



Wimbledon and Putney Commons

ECOLOGICAL AND ENVIRONMENTAL MONITORING REPORT 2019



Photograph courtesy of Alan Wood

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Dennis Fullwood

It is with sadness we must report the death of Dennis Fullwood, of the Quekett Microscopical Club, in May 2020. As well as coordinating the Quekett's contribution to our Commons Open Day for over 20 years, Dennis was a keen supporter of many of our other events, particularly the walks and talks. Dennis and his Quekett colleagues also played a big part in our BioBlitz Weekend of Nature event, linking their work to the wider events by collecting samples from around the nature walk route, and opening up a fascinating new dimension on the Commons' flora and fauna to our visitors.

We will always be grateful for his support and friendship and he will be missed.

Thanks are due to everyone who has contributed records for this report; to the willing volunteers; for the support of Wildlife and Conservation Forum members; and for the reciprocal enthusiasm of Wimbledon and Putney Commons' staff. A special thank you goes to Angela Evans-Hill for her help with proof reading, chasing missing data and assistance with the final formatting, compilation and printing of the report.



Wimbledon and Putney Commons

ECOLOGICAL AND ENVIRONMENTAL MONITORING AT WIMBLEDON AND PUTNEY COMMONS

2019

THE YEAR IN FOCUS

2019 was another year with climate challenges. Low rainfall characterised late winter, spring and early summer continuing the dry conditions of 2018 (National Climate information Centre, 2019a). There was no significant period of winter replenishment of the ground water table and by early summer many of the Commons' ponds had low water levels with exposed muddy perimeters. Bluegate pond became completely dry. At their July outdoor meeting, which included visits to four other ponds on the Commons, Wildlife and Conservation Forum (W&C Forum) members saw clearly the extensive retreat of the pond margins at Kingsmere and Scio pond and the shallow Curling pond was virtually dry throughout. Heavy rainfall in early June and a damp July made little impact on these areas. Both months also experienced very warm weather with, in July, a new record maximum temperature for the UK recorded at the Cambridge Botanic garden (38.7°C) and more locally temperatures at Heathrow Airport reaching a maximum of 37.9°C (National Climate information Centre, 2019b). Nights were also very warm; London City airport recording 27°C at 01.20 hours on 26th July. Globally July was the warmest month ever recorded (Walker, 2019; NOAA, 2019). August too was warm (Heathrow Airport maximum 33.4°C) with below average rainfall such that despite the high rainfall totals of June it remained possible to walk dry shod across Bluegate pond well into the autumn. However, starting with rain showers in September, the weather patterns shifted to give slightly above average totals throughout September to November and more markedly above average in December. Across Britain, flooding became characteristic of winter 2019-2020 and the Commons have seen a substantive rise in the water table. By February 2020 almost forgotten springs and small channels were flowing from the high plateau areas; drainage ditches were full; and the Beverley Brook had been in spate. This current situation is good news for the ponds and remnant mires. It should especially help with ecological restoration at Farm Bog where Commons' maintenance staff are working in collaboration with volunteers from the Merton Branch of the London Wildlife Trust (LWT). With direction from the Conservation and Engagement Officer (C&EO), the maintenance team are building new dams which will complement efforts by volunteers to maintain small pool areas and control invasive scrub and grasses especially Purple Moor-grass (*Molinia caerulea*) and Bracken (*Pteridium aquilinum*).

Contrasting with the autumn and winter damp, the prolonged dry period in early 2019 following the hot dry summer of 2018 saw a marked shift in the vegetation structure of The Plain. Small tussocks of tall grass persisted along former drainage channels and in some isolated clumps but more generally the grassy sward height was reduced across wide-spread areas. The low-growing herbaceous mosaic was spectacularly revealed. At BioBlitz time in mid-June the resultant colourful floral mosaic area was a major feature contrasting markedly to the tall grassy sward of 2016 which had tended to obscure the low growing herbaceous plants. In 2019 just 40 bales of hay were collected from The Plain during the annual mowing whereas 80 bales were taken in 2016. Such was

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the floral beauty of the Plain in 2019 that one regular wildlife monitor questioned the focus on Skylark (*Alauda arvensis*) protection in the management of this area. No Skylarks were reported in 2019 (Podmore (Ed.), 2019).

The contrasting fortunes of the ponds and mires compared with The Plain reveals the importance for management of having a long-term perspective on weather variation and information specific to the Commons. There is now promising news on this front. The newly formed association, Friends of Wimbledon and Putney Commons, has offered some financial support for an on-site weather station. Research is now in progress (Spring 2020) to identify the most appropriate system in terms of scientific information and community access to the information generated. Once in place, this should greatly improve our understanding of weather changes affecting the Commons.

A major feature of ecological work on the Commons in 2019 was the renovation work along the Wimbledon Common stretch of the Beverley Brook. This is a collaborative project with the South East Rivers Trust (SERT). Commons' maintenance staff under guidance from the C&EO undertook selective clearance of the overhanging bank-side trees, some bankside vegetation and adjacent woodland. Timbers from this activity were used for in-stream creation of minor dams to generate riffles and pools and brash helped to form bankside berms to encourage meanders. Most structural work occurred in January and February 2019. By early spring, river bed improvements were evident with extensive gravel areas exposed. Regular in-stream monitoring is being undertaken by SERT and its trained volunteers while Commons' staff and volunteers have reviewed bankside changes in flora and fauna and public use. New habitat structures built from felled timbers have been created to encourage Stag Beetle (*Lucanus cervus*) colonies. Notice boards were set up to explain the works to the wider public and these have kept people up-to-date with progress and wildlife sightings in the vicinity.

In 2019 a new bird recorder joined the team monitoring the four long-term standard walks. Some progress has been made with retrieving the long-term records from 2009-17 but there is still much to do to achieve the proposed updated bird trends report for 2020/21 to coincide with the 150th anniversary celebrations of WPCC. Pleasingly the new recorder was able to participate in, and benefit from, the 2019 Bird Song Workshop, a repeat of the event newly established in 2018. This popular addition to the programme of wildlife events is open to the public and is now an established feature complementing the regular seasonal bird walks which each typically attract around 25 participants.

