolytus intricatus</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	4 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	4 Adult	Microscopically examined
<i>Xyleborinus saxeseni</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	2 Adult	Microscopically examined
<i>Ctesias serra</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Salpingus planirostris</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Meligethes</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 AdultFemale	Microscopically examined
<i>Pycnomerus fuliginosus</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Tomoxia bucephala</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Scolytus intricatus</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Pediacus dermestoides</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Xyleborinus saxeseni</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 AdultFemale	Microscopically examined
<i>Meligethes aeneus</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 AdultMale	Genitalia examined
<i>Dryocoetes villosus</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Helophorus brevipalpus</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Ochthebius dilatatus</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Colydium elongatum</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Anotylus sculpturatus</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 AdultMale	Genitalia examined
<i>Gyrophynus fracticornis</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Taphrorhynchus bicolor</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Dacne bipustulata</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Aphodius ater</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Pycnomerus fuliginosus</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Loricula elegantula</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Microscopically examined
<i>Helophorus brevipalpus</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	6 AdultMale	Microscopically examined
<i>Taphrorhynchus bicolor</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Microscopically examined
<i>Euophryum confine</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Euglenes oculatus</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	6 Adult	Microscopically examined
<i>Temnothorax nylanderi</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Dacne bipustulata</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Anaspis fasciata</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Trixagus obtusus</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Cantharis rufa</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Pentaphyllus testaceus</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Xyleborinus saxeseni</i>	2nd June to 9th June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Melasis buprestoides</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Microscopically examined
<i>Pycnomerus fuliginosus</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	11 Adult	Microscopically examined
<i>Enicmus testaceus</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	2 Adult	Microscopically examined
<i>Anaspis fasciata</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Euophryum confine</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Helophorus brevipalpus</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Taphrorhynchus bicolor</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Meligethes aeneus</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Genitalia examined
<i>Helophorus brevipalpus</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	3 AdultPresent	Microscopically examined
<i>Hemicoelus fulvicornis</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	3 AdultMale	Genitalia examined
<i>Acupalpus dubius</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Gabrius splendidulus</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Aphodius sticticus</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Lymexylon navale</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	3 AdultFemale	Microscopically examined
<i>Salpingus planirostris</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 AdultMale	Microscopically examined
<i>Meligethes</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 AdultFemale	Microscopically examined
<i>Helophorus brevipalpus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Xyleborinus saxeseni</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Enicmus brevicornis</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Tytthaspis sedecimpunctata</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Pediacus dermestoides</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Litarigus connexus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Corticaria elongata</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 AdultMale	Genitalia examined
<i>Tachys bistriatus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Eugenes oculus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Sunius propinquus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Phyllotreta undulata</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Hylesinus toranio</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Hylesinus toranio</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Meligethes aeneus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Genitalia examined
<i>Xyleborinus saxeseni</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	3 AdultMale	Microscopically examined
<i>Enicmus rugosus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 AdultMale	Microscopically examined
<i>Enicmus testaceus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Allygus mixtus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	2 Adult	Microscopically examined
<i>Platystethus nitens</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	2 Adult	Microscopically examined
<i>Cercyon pygmaeus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Enicmus histrio</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 AdultMale	Genitalia examined
<i>Meligethes aeneus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 AdultMale	Genitalia examined
<i>Corticarina minuta</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 AdultMale	Genitalia examined
<i>Anotylus tetracarinatus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	3 AdultPresent	Microscopically examined
<i>Ptilinus pectinicornis</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultFemale	Microscopically examined
