

**THE CURRENT STATUS OF
ANAPTYCHIA CILIARIS
IN ENGLAND**



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SUMMARY

Anaptychia ciliaris subsp. *ciliaris* is a distinctive shrubby lichen found on the well-lit trunks and upper branches of basic-barked trees, particularly Ash, Elm, Maple and Sycamore. It has always been a species of agricultural landscapes and is most often found on old trees in parks, pastures and along roads and trackways. *A. ciliaris* subsp. *ciliaris* is listed as Vulnerable on the Red List and has been put forward for inclusion on the new UK Biodiversity Action Plan (BAP) Priority Species list. Subspecies *mamillata*, is a rare taxon of maritime rocks and is listed as Near Threatened on the Red List.

Over the last forty years subsp. *ciliaris* has undergone a significant decline and has become very rare or extinct in many counties, including some where it was formerly widespread such as Kent. Between 1960 and 1979 it was recorded from 259 10-km squares, but between 1980 and 2000 there are records from just 79 10-km squares. The reasons for this decline are a combination of the death of large Elms due to Dutch Elm disease, atmospheric and agricultural pollution and the continuing loss of old wayside trees.

The overall distribution of the species has now shifted from south-east England to southern and south-west England with the largely rural counties of Devon and Dorset supporting the majority of the surviving populations. In the south-east it is largely extinct as an epiphyte, but survives very locally on memorials in old churchyards.

Anaptychia ciliaris subsp. *ciliaris* remains very vulnerable, as in many of the remaining sites it is confined just one or two trees and therefore could be lost if the host tree dies or is felled. At several sites it has been lost due to Ivy colonising the tree trunk. Because the species occurs in otherwise improved landscapes it is poorly represented within Sites of Special Scientific Interest, therefore protection and correct management to ensure survival of this species needs to be addressed through agri-environment schemes such as Entry Level Stewardship (ELS).

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Cover illustration: James Sowerby, c.1804, from English Botany

BACKGROUND

Anaptychia ciliaris subsp. *ciliaris* (Acc) is a large, shrubby (fruticose), lichen that is typically found on the basic bark of hedgerow, parkland and wayside trees. Formerly a familiar species over much of England, over the last 40 years it has undergone a significant decline and has become very rare or even extinct in some counties. The widespread loss of large Elm trees due to Dutch Elm Disease (DED), coupled with the general loss of old parkland and wayside trees and hypertrophication due to intensive agriculture are largely responsible for the decline of this species.

In some ways the loss of this large and conspicuous species went, for a time, un-noticed by lichenologist's mainly because the species tends to occur in largely agricultural landscapes that are not normally surveyed with any regularity. Because it grows in largely improved habitats it is not well represented within Sites of Special Scientific Interest (SSSIs).

In 2003 *Anaptychia ciliaris* subsp. *ciliaris* was added to the Red List and is listed as Vulnerable (Woods & Coppins, 2003). In 2007 it was put forward for inclusion on the revised list of Biodiversity Priority Species (BAP) under the UK Biodiversity Action Plan. *A. ciliaris* subsp. *mamillata* is a Nationally Scarce species and listed as Near Threatened in the Red List.

METHODS

The study comprises two distinct parts; i) the collation of past records and information, and ii) field survey of selected sites.

The collation exercise involved obtaining records from a number of sources including the British Lichen Society Mapping Scheme, the British Lichen Society Database, the Threatened Lichen Database, local floras' and from active lichen recorders. The records were then assigned, wherever possible, to a vice-county and put in date order by 10-km square. Unlocalised records are included and are mainly from the BLS Mapping Scheme. Information such as grid reference, date, recorder and tree host was attached to a record wherever possible. It was also important to note when a site had been lost as the reason for its loss (e.g. death of tree, trunk covered in Ivy).

A small amount of survey work was carried out to make an assessment of the current status of the species in its strongholds in central southern England. Generally sites where records were made before 1980 were not visited.

TAXONOMY

Order: *Lecanorales*
Family: *Physciaceae*
Genus: *Anaptychia*
Species: *ciliaris*
Subspecies: subsp. *ciliaris*
 subsp. *mamillata*

Anaptychia belongs to the order *Lecanorales* and to the family *Physciaceae*. It is particularly close to *Heterodermia* from which it differs by the absence of the lichen substance atronorin.

Anaptychia is a small genus of c. 15 species found in the Northern Hemisphere and Africa.

In Britain there are only three taxa. *Anaptychia runcinata* is a widespread species of coastal siliceous rocks extending locally inland, and is very rarely found on trees. *A. ciliaris* is represented by two subspecies. Subspecies *ciliaris* has greyish, tomentose (finely hairy) lobes and is largely found on basic bark, and only rarely on mossy rocks and memorials in churchyards. Subspecies *mamillata* has narrower lobes that are brown when dry and greenish when wet and are not tomentose. It is largely restricted to coastal rocks, but was formerly found inland.

IDENTIFICATION

Thallus shrubby 3–5 (–10) cm diam., ± strap-shaped, loosely attached; lobes elongate, to 3–5 cm long, irregularly branched, ± spreading horizontally with ascending apices and numerous conspicuous, pale, entangled cilia along their margins. Upper surface ± finely tomentose. Lower surface pale brownish white, without rhizines or lower cortex. Apothecia occasional, 2–5 mm diam.; disc brown-black, often blue-grey pruinose; thalline exciple smooth, even to conspicuously deeply crenulate.

KEY TO BRITISH ANAPTYCHIA TAXA

- 1** Lobes closely adpressed, dark brown, attached by rhizines below; marginal cilia absent
..... ***runcinata***
- Lobes ± ascending, white to grey-brown, partly unattached, not attached by rhizines below;
with pale grey-white marginal cilia **2**
- 2(1)** Lobes white-grey to pale-fawn, tomentose, > 2mm wide; predominantly epiphytic
..... ***ciliaris* subsp. *ciliaris***
- Lobes dark grey-brown, green when wet, not tomentose, c. 2 mm wide; on maritime rocks
..... ***ciliaris* subsp. *mamillata***



FIG 1. A well developed thallus of *Acc* growing with *Xanthoria parietina* on a Sycamore, Kingston Lacy Park, Dorset, February 2007.



FIG 2. Fertile thallus of *Acc* on old Sycamore by roadside, Winterborne Came, Dorset, February 2007.

PAST AND DISTRIBUTION IN ENGLAND

Overall *Acc* has, or had, a south-easterly distribution in Britain and is largely restricted to lowland regions. The distribution maps (maps 1-5) shows that subsp. *ciliaris* has been recorded 53 English vice-counties. By 1960 it had already been lost from 10 vice-counties, mostly in eastern and north-eastern England, probably largely due to SO₂ pollution from industrial sources and also the loss of old wayside and parkland trees. Since 1960 a major factor in the decline of the species was the loss of the old Elms due to the aggressive strain of DED that swept Britain from the mid 1970s. Between 1960 and 1989 the species showed a dramatic and sustained decline and was lost from a further 32 vice-counties, including former strongholds such as Berkshire, Oxfordshire, East Norfolk and from north-eastern England.

Published accounts of the lichen flora of Britain are much rarer than for vascular plants, therefore it is often difficult to find reliable information on the past distribution of species.

Looking through several of the early lichen floras' provides a little information.

Smith and Sowerby (1810) note the species as "*No less abundant than the last [referring to *Physcia tenella*] in its appropriate situations, which are the trunks and branches of large trees, sometimes stones, where it is found at all seasons bearing copious shields [fruits]*".

Lorrain-Smith (1918) gave a little more detail than Smith & Sowerby noting "*On the trunks of old trees, chiefly oaks and elms in cultivated districts. General and plentiful in England, scarcer elsewhere throughout the British Isles.*"

At a county level there are several early accounts of the species:

"*Common on old elms*" Jones and Kingston 1829 (referring to Devon)

"*Common in Devon, Mr Parfitt*" Leighton (1879).

"*On trees in woods not rare*" Winch 1832, Flora of Northumberland and Durham. (Gilbert, 1980).

"*On trunks of trees and on rocks, not uncommon*" G Johnston 1831, A flora of Berwick upon Tweed. (Gilbert, 1980)

"*Frequent throughout the county on trunks of old trees (ash, elm, oak, poplar, lime etc.)*" W Watson 1930, The Lichens of Somerset.

"*On the trunks of old trees; common*" Knight (1948) The Lichens of Gloucestershire. Proceedings of the Cotswold Naturalists' Field Club Vol. 30. HH Knight, revised and edited by W Watson.

A glance at more recent lichen floras' indicate a widespread decline in quantity and health:

The Lichen Flora of Devon shows a decline from 20 10-km sq to 7 10-km sq (Benfield, 2001).

"*Local on eutrophic bark of ash, elm, maple, walnut and willow, preferring old, isolated trees: rare on sheltered limestone. Mostly stunted and sterile.*" Berks, Bucks and Oxon (Bowen, 1980).

"*Rare and decreasing. Trunks of old trees particularly elms*". "*This is the outstanding example of a species considered widespread by early lichenologists but which has subsequently declined under the influence of SO₂ pollution.*" Northumberland (Gilbert, 1980).

"*Widespread but rather rare. Many former sites were on *Ulmus*; at present known on *Fraxinus*, *Acer* and *Quercus* trunks in open, wayside or parkland situations*". Hampshire (Rose in Brewis *et al*, 1996.)

“Once frequent on elm, now uncommon on large trees of ash, maple or sycamore, more rarely on lime or oak”. Dorset (Bowen, 2000)

“Formerly local but widespread on elms”. *“Has declined dramatically with the demise of elms and now very rare”*. Isle of Wight (Pope in Pope *et al*, 2003).

“Widespread and formerly rather frequent, but much reduced by death of large Elms (though it survives on Ulmus at Firle Park), so now rather rare, and extinct in some former areas.” Sussex (Rose and Coppins in Rose *et al*, 1991).

Maps 6 and 7 show that the overall distribution of *Acc* has changed from a south-easterly bias to a southern or south-westerly bias, with Devon and Dorset supporting the bulk of the post-1980 records. *Acc* does persist in south-east England, but mostly as small populations on a few memorials in old churchyards.

SUMMARY OF DISTRIBUTION BY VICE-COUNTY

1a West Cornwall

There are no records for subsp. *ciliaris* from this vice-county, but subsp. *mamillata* has recently been recorded from The Lizard, and there are older records from other parts of the coast.

1b Isles of Scilly

Subsp. *mamillata* is recorded from Bryher (Ranwell, c.1963), but has not been recorded in recent years.

2 East Cornwall

There is one unlocalised pre-1960 record from 10 km square SW96 in the BLS mapping scheme, but there is no other data.

3 South Devon & 4 North Devon

The species was described as common by the 19th Century lichenologist Parfitt, but the recent flora (Benfield, 2001) shows a significant decline from 20 10-km squares to just 7 since 1980. There are a number of recent records from the county all of which are from single trees in parkland and wayside habitats. The record from rocks at Prawle Point (Holmes, c. 1879) may have been of subsp. *mamillata* but there is no voucher specimen.

5 South Somerset & 6 South Somerset

Described as “*frequent throughout the county*” by Watson (1930) the species has declined significantly with recent records (within the last 10 years) from just two sites, Nettlecombe Park SSSI and Montacute Park near Yeovil. Montacute is a very important site for the species, and may support the largest population of *Acc* remaining in the country. A survey of the Park for The National Trust in 2004 found it to be present on 17 Limes trees and 2 Oak trees.

7 North Wiltshire & 8 South Wiltshire

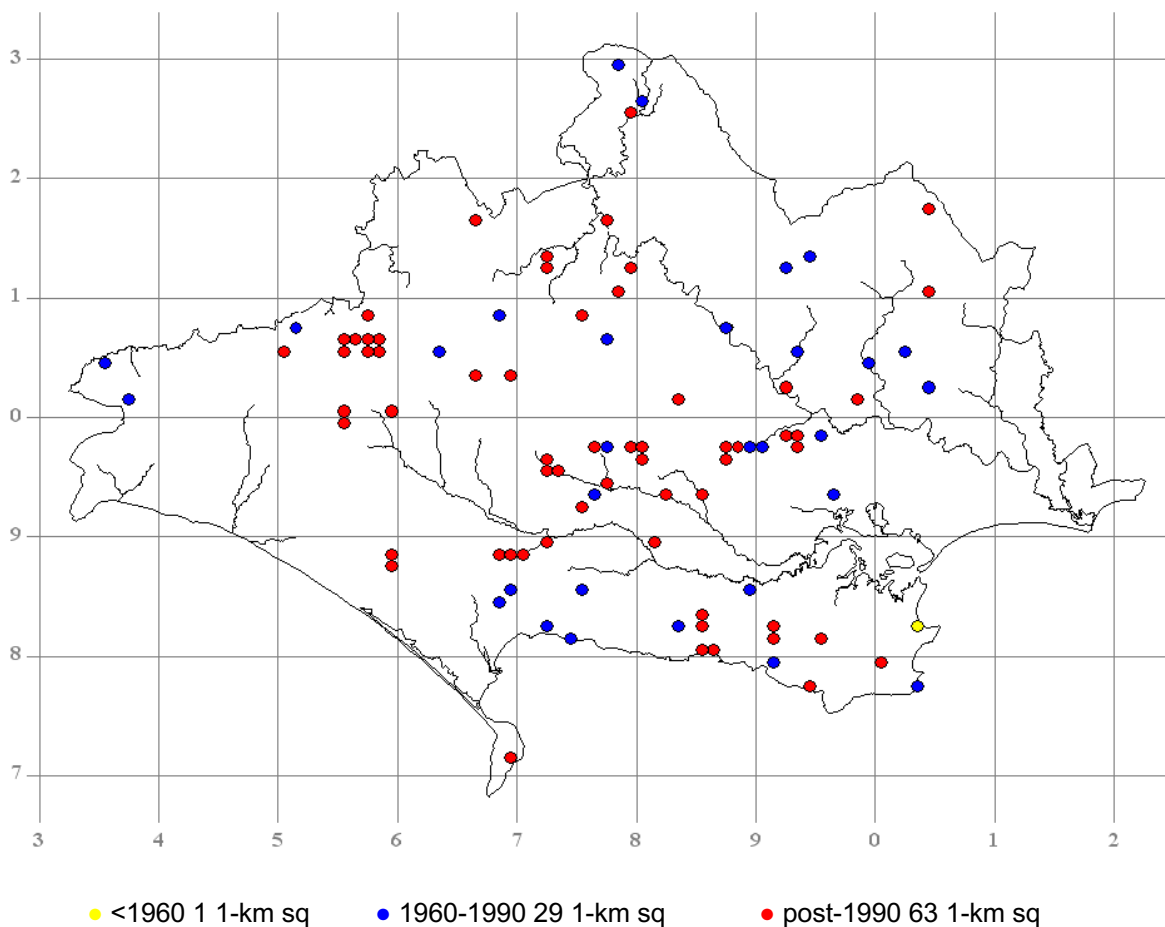
This species was formerly found throughout the county on parkland and pasture trees, although the number of localised records that were traced during this project was small. Dr F Rose recorded it in some of the more important parklands such as Longleat and Rushmore, plus from several roadside and wayside trees. Many of the records were from Elm, but it may have survived on old Ash and Maple. There are two very recent records; one from Piggledene where it is found on one old Ash tree and the second is from an avenue of old Ash trees

9 Dorset

Dorset is a well-recorded and relatively unpolluted county and, apart from Kent (VCs15 & 16), has more records for *Acc* than any other county. The species is still widespread with recent (post-1990) records from approximately 30 localities. However, like other counties the species has declined significantly, especially with the loss of the old Elms, and there are still losses due to the natural death of old trees and to Ivy encroaching onto the trunks of trees in or close to hedgerows. Also at the vast majority of sites the species is restricted to just one or two trees, making it vulnerable to local extinctions from the loss of the host tree. Known losses include from an Ash tree outside of the Church at Droop (ST7508) and an Ash tree near Badbury Rings (ST9703), both of which have become dominated by Ivy, effectively eliminating all epiphytic lichens, and an Ash tree in a field at Doddings (SY9583) which has died of natural causes.

The main habitat in the county is parkland and wayside trees. The few remaining old parklands such as Lulworth and Melbury, which are both SSSIs, and Stock Gaylard support important populations. More recent 18th or 19th Century landscaped parks, for example Winterborne Came and Winterborne Herrington, to the south of Dorchester, and Kingston Lacy near Wimborne are also of importance. Came Park and Kingston Lacy are recognised as Sites of Nature Conservation Importance (SNCI) for their epiphytic lichen flora.

MAP 1. Distribution of *Anaptychia ciliaris* in Dorset



10 Isle of Wight

Formerly widely distributed on *Ulmus* this species has declined significantly (Pope, 2003) and since 1980 there are only a few recent records from single *Fraxinus* and *Quercus* trees. Some trees have been lost and species now appears to be confined to one *Quercus* near Swainston (Pope, 2003).

11 South Hampshire

Acc has always been rare in the New Forest, but was recorded on a number of trees, particularly *Ulmus*, from around the margins. Most of the sites, e.g. Blashford, have been lost but the species survives on single Oak trees at Brook in the north-east of the New Forest, and further east on Bishops Waltham Moors.

12 North Hampshire

More frequent than in South Hampshire the species was recorded from a number of parkland sites, and from roadside and wayside trees. There have been many losses due to the death of the Elms, but it has survived in small quantity on a few Ash and Sycamore, with the most recent record from an Ash pollard in 1998.

13 West Sussex & 14 East Sussex

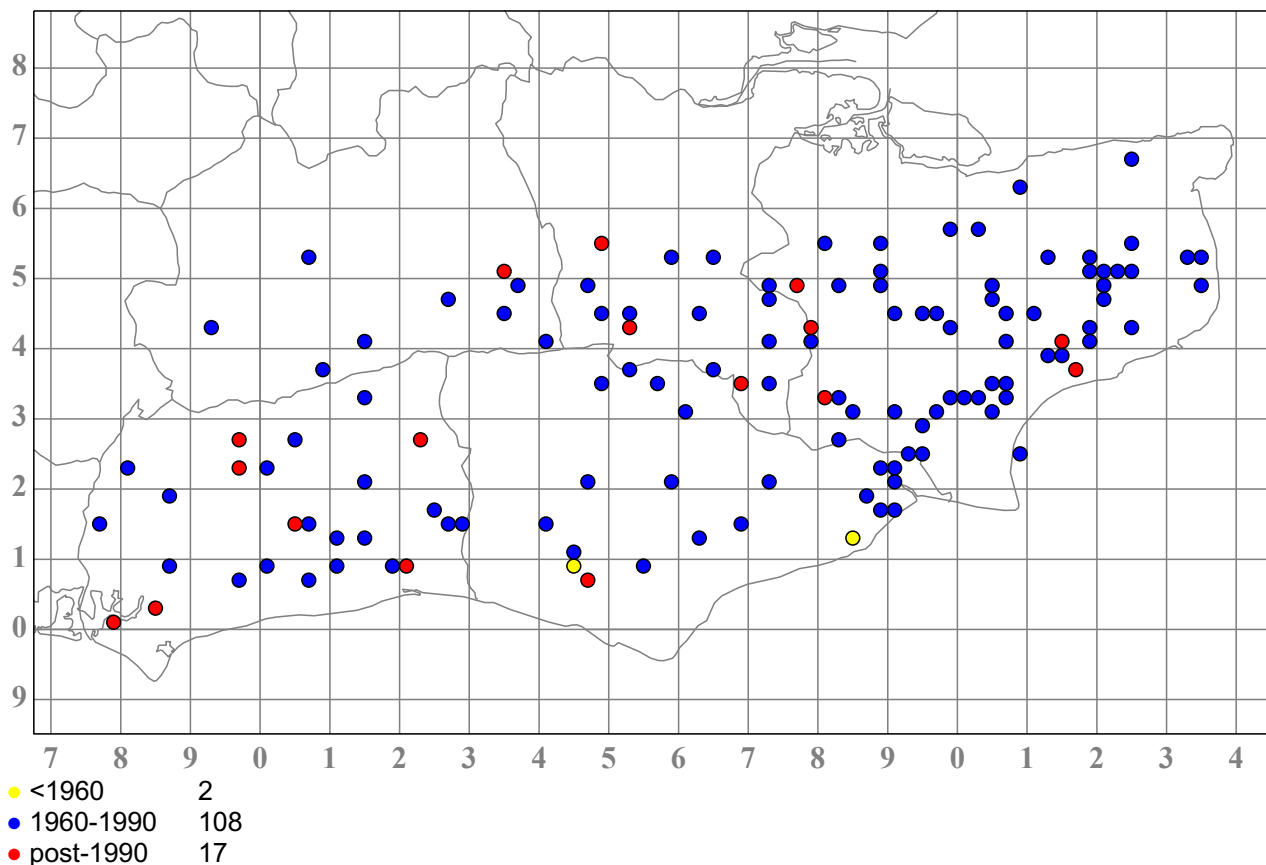
Formerly widespread throughout the county this species has declined significantly, largely due to the loss of the large Elms. It may survive locally on mossy memorials in churchyards, or on old Ash, Maple or Sycamore in some of the larger parks. The most recent records for this species are from Donnington (1992) and Parham Churchyards (1991) in West Sussex and from Firlie Park (1991) in East Sussex.