The 2019 *Bird, Butterflies, and Dragonflies* Report (Podmore (Ed.), 2019) now also includes a short section of moth highlights. It gives an engaging, accessible snapshot of some of the Commons' most easily spotted and notable wildlife. As pointed out in 2018 (Taylor (Ed.), 2018), the birds listed in the annual report are the records of occasional amateur observers, the keen 'twitchers', which is the long-established Wimbledon tradition for the Annual Bird Report, whereas the butterfly, dragonfly and damselfly records mainly reflect the regular transect walks (butterflies) and site spot visits (dragonflies and damselflies) of our expert volunteer recorders. Moth information has likewise been extracted from the regular systematic information which reveals 499 moth species were noted during 2019.

The search for new volunteer observers to boost the bird records and especially the monitoring of the key target area of The Plain continues. This now also extends to the flora since a long-term volunteer expert moved away in November 2019. By chance additional floral records became available during 2019 through recorders from the Surrey Botanical Society. However, regular in-

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house, seasonal records are needed to underpin management activities. An appeal for more volunteer wildlife recorders in all wildlife categories was made during 2019 but met with very limited response. In view of this, W&C Forum members have devised a Citizen Science scheme, *Commons Wildlife Watch*, to be piloted in 2020. The aim is to encourage people enjoying walks on the Commons to take a pause to record the wildlife they see and feed in their findings to a central data gathering point. It is hoped this will prove a gentler way to get volunteer help with no requirement to be an expert to join in nor need to commit to regular recording. The Scheme is loosely based on the successful national schemes organised by the Royal Society for the Protection of Birds (RSPB), most notably Big Garden Birdwatch, a weekend event of national recording run annually in late January and the round-the-year British Trust for Ornithology (BTO) Garden Birdwatch scheme (RSPB; BTO). The WPCCC scheme embraces all wildlife and to date it is planned to run on four focal 10 day periods across the main seasons and launching in late April 2020. As a pump-priming event to complement this initiative, the W&C Forum invited the Surrey Ambassador for the BTO Garden Birdwatch Scheme, Peter Almond, to give the Winter Talk 2020.

In 2019 the Winter Talk theme was, *Trees and a Changing Landscape* with two guest speakers; Jonathan Meares, Highgate Wood, Trees, and Conservation and Sustainability Manager; and David Humphries, Trees Management Officer with special responsibility for veteran trees at Hampstead Heath where Jonathan also oversees nature conservation and woodland management. Jonathan has also recently established a consultancy practice and it is in this capacity that he has assessed and mapped trees, their health and risk management from the perspective of public safety at Wimbledon and Putney Commons.

Spring 2019 also saw a new small mammal capture-release training programme for staff and regular volunteers who live close to the Commons. This was run by W&C Forum members and expert volunteers and made use of 25 Longworth traps recently purchased by WPCCC. The aim of this investment and training was to enable more frequent surveys embracing a wider range of potential small mammal habitats than is possible during the BioBlitz. It was hoped that by engaging people living on-site or very locally and extending the pool of people competent to undertake these surveys a fuller picture of the Commons' small mammal populations could be achieved.

The C&EO has continued his monthly nature diary for Putney Lower Common and regularly posts 'key features' on a new information board in the WPCCC compound area at Putney. However, despite appeals, the site still lacks regular local recorders. It is very much hoped that the new Citizen Science scheme will help to overcome this information deficit. More positively, the Hedgehog (*Erinaceus europaeus*) survey at Putney Lower Common, which was first coordinated by the Zoological Society of London (ZSL) in 2018 was continued in 2019. A pop-up Hedgehog afternoon workshop in May 2019, run by an enthusiastic local volunteer Jackie Underwood-Hall (JU-H), was very well supported and later in the year, Hedgehog expert, Dr Nigel Reeve, who gave the Winter Talk in 2017, coordinated a torch light survey of Hedgehogs at Putney Lower Common.

In mid-summer, the BioBlitz was again well-supported. As in 2018, the 2019 programme embraced the full weekend this time starting with a Friday evening walk along the newly restored section of Beverley Brook. This enabled leisurely examination of the recent works, the current state of bankside recovery from disturbance, and exploration of adjacent woodland. Small mammal trap-setting reverted back to Saturday evening but now with traps set in a range of habitat patches as used in the general nature walk, as well as around Hookhamslade pond. Saturday afternoon saw volunteer expert-led searching for butterflies, dragonflies and damselflies followed by the small

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mammal trap setting and the customary evening Bat walk and night-time 'mothing'. Sunday began with opening small mammal traps just after dawn and the usual early morning bird walk followed by investigation of findings in the overnight moth trap. Then came the general wildlife exploration walk which, as in 2018, was run as one extended walk giving time to dally over pond-dipping at Hookhamslade and take in the floral beauty of The Plain. An early afternoon talk at base-camp discussed Hedgehogs and their wellbeing while a reptile display and exhibition of wildlife texts entertained those not wanting to stroll too far and the children's Wimbledon Common Wildlife Watch Club organised activities for the very young. As is now customary, experts from the Quekett Microscopical Society offered the chance to explore the 'very small' in the Information Centre.

A programme of wildlife and conservation-management themed walks with the public was offered throughout the year further enriching the co-learning opportunities for staff and local people. A high-summer butterfly, damselfly and dragonfly walk in early August 2019 was well-supported as was the programme of seasonal walks with the staff management team.

The 'Walks for Health' programme continued to grow in popularity and is now an established WPCC activity. Fun activities for children at Easter and Halloween tempted families onto the Commons potentially generating the active engagement of a wider pool of supporters and future volunteers and wildlife recorders.

Throughout 2019, the Saturday morning scrub bashers and mid-week estates volunteer groups maintained momentum. The work, knowledge and evident enthusiasm of the mid-week group impressed DEFRA visitors to the Commons during a fact-finding visit early in the year. The work of all these volunteers is overseen by the C&EO and is dovetailed to complement management needs. They thereby make a valuable contribution to the Commons' management.