<i>Ptilinus pectinicornis</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Microscopically examined
<i>Eugenes oculus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	2 Adult	Microscopically examined
<i>Litargus connexus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Helophorus brevipalpus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Xyleborinus saxeseni</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Meligethes aeneus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Genitalia examined
<i>Aphodius sticticus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Hemicoelus fulvicornis</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	6 Adult	Microscopically examined
<i>Anaspis garneysi</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Genitalia examined
<i>Stenurella melanura</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Enicmus testaceus</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Aphodius sticticus</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Taprorhynchus bicolor</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	6 Adult	Microscopically examined
<i>Xyleborus dryographus</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Xyleborinus saxeseni</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Helophorus grandis</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Helophorus aequalis</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 AdultMale	Genitalia examined
<i>Xantholinus longiventris</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Hylesinus varius</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Aphodius prodrromus</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Scolytus intricatus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	14 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Xyleborinus saxeseni</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Megasternum concinnum</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Helophorus brevipalpus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	9 Adult	Microscopically examined
<i>Helophorus minutus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Tachys bistriatus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Pediacus dermestoides</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	3 AdultPresent	Microscopically examined
<i>Anaspis costai</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 AdultMale	Genitalia examined
<i>Tachyporus hypnorum</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	3 AdultPresent	Microscopically examined
<i>Onthophagus similis</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Anotylus rugosus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Phyllotreta undulata</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Tachyporus chrysomelinus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Dryocoetes villosus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Meligethes aeneus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 AdultMale	Genitalia examined
<i>Atomaria lewisi</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Enicmus histrio</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Sericoderus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 AdultMale	Microscopically examined
<i>Tychus niger</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Tachyporus nitidulus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Taphrorhynchus bicolor</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Onthophagus similis</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Xantholinus longiventris</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Amara strenua</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Sitona lineatus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Cryptopleurum minutum</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Oxytelus laqueatus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Mordellochroa abdominalis</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	
<i>Anaspis regimbarti</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	
<i>Andricus quercusramuli</i>	9th May 2020	Field observation	Knepp Central Area	TQ15452163	Present Gall	

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Biston strataria</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Larva	
<i>Orthosia cerasi</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Larva	
<i>Esperia sulphurella</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	
<i>Orsodacne humeralis</i>	9th May 2020	Field observation	Knepp Central Area	TQ15142191	1 Adult	
<i>Gynobius planus</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	
<i>Poecilium alni</i>	9th May 2020	Field observation	Knepp Central Area	TQ15112184	2 Adult	Under bark
<i>Ballus chalybeius</i>	9th May 2020	Field observation	Knepp Central Area	TQ15172188	1 Present	
<i>Andricus foecundatrix</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	Present Gall	
<i>Ledra aurita</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Nymph	
<i>Vespa crabro</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	Present Adult	
<i>Hemitheia aestivaria</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Larva	
<i>Spuleria flavicaput</i>	9th May 2020	Field observation	Knepp Central Area	TQ15252202	1 Adult	
<i>Calvia quatuordecimguttata</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	
<i>Acanthosoma haemorrhoidale</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	
<i>Clytus arietis</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Netted
<i>Pyrochroa serraticornis</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	
<i>Epirrhoe alternata</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	
<i>Pycnomerus fuliginosus</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	
<i>Salticus zebraneus</i>	9th May 2020	Field observation	Knepp Central Area	TQ15912213	1 AdultFemale	
<i>Korynetes caeruleus</i>	9th May 2020	Field observation	Knepp Central Area	TQ15912213	1 Elyton	
<i>Xestobium rufovillosum</i>	9th May 2020	Field observation	Knepp Central Area	TQ15912213	1 Elyton	
<i>Uleiota planata</i>	9th May 2020	Field observation	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Under bark
<i>Lehmannia marginata</i>	9th May 2020	Field observation	Knepp trap C on fallen chestnut	TQ15762209	Present Adult	
<i>Oniscus asellus</i>	9th May 2020	Field observation	Knepp trap C on fallen chestnut	TQ15762209	Present Adult	
<i>Pachytodes cerambyciformis</i>	9th May 2020	Field observation	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	