15 East Kent & 16 West Kent

Kent supports more records for *Acc* than any other English county. Surveys of parklands by Dr F Rose, sometimes in the company of PW James and TDV Swinscow, found the species to be widespread on old Elms, with a number of records from Ash, Maple and Sycamore. A re-survey of many parks by the Kent Field Club has shown a catastrophic decline, with only one recent record from a Black Poplar at Scotney Castle Park in 2001. The species does however survive on memorials in a small number of churchyards.

17 Surrey

Surrey has a few records of this species in the south of the county, mostly from old Ash and Elms in parkland and wayside habitats, with one record from a headstone in Godstone Churchyard. The last record from the county appears to be from 1970.



MAP 2. Tetrad distribution of *Acc* in south-east England, West and East Sussex, Surrey and West and East Kent. From 1960-1989 there records from 125 tetrads, but since 1990 there are records from only 17.

18 South Essex & 19 North Essex

The only localised record from Essex is from Kelveden around 1870. There are several un-localised records from the BLS mapping scheme, but these are all pre-1960 and the species is presumed to be extinct in the county.

20 Hertfordshire

There are only un-localised pre-1960 records from the county and the species is most probably extinct.

21 Middlesex

There is one un-localised pre-1960 record.

22 Berkshire

There quite a number of records of the species from Berkshire, mainly from the late Dr HJM Bowen who published a lichen flora Berks, Bucks and Oxon in 1980. Many of the records were from old Elms in parkland and wayside habitats and consequently were lost with the death of the Elms. The

last dated record from Berkshire is from Chieveley Churchyard in 1982. The species may persist in the county on Ash or Sycamore in one of the larger parks, or on memorials in churchyards.

23 Oxfordshire

As with Berkshire there are many records of the species from the 1970s and 1980s by Dr HJM Bowen, with the vast majority on old Ash, Elm, Maple or Sycamore in parklands or by roadsides. There are two records from churchyards, and the species may survive here. There have been no records from the county since 1990.

24 Buckinghamshire

Being so near to London there are few post-1960 records of the species from the county. The last dated record is from Stowe by Dr F Rose in 1967, although Dr HJM Bowen may have recorded here at a later date. There is one record from a churchyard at Quanton.

25 East Suffolk and 26 West Suffolk

Acc was formerly well distributed in both vice-counties but there are few post-1960 records. The last dated record is 1968 from Ickworth Park in West Suffolk. *Acc* is presumed to be extinct in both vice-counties.

27 East Norfolk and 28 West Norfolk

Acc was quite widespread in the eastern part of West Norfolk and throughout East Norfolk. The species has declined dramatically and there are only two post-1980 records. The most recent records are from Fritton Common, East Norfolk, in 1992 and from Hillborough Park, West Norfolk, in 1992. The species was not seen at Fritton Common since in 2007 (P Lambley pers comm.).

29 Cambridgeshire

There are several old records, but only one post-1960 record that is unlocalised and from the BLS Mapping Scheme.

30 Bedfordshire

There are only three records from this small county, two of which are post-1960. The last dated record is from an Elm in Woburn Abbey Park in 1967. The species is probably extinct in the county.

32 Northamptonshire

There are a cluster of records from the south of the county, but most are unlocalised records from the BLS Mapping Scheme. However, the species still survives on a sandstone memorial in Thorpe Mandeville churchyard.

33 East Gloucestershire and 34 West Gloucestershire

From the old records *Acc* seems to have been quite widespread in Gloucestershire, but there like most counties there has been a severe decline. However, it still survives, albeit in small quantity,

on Ash trees at Seven Springs and on the Highgrove Estate. There are also two recent records from memorials in churchyards.

36 Herefordshire

There are a number of recent records of this species from the north and east of the county. In 1990 it was found at Croft Castle Park and at Downton Gorge NNR, but there are no further records. *Acc* may survive in one of the counties many parks or on old wayside trees.

37 Worcestershire

There are four post-1960 records from the west of the county, but none more recent.

38 Warwickshire

There are quite a number of records of *Acc* from Warwickshire, including four post-1960 records from the south of the county. However, only one is localised and is from Weston-under-Wetherby church in 1992. The species may be present in other old churchyards.

39 Staffordshire

There are only two unlocalised pre-1660 BLS Mapping Scheme records from this county.

40 Shropshire

There are no records since 1960 from Shropshire, though the older records suggest it may have quite widespread in the less polluted southern part of the county.

53 South Lincolnshire & 54 North Lincolnshire

There is only one record from this vice-county from a memorial in the churchyard at Langton-by-Partney in 1977. The current status of the species here is uncertain.

55 Leicestershire

There are five pre-1960 records from this county, but only one is localised and was from Twycross before 1900.

56 Nottinghamshire

There are six unlocalised pre-1960 records from the county, but no other details have come to light.

57 Derbyshire

There are four unlocalised records of *Acc* from the county, two of which are post-1960. They are thought to be from stone rather than from trees.

61 South-east Yorkshire, 62 North-east Yorkshire, 63 South-west Yorkshire, 64 Mid-west Yorkshire & 65 North-west Yorkshire

Acc was formerly widespread in this area with many pre-1960, most of which were probably before 1900 but there are very few localised records to back this up. The few post-1960 records are also unlocalised, with the most recent dated record from Lartington Hall park in 1969 in vc 65.

66 Durham

There are a cluster of post-1960 records from the western part of the vice-county, but the most dated record is from near Newbiggin in 1969, and the species may be extinct.

67 South Northumberland, 68 Cheviot

Comments from early floras suggest that *Acc* was frequent in parts of the county before the effects of industrial pollution. In his Lichen Flora of Northumberland Gilbert (1980) remarks that it 'rare and decreasing' and is confined to a small number of trees. The last dated records are from Calally Castle and Chillingham Castle, both in 1969.

69 Westmorland

Acc has been recorded from 5 10-km squares within the vice-county, but all except one are pre-1960. The record from NY52 is post-1960, but there are no other details.

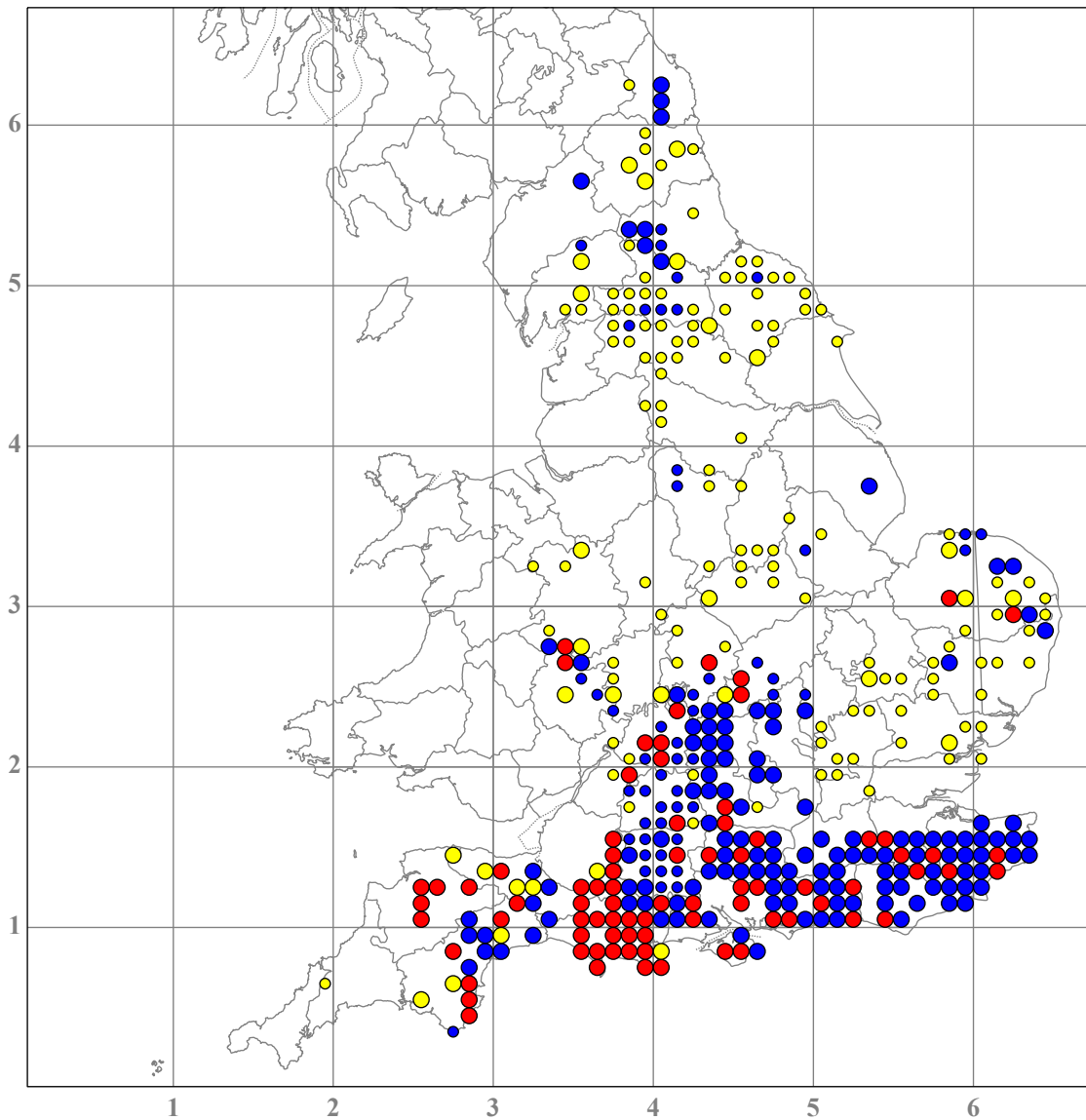
70 Cumberland

The only record of *Acc* in this vice-county from 1972 on a Sycamore in the grounds of Lanercost Priory.

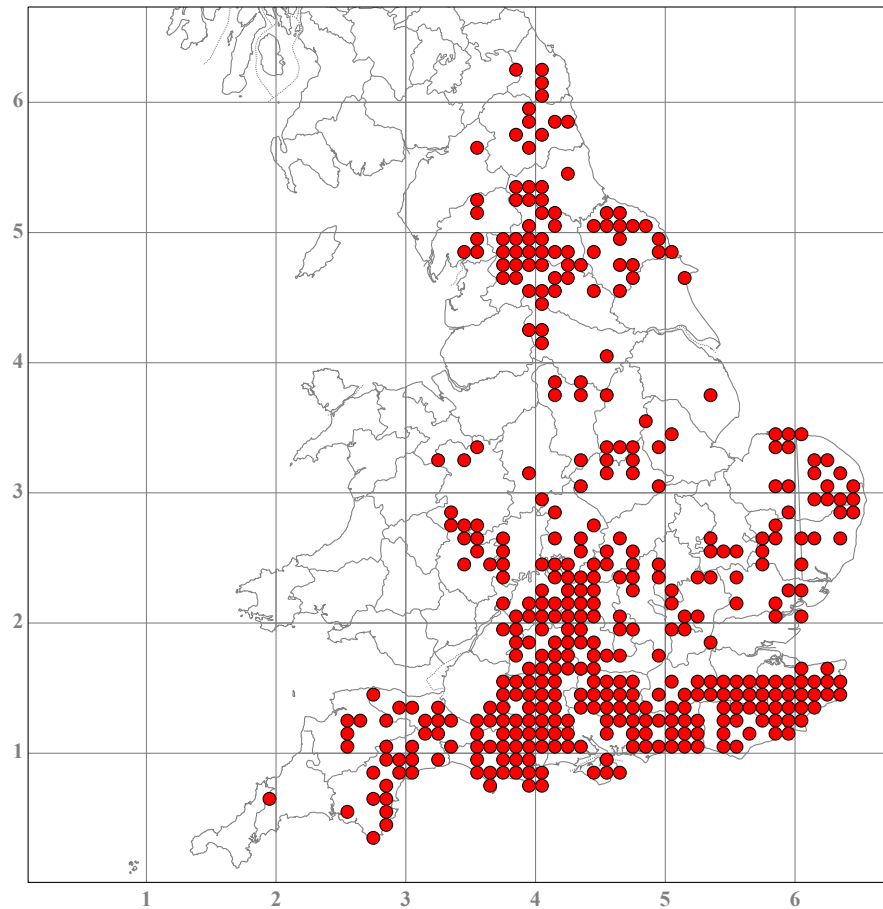
TABLE 1. Summary of status of *Anaptychia ciliaris* subsp. *ciliaris* in English vice-counties

VICE-COUNTY	CURRENT STATUS	DATE OF LAST RECORD
2, East Cornwall	Extinct	
3, South Devon	Extant	2005, Greenway
4, North Devon	Extant	2004, Fishleigh
5, South Somerset	Extant	2007, Montacute Park
6, North Somerset	? Extinct	1982, Mells Park
7, North Wiltshire	Extant	2003, Piggledene
8, South Wiltshire	Extant	2005, Copehill Down
9, Dorset	Extant	2007
10, Isle of Wight	Extant	1999, Swainston on 1 <i>Quercus</i>
11, South Hampshire	Extant	2005, Brook & Bishops Waltham Moors
12, North Hampshire	Extant	1998, Hackwood Park
13, West Sussex	Extinct	1992, Donnington churchyard
14, East Sussex	Extinct	1991, Firlie Park
15, East Kent	Extinct	1993, three churchyards
16, West Kent	Extant	2001, Scotney Castle Park, on 1 Black Poplar
17, Surrey	? Extinct	1996, Godstone churchyard
18, South Essex	Extinct	
19, North Essex	Extinct	
20, Hertfordshire	? Extinct	
21, Middlesex	Extinct	
22, Berkshire	? Extinct	
23, Oxfordshire	? Extinct	
24, Buckinghamshire	? Extinct	<1988, Stowe Park
25, East Suffolk	? Extinct	1968, Ickworth Park
26, West Suffok	? Extinct	
27, East Norfolk	? Extinct	1992, Fritton Common,
28, West Norfolk	? Extinct	1992, Hillborough Park, 1992
29, Cambridgeshire	Extinct	
30, Bedfordshire	? Extinct	1967, Woburn Park
31, Huntingdonshire	Extinct	
32, Northamptonshire	Extant	1999, Thorpe Mandeville churchyard
33, East Gloucestershire	Extant	2003, Seven Springs, on <i>Fraxinus</i>
34, West Gloucestershire	Extinct	
36, Herefordshire	Extinct	1986, Brampton Bryan Park
37, Worcestershire	Extinct	
38, Warwickshire	Extinct	1992, Weston-under Wetherby churchyard
39, Staffordshire	Extinct	
40, Shropshire	Extinct	
53, South Lincolnshire	Extinct	
54, North Lincolnshire	? Extinct	1977, Langton-by-Partney, in churchyard
55, Leicestershire	Extinct	
56, Nottinghamshire	Extinct	
57, Derbyshire	? Extinct	
61, South-east Yorkshire	Extinct	
62, North-east Yorkshire	Extinct	
63, South-west Yorkshire	Extinct	
64, Mid-west Yorkshire	Extinct	
65, North-west Yorkshire	Extinct	1969, Lartington Hall Park
66, Durham	Extinct	1969, Newbiggin, near
67, South Northumberland	Extinct	
68, North Northumberland	Extinct	1969, Chillingham Castle & Calally Castle
69, Westmorland	Extinct	
70, Cumberland	Extinct	1973, Lanercost Priory

MAP 3. The distribution of *Anaptychia ciliaris* subsp. *ciliaris* in England

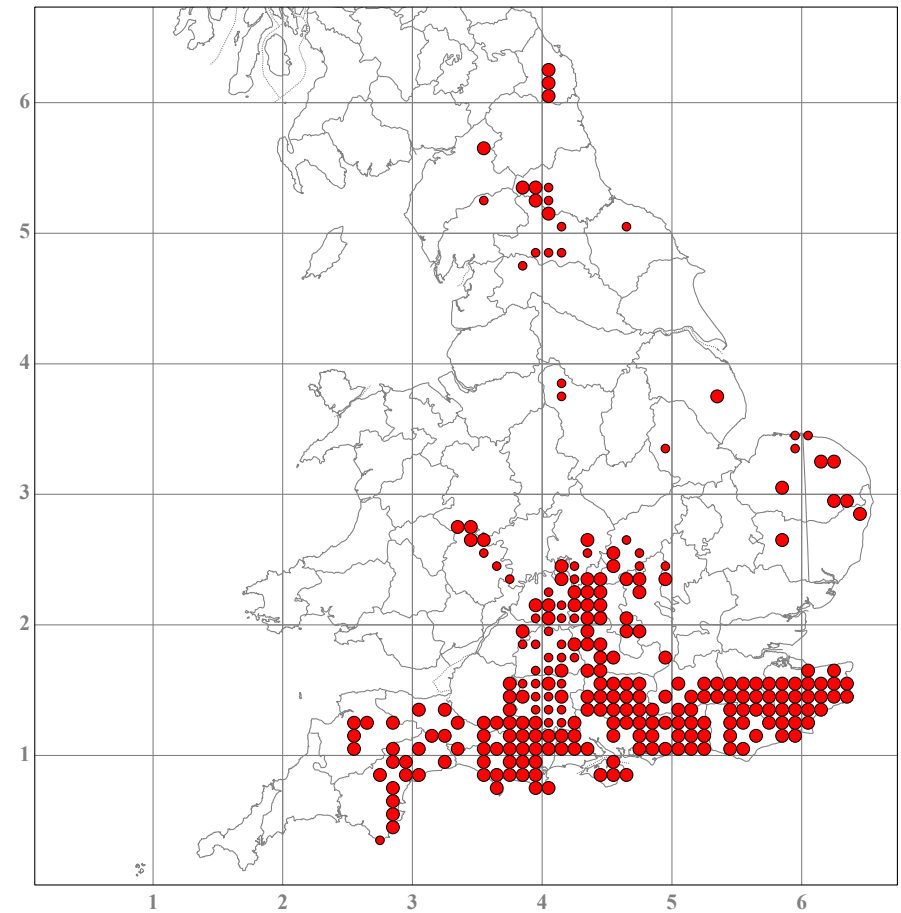


● 1980-present 10-km sq:	79
● 1960-1979 10-km sq:	129
● Post-1960 10-km sq: - unlocalised	50
● <1960 10-km sq:	29
● <1960 10-km sq: - unlocalised	116
Total no. 10-km sq:	403