Monitoring priorities for 2019 were to:-

- Develop new monitoring along the Wimbledon Section of the Beverley Brook so that the impact of the in-stream and bankside works can be understood;
- Continue to consolidate further the records for The Plain (Figure1) as initiated in 2014 using, as far as possible, the same methodology as previously described in *Monitoring the Plain, Summer 2014; Wimbledon and Putney Commons Monitoring Report Spring/Summer 2015; Ibid 2016; and Wimbledon and Putney Commons Ecological and Environmental Monitoring Report 2017; Ibid, 2018;*
- Continue to review the impact, if any, of the summer mowing date for The Plain (Table 1) on ground nesting song bird species and flora and fauna more generally;
- Continue to monitor public response to the Conservation Zone of The Plain (Table 1, Footnote 1);
- Note general environmental features such as soil conditions and weather;
- Continue to review the benefits of the new birdsong workshops and fuller programme of bird walks with particular reference to generating new regular recorders;
- Whenever practicable, incorporate wider recording activity led by specialist groups such as the London Natural History Museum (LNHM) and London Natural History Society (LNHS) so that a fuller picture of the Commons' wildlife emerges;
- Gain fuller ecological information for Putney Lower Common;
- Continue to engage and enhance public participation in wildlife observation through a weekend of 'BioBlitz' activities;

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- Maintain and develop further a programme of year-round public participation activities through staff, volunteer, and visiting expert-led walks and other activities;
- Offer opportunities to participate in the ecological management of the Commons under the guidance of the C&EO or his delegate.

The 2019 W&C Forum members are listed in Appendix 1; the W&C Forum 2019 programme of events and volunteer activities is shown in Appendix 2.

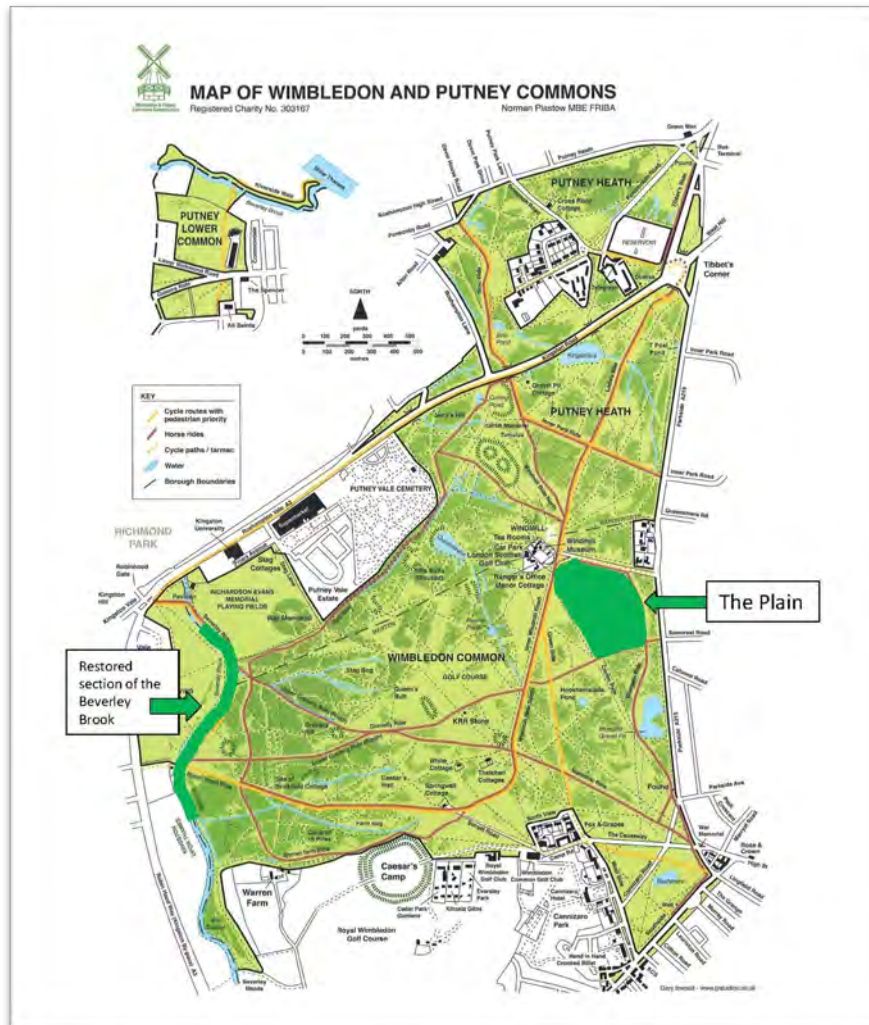


Figure 1 The Location of The Plain and the Newly Restored Section of Beverley Brook on Wimbledon and Putney Commons

As usual this report has two main sections; the systematic recording by assorted expert volunteers (pp.7-42) and the BioBlitz records derived from the weekend of nature events with the public (pp.43-49). Systematic wildlife and environmental recording is mainly focused on The Plain and nearby areas for reasons outlined in previous reports (Footnote 2) and was undertaken from March to October 2019 by assorted volunteers coordinated through the W&C Forum. However, regular monitoring now typically also includes records from the two standard butterfly transects for the Commons, which cover a wider range of habitats, and dragonfly and damselfly records from eight ponds on Wimbledon Common, Farm Bog, The Plain and a few extra 'non-pond' locations. Moth monitoring took place throughout the year initially, as previously, at 1 Thatched Cottage, a staff

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residential property on Wimbledon Common, but from mid-June, following a house move, was re-established about one mile away at Putney Heath.

There was no Fungal Foray in 2019 but it is planned to reinstate this event in 2020. The C&EO continued to undertake a reptile and amphibian survey in the areas surrounding The Plain and undertook additional regular surveys of disturbance on The Plain in the early part of the year. Some additional mammal capture-release surveys gave extra seasonal snapshots and explored a wider range of locations.

The bird 'standard walks' were fully operational in 2019 and information from these is reviewed in section A; one transect (designated 'D') crosses The Plain on part of its route. BioBlitz records and the preparation for this event yielded useful additional floral records from the Habitat Patches identified close to The Plain and along the main BioBlitz route. New in 2019 was a recording focus on the Beverley Brook corridor at Wimbledon Common.