<i>Chernes cimicoides</i>	9th May 2020	Field observation	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Obrium brunneum</i>	9th May 2020	Field observation	Knepp Central Area	TQ1582205	1 Adult	
<i>Ctesias serra</i>	9th May 2020	Field observation	Knepp Central Area	TQ1582205	1 Larva	Under bark
<i>Pyrochroa coccinea</i>	9th May 2020	Field observation	Knepp Central Area	TQ15492211	1 Adult	
<i>Pyrrhidium sanguineum</i>	9th May 2020	Field observation	Knepp trap B on fallen oak	TQ15672197	1 Adult	
<i>Brachypalpoidea lenta</i>	9th May 2020	Field observation	Knepp trap B on fallen oak	TQ15672197	1 Adult	
<i>Thanasimus formicarius</i>	9th May 2020	Field observation	Knepp Central Area	TQ15542194	1 Adult	Under log
<i>Notocelia roborana</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	
<i>Crassa tinctella</i>	9th May 2020	Field observation	Knepp Central Area	TQ15602148	Present Adult	
<i>Dromius quadrimaculatus</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Calodromius spilotus</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	
<i>Prionychus ater</i>	9th May 2020	Field observation	Knepp Central Area	TQ15642155	1 Elyton	Under bark
<i>Meioneta rurestris</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 AdultMale	Genitalia examined
<i>Hylyphantes graminicola</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 AdultMale	Genitalia examined
<i>Hahnina nava</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 AdultMale	Genitalia examined
<i>Pelecopsis parallela</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 AdultMale	Genitalia examined
<i>Hypomma cornutum</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 AdultMale	Genitalia examined
<i>Pyrrhidium sanguineum</i>	9th May 2020	Field observation	Knepp Central Area	TQ15502189	1 Adult	Genitalia examined
<i>Pachytodes cerambyciformis</i>	9th May 2020	Field observation	Knepp Central Area	TQ15502189	1 Adult	
<i>Pycnomerus fuliginosus</i>	9th May 2020	Field observation	Knepp Central Area	TQ15502189	1 Adult	
<i>Tetrops praeustus</i>	9th May 2020	Field observation	Knepp Central Area	TQ15502189	1 Adult	
<i>Hylesinus crenatus</i>	9th May 2020	Field observation	Knepp Central Area	TQ15502189	1 Adult	
<i>Agrilus sulcicollis</i>	9th May 2020	Field observation	Knepp Central Area	TQ15502189	1 AdultMale	Genitalia examined
<i>Litargus connexus</i>	9th May 2020	Field observation	Knepp Central Area	TQ15502189	1 Adult	
<i>Biphyllus lunatus</i>	9th May 2020	Field observation	Knepp Central Area	TQ15502189	1 Adult	
<i>Myathropa florea</i>	9th May 2020	Field observation	Knepp Central Area	TQ15502189	1 Adult	
<i>Rhagio scolopaceus</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Deraeocoris lutescens</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Tetrops praeustus</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Melasis buprestoides</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Dasytes aeratus</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Pediacus dermestoides</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	3 AdultPresent	Microscopically examined
<i>Kleidocerys resedae</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Denticollis linearis</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Tachyporus hypnorum</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Deraeocoris lutescens</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Ptinus palliatus</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Dasytes aeratus</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Anotylus rugosus</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Tachyporus hypnorum</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Arhopalus rusticus</i>	24th July 2020	Field observation	Knepp Central Area	TQ15581296	2 Adult	
<i>Hylesinus toranio</i>	19th May 2020	Field observation	Knepp Central Area	TQ15502189	1 Adult	Microscopically examined
<i>Prionychus ater</i>	11th June 2020	Field observation	Knepp Central Area	TQ15642155	1 Adult	Microscopically examined
<i>Calodromius spilotus</i>	11th June 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Microscopically examined

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Hemicoelus fulvicornis</i>	11th June 2020	Field observation	Knepp Central Area	TQ15672177	1 AdultMale	Genitalia examined
<i>Malthinus seriepunctatus</i>	11th June 2020	Field observation	Knepp Central Area	TQ156213	1 Adult	Microscopically examined
<i>Malthinus balteatus</i>	11th June 2020	Field observation	Knepp Central Area	TQ156213	2 Adult	Microscopically examined
<i>Sthenarus rotermundi</i>	11th June 2020	Field observation	Knepp Central Area	TQ15672177	Present Adult	Microscopically examined
<i>Anaspis costai</i>	11th June 2020	Field observation	Knepp Central Area	TQ15432179	Present AdultMale	Genitalia examined
<i>Epiphanius cornutus</i>	11th June 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Microscopically examined
<i>Tachys bistriatus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Meligethes</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 AdultFemale	Microscopically examined
<i>Myrmosa atra</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 AdultMale	Microscopically examined
<i>Deraeocoris lutescens</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Enicmus testaceus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Miris striatus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Deporaus betulae</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Hemicoelus fulvicornis</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Genitalia examined
<i>Gabrius splendidulus</i>	2nd June 2020	Field observation	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Cryptophagus setulosus</i>	2nd June 2020	Field observation	Knepp trap B on fallen oak	TQ15672197	1 AdultMale	Genitalia examined
<i>Helophorus brevivalpus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	6 Adult	Microscopically examined
<i>Helophorus brevivalpus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	5 Adult	Microscopically examined
<i>Helophorus brevivalpus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	3 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	5 Adult	Microscopically examined
<i>Euophryum confine</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Denticollis linearis</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Scolytus intricatus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	10 Adult	Microscopically examined
<i>Pediacus dermestoides</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Anaspis fasciata</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Dryocoetes villosus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Xyleborinus saxeseni</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	3 AdultFemale	Microscopically examined