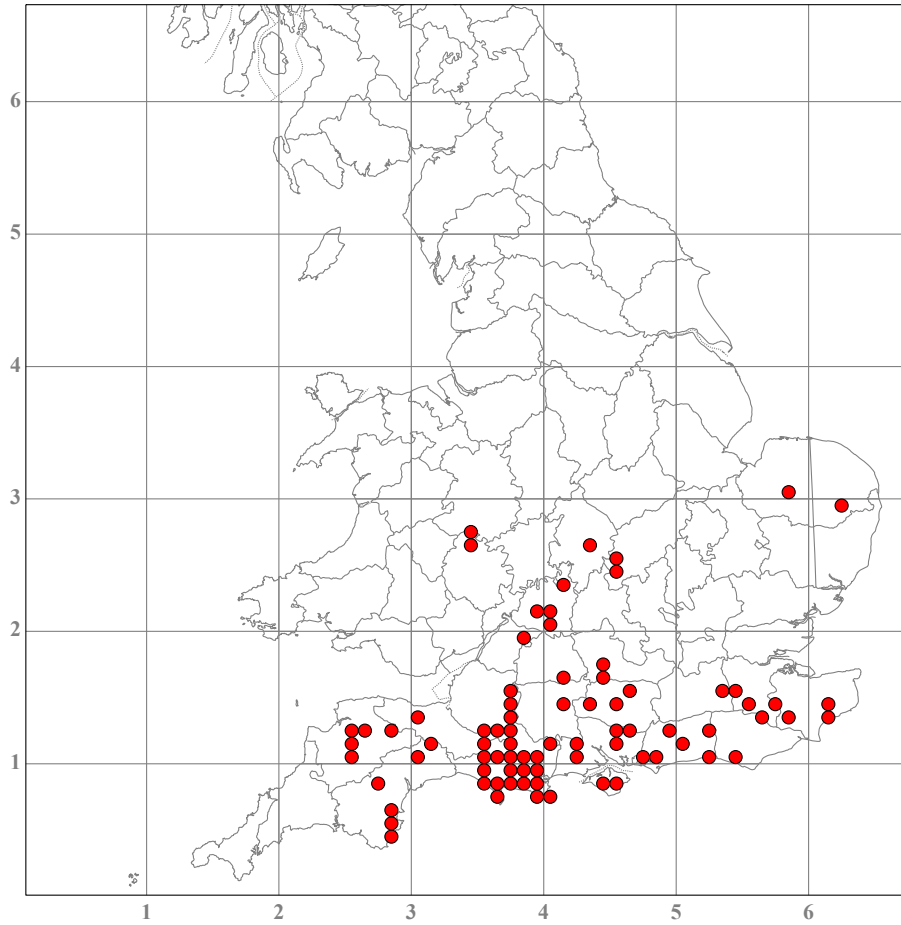
MAP 4. *Anaptychia ciliaris* subsp. *ciliaris* all records

403 km squares



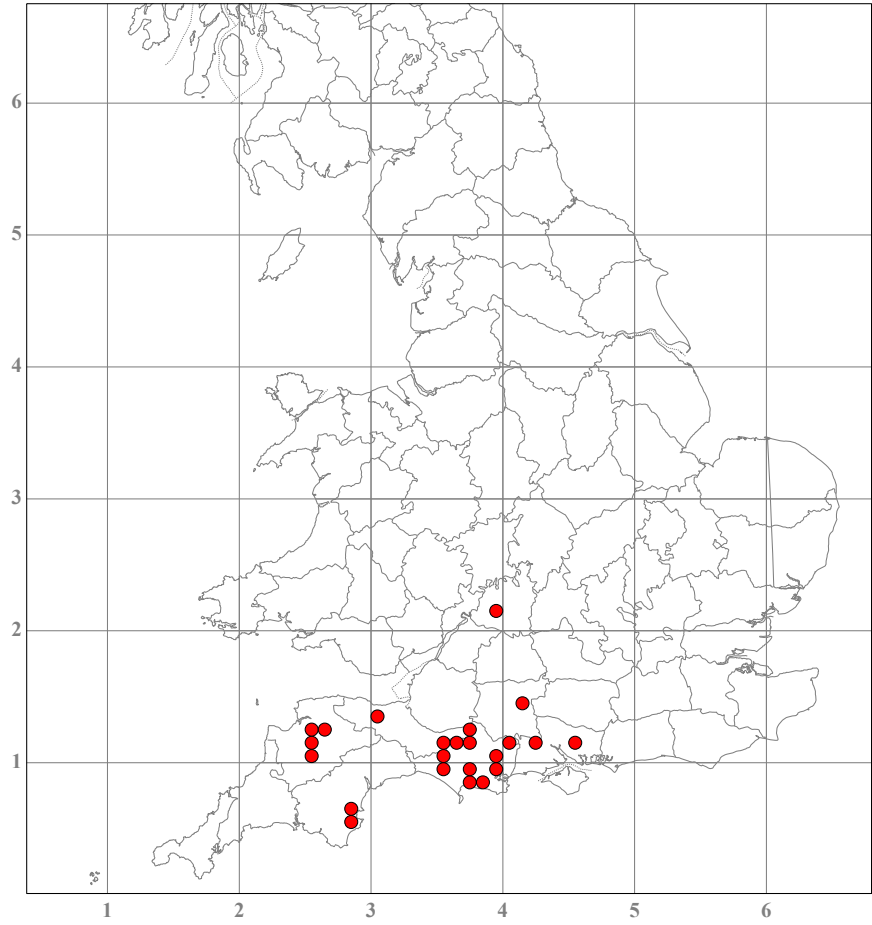
MAP 5. *Anaptychia ciliaris* subsp. *ciliaris* 1960-1979 records

259 10-km squares



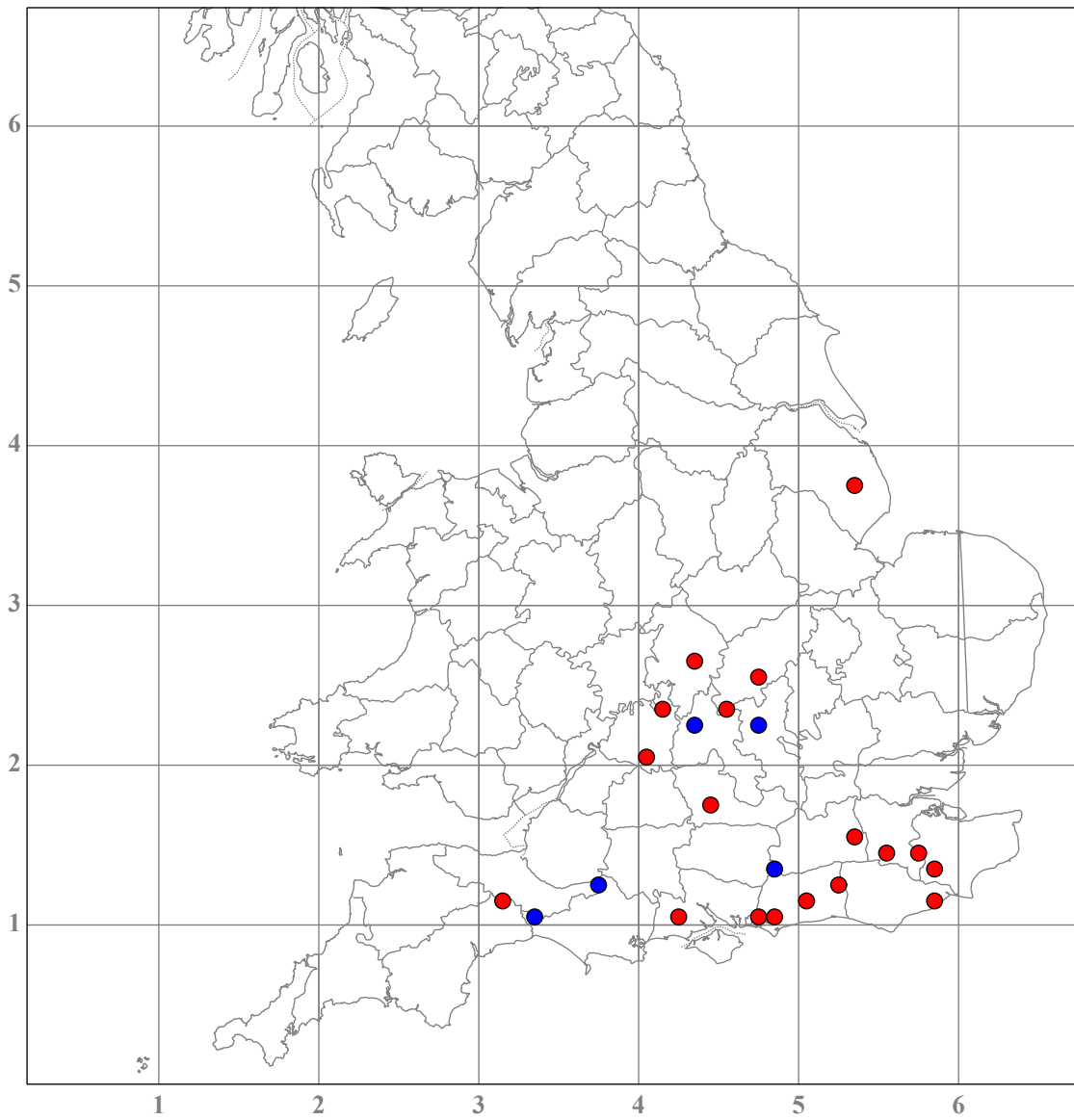
MAP 6. *Anaptychia ciliaris* subsp. *ciliaris* records 1980-1999

79 10-km squares



MAP 7. *Anaptychia ciliaris* subsp. *ciliaris* records post-2000

23 10-km squares



MAP 7. *Anaptychia ciliaris* subsp. *ciliaris*, localised saxicolous records, mainly from memorials in churchyards

- 1980-present 10-km sq: 18
- 1960-1979 10-km sq: 5

ECOLOGY

In England *Acc* is predominantly an epiphyte found on the trunks, or more occasionally large limbs, of old trees. It shows a strong preference for trees with a basic bark such as *Acer*, *Fraxinus* and *Tilia*. Until recently *Ulmus* was a common host. The bark of the trees may also be further enriched by particles dust and dung from grazing animals, as the trees are typically found in open situations by in parklands and pastures and by roadsides and trackways. The species is only rarely present in closed woodland situations where it occurs in the canopy.

In parks and pastures *Acc* is found in species-rich examples of the *Xanthorion parietinae* community. This colourful community is typically made up of brown, grey, green and yellow foliose species such as *Flavoparmelia caperata*, *Hyperphyscia adglutinata*, *Phaeophyscia orbicularis*, *Physcia tenella*, *Physconia grisea*, *Punctelia subrudecta* and *Xanthoria parietina*, plus the shrubby (fruticose) species *Ramalina farinacea* and *R. fastigiata*. In areas of very low atmospheric pollution it may be accompanied by *Candelaria concolor*, *Parmotrema perlatum*, *P. reticulatum*, *Punctelia borrieri*, *Physcia clementei*, *P. tribacioides* and *Pleurosticta acetabulum*.

A search of local floras, and of herbarium specimens, shows *Acc* to be particularly associated with old Elms in parkland and wayside habitats. Indeed of all the records of the species where the host tree species is named, Elm represents 40% of all records followed by Ash (25%), with Oak and Sycamore also important hosts.

TABLE 2. Summary of tree and shrub species on which *Acc* has been recorded

TREE SPECIES	NO. OF RECORDS	% OF RECORDS
<i>Ulmus</i>	191	40
<i>Fraxinus</i>	118	25
<i>Acer pseudoplatanus</i>	71	15
<i>Quercus</i>	50	10
<i>Acer campestre</i>	30	6
<i>Tilia</i>	4	<1
<i>Juglans regia</i>	2	<1
<i>Populus</i>	2	<1
<i>Salix</i>	1	<1
<i>Sambucus nigra</i>	1	<1
<i>Fagus</i>	1	<1
<i>Quercus ilex</i>	1	<1
<i>Prunus</i>	1	<1
	473	

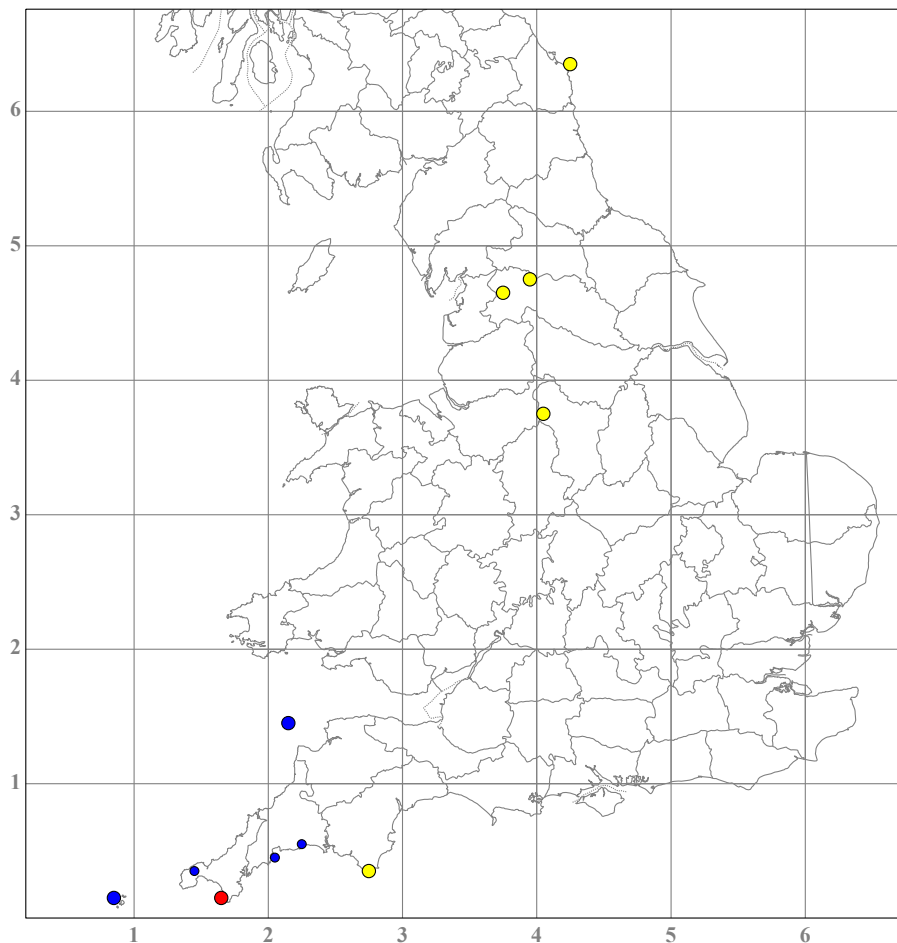
***Anaptychia ciliaris* subsp. *mamillata* in England**

This subspecies is saxicolous and largely confined to maritime rocks in the lower part of the grey (xeric supra-littoral) zone, although there are several 19th Century records from rocks inland in northern England.

It has always been a rare species in England, and Britain as whole, with the majority of records from exposed coastal headlands in western counties and the north-east. It is classed as Nationally Scarce and is listed as Near Threatened on the latest Red List (Woods & Coppins, 2003).

The few localised recent records for England are all from the south-west. There is a 1960s record from Shipman Head Down or Bryher, Isles of Scilly, but it has not been seen there recently, and a more recent record from Lundy and from a rock outcrop near Kynance Cove on The Lizard. Both sites are within Sites of Special Scientific interest.

MAP 8. The current distribution of *Anaptychia ciliaris* subsp. *mamillata* in England



● Post-1980 10-km sq:	1
● 1961-1979 10-km sq:	2
● Post-1960 10-km sq - unlocalised	3
● <1960 10-km sq:	5
Total	11

SURVEY WORK 2007

A small amount of survey work was undertaken in 2007 in the major strongholds of Dorset and South Somerset. Sites in pastures, parklands and roadsides were visited to build up a picture of the sort landscapes and habitats the species is found in.

For each site visited the type of tree and the number of trees the species is found on was recorded and a grid reference for each tree was taken using a hand held GPS. Some quadrat data was gathered (Table 3), but on many trees the species is present will above head height making detailed survey work difficult. The habitat and land use around the trees supporting Acc was also noted, as this is important for future management.

Table 3: Quadrat data

Species	1	2	3	4	5	6
<i>Anaptychia ciliaris</i>	3	5	5	6	6	5
<i>Physcia tenella</i>	1	2	3	4	6	3
<i>Hyperphyscia adglutinata</i>	4	6		6	5	2
<i>Flavoparmelia caperata</i>	4			2	4	4
<i>Xanthoria parietina</i>		2	7	4	1	
<i>Diploicia canescens</i>		2		4	2	2
<i>Pertusaria albescens</i> var. <i>corallina</i>	6			4		4
<i>Physconia distorta</i>	4				4	7
<i>Physconia grisea</i>			4	5		2
<i>Phaeophyscia orbicularis</i>	1		3			
<i>Punctelia subrudecta</i>	6					3
<i>Parmotrema chinense</i>		1			2	
<i>Parmelia sulcata</i>		2				1
<i>Punctelia ulophylla</i>				2	2	
<i>Rinodina roboris</i>	3					
<i>Physconia perisidiosa</i>	2					
<i>Pertusaria pertusa</i>	1					
<i>Physcia tribacioides</i>	2					
<i>Lecanora expallens</i>		3				
<i>Pertusaria hymenea</i>		2				
<i>Ramalina canariensis</i>		2				
<i>Lecanora chlarotera</i>		2				
<i>Amandinea punctata</i>		1				
<i>Evernia prunastri</i>		1				
<i>Pleurosticta acetabulum</i>				4		
<i>Ramalina farinacea</i>					1	
<i>Ramalina fastigiata</i>					2	
<i>Pertusaria flavida</i>						1
<i>Syntrichia laevipila</i>			1			2
<i>Metzgeria furcata</i>						2
Bare bark	5	5	5	6	5	5

- Q1** West Stafford, SY72149 89847, *Fraxinus excelsior* in pasture, 30 x 30 cm, 170-180°, 1.5-1.8 m
Q2 Tarrant Crawford, ST92065 02887, *Fraxinus excelsior* in pasture, 50 x 50 cm, 150-200°, 2.0-2.5 m
Q3 Kingston Lacy, ST97708 01836, *Acer pseudoplatanus* in pasture, 40 x 40 cm, 160-200°, 1.8-2.2 m
Q4 Montacute Park, ST5014 1707, *Tilia x vulgaris* in parkland, 50 x 50 cm, 180-200°, 2.0-2.5 m
Q5 Montacute Park, ST5014 1707, *Tilia x vulgaris* in parkland, 30 x 30 cm, 200°, 1.8-2.1m
Q6 Montacute Park, ST5014 1707, *Tilia x vulgaris* in parkland, 50 x 50 cm, 180°, 1.7-2.3 m



FIG 3. Old roadside Sycamore, Winterborne Came, Dorset. A large and frequently fertile colony of *Anaptychia ciliaris* is found on the large limb indicated by the red arrows.



FIG 4. A large isolated Ash, West Stafford, Dorset, in an improved pasture, supporting a small colony of *Anaptychia ciliaris*, plus the RDB-Vulnerable and Sch. 8 lichen *Physcia tribacioides*.



FIG 5. A large colony of *Anaptychia ciliaris* growing 2-5 metres up a large limb of a roadside Sycamore tree, Winterborne Came, Dorset, February 2007.



FIG 6. *Anaptychia ciliaris* subsp. *ciliaris* growing with *Xanthoria parietina*, *Physcia tenella* and *Bacidia phacodes* on an old Sycamore trunk, Kingston Lacy Park, February 2007.



FIG 7. Montacute Park, Somerset. is the major for *Acc* is present on 18 trees in the Lime Avenue in the right of the picture and is abundant and very fertile on several trees. There is a rich associated *Xanthorion* flora including *Physcia clementei*, *Physconia perisidiosa* and *Pleurosticta acetabulum*. This is the major site for *Acc* in Britain.



FIG 8. *Acc* (top left) in species-rich *Xanthorion* community with the very local *Pleurosticta acetabulum* (bottom centre) on a Lime tree in the Avenue east of Montacute House, Somerset.

DESCRIPTION OF SITES VISITED IN 2007

SITE NAME: Bere Regis

VICE-COUNTY: 9, Dorset

LOCATION: edge of field by A35

GRID REF.: SY8542 9433

SITE STATUS: none

OWNERSHIP: unknown

ADJACENT MANAGEMENT: Arable field, sown with winter cereals

PREVIOUS RECORDS: B Edwards, 12/02/2005, on *Fraxinus excelsior* by A35

This site lies adjacent to the A35 east of Bere Regis. Most of the field is used for arable, with a small area of set-a-side adjoining Lower Hove Wood. The Ash tree supporting *Acc* lies at the northern edge of the field, 5 metres out from the hedge and is slightly sheltered from the north by the hedge and road bank.

Much of the first 2 – 2.5 metres of trunk on the south side is covered by *Hyperphyscia adglutinata*, *Parmotrema chinense*, *Physcia aipolia*, *P. tenella*, *Punctelia subrudecta* and *Xanthoria parietina*. Approximately 3 metres up the trunk is a large patch of *Acc* which through binoculars appears healthy. It extends over an area of c. 20 x 20 cm.