Table 1 Mowing Dates for the Conservation Zone of the Plain 2008-2019

Year	Date mowed	Year	Date Mowed	
2008	September 27 th	2014	August 7 th	Experimental earlier mowing designed to promote a longer sward the following spring
2009	September 17 th	2015	August 8 th	Repeated early mowing; larger un-mowed zone reserved since some ground nesting song-birds still present.
2010	August 24 th	2016	August 4 th	Repeated early mowing; changed location of un-mowed area since previous location was becoming heavily invaded with tree seedlings and saplings. Linked area to small patch of taller Heather to give slightly larger contiguous uncut area.
2011	August 25 th	2017	August 4 th	Repeated early mowing; reverted back to make the un-mowed area equivalent to that for 2014 and 2015. The small patch of taller Heather was left unmowed since this includes valuable additional habitat of mature, and in places, approaching degenerate-stage Heather.
2012	August 30 th	2018	August 16 th	The same unmowed areas retained as for 2017. Mowing was held back until after the scheduled Butterfly, Dragonfly and Damselfly Walk which took place on 5 th August. The unmowed area may be rotated closer to Windmill Road in 2019.
2013	September 20 th	2019	August 20 th	Unsettled weather meant baling was delayed until 30 th August. In addition, two new areas are now mowed under this regime as part of the Countryside Stewardship agreement; a meadow area south of Bluegate pond and grassland immediately south of Tibbets corner.

Notes: Work under the Higher Level Stewardship agreement started in 2008 and finished in 2016. From 2017 heathland and grassland operations have been carried out under the umbrella of Natural England's new Countryside Stewardship scheme

¹The principal management element is late-summer mowing of the target conservation area (9.7 ha, about 4/5ths of the total area of The Plain, 11.7ha,) with (hitherto) 1 hectare left uncut as a refuge of longer grass-herb sward for the benefit of ground nesters and making an overwintering refuge for some insect species, small mammals and reptiles e.g. lizards. From spring roughly 1/5th of The Plain experiences a regular mowing regime to maintain its suitability for general recreational use; the remainder, **the Conservation Zone**, is left uncut until late summer except for three mown pathways to allow the public to traverse the area. Annually, this un-mown area is declared a temporary restricted access zone to all users and

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especially to dog walkers and their dogs from 1st March to 31st July to protect breeding birds, in particular Skylarks, from disturbance.

2. As alluded to in Table 1 and Footnote 1, monitoring focuses on The Plain since in recent years this has been identified as the key location for breeding Skylarks (*Alauda arvensis*) on the Commons. Skylarks are declining nationally, mainly due to changing farm practice. Remnant acid grassland under traditional management, such as The Plain, offers a potential refuge. The acid grassland habitat of The Plain is also important in terms of its floral and wider faunal diversity. Until 2016 The Plain was managed under a Higher Level Stewardship agreement for the Commons. It is now a focal area for the Commons new Country Stewardship agreement. It is an important element for the SSSI status of the Commons.

A. SYSTEMATIC RECORDING

For most organism groups, monitoring in 2019 followed procedures adopted in 2014-18. As in 2018, there was again no bird recording specifically focused on the Conservation Zone of The Plain during the restricted access period (March to August mowing). Some information can be derived from the amateur adhoc records in the Annual Bird Report and from standard bird transect walk D. As stated last year, given the SSSI status of the area and its relevance for Countryside Stewardship support, it would be beneficial to re-instate this targeted summer count which gives a useful indication of the relative abundance of species as well as confirming species present.

Flora were recorded by the same volunteers as in 2014-2018; moths as in 2015-18 except for the re-location of the overnight trap in mid-summer. Butterfly recording followed the scheme introduced in 2015 though the woodland transect was recorded by a new volunteer. Illness of the lead recorder curtailed the dragonfly and damselfly recording but spot records from a wide range of locations were achieved. The C&EO again conducted a reptile and amphibian survey building on data from 2015-18 and also undertook early season monitoring of public use of The Plain. Small mammal surveys were undertaken, in Spring, at BioBlitz time and in Autumn. Bat records were obtained from the BioBlitz but there were no other Bat walks during 2019. No fungal forays were undertaken in 2019 though some casual observations were made during other field recording. The British Trust for Ornithology's 'Tawny Owl (*Strix aluco*) Survey' (30th September 2018 to the end of March 2019) included regular observations by two W&C Forum members focusing in particular on the windmill area and locations around Thatched cottages. The BTO 2018/19 Tawny Owl Calling Survey report is available on their website <https://www.bto.org/our-science/projects/tawny-owl-calling-survey>.

The focal recording area was again The Plain, a key location for the Countryside Stewardship Scheme and formerly in the Higher Level Stewardship Scheme. Wider records from other habitats at Wimbledon Common and Putney Heath are included, most notably those from the butterfly transects, as established in 2015, and from the pond locations visited in dragonfly and damselfly recording. The main addition in 2019 was some floral survey work undertaken along the Wimbledon section of the Beverley Brook to monitor re-growth associated with the in-stream and bankside works. Spot bird records were taken during these surveys. In-stream monitoring of macroinvertebrates was undertaken by SERT volunteers. No systematic records are available for Putney Lower Common despite requesting help from regular walkers on the Common. The C&EO has, however, continued his informal monthly walks building a valuable diary of seasonal change and wildlife at Putney Lower Common. Some targeted Hedgehog survey work was undertaken by ZSL and volunteers, building on 2018 activities.

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On-site environmental data for the Commons are limited to anecdotal records from the assorted floral, bird, and insect recorders and from staff and some wider observations from volunteers on walks around The Plain. As in 2018, rainfall data for 2019 were again available from garden recordings made nearby (roughly 2.5 miles) in Raynes Park by W&C Forum member, Peter Fischer (PF). Plans to incorporate a small weather station within the proposed wildlife garden near the information centre remain 'on-hold'. However, the associated public appeal to support the wildlife garden has now reached its target so with the additional support for the weather recording, promised from the newly formed Commons' Friends, it may be possible to achieve this in 2020 or early 2021. An overview of monitoring activities is shown in Table 2, highlighting 2019 particular. Fuller information on pre-2019 recording is given in Table 2 of the 2018 monitoring report.