<i>Xyleborinus saxeseni</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	3AdultMale	Microscopically examined
<i>Xyleborus dryophagus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Anotylus sculpturatus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Male	Genitalia examined
<i>Tetrops praeustus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Scolytus intricatus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	6 Adult	Microscopically examined
<i>Dryocoetes villosus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	2 Adult	Microscopically examined
<i>Xyleborinus saxeseni</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	3 Adult	Microscopically examined

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Euophryum confine</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Anaspis fasciata</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Dryocoetes villosus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Pentatoma rufipes</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Syntomus obscuroguttatus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	2 Adult	Microscopically examined
<i>Euglenes oculatus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	4 Adult	Microscopically examined
<i>Dacne bipustulata</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Paromalus flavicornis</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Triplax aenea</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Allygus mixtus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	3 Adult	Microscopically examined
<i>Latridius porcatus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Anaspis lurida</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Enicmus rugosus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	2 Adult	Microscopically examined
<i>Lymexylon navale</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Platypus cylindrus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	12 Adult	Microscopically examined
<i>Enicmus testaceus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Scolytus intricatus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Atomaria lewisi</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Tachyporus chrysomelinus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Euophryum confine</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Meligethes</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 AdultFemale	Microscopically examined
<i>Anobium punctatum</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 AdultMale	Genitalia examined
<i>Euophryum confine</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Meligethes</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Enicmus histrio</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Salpingus planirostris</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Dromius quadrimaculatus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Enicmus brevicornis</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Litargus connexus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Bembidion quadrimaculatum</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Anotylus rugosus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Hylesinus varius</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Ampedus elongantulus</i>	4th September 2020	Field observation	Knepp Central Area	TQ15102217	1 Adult	Microscopically examined
<i>Enicmus brevicornis</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	3 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Salpingus planirostris</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Enicmus brevicornis</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Monotoma picipes</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	3 Adult	Microscopically examined
<i>Platypus cylindrus</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Aphodius sticticus</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Cryptophagus setulosus</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 AdultFemale	Microscopically examined
<i>Cis boleti</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Taphrorychus bicolor</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Xyleborus dryophagus</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	3 Adult	Microscopically examined
<i>Onthophagus similis</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Aphodius sticticus</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	2 Adult	Microscopically examined
<i>Cis boleti</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Gerris odontogaster</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultFemale	Microscopically examined
<i>Tachys bistriatus</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Syntomus obscurouguttatus</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Platypus cylindrus</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Tachys bistriatus</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Megasternum concinnum</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Syntomus obscurouguttatus</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Dorcatoma</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 AdultFemale	Microscopically examined
<i>Megasternum concinnum</i>	20th August to 4th September	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Deraeocoris ruber</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Paromalus flavicornis</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	2 Adult	Microscopically examined
<i>Axinotarsus marginalis</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 AdultFemale	Microscopically examined
<i>Anotylus nitidulus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	2 Adult	Microscopically examined
<i>Scaptia testacea</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Dorcatoma chrysomelina</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 AdultMale	Microscopically examined
<i>Dorcatoma dresdensis</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 AdultMale	Genitalia examined
<i>Dorcatoma dresdensis</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	3 AdultFemale	Microscopically examined
<i>Temnostethus gracilis</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Philonthus cognatus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Gastrophysa viridula</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Lymexylon navale</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	3 AdultFemale	Microscopically examined