Species recorded from the trunk:

<i>Acrocordia gemmata</i>	R	<i>Pertusaria albescens</i> var. <i>corallina</i>	O
<i>Anaptychia ciliaris</i>	R	<i>Pertusaria hymenea</i>	R
<i>Bacidia rubella</i>	LF	<i>Physcia aipolia</i>	O-LA
<i>Cliostomum griffithii</i>	LF	<i>Physcia tenella</i>	F
<i>Diploicia canescens</i>	LA	<i>Physconia distorta</i>	R
<i>Hyperphyscia adglutinata</i>	O-LA	<i>Punctelia subrudecta</i>	F-LA
<i>Lecanora chlarotera</i>	F	<i>Ramalina fastigiata</i>	R
<i>Lecidella elaeochroma</i>	O	<i>Rinodina roboris</i>	R
<i>Parmotrema chinense</i>	O-LA	<i>Xanthoria parietina</i>	O-LA
<i>Homalothecium sericeum</i>	LF (base)		
<i>Syntrichia laevipila</i>	O-LF (base)		

SITE NAME: Tarrant Crawford

VICE-COUNTY: 9, Dorset

LOCATION: Edge of field by bridleway

GRID REF.: ST9206 0288

SITE STATUS: none

OWNERSHIP: unknown

ADJACENT MANAGEMENT: improved pasture; cattle grazed

PREVIOUS RECORDS: 05/12/1996, B Edwards
24/04/2000, B Edwards & VJ Giavarini

Acc grows on a large isolated Ash in an improved pasture on the north side of the River Stour. There are several patches around 2 – 2.5 metres up the trunk on the west to south-east sides. It is growing in a typical Xanthorion community with *Hyperphyscia adglutinata*, *Parmelia sulcata*, *Physcia tenella* and *Xanthoria parietina*.

The pasture is improved and used for cattle but this does not seem to be having an adverse affect on the lichens. The tree supports a rich flora including the Nationally Scarce *Caloplaca ulcerosa* and RDB – Near Threatened *Physcia clementei*.

The most immediate threat to the species here is the death of the host tree. There are no other suitable trees in the area for the species to move on to.

Species recorded from the trunk:

<i>Amandinea punctata</i>	O	<i>Parmotrema chinense</i>	O
<i>Anaptychia ciliaris</i>	R	<i>Pertusaria albescens</i> var. <i>corallina</i>	O
<i>Candelaria concolor</i>	R	<i>Pertusaria hymenea</i>	O
<i>Diploicia canescens</i>	LA (N side)	<i>Phaeophyscia orbicularis</i>	LF
<i>Flavoparmelia caperata</i>	O	<i>Physcia clementei</i>	R
<i>Hyperphyscia adglutinata</i>	O-LA	<i>Physcia tenella</i>	O-LF
<i>Hypotrachyna revoluta</i>	R	<i>Physconia grisea</i>	LA (base)
<i>Lecanora chlarotera</i>	O	<i>Punctelia subrudecta</i>	O
<i>Lecanora expallens</i>	O-LF	<i>Ramalina canariensis</i>	R-O
<i>Parmelia sulcata</i>	O	<i>Ramalina fastigiata</i>	O
<i>Parmelina pastillifera</i>	R	<i>Xanthoria parietina</i>	A
<i>Bryum capillare</i>	R (base)		
<i>Hypnum cupressiforme</i>	O-LA (base)		

SITE NAME: Throop

VICE-COUNTY: 9, Dorset

LOCATION: in replanted hedgerow between Throop and Brockhill

GRID REF.: SY8303 9276

SITE STATUS: none

OWNERSHIP: unknown

ADJACENT MANAGEMENT: improved pasture; cattle grazing

PREVIOUS RECORDS: none

This new site was discovered when walking the footpath south of Throop. It was intended to visit an Oak supporting *Acc* in the valley but this was not accessible due to flooding.

The Ash tree is situated in a newly replanted hedge line towards the top of a north facing slope. The tree is open on the southern side *Acc* grows in three patches between 3 and 4 metres up. Through binoculars associated species appear to be *Parmelia* spp. and *Ramalina farinacea*.

The remainder of the trunk supports a rich flora typical of well-lit basic bark on old trees with *Candelariella xanthostigma*, *Dimerella lutea*, *Pertusaria coccodes* and *Rinodina roboris* particularly noteworthy.

There are no immediate threats to the tree, although if the newly planted hedge grows too tall it could potentially shade the trunk.

Species recorded from the trunk:

<i>Anaptychia ciliaris</i>	R	<i>Normandina pulchella</i>	O
<i>Caloplaca citrina</i>	LF	<i>Parmotrema chinense</i>	LA
<i>Candelariella xanthostigma</i>	LF	<i>Pertusaria albescens</i>	LF
<i>Dimerella lutea</i>	R	<i>Pertusaria coccodes</i>	LA
<i>Diploicia canescens</i>	R	<i>Phaeophyscia orbicularis</i>	LF
<i>Flavoparmelia caperata</i>	O	<i>Physconia grisea</i>	R
<i>Hyperphyscia adglutinata</i>	LA	<i>Punctelia subrudecta</i>	O
<i>Lecanora barkmaniana</i>	O	<i>Rinodina roboris</i>	LA
<i>Lecanora chlarotera</i>	O	<i>Xanthoria parietina</i>	O
<i>Lecanora expallens</i>	LF		
<i>Orthotrichum lyellii</i>	O		
<i>Hypnum cupressiforme</i>	O		

SITE NAME: Kingston Lacy, Wimborne

VICE-COUNTY: 9, Dorset

LOCATION: parkland/pasture north of the House

GRID REF.: ST97-01-

SITE STATUS: Site of Nature Conservation Interest

OWNERSHIP: National Trust

MANAGEMENT: improved pasture and semi-improved parkland grassland; cattle and sheep grazing

PREVIOUS RECORDS: fertile on *Acer pseudoplatanus*, HJM Bowen <1980
on *Acer pseudoplatanus*, B Edwards 12/05/1998

This large park north-west of Wimborne is of 18th Century origin and comprises planting of *Acer*, *Aesculus*, *Cedrus*, *Quercus* and *Tilia* set amongst grassland around the house, and all enclosed within shelterbelt plantings. The trees are present as avenues and groups plus some individuals. The grassland within the Ha-Ha closest to the House is semi-improved and there are several small lakes. In the west there are several improved fields. The grasslands are cattle and sheep grazed.

The lichen flora is quite rich with over 90 epiphytic species recorded. Old woodland indicators are not particularly well represented, but a species-rich *Xanthorion* community is widespread on the basic bark of *Acer*, *Fraxinus* and *Tilia*.

In 2007 *Acc* was found to be present on 7 trees; 3 *Acer campestre*, 2 *Acer pseudoplatanus* and 2 *Tilia x vulgaris*. It is abundant on several trees and is healthy and fertile. The population is one of the best remaining and of considerable conservation importance.

During the present survey two other species of note were recorded. The rare *Cryptolechia carneolutes* (RDB-Vulnerable) on an old *Acer campestre*, and *Physcia clementei* (RDB-Near Threatened) on a *Tilia*. The local *Pleurosticta acetabulum*, which has shown a decline similar to *A. ciliaris*, was noted high up on limb on a large *Acer pseudoplatanus* that supported *A. ciliaris*.

Acc was found on the following four trees at the edge of an improved field in the north-west of the park:

Tree 1. *Tilia x vulgaris* (tag no. 3869), ST97704 01814. 5 small patches, 1.6 – 2.0 m up the trunk on the W and S sides.

Tree 2. *Acer pseudoplatanus* (tag no. 3863), ST97708 01836. c. 15 patches, some large and fertile, 1.6 – 3.0 m up the trunk on the WNW to S sides, plus 1 large patch c. 9 m up.

Tree 3. *Acer campestre* (tag no. 3881), ST97658 01909. Several large patches c. 4 – 10 m up the trunk on the S side.

Tree 4. *Acer campestre* (tag no. 3878), ST97671 01899. 2 large patches, c. 6 – 7 m up the trunk on the SW side.

It was also found on the following tree by the road running down to the car park:

Tree 5. *Tilia x vulgaris* (tag no. 4094), ST97739 01826. 2 hand-sized patches 4 and 5 m up the trunk on the S and SE side.

Two trees in the park north of the House and west of the entrance road also supported the species:

Tree 6. *Acer campestre* (tag no. 3361), ST97766 01369. Large expanses, very fertile, c. 6 – 10 m up on the main limbs on the S side, growing with the moss *Leptodon smithii* and *Xanthoria parietina*.

Tree 7. *Acer pseudoplatanus* (tag no. 3288), ST97744 01473. Several large patches, c. 6 – 12 m up on the trunk and major limbs on the S side. *Pleurosticta acetabulum* also present on one large limb.

SITE NAME: West Stafford

VICE-COUNTY: 9, Dorset

LOCATION: pasture W of Church

GRID REF.: SY721899

SITE STATUS: none

OWNERSHIP: unknown

MANAGEMENT: Cattle grazing

PREVIOUS RECORDS: B Edwards and VJ Giavarini, 2000

The site is an improved pasture to the west of the village and contains several old isolated Ash and Oak trees. There is a rich lichen flora present including the RDB-Endangered species *Physcia tribacioides*, which is abundant on several of the Ash.

Acc is present in small quantity on one old isolated Ash, growing around head height on the south-western side of the trunk. The thalli are small and scattered and not fruiting, but appear otherwise healthy. Associated species include *Flavoparmelia caperata*, *Hyperphyscia adglutinata*, *Pertusaria albescens* var. *corallina*, *Physconia distorta* and *Punctelia subrudecta*

The tree also supports the RDB species *Physcia clementei* (Near Threatened) and *P. tribacioides* (Vulnerable).

Although the surrounding pasture is improved and cattle grazed this does seem to be detrimental to the lichen flora. The most immediate threat to the lichens is the death of the host trees.

SITE NAME: Winterborne Came

VICE-COUNTY: 9, Dorset

LOCATION: Roadside

GRID REF.: SY708888

SITE STATUS: Site of Nature Conservation Interest

OWNERSHIP: unknown

MANAGEMENT: none

PREVIOUS RECORDS: B Edwards, 1997
B Edwards and VJ Giavarini, 1999

This old isolated Sycamore (Fig 3) is found on the side of a small road on the north edge of Came Park to the south of Dorchester. It supports a rich Xanthorion flora and a very large colony of *Acc* growing on a large limb from 2 – 6 metres up (Fig 5). The plants are large and very fertile (Fig 2).

It is growing with *Physcia tenella*, *Physconia grisea* and *Xanthoria parietina*. The trunk also supports a rich Xanthorion flora but *Acc* is curiously absent.

Species recorded from the lower 2.5 of the tree.

<i>Agonimia tristicula</i>	R	<i>Ochrolechia subviridis</i>	O
<i>Anaptychia ciliaris</i>	LA	<i>Opegrapha atra</i>	O
<i>Arthonia pruinata</i>	LA	<i>Punctelia borreri</i>	O
<i>Candelaria concolor</i>	R	<i>Pertusaria albescens</i>	O
<i>Diploicia canescens</i>	F-LA	<i>Phaeophyscia orbicularis</i>	LF
<i>Hyperphyscia adglutinata</i>	LA	<i>Physcia adscendens</i>	O
<i>Lecanora chlarotera</i>	O	<i>Physconia grisea</i>	LF
<i>Lecidella elaeochroma</i>	O	<i>Schismatomma decolorans</i>	LA
<i>Normandina pulchella</i>	R	<i>Xanthoria parietina</i>	LA

The land on the north side of the road is used for arable. The Park on the north side of the road is improved and cattle grazed, but has been recognised as a Site of Nature Conservation Interest (County Wildlife Site) for its epiphytic lichen flora and include the tree is included within the site. Came Park is one the best remaining sites for *Acc* which is present on 15 trees.

SITE NAME: Montacute Park

VICE-COUNTY: 5, South Somerset

LOCATION: East of House

GRID REF.: ST503170

SITE STATUS: none?

OWNERSHIP: National Trust

MANAGEMENT: Cattle and sheep grazing

PREVIOUS RECORDS: F Rose, 1972
B Edwards, 2005

A brief visit was made to this site to obtain some quadrat data (quadrats 4-6) and to assess the health of the plants on the trees surveyed in 2005.

The parkland, particularly the avenue of Lime trees to the east of Montacute House is the major site for *Acc* in England, and probably Britain. It is found on at least 18 Limes and 1 Oak, and is abundant and fertile on several. The parkland is at present grazed by cattle and sheep and receives little or no artificial fertiliser, although the grassland is evidently improved. The trees support a rich lichen flora, particularly species of the *Xanthorion* community with *Parmelina quercina* (RDB-VU), *Physcia clementei* (RDB-NT), *Physconia perisidiosa* and *Pleurosticta acetabulum* among the more notable species present.

The site receives no formal protection, but is under sympathetic management by the National Trust. The Lime trees are old and towards the end of the natural lifespan, and a replacement avenue has been planted, which hopefully provide suitable trees for *Acc* in the long term.

CONSERVATION AND PROTECTION

Table 3 shows that there are currently only a small number of sites that support populations of *Acc* on more than 6 trees. In the majority of the other sites it is surviving on just one or two trees and is therefore vulnerable to local extinctions from the loss of the host tree or from the tree trunk being smothered by ivy. The lack of replacement trees is also a major problem for this species. It prefers mature to old trees and needs a continuity of such trees to survive, it also seems rather fussy about which trees it occurs on, preferring basic barked trees and a southerly aspect.

TABLE 3. Summary of major sites for *Anaptychia ciliaris* ssp. *ciliaris* in England

	Vice County	Site Name	Status	Population
4	North Devon	Huish Park	none	18 trees
5	South Somerset	Montacute Park	National Trust	19 trees
9	Dorset	Came Park	SNCI ¹	15 trees
9	Dorset	Melbury Park area	SSSI (part)	13 trees
9	Dorset	Kingston Lacy	National Trust, SNCI	7 trees
9	Dorset	nr Sturminster Marshall	none	11 trees

SNCI = County Wildlife Site

At present *Acc* is poorly represented within the SSSI series. There are records from 16 SSSIs, but only 10 have records since 1990. Also it has been lost from Whiddon Deer Park due to the tree collapsing (Sandy Coppins pers. comm.), indeed of the six top sites for *Acc* sites in Table 3 only one, Melbury Park, is an SSSI.

Table 4 lists the records of *Acc* from SSSIs in England.

TABLE 4. Records of *Anaptychia ciliaris* subsp. *ciliaris* from Sites of Special Scientific Interest

	VICE-COUNTY	SITE NAME	GRID	YEAR	SSSI NAME	COMMENTS
3	South Devon	Stokeham	SX84	1972	Stokeham	<i>Acer pseudoplatanus</i>
3	South Devon	Stokeham	SX84	1999	Stokeham	<i>Acer pseudoplatanus</i>
3	South Devon	Whiddon Deer Park	SX78	1990	Whiddon Deer Park	<i>Fraxinus</i>
3	South Devon	Whiddon Deer Park	SX7289	1990	Whiddon Deer Park	
3	South Devon	Ugbrooke Park	SX87	15/08/1969	Ugbrooke Park	<i>Fraxinus</i>
4	North Devon	Valley of Rocks	SS74	<1900	West Exmoor Coast & Woods	
5	South Somerset	Nettlecombe Park	ST0537	1982	Nettlecombe Park	
5	South Somerset	Nettlecombe Park	ST03	2003	Nettlecombe Park	<i>Acer pseudoplatanus</i> & <i>Quercus</i>
8	South Wilts	Copehill Down	SU107444	20/08/2005	Salisbury Plain	on 4 <i>Fraxinus</i> in avenue,; fertile
9	Dorset	Bracketts Coppice	ST517071	1969	Brackett's Coppice & Ryewater Farm	
9	Dorset	Melbury Park	ST50	<1980	Melbury Park	on <i>Ulmus</i>
9	Dorset	Melbury Park	ST50	1971	Melbury Park	
9	Dorset	Melbury Park	ST576058	1979	Melbury Park	
9	Dorset	Melbury Park	ST576058	01/11/1996	Melbury Park	
9	Dorset	Melbury Park	ST572061	1996	Melbury Park	
9	Dorset	Melbury Park	ST562062	1996	Melbury Park	
9	Dorset	Melbury Park	ST580065	1996	Melbury Park	
9	Dorset	Melbury Park	ST5505	01/09/2004	Melbury Park	on <i>Fraxinus</i> and <i>Quercus</i>
9	Dorset	Melbury Park	ST5606	Mar-04	Melbury Park	
9	Dorset	Melbury Park	ST5706	Mar-04	Melbury Park	
9	Dorset	Hazel Farm Pastures	ST5805	Feb-04	Melbury Park	
9	Dorset	Chetnole Lodge pastures	ST5806	02/09/2004	Melbury Park	on <i>Acer campestre</i> , <i>Fraxinus</i> and <i>Quercus</i>
9	Dorset	Pentridge Down	SU0417	2000	Pentridge Down	on <i>Fraxinus</i>
9	Dorset	Valley of Stones	SY5987	12/05/1997	Valley of Stones	on <i>Acer pseudoplatanus</i>
9	Dorset	Church Ope Cove	SY67	<1980	Isle of Portland	on <i>Ulmus</i>
9	Dorset	Lulworth Park	SY8382	01/04/1972	Lulworth Park & Lake	
9	Dorset	Lulworth Park	SY88	<1980	Lulworth Park & Lake	
9	Dorset	Lulworth Park	SY855820	1988-89	Lulworth Park & Lake	
9	Dorset	Lulworth Park	SY858824	Jun-00	Lulworth Park & Lake	on <i>Acer pseudoplatanus</i>
9	Dorset	Lulworth Park	SY853822	Jun-00	Lulworth Park & Lake	on <i>Acer pseudoplatanus</i>
9	Dorset	Lulworth Park	SY855820	Jun-00	Lulworth Park & Lake	on <i>Acer pseudoplatanus</i>
9	Dorset	Tilly Whim	SZ07	<1980	South Dorset Coast	Fertile
11	South Hampshire	Budgen Wood (Brook)	SU264137	1990s	New Forest	Old <i>Quercus</i> in pasture in common

	VICE-COUNTY	SITE NAME	GRID	YEAR	SSSI NAME	COMMENTS
11	South Hampshire	Budgen Wood (Brook)	SU264137	2005	New Forest	Old <i>Quercus</i> in pasture in common
11	South Hampshire	Bishops Waltham Moors	SU560170	1984	Bishops Waltham Moors	<i>Quercus</i> in pasture
11	South Hampshire	Bishops Waltham Moors	SU560170	2001	Bishops Waltham Moors	<i>Quercus</i> in pasture, 1984 colony still there
12	North Hampshire	Stoner Hill	SU733265	1970	Wealden Edge Hangers	<i>Acer pseudoplatanus</i> on Stoner Hill East
36	Hereford	Brampton Bryan Park	SO37	>1960	Brampton Bryan Park	

RECOVERY POTENTIAL

The major threats to this species are as follows:

- Pollution both from industrial and agricultural sources, with the latter potentially more damaging
- The spreading of manure or slurry close to tree trunks
- The loss of the host tree, either due to natural causes, or felled for Health & Safety reasons.
- The encroachment of ivy onto tree trunks, especially in hedgerow or roadside situations

As *Acc* is largely a species of improved or cultivated landscapes the best way to conserve this species is through schemes that involve the management of the wider landscape. Agri-environment schemes should play a key role in this. Many local and district authorities have tree officers and tree wardens who should be made aware of the presence of this species, particularly where it occurs in vulnerable sites such as along roadsides. Tree Preservation Orders may be needed in some cases to protect the host trees.

Agri-environment schemes

The best way to aid the recovery of *Acc* is through agri-environment schemes, either Higher Level Stewardship (HLS) for SSSIs or Entry Level Stewardship (ELS) for other sites in the wider countryside.

At present HLS has options for the following habitats that *Acc* may occur in:

- Ancient trees in arable fields
- Ancient trees in intensively managed grassland sites

These options include creating buffer strips 15 metres from the tree which will remain unfertilized, uncultivated and, if necessary, be fenced from livestock to prevent root compaction.

- Maintenance of wood pasture and parkland
- Restoration of wood pasture and parkland

ELS includes an option for the Protection of in-field trees (EC1/EC2). For this option the area beneath the canopy of the tree will remain uncultivated, artificial fertilizers or manure will not be applied and the feeding of stock is prohibited.

There are also options for landscape features such as parklands.

The major omission in the ELS scheme for *Acc*, and epiphytes as a whole, is the lack of provision for the planting replacement trees. While there is help for existing trees, particularly veteran or ancient tree, where are the next generation of trees, or the veteran trees of the future, going to come from? Lichens need a continuity of mature trees, and the lack of suitable trees in many sites for *Acc* is a major problem and needs to be addressed with some urgency if the species is to survive in the wider countryside.