Table 2 Summary of Systematic Recording in 2019 and Recent Years

Organism Group/ environmental topic	2014	2015	2016	2017	2018	2019	Locations 2019	Comments	BioBlitz records available
Birds	Dave Wills (DW)	DW	DW	(DW) AP/ LE- H/ GG	AP/ LE-H/ GG	AP/ LE-H/ GG/AB	Walked all 4 standard bird walk transects AB joined the group and took over walk D	Also 'spot' records from all volunteer observers in Annual Bird Reports. Wimbledon Common and Putney Heath only	Y
Butterflies	DW (GC) (SR)	SR1 DW	SR1 and SR2	SR1 and SR2	SR1 and SR2	SR, PF	SR1 Woodland, SW Wimbledon Common walked by PF in 2019 SR2 GC re-developed and extended transect walked by SR and AD	With input from Butterfly Conservation SR established a new more woodland-focused transect in 2016 SR trained up PF and AD	Y
Dragonflies and Damselflies	NR	BB SR	BB	BB	BB (SR)	(BB) SR	Only impromptu spot records available in 2019	Ill health restricted BB; SR and others contributed information	Y
Moths	NR	LE-H AE-H	LE-H AE-H	LE-H AE-H	LE-H AE-H	LE-H AE-H	Mainly at staff residence; some from BioBlitz public events near The Plain	Chief recorder moved from 1 Thatched Cottage to Putney Heath late June 2019. Moth trap relocated accordingly	Y
Other insect groups	DS	LNHM major surveys	LNHM volunte er	-	Some from LNHS	Only at BioBlitz time	The Plain and nearby heaths John Locke assisted	SP at last minute unable to join BioBlitz. JL gave valuable assistance No expert LNHM nor LNHS recording	Y
Reptiles and Amphibians	NR	PH	PH	PH	PH	PH	The Plain and adjacent heath areas		Y
Flora	US RT	US RT	US RT	US RT	US RT	RT	The Plain and BioBlitz Habitat Patches plus Bluegate and environs, Beverley Brook corridor	Farm Bog visit to investigate 'guerrilla' planting Additional records from Surrey Botanical Society made available late summer	Y
Fungi	(AO)*	(AO)*	AO	AO	AO	NR	Usually on heathland with scrub and secondary woodland west and south of The Plain	No Fungal Foray in 2019; some spot observations	N
Mammals	Londo n Bat Group	JT (Bats)	PB Bats)	JT (bats) AL (small mamm als)	PB AL, APel, J&I SW, RT	JT (Bats) APel, RT, J & I S-W JC (Badgers)	Queensmere (Bats) Habitat fringes of The Plain (small mammals) and Nature Trail Throughout WPC	Bats at BioBlitz only Small mammals in April near Hookhamslade; at BioBlitz around Hookhamslade and in Habitat Patches; Early October at Nature Trail Night-time badger surveys all year	Y
Environmental data	RT pH	-	BB pond nutrien ts	PF rainfall	PF rainfall	PF	Nearby in Raynes Park 2.5miles from the Ranger's Office	Monthly records 2005 to date	Y
Sward height	RT	RT	RT	(RT)	(RT)	(RT)	The Plain	Early season records only April- May	N
Public use of The Plain and seasonal change	JW	JW	(JW)	(JW)	-	C&EO	The Plain	Spring and early summer records Still need a replacement for JW	Y

Notes:-

See Appendix 1 for recorders' identifications

Additional verifiable records are periodically available from London Natural History Society (LNHS) visitors; from training events for London Natural History Museum (LNHM) entomologists; and from WPC Keepers and other staff; and public casual observations.

(RT), (JW) Brackets indicate only a partial record is available on that occasion; * indicates data only; NR means no records available.

RESULTS

Sward Height

A full discussion of sward height concerns and review of the mowing practice on The Plain, under the former Higher Level Stewardship (HLS) scheme and now continued into the new Countryside Stewardship (CSS) scheme, was given in the 2018 monitoring report (Taylor (Ed.), 2018). The regime has seemingly been successful in generating a variable height and species diverse acid grassland sward. The area is now officially categorised as 'unfavourable recovering' whereas when the HLS scheme commenced The Plain's sward was considered 'unfavourable'. At Natural England's recommendation this mowing regime has now been extended to two further small grassland remnants; the meadow area south of Bluegate pond and grassland immediately south of Tibbets Corner, with a view to reducing their acidity and improving their species diversity and thereby their status as acid grasslands. The aim is to extend the areas of good quality acid grassland, a habitat under threat in the Greater London area. The presence of acid grassland, as exemplified by The Plain, is a key factor in the SSSI designation of much of Wimbledon and Putney Commons.

However, on The Plain the role of Yellow Rattle (*Rhinanthus minor*) in the story of reduced grass dominance opening up the sward and giving greater prominence to herbaceous flowering plants must also be acknowledged. This species, which is semi-parasitic on grasses, has become widespread on The Plain since 2006 when the HLS scheme started. It seems that its presence is another key factor in the sward diversification. Today, horticulturally, Yellow Rattle is considered an important element in any meadow creation scheme. However, in the context of the new target remnants of potential acid grassland there are currently no plans to deliberately introduce this species.

The focus on vegetation height in this monitoring series was a response to concerns related to ground nesting birds and, in particular, Skylarks. However, as discussed in the 2018 review of this topic, while the management regime practised since 2014 has undoubtedly produced a more favourable sward, Skylarks have only successfully nested and raised chicks once during this period, in 2015, which was the first time since 2007. Indeed in 2019 there were no reports of Skylarks on The Plain even though in previous years they have been seen visiting but not nesting. It would seem that sward height and its management is not the determining factor for Skylarks' presence and successful nesting on the Plain.

However, the primary aim of the CCS and former HLS scheme was promoting a species diverse acid grassland vegetation community. This would give the basis for a diverse and thriving insect fauna and, along the food chain, support other fauna that favoured acid environments. Variation in height within the plant community is also important since the requirements of the assorted faunal elements for nesting, foraging and feeding differ. The especial concern with Skylarks was a particular local interest. There is evidence that other bird species are benefitting e.g. ground nesters such as Reed Bunting (*Emberiza schoeniclus*), and Meadow Pipit (*Anthus pratensis*) while Stonechats (*Saxicola rubicola*) seemingly relish the residual leggy heather during their spring and autumn migrations.