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Galerucella nymphalae</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Tytthaspis sedecimpunctata</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Euglenes oculus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Pediacus dermestoides</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Litargus connexus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Scolytus intricatus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	7 Adult	Microscopically examined
<i>Lymexylon navale</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 AdultFemale	Microscopically examined
<i>Euglenes oculus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	10 Adult	Microscopically examined
<i>Dacne bipustulata</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Orsodacne humeralis</i>	12th May 2020	Field observation	Knepp Central Area	TQ15672177	Present Adult	Microscopically examined
<i>Dasytes aeratus</i>	12th May 2020	Field observation	Knepp Central Area	TQ15672177	Present Adult	Microscopically examined
<i>Cis pygmaeus</i>	12th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Microscopically examined
<i>Litargus connexus</i>	12th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Microscopically examined
<i>Calodromius spilotus</i>	12th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Microscopically examined
<i>Dromius quadrimaculatus</i>	12th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	2 Adult	Microscopically examined
<i>Kleidocerys resedae</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Hemicoelus fulvicornis</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Microscopically examined
<i>Euophryum confine</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Andrena</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultFemale	Microscopically examined
<i>Sphecodes</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultFemale	Microscopically examined
<i>Sphecodes</i>	23rd June to 9th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 AdultMale	Microscopically examined
<i>Sepedophilus littoreus</i>	19th May 2020	Field observation	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Melasis buprestoides</i>	12th to 19th May 2020	Field observation	Knepp trap B on fallen oak	TQ15672197	1 AdultMale	Microscopically examined
<i>Tetrops praeustus</i>	12th to 19th May 2020	Field observation	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Pediacus dermestoides</i>	12th to 19th May 2020	Field observation	Knepp trap B on fallen oak	TQ15672197	4 Adult	Microscopically examined
<i>Aphodius ater</i>	12th to 19th May 2020	Field observation	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Epitrix pubescens</i>	12th to 19th May 2020	Field observation	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Dasytes aeratus</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Denticollis linearis</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Aneurus avenius</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Melanotus castanipes</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Genitalia examined
<i>Enicmus testaceus</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Aphodius sticticus</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	2 Adult	Microscopically examined

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Dasytes aeratus</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Enicmus testaceus</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Aphodius sticticus</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Dasytes aeratus</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	4 Adult	Microscopically examined
<i>Aphodius sticticus</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Tachyporus hypnorum</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Ptinus palliatus</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Meligethes carinulatus</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 AdultMale	Genitalia examined
<i>Tachyporus hypnorum</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Anotylus rugosus</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Enicmus histrio</i>	12th to 19th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Agrotis exclamationis</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Phylus palliceps</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Phylus melanocephalus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Deraeocoris lutescens</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Nephrotoma quadrifaria</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	2 Adult	Microscopically examined
<i>Tetragatha montana</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 AdultMale	Genitalia examined
<i>Euglenes oculus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	3 Adult	Microscopically examined
<i>Cryptarcha strigata</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Lasius brunneus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	2 Adult	Microscopically examined
<i>Denticollis linearis</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Tetrops praeustus</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Salpingus planirostris</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Scolytus intricatus</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	Present Adult	Microscopically examined
<i>Cryptolestes duplicatus</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Megatoma undata</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Synchita separanda</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Plegaderus dissectus</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Lathys humilis</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	Present Taxon	Microscopically examined
<i>Notolaemus unifasciatus</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	2 Adult	Microscopically examined
<i>Agrotis exclamationis</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Achaearanea lunata</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultFemale	Genitalia examined
<i>Coenagrion puella</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Genitalia examined
<i>Erigone dentipalpis</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Genitalia examined
<i>Tenuiphantes tenuis</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Genitalia examined

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Theridion varians</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Genitalia examined