Local Biodiversity Action Plans (LBAP)

Acc would be an ideal LBAP species and could act as a flagship species for a whole group of threatened and declining lichens (and bryophytes) that are associated with wayside trees e.g. *Caloplaca flavorubescens*, *Physcia clementei*, *P. tribacioides* and *Pleurosticta acetabulum*. At present *Acc* is only listed as an LBAP species on the Isle of Wight.

FUTURE WORK

This study provides a good basis for an 'Action Plan' to survey and monitor this species.

WAYSIDE AND PARKLAND SITES

Surveys should be targeted by county and priority given to post-1980 records from trees other than Elm. This approach is already underway in Kent where many former sites where Francis Rose recorded it in the 1960s and 70s have been revisited by the Kent Field Club. So far the species has only been refound in one site. Other counties where surveys should be prioritised are Berkshire, Gloucestershire, Hampshire (North), Herefordshire, Oxfordshire, Somerset and Wiltshire. The British Lichen Society has Regional Recorders who could undertake the work, although some areas are lacking a resident lichenologist.

CHURCHYARD SITES

Churchyards are an important refuge for this species, especially in central southern and south-east England in counties where it is almost extinct as an epiphyte, e.g. Kent, Surrey and Sussex. Most records are from before 1995 and a urgently need updating. The British Lichen Society and a Churchyard Group who could co-ordinate a survey using its regional representatives. There are around 20 sites to visit.

As the built environment is to become a BAP Priority Habitat and *Acc* a BAP species this should help highlight the importance of churchyards as a habitat for lichens.

ACKNOWLEDGEMENTS

Thanks go to the following lichenologist's who supplied records and information of the status of this species in their counties; Barbara Benfield, Ishpi Blatchley, Ian Carle, Chris Hitch, Vince Giavarini, Peter Lambley, Neil Sanderson and Pat Wolesley. Henri Brocklebank from the Sussex Biodiversity Record Centre provided records from Francis Rose's Diaries and Janet Simkin from the British Lichen Society Database. Scott La Greca is thanked for access to the Herbarium at the Natural History Museum, London. The distribution maps were produced using the DMAP for Windows software.

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APPENDIX I: Records of *Anaptychia ciliaris* subsp. *ciliaris* in England

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
2 East Cornwall					
	SW96	<1960		Unlocalised BLS Mapping Scheme record	
3 South Devon					
Saltram Park	SX5255	1876		EM Holmes	
Elberton	SX5353	1876		EM Holmes	
?	SX73	1966		MRD Seaward	
Ashburton, Nr	SX7469	1884		WB Waterfall	
Whiddon Deer Park	SX78	29/03/1990	<i>Fraxinus</i>	AM O'Dare, Dr F Rose, R Jarman	
Stokeham	SX84	1972	<i>Acer pseudoplatanus</i>	DL Hawksworth	
Stokeham	SX813415	1999	<i>Acer pseudoplatanus</i>	B Benfield	
Slapton	SX8244	1980	<i>Ulmus</i>	DL Hawksworth	
Greenway	SX8762 5459	2005	old <i>Acer pseudoplatanus</i>	B Benfield	
Cockington Court	SX889638	2001	<i>Quercus</i> in field overlooking Court	B Benfield	
Ugbrooke Park	SX8777	1918	<i>Ulmus</i>	Canon Morford	
Ugbrooke Park	SX87	15/08/1969	<i>Fraxinus</i> . (on <i>Fraxinus</i> & <i>Ulmus</i>)	Dr F Rose & TDV Swinscow	BM
Culver	SX8398	1971		Dr F Rose & BJ Coppins	
Powderham Castle	SX9683	1970		Dr F Rose & BJ Coppins	
Killerton Estate - Columbjohn	SX9599	1970		Dr F Rose & BJ Coppins	
Shobrooke Park	SS8501	1970		Dr F Rose & BJ Coppins	
Bicton Park	SY0786	1973	<i>Quercus</i>	DL Hawksworth	
Farringdon	SY09	<1900		Ex herb. JM Crombie	BM
Wideworthy Court	SY2199	1977		Dr F Rose & DL Hawksworth	
Plymtree	ST050039	1990	on felled <i>Fraxinus</i> in garden	B Benfield	
4 North Devon					
Hatherleigh, nr	SS539045	1999	<i>Fraxinus</i> . (on 2 ancient Ash by the Hatherleigh bypass)	B Benfield	
Fishleigh Estate	SS541058	2004	large <i>Fraxinus</i> and <i>Acer campestre</i>	B Benfield	
Huish Park	SS535109	1975	<i>Ulmus</i>	PW Lambley	
Huish Park	SS535109	1998	<i>Fraxinus</i>	OL Gilbert	
Huish Park	SS535109	2002	7 <i>Quercus</i> , 6 <i>Acer pseudoplatanus</i> , 3 <i>Fraxinus</i> & 2 <i>Fagus</i>	B Benfield	
Herner	SS586268	1972		Dr F Rose & SR Davey	
Huntshaw	SS52	2000	<i>Quercus</i> . (on dying Oak beside the track at Huntshaw)	B Benfield	
Filleigh Park	SS670274	1977		Dr F Rose, DL Hawksworth, TDV Swinscow	
Filleigh Park	SS670274	2003	on 1 <i>Acer pseudoplatanus</i> - Poor	B Benfield	
Lynton, Valley of Rocks	SS74	<1900	on one rock	MM Atwood	BM
Oakford	SS82	1990	<i>Fraxinus</i>	B Benfield	
5 South Somerset					
Winsford	SS93	<1900	Vicarage	W Mitchall	BM

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
Nettlecombe Park	ST0537	1982		Dr F Rose	
Nettlecombe Park	ST03	2003	<i>Acer pseudoplatanus</i> & <i>Quercus</i>	BLS	
Chelmsine Chapel	ST11	10-Apr-84	on chapel	Dr F Rose	
Chelmsine Chapel	ST11	05-Sep-85		Dr F Rose	
Taunton, Norton Manor	ST12	1924	<i>Ulmus</i>	W Watson	BM
Mount Fancy	ST21			?	
Taunton, Stoke Hill	ST22	Oct-10	<i>Fraxinus</i>	W Watson	BM
Enmore	ST23			?	
Hatch Beauchamp	ST32			?	
Montacute Park	ST51	2004	<i>Tilia</i> & <i>Quercus</i> ; on 19 trees	B Edwards	
Montacute Park	ST51	1973		Dr F Rose	
Hazelgrove Park	ST52	06-Sep-85	on <i>Quercus ilex</i>	Dr F Rose	
Sparkford	ST62			?	
6 North Somerset					
Lily Wood	ST62	07-Sep-85	on <i>Fraxinus</i>	Dr F Rose	
Bruton, Coombe Hill	ST63	12/04/1907	<i>Ulmus</i> . (on <i>Fraxinus</i> & <i>Ulmus</i>)	W Watson	BM
Redlynch	ST7033	07-Sep-85	on old Sycamore	Dr F Rose	
Mells Park	ST74	>1980		Dr F Rose	
Ammerdown, N. of Frome	ST7152	16-Sep-84	on old <i>Fraxinus</i>	Dr F Rose	
Orchadleigh Park	ST75			?	
7 North Wiltshire					
	ST87	<1960		Unlocalised BLS Mapping Scheme record	
	ST88	>1960		Unlocalised BLS Mapping Scheme record	
	ST96	>1960		Unlocalised BLS Mapping Scheme record	
	ST98	>1960		Unlocalised BLS Mapping Scheme record	
	SU06	>1960		Unlocalised BLS Mapping Scheme record	
	SU07	>1960		Unlocalised BLS Mapping Scheme record	
	SU09	>1960		Unlocalised BLS Mapping Scheme record	
Piggledene	SU1468	26-Oct-03	on one <i>Fraxinus</i>	BLS	
	SU17	>1960		Unlocalised BLS Mapping Scheme record	
Swindon, Nr	SU18	May-1865	<i>Ulmus</i> . (on old <i>Ulmus</i>)	Ex herb. JM Crombie	BM
	SU18	>1960		Unlocalised BLS Mapping Scheme record	
	SU26	<1960		Unlocalised BLS Mapping Scheme record	
	SU27	>1960		Unlocalised BLS Mapping Scheme record	
Wanborough,	SU28	01-Jun-68	locally frequent on old <i>Fraxinus</i> by Ermine Street, 2 miles SE of Stratton Street	Dr F Rose	
8 North Wiltshire					
Longleat Park	ST84	13/09/1969	<i>Ulmus</i> . (on <i>Fraxinus</i> & <i>Ulmus</i>)	Dr F Rose & PA Stott	BM
Longleat Park, W. side	ST84	20/09/1969	<i>Ulmus</i> . (abundant on <i>Ulmus</i>)	Dr F Rose & PA Stott	BM
	ST85	>1960		Unlocalised BLS Mapping Scheme record	
Rushmore Park	ST92	19/09/1969	<i>Acer campestre</i>	Dr F Rose & PA Stott	BM

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
Semley, Pyt House Park	ST92	19/09/1969	<i>Ulmus</i>	Dr F Rose & PA Stott	BM
	ST93	>1960		Unlocalised BLS Mapping Scheme record	
	ST94	>1960		Unlocalised BLS Mapping Scheme record	
	ST95	>1960		Unlocalised BLS Mapping Scheme record	
	SU02	>1960		Unlocalised BLS Mapping Scheme record	
	SU03	>1960		Unlocalised BLS Mapping Scheme record	
	SU04	>1960		Unlocalised BLS Mapping Scheme record	
Urchfont, W of	SU05	SX09/1969	<i>Ulmus</i>	Dr F Rose & PA Stott	BM
	SU12	>1960		Unlocalised BLS Mapping Scheme record	
	SU13	>1960		Unlocalised BLS Mapping Scheme record	
Copehill Down	SU107444	20/08/2005	on 4 <i>Fraxinus</i> in avenue; fertile	B Edwards, K Sandell, L Balfe	
	SU15	>1960		Unlocalised BLS Mapping Scheme record	
	SU22	>1960		Unlocalised BLS Mapping Scheme record	
9 Dorset					
Forde Abbey	ST3504	<1976	on <i>Quercus</i> and <i>Ulmus</i>	Dr HJM Bowen	
Thorncombe, Sadborrow	ST30	28/10/1967	<i>Fraxinus</i> . (on boles of old <i>Fraxinus</i> trees S. side of House)	AR Vickery	BM
Thorncombe, Sadborrow	ST376018	26/12/1968	brick wall of outbuilding	AR Vickery	BM
Baker's Wood	ST557054	26/03/1999	isolated <i>Fraxinus</i> in pasture south of wood	B Edwards	
Bracketts Coppice	ST517071	1969		DHE Warren	
Chalmington	ST597008	1992	on <i>Acer pseudoplatanus</i>	B Edwards	
Chetnole Lodge pastures	ST5806	02/09/2004	on <i>Acer campestre</i> , <i>Fraxinus</i> and <i>Quercus</i>	B Edwards	
Corscombe, Lower Farm	ST508051	18/09/1995	<i>Fraxinus</i> in pasture	B Edwards.	
Hazel Farm Pastures	ST5805	Feb-04		B Edwards	
Lower Holt	ST571085	26/03/1999	large <i>Fraxinus</i> by stream	B Edwards	
Melbury Park	ST50	1971		Dr F Rose.	
Melbury Park	ST50	<1980	on <i>Ulmus</i>	Dr HJM Bowen	
Melbury Park	ST562062	1996		B Edwards.	
Melbury Park	ST572061	1996		B Edwards.	
Melbury Park	ST576058	01/11/1996		B Edwards.	
Melbury Park	ST576058	1970 -		Dr HJM Bowen	
Melbury Park	ST580065	1996		B Edwards.	
Melbury Park, Claylands Plantation	ST5706	Mar-04		B Edwards	
Melbury Park, Girt Farm	ST5505	01/09/2004	on <i>Fraxinus</i> and <i>Quercus</i>	B Edwards	
Melbury Park, Girt Farm/Girt Plain	ST5606	Mar-04		B Edwards	
North Holt, Lewcombe	ST5506/5606	26/08/2004	<i>Quercus robur</i>	B Edwards	
Old Lane, Melbury	ST582062	17/03/2003	old <i>Acer</i> , <i>Fraxinus</i> and <i>Quercus</i> trees in pasture	B Edwards	
South of Kingcombe Coppice	ST553001	2000	<i>Fraxinus</i>	B Edwards	
Alton Pancras	ST699032	1994	on <i>Fraxinus excelsior</i>	B Edwards	
Glanvilles Wootton	ST6808	<1980	on <i>Fraxinus</i> ; fertile	Dr HJM Bowen	
Hilfield	ST6305	<1980	on <i>Ulmus</i>	Dr HJM Bowen	

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
Minterne Parva	ST665033	01/04/1997	on <i>Fraxinus</i> in pasture	B Edwards	
Sherborne Park	ST665166	29-Aug-03	on 1 <i>Acer campestre</i>	B Edwards.	
Droop	ST753082	1994	on <i>Fraxinus excelsior</i> with <i>Physcia clementei</i> outside of churchyard	B Edwards	
Hilton	ST790040	1960		DHE Warren	
Woolland	ST7706	<1976	on <i>Quercus</i>	Dr HJM Bowen	
Cut Mill	ST776163	01/11/1997	on <i>Acer campestre</i>	B Edwards	
Fiddleford, S of	ST7912	2006	on 1 <i>Quercus robur</i> in pasture	B Edwards, AJP Branson	
Stock Gaylard	ST725130	16-Oct-97	on <i>Acer pseudoplatanus</i> , <i>Tilia</i>	B Edwards., Dr HJM Bowen	
Whitmore Cross	ST780101	1993	on <i>Fraxinus excelsior</i>	B Edwards	
Silton	ST7829	<1980	on stone	Dr HJM Bowen	
Thorngrove	ST794258	01/11/2004	two <i>Fraxinus</i> trees in pasture by garden centre	B Edwards	
Bryanston	ST8707	<1980		PW James	
Whatcombe Park	ST836013	Dec-90		Dr HJM Bowen	
Margaret Marsh	ST817192	Apr-71	<i>Ulmus</i> . (on <i>Ulmus</i> by roadside)	PW James	BM
Gillingham	ST8026	<1980	Fertile	Dr HJM Bowen	
Hinton Parva	ST9904	<1980		Dr HJM Bowen	
Kingston Lacy	ST9801	<1980	on <i>Acer pseudoplatanus</i> ; fertile	Dr HJM Bowen	
Kingston Lacy Park	ST980014	12/05/1998	on <i>Acer pseudoplatanus</i>	B Edwards.	
Shapwick Withybed, S of	ST929021	27-Apr-99	on <i>Quercus</i>	B Edwards.	
Tarrant Crawford	ST920028	05/12/1996	on exposed <i>Fraxinus</i> in pasture	B Edwards	
Tarrant Crawford	ST920028	24/04/2000	<i>Fraxinus excelsior</i>	B Edwards, VJ Giavarini	
Tarrant Rushton	ST9305	<1980	on <i>Fraxinus</i> and <i>Ulmus</i>	Dr HJM Bowen	
Chettle	ST9413	<1980	on <i>Fraxinus</i>	Dr HJM Bowen	
Cranborne	ST91	<1976		Dr F Rose	
Tarrant Gunville	ST9212	<1980	on <i>Ulmus</i> ; fertile	Dr HJM Bowen	
Gaunts Common	SU0205	<1980	on <i>Quercus</i>	Dr HJM Bowen	
Uddens	SU0402	<1980		Dr HJM Bowen, SR Davey	
Pentridge Down	SU0417	2000	on 1 <i>Fraxinus</i> along southern edge	B Edwards	
Wimborne St Giles	SU047108	24/04/2000	<i>Quercus robur</i>	B Edwards, VJ Giavarini	
Bridehead	SY5988	<1980		Dr HJM Bowen	
Little Bredy	SY590885	1994	on <i>Fraxinus excelsior</i> and <i>Acer pseudoplatanus</i>	B Edwards	
Valley of Stones	SY5987	12/05/1997	on <i>Acer pseudoplatanus</i>	BLS	
Lower Kingcombe	SY556992	1994	on <i>Fraxinus excelsior</i> in pasture	B Edwards	
Lower Kingcombe	SY556993	23/02/2003	<i>Fraxinus excelsior</i> in field	B Edwards	
Church Ope Cove	SY6971	<1980	on <i>Ulmus</i>	Dr HJM Bowen	
Pennsylvania Castle	SY695711	03/06/1981		Dr HJM Bowen	
Pennsylvania Castle	SY695711	14/06/1992		B Edwards.	
Pennsylvania Castle	SY6971	<1980	on <i>Ulmus</i>	Dr HJM Bowen	
Bincombe	SY6884	<1980	on <i>Ulmus</i>	Dr HJM Bowen	
Came Wood	SY6985	<1980		Dr HJM Bowen	

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
Herrington Park	SY6888	<1980		Dr HJM Bowen	
Winterborne Herrington	SY6888	05/12/1997	on several <i>Acer</i> and <i>Fraxinus</i> in parkland	B Edwards	
Winterborne Herrington	SY699885	01/05/1997	on roadside <i>Acer pseudoplatanus</i>	B Edwards	
Came Park	SY7088	May-97		B Edwards	
Came Park	SY7088	02/06/2005	on 14 <i>Acer pseudoplatanus</i> and 1 <i>Fraxinus</i> in former landscaped parkland	B Edwards	
Came Park	SY7088	<1980	on <i>Acer pseudoplatanus</i>	Dr HJM Bowen	
Osmington	SY7282	<1980	on <i>Acer campestre</i>	Dr HJM Bowen	
Ringstead	SY7481	<1980	on <i>Sambucus</i> and <i>Ulmus</i>	Dr HJM Bowen	
Warmwell	SY7585	<1980	on <i>Ulmus</i> ; fertile	Dr HJM Bowen	
West Stafford	SY722898	15/11/2000	<i>Fraxinus excelsior</i>	B Edwards, VJ Giavarini	
Winterborne Came	SY703886	12/12/1999	<i>Acer pseudoplatanus</i> by roadside	B Edwards, VJ Giavarini	
Winterbourne Came	SY709889	01/05/1997	on <i>Acer pseudoplatanus</i> ; fertile	B Edwards	
Athelhampton House	SY770942	25/02/2000	<i>Acer pseudoplatanus</i>	VJ Giavarini	
Dewlish Park	SY769973	11/03/2000	<i>Fraxinus excelsior</i>	B Edwards, VJ Giavarini	
Dewlish Park	SY7797	<1975		Dr F Rose	
Dewlish Park	SY769973	11/03/2000	<i>Fraxinus excelsior</i>	B Edwards, VJ Giavarini	
Ilington	SY756921	18/11/2000	<i>Acer pseudoplatanus</i>	B Edwards, VJ Giavarini	
Milborne St Andrew	SY799972	27/11/1999	on <i>Fraxinus excelsior</i>	B Edwards, VJ Giavarini	
Muston Farm	SY722959	01/05/1999	abundant on <i>Fraxinus excelsior</i> ; fertile	B Edwards	
Muston Farm	SY722959	01/05/2000	<i>Fraxinus excelsior</i>	B Edwards, VJ Giavarini	
Muston Farm	SY722960	01/05/2000	<i>Fraxinus excelsior</i>	B Edwards, VJ Giavarini	
Muston Farm	SY722960	01/05/2000	<i>Acer pseudoplatanus</i>	B Edwards, VJ Giavarini	
Muston Farm	SY723959	01/05/2000	<i>Acer pseudoplatanus</i>	B Edwards, VJ Giavarini	
Piddlehinton	SY721965	01/05/2000	<i>Fraxinus excelsior</i>	B Edwards, VJ Giavarini	
Piddlehinton	SY722962	1997	on roadside <i>Fraxinus</i> with <i>Collema subflaccidum</i>	B Edwards	
South Adminston	SY7693	<1980	on <i>Ulmus</i>	Dr HJM Bowen	
Tincleton	SY7592	Dec-00	on <i>Acer pseudoplatanus</i> in avenue	B Edwards, VJ Giavarini	
Waterston	SY733951	02/01/2000	<i>Fraxinus excelsior</i>	B Edwards, VJ Giavarini	
Waterston Manor	SY733952	02/01/2000	<i>Fraxinus excelsior</i>	B Edwards, VJ Giavarini	
Woodsford	SY79	Jun-57	<i>Fraxinus</i> . (trunk of old <i>Fraxinus</i>)	TDV Swinscow	BM
East Holme Park	SY8985	<1980		Dr HJM Bowen	
East Lulworth, Monastery Farm	SY860809	15/08/1996	on <i>Fraxinus excelsior</i>	B Edwards	
Lulworth Park	SY8382	01/04/1972		Dr F Rose, Dr HJM Bowen, SR Davey	
Lulworth Park	SY8582	<1980		Dr HJM Bowen	
Lulworth Park	SY855820	1988 - 1989		VJ Giavarini	
Lulworth Park	SY853822	Jun-00		B Edwards	
Lulworth Park	SY855820	Jun-00		B Edwards	
Lulworth Park	SY858824	Jun-00		B Edwards	
Moreton	SY8189	01/07/1998	on <i>Quercus robur</i> in pasture near Snelling Farm. Fertile	Dr HJM Bowen	
Old Marl Plantation	SY857808	15/08/1996	on <i>Acer pseudoplatanus</i>	B Edwards	