As noted in the 2018 report, when reviewing the systematic spring sward height measurements taken in 2014 through to 2016 alongside the more cursory surveys of 2017 and 2018, the extent to which grass dominates and the height achieved seems to be very dependent on soil water availability. Spring 2019 followed a dry winter period which in turn followed a very warm summer

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and the reduced grass vigour was very noticeable. Unusually, by mid-March there was no standing water. Spot measurements taken in mid-May during floral survey showed a sward still typically only 20-25cm tall in the areas known to be more lush and, in many areas, only 6-7cm high (Figure 2). Very noticeable was the clearer visibility of the Common Vetch (*Vicia sativa*) within the sward (Figure 3); it was not swamped by vigorous grasses as has occurred in wetter years.



Figure 2 Short Sward and Heather on the Dry Plain, Mid-May 2019



Figure 3 Common Vetch Amidst the Sward, The Plain - Mid-May 2019

There remains a need for a new volunteer to undertake some more extensive height measurement during the spring to early summer phase and, given the seemingly slow recovery from mowing in 2019, some autumn measurements too would be useful. A baseline survey of the remnant grassland areas newly included in the mowing regime would also be sensible.

Public Use of The Plain – Disturbance Factors

In Spring 2019, the usual notices were posted telling the public about the Skylark Protection Area (i.e. the Conservation Zone)³ requesting people to keep to the mown pathways and to keep dogs on-lead when walking through the Conservation Zone. The restriction runs annually from 1st March until the end of July. Its aim is to prevent disturbance that might deter ground nesting bird species, and especially the endangered Skylark, from using the area. Around 30 notices were displayed along the boundaries of the Conservation Zone and near the access points to some of the mown pathways (Figure 4).

In the absence of alternative volunteer support, in Spring 2019 the C&EO made seven visits to The Plain between 13th March and 23rd May to observe the levels and type of disturbance that might be affecting the area and review the public response to the notice board requests. On each occasion The Plain was observed from the southern boundary of the designated Skylark Protection Area. This was complemented by a walk-over and observations of the wider area. Disturbance was recorded when people and their dogs were seen using or passing through the Skylark Protection Area on The Plain and also when people were seen travelling along the nearby Centre Path but with their dogs off-lead and running freely into any part of the restricted area (Table 3).

3. The Conservation Zone of the Plain is the area subject to the seasonal mowing as defined in Table 1 and footnote 1. The Skylark Protection Area refers to the same area. The notices use this terminology to emphasise the importance of minimising disturbance to any ground nesting birds that might be present. Though scarce on The Plain in recent years, Skylarks, a red-listed species in decline in Britain, were formerly frequently seen and known to nest on The Plain.

Table 3 Observations of Disturbance on The Plain, March – May 2019

Date	Time (hours)	Weather	Visitors with dog off lead	Visitors with dogs on lead	Visitors without dogs	Total recorded disturbance
13.03.19	10 - 11	9°C	16 visitors with 22 dogs off lead	2 visitors with 2 dogs on lead	1 jogger without a dog	19 visitors with 24 dogs
19.03.19	08 - 09	8°C, wet ground conditions	15 visitors with 22 dogs off lead.	No visitors were recorded with their dogs on lead.	No visitors without dogs	15 visitors were recorded with 22 dogs off lead
24.03.19	10.30 - 11.30	11°C, sunny with a gentle breeze	42 visitors with 28 dogs off lead	9 visitors with 6 dogs on lead	2 adults and 2 small children walked past the uncut area flying a kite; 1 jogger seen without a dog	56 visitors and 34 dogs
05.04.19	14.45 - 15.45	14°C, sunny with a gentle breeze	6 visitors with 5 dogs off lead	No visitors were seen with dogs on lead	2 joggers and a family group of 2 adults and 2 children	12 visitors and 5 dogs
18.04.19	14.15 - 15.15	21°C, sunny	2 visitors with 2 dogs off lead.	20 visitors seen walking along Centre Path with 12 dogs on lead.	5 individual visitors seen on The Plain without dogs	27 visitors and 14 dogs
03.05.19	15.20 - 16.20	14°C, heavy rain from 15.40	6 visitors with 7 dogs off lead.	2 visitors with 1 dog on lead	1 jogger and 2 walkers were seen without dogs	11 visitors and 8 dogs
23.05.19	10 - 11	18°C, sunny	21 visitors with 25 dogs off lead	No visitors were recorded with dogs on lead.	No visitors were recorded without dogs	21 visitors and 25 dogs

It was evident that most people using The Plain in early spring were accompanied by dogs most of which were off-lead and allowed to roam freely. Despite the numerous public notices very few users seemed to have read these and digested their content but most were happy to comply when the reasons for the Skylark Protection Area were explained (C&EO personal communication).

Although visits to observe disturbance on The Plain ended in late May, it was noted that the time when most visitors crossed The Plain with dogs off-lead was during the period when there was very little contrast in vegetation height of the Conservation Zone and the unrestricted Recreational or Amenity Zone nor between the general vegetation heights in the restricted area and the pathways mown through the area. Given there are approximately seven months of the year when visitors are allowed to walk freely across The Plain, it seems that this behaviour becomes so ingrained that by the time the restrictions come into force again at the start of March the need for care has largely been forgotten. Experience shows that as the contrast between the appearance of the vegetation in the Conservation and Amenity Zones becomes more evident (Figure 4) the majority of people automatically comply keeping to the mown pathways and with dogs on lead while crossing the Conservation Zone.

Inevitably there are exceptions either by intent or forgetfulness. Chance incursions often take place on the western side of the Conservation Zone which is bordered by a main pathway from the War Memorial near Wimbledon Village towards the Windmill complex. This pathway, Centre Path, is often congested such that detours onto The Plain to overtake are often seen. On this pathway dogs are currently not required to be on lead. But as people and their pets leave the Windmill complex and the Amenity Zone of The Plain incursions into this first section of the Conservation Zone are frequent, the more so since on the far side of the path there is woodland and, in places, fairly impenetrable scrub with Common Nettles (*Urtica dioica*) and Brambles (*Rubus fruticosus* agg.). Additional notices as people start along the section of this pathway which runs alongside the Conservation Zone area of The Plain might be a sensible precaution.

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Figure 4 The Plain in Spring 2019 - Showing how Definition of the Mown Paths Develops as the Season Progresses



Informal paths on The Plain photographed on 24th March 2019 (left) and 18th April 2019 (right)



Informal paths on The Plain following mowing on 23rd May. The righthand photo shows a Skylark Protection Area notice at the northern entrance to the mown pathway nearest to Centre Path

The paths are regularly mown during the summer months by the Commons Maintenance Team to ensure they remain clearly visible and easy to use.