<i>Ceraleptus lividus</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Cartodere nodifer</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Sericoderus</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Berytinus minor</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Phyllotreta undulata</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Phyllotreta undulata</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	2 Adult	Microscopically examined
<i>Platypus cylindrus</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Rugilus</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Bradycellus verbasci</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Tachyporus</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Xyleborus dryographus</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Philonthus carbonarius</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 AdultMale	Genitalia examined
<i>Platypus cylindrus</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	7 Adult	Microscopically examined
<i>Phyllotreta undulata</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Sphinginus lobatus</i>	25th June 2020	Field observation	Knepp - field 5 - Twenty Seven Acres	TQ14512071	1 Adult	Microscopically examined
<i>Ptinus palliatus</i>	25th June 2020	Field observation	Knepp - field 5 - Twenty Seven Acres	TQ14612079	1 Adult	Microscopically examined
<i>Lasius brunneus</i>	09/05/2020	Field observation	Knepp Central Area	TQ15602165	Present Count of Adult	Microscopically examined
<i>Litargus connexus</i>	09/05/2020	Field observation	Knepp Central Area	TQ15602165	1 Count of Adult	Microscopically examined
<i>Salticus zebraneus</i>	09/05/2020	Field observation	Knepp Central Area	TQ15602165	1 Count of Adult Male	Microscopically examined
<i>Malachius bipustulatus</i>	09/05/2020	Field observation	Knepp Central Area	TQ15672177	Present Count of Adult	Microscopically examined
<i>Dasytes aeratus</i>	09/05/2020	Field observation	Knepp Central Area	TQ15672177	Present Count of Adult	Microscopically examined
<i>Anaspis maculata</i>	09/05/2020	Field observation	Knepp Central Area	TQ15672177	Present Count of Adult	Microscopically examined
<i>Tetrops praeustus</i>	09/05/2020	Field observation	Knepp Central Area	TQ15672177	Present Count of Adult	Microscopically examined
<i>Euproctis similis</i>	09/05/2020	Field observation	Knepp Central Area	TQ15642161	1 Count of Larva	Microscopically examined
<i>Allophyes oxyacanthae</i>	09/05/2020	Field observation	Knepp Central Area	TQ15642161	1 Count of Larva	Microscopically examined
<i>Marpissa muscosa</i>	09/05/2020	Field observation	Knepp Central Area	TQ15672177	Present Count of Taxa	Microscopically examined
<i>Dorcus parallelipipedus</i>	09/05/2020	Field observation	Knepp Central Area	TQ15692154	1 Count of Elyton	Microscopically examined
<i>Prionychus ater</i>	09/05/2020	Field observation	Knepp Central Area	TQ15692154	1 Count of Elyton	Microscopically examined
<i>Nuctenea umbratica</i>	09/05/2020	Field observation	Knepp Central Area	TQ15672177	Present Count of Taxa	Microscopically examined
<i>Stenostola dubia</i>	09/05/2020	Field observation	Knepp Central Area	TQ15642156	1 Count of Adult	Microscopically examined
<i>Crassa tinctella</i>	09/05/2020	Field observation	Knepp Central Area	TQ15642156	Present Count of Adult	Microscopically examined
<i>Salticus zebraneus</i>	09/05/2020	Field observation	Knepp Central Area	TQ15642156	1 Count of Adult Male	Microscopically examined
<i>Grammoptera ruficornis</i>	09/05/2020	Field observation	Knepp Central Area	TQ15672177	Present Count of Adult	Microscopically examined

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Cardiastethus fasciventris</i>	09/05/2020	Field observation	Knepp Central Area	TQ15672177	1 Count of Adult	Microscopically examined
<i>Rhagonycha lignosa</i>	09/05/2020	Field observation	Knepp Central Area	TQ15672177	1 Count of Adult	Microscopically examined
<i>Eupractis chrysorrhoea</i>	09/05/2020	Field observation	Knepp Central Area	TQ15672177	1 Count of Larva	Microscopically examined
<i>Sitticus pubescens</i>	02/06/2020	Field observation	Knepp central woodyard	TQ15502188	1 Count of Adult Male	Microscopically examined
<i>Platypus cylindrus</i>	02/06/2020	Field observation	Knepp trap B on fallen oak	TQ15642193	1 Count of Adult	Microscopically examined
<i>Brachypalpus laphriformis</i>	02/06/2020	Field observation	Knepp trap B on fallen oak	TQ15642193	1 Count of Adult	Microscopically examined
<i>Metalampra italica</i>	09/06/2020	Field observation	Knepp central woodyard	TQ15502188	1 Count of Adult	Microscopically examined
<i>Crassa unitella</i>	09/06/2020	Field observation	Knepp central woodyard	TQ15502188	1 Count of Adult	Microscopically examined
<i>Korynetes caeruleus</i>	09/06/2020	Field observation	Knepp - field 3 - Brook's Plat	TQ15912212	1 Count of Adult	Microscopically examined
<i>Eledona agricola</i>	09/06/2020	Field observation	Knepp - field 3 - Brook's Plat	TQ15952218	Present Count of Adu	Microscopically examined
<i>Rhagonycha lutea</i>	09/06/2020	Field observation	Knepp - field 3 - Brook's Plat	TQ15792219	1 Count of Adult	Microscopically examined
<i>Dasycera oliviella</i>	09/06/2020	Field observation	Knepp - field 3 - Brook's Plat	TQ15632220	1 Count of Adult	Microscopically examined
<i>Pyrrhodium sanguineum</i>	26/05/2020	Field observation	Knepp central woodyard	TQ15502188	1 Count of Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	26/05/2020	Field observation	Knepp central woodyard	TQ15502188	Present Count of Adu	Microscopically examined
<i>Colydium elongatum</i>	26/05/2020	Field observation	Knepp central woodyard	TQ15502188	1 Count of Adult	Microscopically examined
<i>Phymatodes testaceus</i>	26/05/2020	Field observation	Knepp central woodyard	TQ15502188	1 Count of Adult	Microscopically examined
<i>Uleiota planatus</i>	26/05/2020	Field observation	Knepp central woodyard	TQ15542194	1 Count of Adult	Microscopically examined
<i>Paromalus flavicornis</i>	26/05/2020	Field observation	Knepp central woodyard	TQ15542194	1 Count of Adult	Microscopically examined
<i>Phloeophagus lignarius</i>	26/05/2020	Field observation	Knepp central woodyard	TQ15542194	1 Count of Adult	Microscopically examined
<i>Sinodendron cylindricum</i>	26/05/2020	Field observation	Knepp trap B on fallen oak	TQ15642193	1 Count of Adult Male	Microscopically examined
<i>Bitoma crenata</i>	26/05/2020	Field observation	Knepp trap B on fallen oak	TQ15642193	Present Count of Adu	Microscopically examined
<i>Colydium elongatum</i>	26/05/2020	Field observation	Knepp trap B on fallen oak	TQ15642193	Present Count of Adu	Microscopically examined