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
Shaggs	SY8583	>1980	on <i>Quercus</i>	Dr HJM Bowen	
Bere Regis	SY854943	12/02/2005	<i>Fraxinus excelsior</i> at edge of field near A35	B Edwards	
Bere Regis, Doddings	SY854934	12/12/1999	<i>Fraxinus excelsior</i> in pasture	B Edwards, VJ Giavarini	
Bloxworth Down	SY874963	1993	on <i>Quercus robur</i>	B Edwards	
Milborne St Andrew	SY801961		on <i>Fraxinus</i> ; fertile	Dr HJM Bowen	
Milborne St Andrew, west of Weatherby Castle	SY801961	25/04/1999	on <i>Fraxinus</i> in pasture	B Edwards	
Throop	SY826932	28/04/1998	on <i>Quercus robur</i> in pasture	B Edwards	
Turnerspuddle	SY815930	Apr-71	<i>Ulmus</i> . (on <i>Ulmus</i> by roadside)	PW James	BM
Winterborne Anderson	SY882973	27/11/1999	<i>Acer pseudoplatanus</i> in avenue	B Edwards, VJ Giavarini	
Winterborne Anderson	SY882973	27/11/1999	<i>Acer pseudoplatanus</i> in avenue	B Edwards, VJ Giavarini	
Winterborne Muston	SY871974	27/11/1999	on <i>Fraxinus excelsior</i>	B Edwards, VJ Giavarini	
Winterborne Tomson	SY888973	27/11/1999	<i>Fraxinus excelsior</i> in pasture	B Edwards, VJ Giavarini	
Winterbourne Anderson	SY8897		Fertile	Dr HJM Bowen, Dr F Rose	
Winterbourne Tomson	SY885972	12/01/1997	on <i>Fraxinus excelsior</i> ; fertile	B Edwards	
Winterbourne Tomson	SY8897		on <i>Fraxinus</i> ; fertile	Dr HJM Bowen	
Winterbourne Zelston	SY8997			DS Ranwell	
Kimmeridge	SY9179		on <i>Acer pseudoplatanus</i> ; fertile	Dr HJM Bowen	
South Gwyle	SY944775	16-Apr-99		B Edwards.	
Corfe Castle	SY952816	01/09/1998	on <i>Fraxinus excelsior</i> in pasture	B Edwards	
Corfe Castle	SY953817	28/12/1999	<i>Fraxinus excelsior</i> in pasture	B Edwards, VJ Giavarini	
Creech Grange	SY912815	01/03/1999	high up on <i>Acer pseudoplatanus</i>	B Edwards, VJ Giavarini	
Creech Grange	SY9182		on <i>Quercus</i> and <i>Ulmus</i>	Dr HJM Bowen	
Henbury Park	SY9598			Dr HJM Bowen	
Huish Farm	SY9097			DS Ranwell	
Lytchett Manor	SY9693			Dr HJM Bowen	
Sturminster Marsh, nr	SY99	1992	on <i>Acer pseudoplatanus</i> ; fertile	B Edwards	
Sturminster Marsh, nr	SY99	1992	on <i>Acer pseudoplatanus</i>	B Edwards	
Sturminster Marsh, nr	SY99	02/03/2003	on 3 <i>Fraxinus</i> and 6 <i>Acer pseudoplatanus</i> - fertile	B Edwards	
Sturminster Marsh, nr	SY99	02/03/2003	on 2 <i>Acer pseudoplatanus</i> trees	B Edwards	
Langton Matravers	SZ006792	01/12/1999	<i>Quercus robur</i> in pasture	VJ Giavarini	
Tilly Whim	SZ0377		Fertile	Dr HJM Bowen	
Studland	SZ0382	1906		EM Holmes	
10 Isle of Wight					
S. of stone steps, North of Calbourne	SZ48	01-Mar-76		Dr F Rose	
Swainston	SZ48	1980	<i>Fraxinus</i>	CR Pope	
Swainston	SZ48		<i>Quercus</i>	CR Pope	
Arreton Down	SZ5486	01-Jun-81		Dr F Rose	
Nunwell Park W., near house	SZ5987	Apr-71	on <i>Ulmus</i>	Dr F Rose, BJ Coppins & AR Pentecost	
Quarr Abbey	SZ59	26-Mar-71	on <i>Ulmus</i>	Dr F Rose, BJ Coppins & AR Pentecost	
Quarr Woods	SZ5892	Apr-71		Dr F Rose, BJ Coppins & AR Pentecost	

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
St Helen's old church	SZ68	1979	<i>Ulmus</i>	CR Pope	
11 South Hampshire					
Ringwood, 1 mile N. of	SU10	SX09/1969	<i>Ulmus</i>	Dr F Rose	BM
South west of Blashford	SU1407	20-Sep-67	abundant on old Elm tree	Dr F Rose	
Breamore Common	SU1517	18/09/1969	<i>Ulmus</i>	Dr F Rose & PA Stott	BM
Bramble Hill - NW corner of Allum Green	SU277073	05-Oct-77	on <i>Quercus</i> on green to W	Dr F Rose	
Lyndhurst Churchyard	SU298071	06-Sep-74		Dr F Rose	
Lyndhurst Churchyard	SU298071	26-Jan-82		Dr F Rose	
Budgen Wood (Brook)	SU264137		<i>Quercus</i> ; Frequent on single tree	NA Sanderson	
Budgen Wood (Brook)	SU264137	2005	<i>Quercus</i> ; Frequent on single tree	Dr F Rose	
East Tytherley	SU2929	28-Mar-72	on <i>Ulmus</i>	Dr F Rose	
1/2 mile W. of Beaulieu	SU30	06-Oct-71	on <i>Ulmus</i> , roadside row of <i>Ulmus procera</i>	Dr F Rose	
Bishops Waltham Moors	SU560170	1984	<i>Quercus</i> in pasture	Dr F Rose	
Bishops Waltham Moors	SU560170	2001	<i>Quercus</i> in pasture, 1984 colony still there	NA Sanderson	
Bishop's Waltham Moors	SU5616	01-Aug-91	on <i>Quercus</i> in meadow to W	Dr F Rose	
Curbridge N.T., Hamble River	SU5211	17-Feb-73	on <i>Ulmus procera</i>	Davey, S.R.	
East Meon	SU6822	07/08/1969	<i>Fraxinus</i>	Dr F Rose	BM
Meonstoke Churchyard	SU6120	30-Mar-88	on Sycamore	Dr F Rose	
Petersfield, by Heath Pond	SU733265	07/08/1969	on 2 <i>Ulmus</i>	Dr F Rose	BM
Petersfield, by Heath Pond	SU733265	1970	<i>Acer pseudoplatanus</i>	Dr F Rose	
12 North Hampshire					
Longstock	SU33	>1960		Dr F Rose	
Longstock	SU355363		Landscape park, Elms lost	Dr F Rose	
Appelshaw	SU34	>1960		Dr F Rose	
Appleshaw	SU303488	1988		K Sandell	
E. of Wherwell, near R. Test	SU34	15-Mar-81	on <i>Fraxinus</i>	Dr F Rose	
1/4 mile NE of Wonston Church	SU4739	02-Apr-71	on Sycamore	Dr F Rose	
Laverstone Park	SU495490		<i>Ulmus</i> . Landscape park, Elms lost after 1971	Dr F Rose	
Laverstone Park	SU495490	11/01/1971	<i>Ulmus</i>	Dr F Rose	
Sydmonton Court	SU4857	16-Oct-69	on <i>Fraxinus</i> NW of lodge	Dr F Rose	
Cheriton, N.	SU52	07-Aug-69	on <i>Fraxinus</i> in meadow	Dr F Rose	
Cheriton, N. of	SU52	07/08/1969	<i>Fraxinus</i>	Dr F Rose	BM
New Alresford, Cheriton, NW of	SU580290	1988		K Sandell	*
New Alresford, Cheriton, NW of	SU580296	1988		K Sandell	*
Abbotstone Down	SU5836	Apr-73		Dr F Rose	
Alresford	SU53	<1900		?	BM
Avington Park	SU525320		Tree/s in parkland	Dr F Rose	
Avington Park	SU53	11/09/1969	<i>Ulmus</i>	Dr F Rose	BM
E. of Martyr Worthy	SU53	02-Apr-71	on <i>Fraxinus</i>	Dr F Rose	
Dummer, Grange Avenue	SU54	27-Jan-72	on <i>Ulmus</i>	Dr F Rose	

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
East Stratton	SU542403	1986		K Sandell	*
Stratton House	SU54	>1960		Dr F Rose	
Deane Park	SU5450	03-Oct-72	on Sycamore	Dr F Rose	
Bramdean Park	SU62	23-Nov-68	locally frequent on Elm	Dr F Rose	
Armsworth Park	SU608374	03-Apr-73	<i>Ulmus</i> , <i>Fraxinus</i> & <i>Acer campestre</i>	Dr F Rose	
Herriard	SU671476	22-Aug-70	on <i>Acer campestre</i>	Dr F Rose	
N. of Bradley	SU64	Sep-70	on old <i>Fraxinus</i> by road	Dr F Rose	
Hackwood Park (Deer Park)	SU6550	19-Feb-98	locally frequent (c20 sq.ins.) far down on old Ash pollard to NE	Dr F Rose	
Ashford Chace	SU7326	Mar-70	on Sycamore, N. of lane	Dr F Rose	
Wealden Hangers, Stoner Hill	SU733265		<i>Acer pseudoplatanus</i> on Stoner Hill East	Dr F Rose	
1.5 miles SW of Kings Farm, SE of Newton Valence	SU7131	Sep-70	on <i>Ulmus</i> in pasture	Dr F Rose	
Basingstoke Road, Alton	SU703389	16-Oct-69	on old <i>Fraxinus</i>	Dr F Rose	
South Warnborough Park	SU7246	22-Aug-70	on <i>Ulmus</i>	Dr F Rose	
Dogmersfield Park	SU75	28-Jun-70	on <i>Ulmus</i>	Dr F Rose	
Hearn Lane, Headley	SU8337	26-Dec-76	on wall	Dr F Rose	
13 West Sussex					
Itchenor Churchyard	SU799006	07-Nov-91		Dr F Rose	
Compton North, in Park	SU7715	26-Dec-69	on <i>Acer campestre</i>	Dr F Rose	
Donnington Churchyard	SU852023	30-Jan-92	on church	Dr F Rose	
East Lavant	SU8608	26-Dec-69	on <i>Ulmus</i> to S.	Dr F Rose	
1/2 mile N. of Cocking	SU878183	08-Nov-69	old Oaks by High Road, on E. side of <i>Quercus</i>	Dr F Rose	
Fairoak Park, Rogate	SU8122	24-Jan-69	on isolated Oak	Dr F Rose	
Slindon Common	SU9607	14-Dec-68	on Elms in pasture S of village	Dr F Rose	
Ebernoe, S. of Church	SU9727	07-May-83		Dr F Rose	
Petworth	SU9622	03/04/1966	<i>Ulmus</i> . (on bole of <i>Ulmus</i> in Pleasure Grounds)	PW James	BM
Petworth Park	SU9622	1985		Dr F Rose	
Petworth Park	SU9622	26-Sep-67	on Elm trees	Dr F Rose	
Petworth Park	SU9622	26-Apr-69		Dr F Rose	
Petworth Park	SU9622	16-Feb-74	on <i>Ulmus</i>	Dr F Rose	
Arundel Park, SW bank NE of Swanbourne Lake	TQ0108	09-Oct-68	on <i>Acer campestre</i> in open, very abundant on <i>A. campestre</i> on ridge nr. tower	Dr F Rose	
Michelgrove Park	TQ0707	14-Dec-68	on Elm to W, locally abundant on Field Maple	Dr F Rose	
Parham Churchyard	TQ059140	11-May-71	on limestone gravestone	Dr F Rose	
Parham Churchyard	TQ059140	06-Apr-91		Dr F Rose	
Parham Park	TQ0614	05-Nov-68	on Oak, on old Elm east of house	Dr F Rose	
Parham Park	TQ0614	19-Mar-69	on Elm trees	Dr F Rose	
Parham Park	TQ0614	11-May-71	on <i>Ulmus</i>	Dr F Rose	
Parham Park - west end	TQ0514	09-Oct-68	abundant on Sycamore	Dr F Rose	
Bignor Farm, SW of The Cut	TQ0123	Mar-68	on Elm trees	Dr F Rose	
Swephurst Farm, N. of Wisborough Green	TQ048264	21-Feb-73	on <i>Ulmus</i>	Dr F Rose	

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Baynards Park	TQ0836	27-Apr-69	on <i>Ulmus</i> locally frequent	Dr F Rose	
Elms South of Upper Beeding	TQ1909	23-Jan-69	on Elm trees	Dr F Rose	
Findon Park	TQ1108	23-Jan-69		Dr F Rose	
Clayton Farm, Washington	TQ1113	05-Jun-68	on old Elm tree	Dr F Rose	
Wiston Park	TQ1512	18-Feb-72	on <i>Ulmus</i>	Dr F Rose	
Knepp Castle	TQ1521	26-Sep-67	on Elms in avenue	Dr F Rose	
Warnham Park	TQ1532	09-Dec-68	occasional on <i>Acer campestre</i>	Dr F Rose	
Downs E. of Upper Beeding	TQ2009	08-Apr-89	on <i>Prunus</i>	Dr F Rose	
Danny Park	TQ2814	09-Nov-67	frequent on Elms	Dr F Rose	
Danny Park	TQ2814	19-Apr-69		Dr F Rose	
Elms west of A23, north of Newtimber	TQ2614	09-Nov-67	on Elm trees	Dr F Rose	
N. of Fulking	TQ2417	1970		EC Wallace	
Lower Beeding church	TQ220275	05/09/1992		K Palmer	
SW of Lower Beeding	TQ2227	Mar-68	on park Elm trees	Dr F Rose	
14 East Sussex					
Firle Park	TQ4707	>1960	<i>Ulmus</i>	Dr F Rose	
Firle Park	TQ4707	10-Oct-67	locally abundant on Elm trees, on Sycamore	Dr F Rose	
Firle Park	TQ4707	20-Jun-69	on <i>Ulmus</i> , <i>Fraxinus</i> and <i>Acer pseudoplatanus</i>	Dr F Rose	
Firle Park	TQ4707	1969 - 1991	on <i>Fraxinus</i> & <i>Acer pseudoplatanus</i>	Dr F Rose	
Glynde	TQ4509	1875	on old trees	Ex herb. JM Crombie	BM
Conyborough Park, Cooksbridge, Barcombe	TQ4014	09-Sep-67	locally abundant on one Elm tree	Dr F Rose	
Glyndebourne Park	TQ4510	20-Jun-69	on <i>Ulmus</i>	Dr F Rose	
Rocks Park, Uckfield	TQ4621	20-Feb-68	on Elm	Dr F Rose	
Buckhurst Park	TQ4834	01-Jan-68	on old Oak in field	Dr F Rose	
Buckhurst Park	TQ4834	20-Jan-68	on Oak in field	Dr F Rose	
Buckhurst Park	TQ4834	1968 - 1969	on <i>Quercus</i>	Dr F Rose	
Michelham Priory	TQ558094	10-Oct-67	abundant on Elm trees	Dr F Rose	
Heathfield Park	TQ5921	15-Jan-68	on old Oak in pasture	Dr F Rose	
Eridge Park	TQ5635	23-Mar-68	on old Field Maple	Dr F Rose	
Ashburnham Park	TQ6814	21-Oct-67	on Elm, on Poplar	Dr F Rose	
Ashburnham Park	TQ6814	16-Mar-68	on old Ash tree by drive W of house	Dr F Rose	
Ashburnham Park	TQ6814	03-Mar-69	on 3 Elms near house, on Ash	Dr F Rose	
Herstmonceux Churchyard	TQ635124	06-Apr-69	on <i>Fraxinus</i> by road	Dr F Rose	
Udimore Churchyard	TQ863189	15-Apr-68		Dr F Rose	
Bayham Estate	TQ6436	14-Jun-67	on six Elm trees, rare on <i>Acer campestre</i>	Dr F Rose	
Scotney Park, west of drive - Colliers Wood	TQ6835	25-Oct-68	on 3 Oaks, 1 Sycamore and 3 Elms	Dr F Rose	
Guestling	TQ8513	<1879		Rev. EN Bloomfield (Leighton, 1879)	
New Gate Road, Winchelsea	TQ8916	08-Apr-69	on <i>Fraxinus</i>	Dr F Rose	
NW of Udimore Church	TQ8619	15-Apr-68	on <i>Acer campestre</i> to NE	Dr F Rose	
Northiam	TQ8326	06-Apr-67	1 square inch on 2 Elms; 6 small colonies on Oak by gate	Dr F Rose	

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
Peasmarsh Place Park	TQ8822	12-Apr-68		Dr F Rose	
Peasmarsh, by church	TQ8822	02-Jun-72	on <i>Acer campestre</i>	Dr F Rose	
Greyfriars	TQ9017	Apr-67	on Sycamores	Dr F Rose	
Winchelsea	TQ9017	Apr-67	on old Ash by coast path	Dr F Rose	
Royal Military Canal, North of Rye (NE of Iden)	TQ938248	Apr-67	on Elm	Dr F Rose	
15 East Kent					
Boughton Monchelsea Church	TQ771498	30/01/1993		D Newman	
Hunton Park (lower end)	TQ7249	21-Feb-67	on old Elms	Dr F Rose	
Iden Manor, Staplehurst	TQ7941	11-Apr-67	a few patches, 1 square inch on old Elms	Dr F Rose	
Staplehurst Church	TQ785430	22/12/1993		K Palmer	
Staplehurst, Iden Manor Park	TQ7941	11/04/1967	<i>Ulmus</i>	Dr F Rose	BM
	TQ75			Unlocalised BLS Mapping Scheme record	
Benenden Church	TQ807326	24/04/1993		K Palmer	
Benenden Churchyard	TQ808327	16-Apr-67	abundant on tombstone	Dr F Rose	BM
Benenden Churchyard	TQ808327	22-Aug-68	abundant on 3 headstones	Dr F Rose	
Benenden Churchyard	TQ808327	29-Oct-68	on church, on ragstone tomb	Dr F Rose	
Rolvenden, Hole Park	TQ83G	16-Apr-67	<i>Ulmus</i> (abundant on Elm)	Dr F Rose	BM
Chilston Park	TQ8949	09-Feb-67	<i>Ulmus</i> . (on old <i>Ulmus</i> trees)	Dr F Rose	BM
Chilston Park	TQ8949	26-Jun-69		Dr F Rose	
East Sutton Park	TQ8249	19-Apr-67	on Sycamore c. 10 square inches	Dr F Rose	
East Sutton Park	TQ8249	19/04/1967	<i>Acer pseudoplatanus</i>	Dr F Rose	BM
Great Maytham Park, Rolvenden	TQ8430	06-Apr-67	<i>Ulmus</i> (on Elms, south west corner)	Dr F Rose	BM
Bearstead Park	TQ8055	06/09/1969	<i>Fraxinus</i> . (on old <i>Fraxinus</i>)	Dr F Rose	BM
Bearstead, NE of Tudor House	TQ8055	06-Sep-68	on old Ash tree in pasture	Dr F Rose	
Chilston Park - NE Sector	TQ8950	21-Jul-69	on <i>Ulmus</i> , on <i>Acer campestre</i> to SE	Dr F Rose	
Chilston Park, North West corner	TQ8950	25-Feb-67	locally abundant on old Elm	Dr F Rose	BM
Harrietsham, Stede Hill Park	TQ8854	25/09/1968	<i>Ulmus</i> . (on <i>Ulmus</i> trees)	Dr F Rose	BM
Stede Hill Park	TQ8854	25-Sep-68	locally frequent on old Elms in open	Dr F Rose	
1/2 mile south of Appledore, elms by Royal Military Canal	TQ9528	05-Apr-67	on Elm	Dr F Rose	
Appledore, 1/2 mile S of	TQ9528	05/04/1967	<i>Ulmus</i> . (on <i>Ulmus</i> by Old Military Canal)	Dr F Rose	BM
Iden Park	TQ9123	11-Apr-68	on old <i>Fraxinus</i>	Dr F Rose	
Royal Military Canal, 1/2 mile north of Kent Ditch, S. of stone bridge	TQ9425	04-Apr-67	locally dominant on Elms, locally abundant on Ash tree	Dr F Rose	
Stone com Ebony, by Royal Military Canal	TQ92	04/04/1967	<i>Fraxinus</i> . (on <i>Fraxinus</i> and <i>Ulmus</i>)	Dr F Rose	BM
Ham Street, by canal	TQ9932	May-58	<i>Ulmus</i>	TDV Swinscow	BM
Old Roadside ash tree, Redbrook Street	TQ93	07-Apr-69	locally abundant on old Ash tree	Dr F Rose	
Royal Military Canal, Kenardington, east of bridge	TQ93Q	Apr-67	on Elms	Dr F Rose	
Royal Military Canal, Warehorne	TQ9932	20-May-67	abundant on Elms west of canal bridge	Dr F Rose	
Warehorne, Royal Military Canal	TQ986332	03/03/1967	<i>Ulmus</i>	PW James	BM