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Flora

In 2019 most floral recording on The Plain from was undertaken by RT; US was available to assist at BioBlitz time (Appendix 3a). These data were complemented by records taken (RT) at the associated 'Habitat Patches' used in the BioBlitz event (Appendix 3b). Overall 67 species were recorded on The Plain in 2019 which is less than previously for a similar recording time span but now with only one person recording (Table 4). Two species missing from the usual record both favour damp conditions viz. Redshank (*Polygonium persicaria* (aka *Persicaria maculosa*)) and Marsh Cudweed (*Filaginella* (*Gnaphalium*) *uliginosa*) and their absence was not unexpected. Both these species were, however, seen flowering in the remnant damper areas of the exposed bed of Bluegate pond. In the Habitat patches a further 23 species were recorded at BioBlitz time. Additionally, in 2019, a chance meeting with recorders from the Surrey Botanical Society (SBS) led to a wealth of new information for Wimbledon Common and Putney Heath overall (Appendix 3c). Floral recording (RT) was also undertaken beside the newly modified stretch of the Beverley Brook. These data are discussed later with other records from this new location.

The flora of The Plain was recorded in May; in early and mid-June ahead of the BioBlitz; and in a later rapid survey in early October, post cutting of The Plain. The Habitat Patches were separately recorded in detail ahead of the BioBlitz event and in shorter reconnaissance visits in May. All the Habitat Patches were re-visited in early October. Given the extended period of dry conditions in spring and early summer, attention was also given to Bluegate Gravel Pit and Hookhamslade ponds. SBS records relating to The Plain and environs are mainly from late May and June 2019.

For The Plain, the usual seasonal trend was evident. 40 species were recorded on 15th May rising to 59 noted on 5th June and 61 on 20th June. Overall 66 species had been recorded by BioBlitz time and with the early autumn extra record for Autumn Hawkbit (*Leontodon* (*Scorzoneroides*) *autumnalis*) this gave 67 species overall. The first survey in May was only a short walk about due to the recorder's rib injury. The first full record was made in early June and noticeably the Common Field Speedwell (*Veronica persica*) was not reported which may reflect this differing recording activity. This species was recorded on The Plain in 2018 in some abundance whereas previous records in this series came from The Plain margins in early May in 2014 and 2016 only. It was last recorded by SBS in October 2018 near Springwell Cottage but was not noted in their 2019 surveys. The fern, Adder's-tongue (*Ophioglossum vulgatum*) was, however, found again (RT and SR) the small colony clearly visible in the shorter sward that prevailed in 2019 compared with 2018 (Figure 5). Undoubtedly it was the taller sward height 30cm+ at the first recording period in mid-May 2018 which led to the null record for this species that year. The most striking change in the 2019 sward was the widespread Vetches. Common Vetch (*Vicia sativa*), Tufted Vetch (*V. cracca*) and Smooth Tare (*V. tetrasperma*) were all recorded with the Grass Vetchling (*Lathyrus nissolia*) also more prominent than usual. The greater visibility of these species clearly reflected the generally shorter grass sward. Nevertheless, all the usual grass elements were recorded and the typical Rushes (*Juncus* spp.) and Field woodrushes (*Luzula* spp.). Curiously the usually frequent Common sedge (*Carex nigra*) was not noted, possibly restricted by the dry conditions at the main survey times.



Figure 5 Adder's-tongue on The Plain - April 2019

By June, The Plain had assumed its high summer floristic diversity. Bee Orchids (*Orphrys apifera*) were again present and appeared to be spreading but, in the by now prevalent dry conditions, the Southern Marsh Orchid (*Dactylorhiza praetermissa*) patch, noted in 2015 and 2016, though searched for, could not be found. Pleasingly the SBS recorders did find one specimen of this plant on The Plain (29th May) between the May and early June recording phases by RT. This is, however, a major decline since the 2015 and 2016 records; around 20 individual plants were noted in 2015. Most probably this change reflects the dry conditions prevalent in 2018 and 2019. It must, though, be noted that the colony was found thriving close to the uncut area in summer 2015 and 2016 but was hard to find and much reduced in summer 2017. This followed a change to the area left un-mowed in August 2016 when the area close to the colony was cut to prevent succession to scrub. It will be interesting to see if more specimens are found in 2020 following the very wet winter weather and soil moisture replenishment.

In general, in summer 2019 The Plain was a colourful mosaic of plants. Grass height was shorter giving the flowering herbaceous plants more prominence. Yellow Rattle was widespread and present in mosaic patches alongside Red and White Clover (*Trifolium pratense*; *T. repens*) with Heath Bedstraw (*Galium saxatile*), Tormentil (*Potentilla erecta*) and Bird's-foot Trefoil (*Lotus corniculata*) also widespread (Figure 6).

Mowing in 2019 took place slightly later than in recent years with baling delayed by unsettled weather. Although some rain showers had occurred the ground remained dry in late summer and there was little sign of regrowth until late in September. The post mowing survey was therefore not undertaken until early October. As is now known to be typical, Autumn Hawkbit was widespread. Also in flower were occasional instances of Dandelion (*Taraxacum officinale*), Tormentil and Red and White Clover. The shorter Heather (*Calluna vulgaris*) had mostly finished flowering by the survey date. The overall prospect was a grassy stubble.