<i>Pyrrhodium sanguineum</i>	26/05/2020	Field observation	Knepp trap B on fallen oak	TQ15642193	Present Count of Adu	Microscopically examined
<i>Phymatodes testaceus</i>	26/05/2020	Field observation	Knepp trap B on fallen oak	TQ15642193	Present Count of Adu	Microscopically examined
<i>Thanasimus formicarius</i>	26/05/2020	Field observation	Knepp central woodyard	TQ15502188	Present Count of Adu	Microscopically examined
<i>Thanasimus formicarius</i>	26/05/2020	Field observation	Knepp trap B on fallen oak	TQ15642193	Present Count of Adu	Microscopically examined
<i>Ptilinus pectinicornis</i>	26/05/2020	Field observation	Knepp trap B on fallen oak	TQ156215	1 Count of Adult Male	Microscopically examined
<i>Dasycera oliviella</i>	26/05/2020	Field observation	Knepp trap B on fallen oak	TQ156215	1 Count of Adult	Microscopically examined
<i>Dorcus parallelipipedus</i>	26/05/2020	Field observation	Knepp trap B on fallen oak	TQ15652155	1 Count of Adult	Microscopically examined
<i>Opilo mollis</i>	27/05/2020	Field observation	Knepp Central Area	TQ15492177	1 Count of Adult	Microscopically examined
<i>Amaurobius ferox</i>	27/05/2020	Field observation	Knepp Central Area	TQ15492177	Present Count of Fem	Microscopically examined
<i>Triaxomera parasitella</i>	27/05/2020	Field observation	Knepp central woodyard	TQ15502188	1 Count of Adult	Microscopically examined
<i>Platytes cerussella</i>	27/05/2020	Field observation	Knepp central woodyard	TQ15502188	1 Count of Adult	Microscopically examined
<i>Anaspis costai</i>	11/06/2020	Field observation	Knepp Central Area	TQ15432179	Present Count of Adu	Microscopically examined
<i>Grammoptera ruficornis</i>	11/06/2020	Field observation	Knepp Central Area	TQ15432179	Present Count of Adu	Microscopically examined

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Orthotylus tenellus</i>	11/06/2020	Field observation	Knepp Central Area	TQ15432179	Present Count of Adult	Microscopically examined
<i>Korynetes caeruleus</i>	11/06/2020	Field observation	Knepp Central Area	TQ150220	1 Count of Adult	Microscopically examined
<i>Malthinus seriepunctatus</i>	11/06/2020	Field observation	Knepp Central Area	TQ156213	Present Count of Adult	Microscopically examined
<i>Lymexylon navale</i>	23/06/2020	Field observation	Knepp central woodyard	TQ15502188	4 Count of Adult Female	Microscopically examined
<i>Xylocoris cursitans</i>	23/06/2020	Field observation	Knepp central woodyard	TQ15502188	1 Count of Adult	Microscopically examined
<i>Aeletes atomarius</i>	23/06/2020	Field observation	Knepp trap B on fallen oak	TQ15642193	1 Count of Adult	Microscopically examined
<i>Sphindus dubius</i>	23/06/2020	Field observation	Knepp trap B on fallen oak	TQ1564219	1 Count of Adult	Microscopically examined
<i>Scydmaenus rufus</i>	10th July to 24th July 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Bolitochara lucida</i>	9th June 2020	Field observation	Knepp - field 3 - Brook's Plat	TQ15952218	Present Adult	Microscopically examined
<i>Soronia grisea</i>	26th May to 2nd June 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15672197	1 Adult	Microscopically examined
<i>Orchesia undulata</i>	03/08/2020	Field observation	Knepp Southern Area	TQ14012079	1 Adult	
<i>Stenagostus rhombeus</i>	9th May to 4th September	Field observation	Knepp Central Area	TQ15672177	Present Adult	
<i>Cerylon ferrugineum</i>	9th May to 4th September	Field observation	Knepp Central Area	TQ15672177	Present Adult	
<i>Corticaria alleni</i>	9th May to 4th September	Aerial Interception Trap	Knepp Central Area	TQ15672177	1 AdultMale	Genitalia examined
<i>Synchita humeralis</i>	26th May 2020	Field observation	Knepp central woodyard	TQ15502188	1 Adult	Microscopically examined
<i>Abdera biflexuosa</i>	2nd June 2020	Field observation	Knepp Central Area	TQ16092104	1 Adult	Microscopically examined
<i>Pediacus dermestoides</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	5 Adult	Microscopically examined
<i>Dacne bipustulata</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	4 Adult	Microscopically examined
<i>Acupalpus dubius</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Scolytus intricatus</i>	26th May 2020	Field observation	Knepp Central Area	TQ15672177	2 Adult	Microscopically examined
<i>Pediacus dermestoides</i>	26th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Microscopically examined
<i>Paromalus flavicornis</i>	26th May 2020	Field observation	Knepp Central Area	TQ15672177	3 Adult	Microscopically examined
<i>Dromius quadrimaculatus</i>	26th May 2020	Field observation	Knepp Central Area	TQ15672177	2 Adult	Microscopically examined
<i>Dromius meridionalis</i>	26th May 2020	Field observation	Knepp Central Area	TQ15672177	2 Adult	Microscopically examined
<i>Anaspis pulicaria</i>	26th May 2020	Field observation	Knepp Central Area	TQ15672177	1 AdultFemale	Microscopically examined
<i>Quedius cruentus</i>	26th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Microscopically examined
<i>Calodromius spilotus</i>	26th May 2020	Field observation	Knepp Central Area	TQ15672177	3 Adult	Microscopically examined
<i>Uleiota planatus</i>	26th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Microscopically examined
<i>Anaspis regimbarti</i>	26th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Microscopically examined
<i>Hylesinus crenatus</i>	26th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Microscopically examined
<i>Aneurus avenius</i>	26th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Microscopically examined
<i>Anaspis lurida</i>	26th May 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Microscopically examined
<i>Dryocoetes villosus</i>	26th May 2020	Field observation	Knepp Central Area	TQ15672177	2 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	4 Adult	Microscopically examined

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Tytthaspis sedecimpunctata</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Scolytus intricatus</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	4 Adult	Microscopically examined
<i>Tachyporus hypnorum</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Megasternum concinnum</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Dacne bipustulata</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Pediacus dermestoides</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Xyleborinus saxeseni</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	5 Adult	Microscopically examined
<i>Atomaria linearis</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 AdultMale	Genitalis examined
<i>Amara strenua</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 AdultMale	Microscopically examined