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Dering Park, Surrenden	TQ9044	02-May-67	on old Elm tree	Dr F Rose	
Dering Park, Surrenden	TQ9044	26-Mar-68	on Ash tree	Dr F Rose	
Godington Park	TQ9843	07-Apr-69	on Sycamore	Dr F Rose	
Godington Park	TQ9843	Jul-69	on very old Sycamore, on old <i>Acer campestre</i> stump	Dr F Rose	
Hothfield Park	TQ9744	21-Feb-67	locally frequent on Elm tree N. of house	Dr F Rose	
Hothfield Park	TQ9744	02-May-67	(<i>Fraxinus</i>) on old ash to east, on old ash by bridge, locally abundant above on Sycamores to east	Dr F Rose	BM
Little Chart, S of Surrenden Dering Park	TQ9445	02/05/1967	<i>Ulmus</i> . (on old <i>Ulmus</i>)	Dr F Rose	BM
Belmont Park	TQ9856	06-May-67	locally frequent on Field Maple, locally abundant on ash tree	Dr F Rose	
Ham Street, by Old Military Canal	TQ95	06/05/1967	<i>Ulmus</i>	Dr F Rose & J Showell	BM
Throwley, Belmont Park	TQ9856	06/05/1967	<i>Acer campestre</i> . (on <i>Acer campestre</i> & <i>Fraxinus</i>)	Dr F Rose & J Showell	BM
Littlestone	TR0824	01/07/1967	<i>Ulmus</i> . (on <i>Ulmus</i> in avenue)	Dr F Rose	BM
Littlestone	TR0824	01-Jul-67	on two Elm trees, locally abundant on one	Dr F Rose	
Bishopsbourne, Bourne Park	TR03	19/10/1966	<i>Ulmus</i> . (on old <i>Ulmus</i> tree)	Dr F Rose	BM
Bonnington, E of bridge by Old Military Canal	TR0535	29/07/1967	<i>Ulmus</i> . (on <i>Ulmus</i> trees)	Dr F Rose	BM
Ham Street, east of bridge R.M. Canal	TR0032	19-Oct-66	on Elm	Dr F Rose	
Newchurch, 1 mile N of	TR0531	29/07/1967	<i>Ulmus</i> . (on <i>Ulmus</i> trees)	Dr F Rose	BM
Royal Military Canal, east of Bonnington Bridge	TR0634	29-Jul-67	on south side of Elm	Dr F Rose	
Ruckinge, by Old Military Canal	TR0233	29/09/1967	<i>Ulmus</i>	Dr F Rose	BM
Ruckinge, elms by Royal Military Canal	TR0233	29-Sep-67	on Elms	Dr F Rose	
South of White House, 1 mile NE of Newchurch	TR0632	29-Jul-67	on Elm trees	Dr F Rose	
Cuckolds Coomb, Wye Downs	TR0744	25-Jul-67	locally frequent on <i>Acer campestre</i>	Dr F Rose	
Elms to north of Olantigh Park, west of Godmersham Road	TR0548	20-May-67	occasional on Elm	Dr F Rose	
Mersham Park	TR0640	11-Mar-67	<i>Acer pseudoplatanus</i> (occasional on Sycamore, by path to north)	Dr F Rose	BM
Mersham Park	TR0640	26-Nov-67	on Maple	Dr F Rose	
Mersham Park	TR0640	26-Mar-68	on old Ash W of lake	Dr F Rose	
Mersham Park	TR0640	10-May-74	on Sycamore	Dr F Rose	
Mersham-Le-Hatch Park	TR0640	03/03/1967	<i>Acer pseudoplatanus</i> . (on old <i>Acer pseudoplatanus</i>)	PW James & TDV Swinscow	BM
Olantigh Park	TR0547	20-May-67	abundant on Elm, locally dominant on 2nd Elm tree, on Maple, on Elm at top of park	Dr F Rose	
Olantigh Park	TR0547	05-Aug-67		Dr F Rose	
Wye, Olantigh Park	TR0547	20/05/1967	<i>Ulmus</i> . (abundant on old <i>Ulmus</i> trees)	Dr F Rose	BM
Lees Court Park, 1/2 mile NE of house	TR0256	02/03/1967	<i>Acer pseudoplatanus</i> . (on old <i>Acer pseudoplatanus</i>)	Dr F Rose	BM
Lees Court, Sheldwich	TR0256	02-Mar-67	5-6 square inches on old Sycamore	Dr F Rose	
Lamberhurst Farm, near Yorkletts, Whitstable	TR087622	01-May-68	locally frequent on Elm in open at E end of avenue	Dr F Rose	
Whitstable, Yorkletts	TR0862	01/05/1966	<i>Ulmus</i> . (Lamberhurst Farm drive on <i>Ulmus</i>)	Dr F Rose	BM
Beachborough Park	TR1737	25-Feb-67	<i>Acer pseudoplatanus</i> (on Sycamores)	Dr F Rose & PW James	BM
Beachborough Park	TR1737	Apr-67	<i>Fraxinus</i> (abundant on Elm, on old Ash tree)	Dr F Rose	BM
Beachborough Park	TR1737	12-Mar-68	on all trees	Dr F Rose	

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Beachborough Park	TR1737	24-Jun-69		Dr F Rose	
Beachborough Park	TR1737	24-Jun-86	locally frequent on <i>Quercus</i> leaning to NE	Dr F Rose	
Beachborough Park	TR1737	15-Jul-86	on <i>Tilia</i> no.25	Dr F Rose	
Beachborough Park, east part, south of Ashholt Wood	TR1737	02-Oct-67	locally frequent on old <i>Quercus</i> , on <i>Acer campestre</i> on <i>Fraxinus</i> , on <i>Tilia</i>	Dr F Rose	
Hythe, Monks Horton Park	TR1239	24/02/1967	<i>Ulmus</i>	PW James	BM
Monks Horton Park, elm avenue	TR1239	25-Feb-67	<i>Ulmus</i> (very abundant on Elm)	Dr F Rose	BM
Monks Horton Park, elm avenue	TR1239	25-Feb-67	on two more Elm trees	Dr F Rose	
Oak tree 15m south of Asholt Wood	TR1737	02-Oct-67	on old Oak	Dr F Rose	
Postling, N of church	TR1439	29/04/1967	<i>Fraxinus</i> . (on old <i>Fraxinus</i> trees)	Dr F Rose	BM
Postling, old ash north of church	TR1439	29-Apr-67	on old Ash tree	Dr F Rose	
Acrise Park	TR1942	25-Feb-67	on Sycamores	Dr F Rose	
Acrise Park - East of Church	TR1942	23-Jun-68	on Sycamore on oak, S side, on Oak to north	Dr F Rose	
Acrise Park, 1/2 mile E of church	TR1942	25/02/1967	<i>Acer pseudoplatanus</i>	Dr F Rose & PW James	BM
Elm trees west of Winterage Farm, Acrise	TR1941	21-Jan-67	frequent on Elm - c. 20 square inches	Dr F Rose	
Elmsted, Evington Park	TR1045	Aug-67	<i>Fraxinus</i>	Dr F Rose	BM
Evington	TR1045	05-Aug-67	on old Ash stump	Dr F Rose	
Sibton Park, Lyminge	TR1541	29-Apr-67	<i>Acer campestre</i> (locally abundant on Field Maple)	Dr F Rose	BM
Sibton Park, old Acer West of road	TR1541	11-Jun-90	locally frequent on old <i>Acer</i>	Dr F Rose	
Bishopsbourne, Charlton Park	TR1853	16/03/1967	<i>Ulmus</i> . (abundant on <i>Ulmus</i> , rare on <i>Fraxinus</i>)	Dr F Rose	BM
Bourne Park, Bridge	TR1853	16-Mar-67	abundant on 3 Elm trees	Dr F Rose	
Charlton Park	TR1951	16-Mar-67	locally dominant on Elm, rare on Ash tree	Dr F Rose	
Swarling Farm	TR130528	May-67	locally frequent on Elm	Dr F Rose	
Swarling Farm	TR130528	Aug-67	on old Elm trees	Dr F Rose	
Alkham	TR2542	09-Jun-69	on <i>Fraxinus</i>	Dr F Rose	locally frequent
Broome Park	TR2148	11-Mar-67	on Elm	Dr F Rose	
Denton Churchyard	TR2146	08-Jun-68	locally abundant above on <i>Acer</i> in field by gate	Dr F Rose	
Denton Court	TR2146	16-Mar-67	<i>Acer pseudoplatanus</i> (very abundant on Sycamores)	Dr F Rose	BM
Denton Court	TR2146	25-May-68		Dr F Rose	
Denton Court	TR2146	08-Jun-68	locally very abundant on old Ash tree between drive and road, on Sycamore trees, on Maple to south	Dr F Rose	
Denton, Broome Park	TR2148	11/03/1967	<i>Ulmus</i> . (abundant on old <i>Ulmus</i> trees)	Dr F Rose	BM
Barham Park	TR2050	16-Mar-67	<i>Ulmus</i> (on <i>Ulmus</i>)	Dr F Rose	BM
Elms south west of Fredville Park	TR2550	Apr-67	rare on Elm c. 1 square inch	Dr F Rose	
Goodnestone Park	TR2554	17-Apr-67	locally abundant on old Wych Elm	Dr F Rose	
Goodnestone Park	TR2554	17-Apr-67	on old Elm to SW of park	Dr F Rose	BM
Womenswold	TR2250	11-Feb-67		Dr F Rose	
Womenswold, SE of	TR2250	11/02/1967	<i>Acer pseudoplatanus</i> . (rare on <i>Acer pseudoplatanus</i>)	Dr F Rose	BM
St. Nicholas Court	TR259669	14-Apr-67	<i>Ulmus</i> (c. 4 square inches in 4 patches on Elm)	Dr F Rose	BM
Ringwold, old elms west of	TR3548	19-Apr-67	on Elm trees	Dr F Rose	

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
Ringwould, W of	TR3548	16/03/1967	<i>Ulmus</i> ; 3 square inches only on old elm in pasture	Dr F Rose	BM
Northbourne Park	TR3452	29-Apr-67	<i>Ulmus</i> . (on <i>Fraxinus</i> and <i>Ulmus</i>)	Dr F Rose	BM
	TR3352	29-Apr-67	on old Wych Elm	Dr F Rose	
Royal Military Canal, near Higham Farm		Mar-67	<i>Ulmus</i> . (trunk of <i>Ulmus</i>)	TDV Swinscow	BM
16 West Kent					
	TQ25			unknown	
Boons Park	TQ4649	25-Nov-67	c. 6 sq. ins. on old Elm	Dr F Rose	
Brasted, Boons Park	TQ4649	25/11/1967	<i>Ulmus</i> . (on old <i>Ulmus</i>)	Dr F Rose	BM
Hever, E of Hever Castle	TQ4649	11/05/1967	<i>Ulmus</i> . (on <i>Ulmus</i> in hedgerow)	Dr F Rose	BM
Old elms in hedgerow on hill to east of Hever	TQ4944	11-May-67	locally abundant on at least 6 Elm trees	Dr F Rose	
South of Four Elms, by Edenbridge-Tonbridge Road	TQ44	21-Nov-68	rare on Elm	Dr F Rose	
Sundridge Church	TQ487549	29/09/1988		K Palmer	
	TQ45			unknown	
Groombridge Place	TQ5337	22-Mar-67	on Sycamore	Dr F Rose	
Penshurst Church	TQ527438	14/04/1990		K Palmer	
Penshurst Churchyard	TQ527438	02-May-68		Dr F Rose	
Penshurst Churchyard	TQ5243	02/02/1968	on headstone	Dr F Rose	BM
Penshurst Park, South end	TQ5344	02-May-68	<i>Ulmus</i> (on old <i>Ulmus procera</i> , SE corner)	Dr F Rose	BM
Fairlawne Park, Plaxtol	TQ5953	04-Feb-67	<i>Ulmus</i> (very rare and stunted on Elm)	Dr F Rose	BM
Fairlawne Park, Plaxtol	TQ5953	27-Jul-67	<i>Ulmus</i> . (on ancient <i>Ulmus</i> trees)	Dr F Rose	BM
Fairlawne Park, Plaxtol	TQ5953	Mar-68	on <i>Ulmus</i>	Dr F Rose	
Bayham Abbey Park	TQ6436	30/09/1967	<i>Acer campestre</i>	Dr F Rose	BM
Bayham Woods	TQ6436	30-Sep-67	locally frequent on <i>Acer campestre</i>	Dr F Rose	
Scotney Castle	TQ689353	05-Aug-67	<i>Ulmus</i> (frequent on old Elm, on old Oak in park, SW of house)	Dr F Rose	BM
Scotney Castle - parkland	TQ688349	Oct-01	on <i>Populus nigra</i>	Ishpi Blatchley	
Scotney Castle - wood S. of drive	TQ6835	14-Mar-88	locally abundant on <i>Quercus</i>	Dr F Rose	
Scotney Castle Park	TQ6835	25/10/1968	<i>Quercus</i> . (locally frequent on <i>Quercus</i> & <i>Acer pseudoplatanus</i>)	Dr F Rose	BM
Scotney Castle Park	TQ6835	25/10/1968	<i>Ulmus</i>	Dr F Rose	BM
Tunbridge Wells, 6 miles E of	TQ63	20/01/1968	<i>Quercus</i>	PW James	BM
Capel, row of old elms south of church	TQ6344	14-Jun-67	<i>Ulmus</i> (on old Elms)	Dr F Rose	BM
Yates Court, Mereworth	TQ650534	05-Aug-67	<i>Acer pseudoplatanus</i> . (patches 5-12 ft up on old <i>Acer pseudoplatanus</i>)	Dr F Rose	BM
Mountfield Court	TQ7320	22-Nov-67	frequent on old Oak in pasture	Dr F Rose	
Bedgbury Park	TQ723 4	05/09/1967	<i>Ulmus</i> . (on old <i>Ulmus</i>)	Dr F Rose	BM
Bedgebury Old Park - Three Chimneys, Goudhurst	TQ729348	04-Sep-67	rare on old Elms	Dr F Rose	
Bedgebury Old Park - Three Chimneys, Goudhurst	TQ729348	04-Sep-67	locally frequent on third old Elm	Dr F Rose	
Goudhurst, N. of, S of Winchet Hill	TQ730404	05/04/1967		Dr F Rose	BM
Hunton Park	TQ7249	21-Feb-69		Dr F Rose	
Hunton Park	TQ7249	22/02/1967	<i>Ulmus</i>	Dr F Rose	BM

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Marden, S of Chainhurst	TQ7346	14/06/1968	<i>Fraxinus</i> . (on old <i>Fraxinus</i> in pasture N. of Gatehouse Farm)	Dr F Rose	BM
Old ash N. of Gate Hurst Farm, S. of Chainhurst	TQ7346	Jun-68	c. 8 sq.ins. on old Ash tree	Dr F Rose	
Summerhill Farm, Winchet Hill	TQ7340	27-Apr-67	abundant on old Elm in front of house to SE	Dr F Rose	
Winchet Hill	TQ7340	05-Feb-67	locally abundant on Elm	Dr F Rose	
17 Surrey					
Peper Harrow Park	SU9343	25-Feb-70	on <i>Quercus</i>	Dr F Rose	
Hatchlands, East Clandon	TQ0652	22-Apr-67	on Elm	Dr F Rose	
Hatchlands, East Clandon	TQ0652	Jun-67	locally frequent on Elm	Dr F Rose	
Jeyes Park, Ockley	TQ1440	12-Dec-69	on <i>Fraxinus</i>	Dr F Rose	
Jeyes Park, Ockley	TQ1440	12-Dec-69	on one <i>Quercus</i> only	Dr F Rose	
Jeyes Park, Ockley	TQ1440	12-Dec-69	on <i>Ulmus procera</i>	Dr F Rose	
Lonesome Farm, Horley	TQ267469	17-Jan-68	on Elm trees	Dr F Rose	
Lonesome Farm, Horley	TQ267469	06-May-70	on <i>Ulmus</i>	Dr F Rose	
Blindley Heath	TQ3545	17-Jan-68	on Elm trees	Dr F Rose	
Elm 300 yards S. of Chathill, Crowhurst	TQ3748	16-Dec-67	locally abundant on Elm	Dr F Rose	
Godstone Churchyard	TQ357515	06-May-70	on gravestones - c. 20 sq ins.	Dr F Rose	
Godstone churchyard	TQ357515	30/04/1996	on stone	K Palmer	
18 South Essex					
	TL80	<1960		Unlocalised BLS Mapping Scheme record	
	TM00	<1960		Unlocalised BLS Mapping Scheme record	
19 South Essex					
	TL51	<1960		Unlocalised BLS Mapping Scheme record	
	TL53	<1960		Unlocalised BLS Mapping Scheme record	
Kelveden	TL81	<1874		Mr Varenne (Leighton, 1879)	
	TL92	<1960		Unlocalised BLS Mapping Scheme record	
	TM02	<1960		Unlocalised BLS Mapping Scheme record	
20 Hertfordshire					
	TL01	<1960		Unlocalised BLS Mapping Scheme record	
	TL10	<1960		Unlocalised BLS Mapping Scheme record	
	TL20	<1960		Unlocalised BLS Mapping Scheme record	
	TL23	<1960		Unlocalised BLS Mapping Scheme record	
	TL33	<1960		Unlocalised BLS Mapping Scheme record	
	TQ09	<1960		Unlocalised BLS Mapping Scheme record	
Aldenham	TQ19	<1900		?	BM
21 Middlesex					
	TQ38	<1960		Unlocalised BLS Mapping Scheme record	
22 Berkshire					
Appleton Lower Common	SP4203	<1988		Dr HJM Bowen	
Harts Weir	SU2393	<1980	<i>Ulmus</i>	Dr HJM Bowen	
Chilton Foliat	SU36	<1980	<i>Fraxinus</i>	Dr HJM Bowen	

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
Hungerford Newtown	SU36	1970	<i>Ulmus</i>	Dr HJM Bowen	
Hungerford, S of	SU36	1966		Dr HJM Bowen	
Kingston Lisle	SU38	<1980	<i>Fraxinus</i>	Dr HJM Bowen	
Uffington	SU38	<1980	<i>Ulmus</i>	Dr HJM Bowen	
Challow	SU3790	<1980	<i>Ulmus</i>	Dr HJM Bowen	
Hinton Waldrist	SU39	<1980	<i>Ulmus</i>	Dr HJM Bowen	
Stanford in the Vale	SU39	1966		Dr HJM Bowen	
Hamstead Park	SU4266	<1988	<i>Ulmus</i> . (very rare)	Dr HJM Bowen	
Chieveley churchyard	SU475741	1982	on tombs	Dr HJM Bowen	
Leckhampstead	SU47	1970	<i>Ulmus</i>	Dr HJM Bowen	
Peasemore	SU47	1966	<i>Ulmus</i>	Dr HJM Bowen	
Chilton	SU48	<1980	<i>Ulmus</i> . (frequent & fertile on <i>Ulmus</i>)	Dr HJM Bowen	
Churn Railway Cutting	SU4985	<1988	<i>Ulmus</i>	Dr HJM Bowen	
South Fawley	SU48	<1980	<i>Fraxinus</i>	Dr HJM Bowen	
Aldworth	SU57	<1980	<i>Ulmus</i> . (locally frequent on <i>Ulmus</i>)	Dr HJM Bowen	
	SU67	<1960		Unlocalised BLS Mapping Scheme record	
Windsor Great Park	SU97	<1900	on trees	Ex herb. J.M. Crombie	BM
Coleshill	?	1966	<i>Ulmus</i>	Dr HJM Bowen	
Gorse, nr	?	1966	<i>Salix</i>	Dr HJM Bowen	
23 Oxfordshire					
	SP20	>1960		Unlocalised BLS Mapping Scheme record	
Taynton Bushes	SP2216	<1988	<i>Ulmus</i>	Dr HJM Bowen	
2 miles NW of Chipping Norton,	SP22	Aug-67	on old <i>Fraxinus</i> on S side of road, by A44 (1 mile SE of A436 turning)	Dr F Rose	
Cornwell	SP22	<1980	<i>Ulmus</i>	Dr HJM Bowen	
Shifford	SP30	<1980	<i>Fraxinus</i> . (dying and rare on ash)	Dr HJM Bowen	
Charlbury	SP31	<1980	<i>Fraxinus</i>	Dr HJM Bowen	
Wilcote Park	SP3715	<1988	<i>Ulmus</i>	Dr HJM Bowen	
Chadlington	SP32	<1980	<i>Juglans</i>	Dr HJM Bowen	
Great Tew churchyard	SP32	<1980	on stone	Dr HJM Bowen	
Kiddington	SP32	<1980	on stone	Dr HJM Bowen	
Sandford St Martin	SP32	<1980	<i>Acer pseudoplatanus</i>	Dr HJM Bowen	
Hook Norton	SP33	<1980	<i>Ulmus</i> . (dying on Elm)	Dr HJM Bowen	
South Newington	SP33	<1980	<i>Ulmus</i>	Dr HJM Bowen	
Stanton Harcourt	SP40	<1980		Dr HJM Bowen	
Bladon	SP41	<1980	<i>Acer campestre</i> & <i>Fraxinus</i>	Dr HJM Bowen	
Bleinham Park	SP4316	<1988	<i>Acer pseudoplatanus</i>	Dr HJM Bowen	
Hampton Poyle	SP41	<1980		Dr HJM Bowen	
Tackley	SP41	<1980		Dr HJM Bowen	
Barton Abbey	SP4524	<1980	<i>Ulmus</i>	Dr HJM Bowen	
Rousham Park	SP4724	<1988	<i>Ulmus</i>	Dr HJM Bowen	

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
Broughton Park	SP4138	<1988	<i>Ulmus</i>	Dr HJM Bowen	
Waterperry Common	SP60	<1980		Dr HJM Bowen	
Knightsbridge Lane	SU6897	<1988		Dr HJM Bowen	
Pyrton	SU79	<1980		Dr HJM Bowen	
Bradwell Green	?	<1980	<i>Juglans</i>	Dr HJM Bowen	
Chedlington, S. of	?	<1980	<i>Ulmus</i> . (dying on Elm)	Dr HJM Bowen	
Potters Hill	?	<1980	<i>Ulmus</i> . (on many Elms)	Dr HJM Bowen	
24 Buckinghamshire					
Buckingham	SP63	<1900		EM Holmes	
Stowe	SP63	25-Oct-67	locally frequent on Elms in avenue	Dr F Rose	
Stowe Park	SP6737	<1988	<i>Ulmus</i>	Dr HJM Bowen	
Quianton	SP750202	<1980	on stone	FR Brightman	
Lillingstone Lovell	SP73	<1980	<i>Fraxinus</i>	Dr HJM Bowen	
Datchet	SU97	<1879		Miss Attwood (Leighton, 1879)	
25 East Suffolk					
	TM04	<1960		Unlocalised BLS Mapping Scheme record	
	TM06	<1960		Unlocalised BLS Mapping Scheme record	
	TM16	<1960		Unlocalised BLS Mapping Scheme record	
	TM36	<1960		Unlocalised BLS Mapping Scheme record	
	TM38	<1960		Unlocalised BLS Mapping Scheme record	
Sotterley Park	TM4584	>1960		CJB Hitch	
26 West Suffolk					
	TL74	<1960		Unlocalised BLS Mapping Scheme record	
	TL75	<1960		Unlocalised BLS Mapping Scheme record	
	TL76	<1960		Unlocalised BLS Mapping Scheme record	
Ickworth Park	TL8161	>1960		CJB Hitch	
Ickworth Park	TL86	28-Sep-68	on <i>Acer campestre</i>	Dr F Rose	
	TL87	<1960		Unlocalised BLS Mapping Scheme record	
27 East Norfolk					
	TG04	>1960		Unlocalised BLS Mapping Scheme record	
	TG11	<1960		Unlocalised BLS Mapping Scheme record	
Marsham	TG12	pre-1880	fruiting	Miss Barnard	
Heydon Park	TG116272	1971	on <i>Fraxinus</i>	Dr F Rose	
Bramerton	TG20	<1900		K Trimmer	
Dunston	TG20	<1900		F Mackie	
Norwich	TG20	1779		?	
Norwich	TG20	<1856		Herb. Sowerby	BM
Westwick Park	TG22	07/03/1969	<i>Quercus</i> . (in raintrack on old <i>Quercus</i>)	Dr F Rose	BM
Westwick Park	TG2826	07-Mar-69	on old Oak, N. of drive	Dr F Rose	

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
	TG31	<1960		Unlocalised BLS Mapping Scheme record	
	TG40	<1960		Unlocalised BLS Mapping Scheme record	
	TM19	<1960		Unlocalised BLS Mapping Scheme record	
Fritton Common	TM224924	1971 & 1992	on <i>Fraxinus</i> pollard	Dr F Rose (1971) P Lambley 1992	
Brooke	TM297962	1971	on <i>Ulmus</i>	Dr F Rose & P Lambley	
Geldeston	TM398923	>1960	on <i>Ulmus</i>	Dr F Rose 1971	
	TM49	<1960		Unlocalised BLS Mapping Scheme record	
28 West Norfolk					
Hilborough Park	TF825001	>1960	on <i>Fraxinus</i> fertile in 1969 & 1982 infertile 1992	Dr F Rose 1969, 1982, 1992 PWL	
Stanhone	TF83	Oct-1883		Ex herb. C Babington	BM
	TF84	<1960		Unlocalised BLS Mapping Scheme record	
Scoulton Mere	TF9801	<1960		?	
	TF93	>1960		Peter James	
	TF94	>1960		Peter James	
	TL98	<1960		Unlocalised BLS Mapping Scheme record	
29 Cambridge					
Madingley, Near Cambridge	TL35	<1881	on trees	Ex herb. Larbalestier	BM
	TL36	<1960		Unlocalised BLS Mapping Scheme record	
	TL45	<1960		Unlocalised BLS Mapping Scheme record	
	TL55	>1960		Unlocalised BLS Mapping Scheme record	
30 Bedfordshire					
Woburn Park - North drive of park	SP973352	24-Apr-67	2 square inches on south side of one elm tree; 2-3 square inches on north side - mostly moribund	Dr F Rose	
	SP94	>1960		Unlocalised BLS Mapping Scheme record	
	TL02	<1960		Unlocalised BLS Mapping Scheme record	
32 Northamptonshire					
Overthorpe	SP44	01/03/1864	on <i>Fraxinus</i> and <i>Ulmus</i> trees	?	BM
Thorpe Mandeville	SP5344	Aug-99	on sandstone memorial	TW Chester	
Canons Ashby	SP578505	23/06/1992	on stone	TW Chester	
	SP66	>1960		Unlocalised BLS Mapping Scheme record	
	SP74	>1960		Unlocalised BLS Mapping Scheme record	
	SP75	>1960		Unlocalised BLS Mapping Scheme record	
33 East Gloucester					
	SO80	<1960		Unlocalised BLS Mapping Scheme record	
	SO90	>1960		Unlocalised BLS Mapping Scheme record	
Cheltenham, Seven Springs	SO9616	Apr-03		B Benfield	
Ampney St Mary	SP088020	07/06/1999	on stone	TW Chester	
Chedworth Wood	SP065135	28/10/2000		BLS Meeting	
	SP02	>1960		Unlocalised BLS Mapping Scheme record	
	SP10	>1960		Unlocalised BLS Mapping Scheme record	
	SP11	>1960		Unlocalised BLS Mapping Scheme record	

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Batsford Park, Bourton-on-the-Hill	SP13	Aug-67	on <i>Ulmus</i>	Dr F Rose	
Chipping Campden Church	SP155393	13/09/1994		D Newman	
	SP14	>1960		Unlocalised BLS Mapping Scheme record	
34 West Gloucester					
Highgrove Estate	ST89	c. 2000		PW James	
	ST79	<1960		unlocalised BLS Mapping Scheme record	
	ST89	<1960		unlocalised BLS Mapping Scheme record	
	SO71	<1960		unlocalised BLS Mapping Scheme record	
36 Herefordshire					
Brampton Bryan Park	SO37	13-Apr-69	locally frequent on old <i>Fraxinus</i>	Dr F Rose	
Moor Park	SO44	<1877		Rev T Salwey	BM
Croft Castle	SO4565	21-Mar-90	locally frequent on Oaks, lower down	Dr F Rose	
High Cullis(?)	SO46	12-Apr-69	locally frequent on old Sycamore	Dr F Rose	
Downton Gorge NNR	SO47	20-Mar-90		Dr F Rose	
Elton (Pipe Aston Parish)	SO47	12-Apr-69	very abundant (several sq. ft.) on Sycamore	Dr F Rose	
	SO55	>1960		unlocalised BLS Mapping Scheme record	
Berrington Hill Park	SO5163	13-Apr-69		Dr F Rose	
	SO64	>1960		unlocalised BLS Mapping Scheme record	
	SO73	>1960		unlocalised BLS Mapping Scheme record	
37 Worcestershire					
North Malvern	SO74	<1900	on trees near the Pale Farm	Herb. HB Holl	BM
	SO75	<1960		unlocalised BLS Mapping Scheme record	
	SO76	<1960		unlocalised BLS Mapping Scheme record	
Bt South Littleton & Badsey	SP04	<1879		Mr Purton (Leighton, 1879)	
38 Warwickshire					
	SP16	<1960		unlocalised BLS Mapping Scheme record	
	SP18	<1960		unlocalised BLS Mapping Scheme record	
	SP23	>1960		unlocalised BLS Mapping Scheme record	
	SP24	>1960		unlocalised BLS Mapping Scheme record	
	SP35	>1960		unlocalised BLS Mapping Scheme record	
Weston-under-Wetherby church	SP3669	10/10/1992	on stone	K Palmer	
	SP47	<1960		unlocalised BLS Mapping Scheme record	
39 Staffordshire					
	SJ91	<1960		unlocalised BLS Mapping Scheme record	
	SP09	<1960		unlocalised BLS Mapping Scheme record	
40 Shropshire					
	SJ22	<1960		unlocalised BLS Mapping Scheme record	
	SJ42	<1960		unlocalised BLS Mapping Scheme record	
Loppington	SJ53	Feb-1850		Ex herb. C Babington	BM
	SO38	<1960		unlocalised BLS Mapping Scheme record	

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
Ludlow	SO57	<1900		Rev T Salwey	BM
53 South Lincolnshire					
	SK93	>1960		unlocalised BLS Mapping Scheme record	
	TF04	<1960		unlocalised BLS Mapping Scheme record	
54 North Lincolnshire					
Langton-by-Partney	TF389703	Apr-77	several large thalli on monument in churchyard	BLS, F Brightman	
55 Leicestershire					
Twycross	SK30	<1900		Ex herb. Leighton	BM
	SK51	<1960		unlocalised BLS Mapping Scheme record	
	SK71	<1960		unlocalised BLS Mapping Scheme record	
	SK72	<1960		unlocalised BLS Mapping Scheme record	
	SK90	<1960		unlocalised BLS Mapping Scheme record	
56 Nottinghamshire					
	SK52	<1960		unlocalised BLS Mapping Scheme record	
	SK53	<1960		unlocalised BLS Mapping Scheme record	
	SK57	<1960		unlocalised BLS Mapping Scheme record	
	SK63	<1960		unlocalised BLS Mapping Scheme record	
	SK73	<1960		unlocalised BLS Mapping Scheme record	
	SK85	<1960		unlocalised BLS Mapping Scheme record	
57 Derbyshire					
	SK17	>1960		unlocalised BLS Mapping Scheme record	
	SK18	>1960		unlocalised BLS Mapping Scheme record	
	SK32	<1960		unlocalised BLS Mapping Scheme record	
	SK37	<1960		unlocalised BLS Mapping Scheme record	
62 North-east Yorkshire					
Ayton, Nr	NY51	<1900	on trees	W Johnson	BM
Stokesley	NY51	1853		W Mudd	BM
	NZ40	<1960		unlocalised BLS Mapping Scheme record	
	NZ50	<1960		unlocalised BLS Mapping Scheme record	
	NZ51	<1960		unlocalised BLS Mapping Scheme record	
	NZ60	>1960		unlocalised BLS Mapping Scheme record	
	NZ61	<1960		unlocalised BLS Mapping Scheme record	
	NZ70	<1960		unlocalised BLS Mapping Scheme record	
	NZ80	<1960		unlocalised BLS Mapping Scheme record	
	SE48	<1960		unlocalised BLS Mapping Scheme record	
Nunthorp, Nr	SE65	1856		W Mudd	BM
	SE67	<1960		unlocalised BLS Mapping Scheme record	
	SE69	<1960		unlocalised BLS Mapping Scheme record	
	SE76	<1960		unlocalised BLS Mapping Scheme record	
	SE77	<1960		unlocalised BLS Mapping Scheme record	

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	SE98	<1960		unlocalised BLS Mapping Scheme record	
	SE99	<1960		unlocalised BLS Mapping Scheme record	
	TA08	<1960		unlocalised BLS Mapping Scheme record	
	TA16	<1960		unlocalised BLS Mapping Scheme record	
63 South-west Yorkshire					
	SD92	<1960		unlocalised BLS Mapping Scheme record	
	SE01	<1960		unlocalised BLS Mapping Scheme record	
	SE02	<1960		unlocalised BLS Mapping Scheme record	
	SE50	<1960		unlocalised BLS Mapping Scheme record	
	SK38	<1960		unlocalised BLS Mapping Scheme record	
64 Mid-west Yorkshire					
	SD76	<1960		unlocalised BLS Mapping Scheme record	
	SD77	<1960		unlocalised BLS Mapping Scheme record	
	SD86	<1960		unlocalised BLS Mapping Scheme record	
	SD87	>1960		unlocalised BLS Mapping Scheme record	
	SD95	<1960		unlocalised BLS Mapping Scheme record	
	SD97	<1960		unlocalised BLS Mapping Scheme record	
	SE04	<1960		unlocalised BLS Mapping Scheme record	
	SE05	<1960		unlocalised BLS Mapping Scheme record	
	SE07	<1960		unlocalised BLS Mapping Scheme record	
	SE15	<1960		unlocalised BLS Mapping Scheme record	
	SE16	<1960		unlocalised BLS Mapping Scheme record	
	SE26	<1960		unlocalised BLS Mapping Scheme record	
	SE27	<1960		unlocalised BLS Mapping Scheme record	
	SE45	<1960		unlocalised BLS Mapping Scheme record	
65 North-west Yorkshire					
	NY82	<1960		unlocalised BLS Mapping Scheme record	
	NY90	<1960		unlocalised BLS Mapping Scheme record	
Holwick	NY92	<1900	on trees	W Johnson	BM
Lartington Hall Park	NZ01	30/05/1969	<i>Acer pseudoplatanus.</i> (also on <i>Ulmus</i> & <i>Quercus</i>)	Dr F Rose, BJ Coppins & DL Hawksworth	BM
	NZ10	>1960		unlocalised BLS Mapping Scheme record	
	SD78	<1960		unlocalised BLS Mapping Scheme record	
	SD79	<1960		unlocalised BLS Mapping Scheme record	
	SD88	<1960		unlocalised BLS Mapping Scheme record	
	SD89	<1960		unlocalised BLS Mapping Scheme record	
	SD98	>1960		unlocalised BLS Mapping Scheme record	
	SD99	<1960		unlocalised BLS Mapping Scheme record	
	SE08	>1960		unlocalised BLS Mapping Scheme record	
	SE09	<1960		unlocalised BLS Mapping Scheme record	
	SE18	>1960		unlocalised BLS Mapping Scheme record	

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
	SE28	<1960		unlocalised BLS Mapping Scheme record	
Skelton, Nr	SE37	1857		W Mudd	BM
66 Durham					
Ireshope, above Coronation Bridge	NY83	1968		GG Graham	*
Newbiggin - near	NY92	1969		BJ Coppins	*
Newbiggin - near	NY92	1965		PW James	*
Eastgate - Westgate	NY93	1968		JF Skinner	SUN
Westgate in Weardale	NY93	1968		GG Graham	SUN
	NZ02	>1960		unlocalised BLS Mapping Scheme record	
	NZ03	>1960		unlocalised BLS Mapping Scheme record	
Gainford	NZ11	1895		W Johnson	E, HAMU
	NZ24	<1960		unlocalised BLS Mapping Scheme record	
67 South Northumberland					
Wark	NY8577	1879		W Johnson	E, LDS
Wark North Tyne	NY87	<1900	on trees	W. Joshua	BM
Nunwick	NY8873	1880		W Johnson	LDS
Hexham, Nr	NY96	<1900		Winch	BM
	NY98	<1960		unlocalised BLS Mapping Scheme record	
	NY99	<1960		unlocalised BLS Mapping Scheme record	
	NZ07	<1960		unlocalised BLS Mapping Scheme record	
Meldon Park	NZ1085	1886		W Johnson	LDS
	NZ28	<1960		unlocalised BLS Mapping Scheme record	
68 North Northumberland					
	NT82	<1960		unlocalised BLS Mapping Scheme record	
Calally Castle	NU0509	1969		BJ Coppins	
Whittingham, Mount Hooley	NU0611	1968		Margaret Johnson	HAMU
Vale of Whittingham	NU01	1979		BJ Coppins	
Chillingham Castle, by the lake	NU0625	1969		BJ Coppins	
69 Westmorland					
	NY52	>1960		unlocalised BLS Mapping Scheme record	
	SD48	<1960		unlocalised BLS Mapping Scheme record	
	SD58	<1960		unlocalised BLS Mapping Scheme record	
Kendal	SD59	1868		JA Martindale	BM
70 Cumberland					
Lanercost Priory	NY556637	30/08/1973	on <i>Acer pseudoplatanus</i>	D Smith	
Vice-county unknown					
	SP08			unlocalised BLS Mapping Scheme record	
	SP35			unlocalised BLS Mapping Scheme record	
	SP91			unlocalised BLS Mapping Scheme record	
	ST99			unlocalised BLS Mapping Scheme record	

SITE NAME	GRID REF	DATE	HABITAT	RECORDER	HERBARIUM
	SU28			unlocalised BLS Mapping Scheme record	
	SU70			unlocalised BLS Mapping Scheme record	
	SU78			unlocalised BLS Mapping Scheme record	
	TL24			unlocalised BLS Mapping Scheme record	
	TL64			unlocalised BLS Mapping Scheme record	
	TL65			unlocalised BLS Mapping Scheme record	

APPENDIX II: Records of *Anaptychia ciliaris* subsp. *mamillata* in England

Site Name	Grid Ref	Date	Habitat	Recorder	Herbarium
1b Isles of Scilly					
Isles of Scilly - Bryher	SV81	<1963		D.S. Ranwell	BM
1a West Cornwall					
Kynance Cove	SW6813	Oct-00	overgrowing <i>Frullania</i> on sheltered serpentine rock	B Edwards	
Kynance Cove	SW6813	26/04/2003	overgrowing <i>Frullania</i> on sheltered serpentine rock	B Edwards	
2 East Cornwall					
?	SS04	>1960		unknown	
?	SS25	>1960		unknown	
3 South Devon					
Bolt Head	SX73	c. 1870	on mossy rocks	EM Holmes	
4 North Devon					
Lundy	SS14	>1960		PW James	
57 Derbyshire					
?	SK07	<1960		Unknown	
64 Mid-west Yorkshire					
?	SD76	<1960		Unknown	
Ruteshaw [?] - Buckden	SD97	1931		Hebden	E
68 Cheveiot					
Farne Islands	NU23	1847		Thompson	