<i>Corticicara gibbosa</i>	19th May to 26th May 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 AdultMale	Microscopically examined
<i>Euglenes oculatus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	22 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	3 Adult	Microscopically examined
<i>Dacne bipustulata</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Scraptia testacea</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Enicmus testaceus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Dryocoetes villosus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Dromius quadrimaculatus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Cis bilamellatus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 AdultMale	Microscopically examined
<i>Ahasverus advena</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 AdultMale	Microscopically examined
<i>Malthodes marginatus</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 AdultMale	Microscopically examined
<i>Anaspis garneysi</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 AdultMale	Microscopically examined
<i>Anaspis pulicaria</i>	9th May 2020	Field observation	Knepp Central Area	TQ15672177	1 AdultFemale	Microscopically examined
<i>Enicmus testaceus</i>	19th May to 26th May 2020	Field observation	Knepp trap B on fallen oak	TQ15642193	1 Adult	Microscopically examined
<i>Scolytus intricatus</i>	19th May to 26th May 2020	Field observation	Knepp trap B on fallen oak	TQ15642193	27 Adult	Microscopically examined
<i>Pycnomerus fuliginosus</i>	19th May to 26th May 2020	Field observation	Knepp trap B on fallen oak	TQ15642193	7 Adult	Microscopically examined
<i>Tetrops praeustus</i>	19th May to 26th May 2020	Field observation	Knepp trap B on fallen oak	TQ15642193	1 Adult	Microscopically examined
<i>Acrotrichis grandicollis</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Aleocharine</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	18 Adult	Microscopically examined
<i>Salpingus planirostris</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	2 Adult	Microscopically examined
<i>Ptilinus pectinicornis</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 AdultFemale	Microscopically examined
<i>Cryptopleurum minutum</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Meligethes</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	2 AdultFemale	Microscopically examined
<i>Helophorus brevivalpus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	2 Adult	Microscopically examined
<i>Acupalpus dubius</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Dryocoetes villosus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined

Species	Date	Sample method	Location	Grid ref	Abundance	Record type
<i>Scolytus intricatus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Meligethes nigrescens</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 AdultMale	Genitalia examined
<i>Tachyporus</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	5 Adult	Microscopically examined
<i>Monotoma bicolor/quadrifollis</i>	9th June to 23rd June 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 AdultFemale	Microscopically examined
<i>Tychius picirostris</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	2 Adult	Microscopically examined
<i>Tachyporus hypnorum</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Aleocharine</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Sphaeridium marginatum</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Enicmus histrio</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Xyleborus dryographus</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Sitona lepidus</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Syntomus obscurouguttatus</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	4 Adult	Microscopically examined
<i>Aleocharine</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	3 Adult	Microscopically examined
<i>Syntomus obscurouguttatus</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Tychius picirostris</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Enicmus brevicornis</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	4 Adult	Microscopically examined
<i>Tachinus</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Microscopically examined
<i>Epurea</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultFemale	Microscopically examined
<i>Aleocharine</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	4 Adult	Microscopically examined
<i>Helophorus brevipalpus</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Taphrorychus bicolor</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 Adult	Microscopically examined
<i>Cryptophagus dentatus</i>	12th May to 19th May 2020	Aerial Interception Trap	Knepp trap C on fallen chestnut	TQ15762209	1 AdultMale	Genitalia examined
<i>Dryocoetes villosus</i>	7th August 2020	Field observation	Knepp Central Area	TQ15672177	1 Adult	Microscopically examined
<i>Aleocharine</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15642193	2 Adult	Microscopically examined
<i>Corticaria gibbosa</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15642193	1 Adult	Genitalia examined
<i>Mycetophagus piceus</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 Adult	Microscopically examined
<i>Aleocharine</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	4 Adult	Microscopically examined
<i>Dorcatoma</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 AdultFemale	Microscopically examined
<i>Euglenes oculatus</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	5 Adult	Microscopically examined
<i>Corticarina minuta</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 AdultMale	Genitalia examined
<i>Cis bilamellatus</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	1 AdultFemale	Microscopically examined
<i>Phyllotreta nemorum</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap D fallen oak limb	TQ15282205	2 Adult	Microscopically examined
<i>Syntomus obscurouguttatus</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	3 Adult	Microscopically examined
<i>Hylesinus varius</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	1 Adult	Microscopically examined
<i>Aleocharine</i>	6th to 20th August 2020	Aerial Interception Trap	Knepp trap A in front of castle	TQ15602165	3 Adult	Microscopically examined
<i>Tychius picirostris</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15642193	1 Adult	Microscopically examined
<i>Euplectus tholini</i>	23rd July to 7th August 2020	Aerial Interception Trap	Knepp trap B on fallen oak	TQ15642193	1 AdultMale	Genitalia examined