Table 4 Recording Effort and Overall Plant Species Counts on The Plain 2014-19

	Year					
	2014	2015	2016	2017	2018	2019
Number of full visits	6	4	3	2	2	2
Number of rapid back-up visits	3	2	2	2	1	2
Number of species recorded	79	80	75	73	74	67

In the **Habitat Patches** plant surveys were conducted ahead of the BioBlitz at the likely stopping points on the general walks with the public (Appendix 3b). As in 2017 and 2018, Bluegate Gravel Pit pond and environs, though not part of the 2019 BioBlitz route, was also visited in mid-summer and in early October for comparative purposes with previous years and to explore its condition following the pro-longed dry conditions of 2019. For most of the summer the entire pond bed was exposed. Trifid Bur-Marigold (*Bidens tripartita*) carpeted much of the exposed pond bed and Marsh Pennywort (*Hydrocotyle vulgaris*) was widespread. Redshank was prolific towards the bankside area closest to Parkside; Marsh Cudweed was found in damper areas. Occasional Purple Moor-grass tussocks were evident within the former pond area. On the island area within the 'pond' the invasive garden escape, Michaelmas Daisy (*Symphyotrichum (Aster) novi-belgii*) was in flower in late summer and appeared to be spreading into the area of the pond bed (Figure 7). Willow (*Salix cinerea*) was also spreading into this area and Yellow Flag Iris (*Iris pseudocorus*) was present in extensive carpets across the northern side of the pond bed. Soft Rush (*Juncus effusus*) was very characteristic of the western marginal areas. It was not until late autumn that small pools of water returned to Bluegate pond (Figure 8). By contrast Hookhamslade pond seemed less reduced in area than in 2018.

**Figure 6 Tormentil on The Plain – June 2019**



**Figure 7 Michaelmas Daisy
Encroaching at Bluegate Gravel Pit
Pond**



**Figure 8 A Dog Enjoying a
New Pool at Bluegate
Gravel Pit Pond – Early
October 2019**

The data from Surrey Botanical Society (SBS) opens new avenues for analysis. Field recording is based on 1km grid squares and, as such, does not coincide neatly with the more location and habitat focused surveys currently undertaken on the Commons. However, it does give a valuable opportunity for cross reference and data verification. It also allows investigation for new arrivals and reveals where species are no-longer regularly recorded; it is a rich pool of information for identifying historical changes. The data supplied include all the available SBS records for Wimbledon Common and Putney Heath but do not cover Putney Lower Common. This large data set is available electronically via WPCC. The records have also been re-sorted to include only the most recently recorded instances of a species as shown in Appendix 3c and can alternatively be explored for each kilometre grid square. There is potential for much fuller investigation than can be made in the context of this report.

What is immediately evident is the importance of survey timing and intensity of geographical coverage. As noted above the SBS recorders found Southern Marsh Orchid in 2019. On the other hand, there is no record of Adders-tongue since 2009 when more than 100 specimens were noted. The grid reference supplied indicates this is the colony seen today on The Plain though it does now

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appear to be reduced in size. Bee Orchid is also surprisingly missing from the SBS records and Tufted Vetch was recorded as last seen in 2018 whereas it was fairly widespread on The Plain in 2019 and in the nearby Nettle and Hogweed Patches.

Very beneficial are the records from locations where little previous information is available, for example the Beverley Book corridor. Also, potentially very helpful, in view of the proposed new management works at Farm Bog, are the SBS records for this important site. These records clearly document Common Butterwort (*Pinguicula vulgaris*) as planted in 2018. Butterwort now seems well established. This apparent 'guerrilla gardening' has recently been the subject of debate at the Wildlife and Conservation Forum where it was agreed that, though not historically recorded at Farm Bog, the species is not out of place in this location.

Disappointingly the extensive 1991 data from the in-depth floral investigation by former Conservator and Forum member, Una Sutcliffe (US), are not included in the SBS record. Sutcliffe's record includes a zone with Bogbean (*Menyanthes trifoliata*) (Drakeford and Sutcliffe, 2000) which even then was considered a much-reduced area by comparison with former records. The most recent record for Bogbean from SBS is from 1961.

A similar story to that for Butterwort, is suggested by the records for the insectivorous Oblong-leaved and Round-leaved Sundews (*Drosera intermedia* and *D. rotundifolia*). Both were recorded at Farm Bog in 2019 by SBS but were not noted, despite searching, in Sutcliffe's 1991 survey. While there is a 1948 record for Round-leaved Sundew there are no previous records of Oblong-leaved Sundew at Farm Bog. A thorough and well-coordinated botanical re-survey of this site is overdue.

Birds

Detailed information on the Commons' birds is available from *The Birds, Butterflies and Dragonflies, of Wimbledon and Putney Commons, Annual Report, 2019* (Podmore (Ed.), 2019) and, as included for the first time last year, information is also available from the standard bird transect walks (Appendix 4). Once again there was no summer season focused recording for The Plain as happened in 2014-2016 but which has not been undertaken since Dave Wills (DW) our long-term bird recorder died. New volunteer help is still needed to enable reinstatement of these observations which give valuable additional information on the relative abundance of the species most frequently observed over The Plain, as well as those of special conservation interest.

In the Annual Report based on the amateur enthusiasts' records, 85 bird species are listed which is a drop from 93 the previous year. Indeed, the equivalent the long-term records regularly report between 90 and 100 bird species for Wimbledon Common and Putney Heath (Table 5). It is possible that that fewer people have been sending in records since a major revision and update of the contact list in 2017. These records are dependent on the chance observations of enthusiasts and they are not based on a systematic series of observations nor directed regular searches.

Nevertheless, this decline in species observed would be concerning if repeated in 2020.

Disappointingly there were no reports for Skylarks in 2019. Also missing in 2019, but usually present, were Siskin (*Spinus spinus*) and reports of Redpoll (*Acanthis cabaret*) were much fewer than usual. Every year there are some surprise exciting additions. In 2018, this was an Arctic Skua (*Parasitic jaeger*), possibly reflecting the 'Beast from the East' exceptional weather conditions or perhaps simply following a shorter, less stormy, migratory route. (This record was subsequently rejected by the Surrey Birds Record Committee due to lack of photographic evidence.) In 2019, a

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Black-tailed Godwit (*Limosa limosa*) spotted at Rushmere on 4th August, was the surprise extra species.

Table 5 The Number of Bird Species Reported Each Year by Amateur Enthusiasts, 2014-19

Year	2014	2015	2016	2017	2018	2019
Total of different bird species reported.by amateur enthusiasts	91	96	94	97	93	85

Firecrests (*Regulus ignicapilla*) continued to do well particularly favouring woodland areas with dense Holly (*Ilex aquifolium*) understory; and Blackcaps (*Sylvia atricapilla*), Figure 9, were more abundant than usual, seemingly taking over every suitable clump of Bramble. Again it was clear that birds of prey form a significant part of the Commons' bird community with Kestrel (*Falco tinnunculus*), Hobby (*Falco subbuteo*), Buzzard (*Buteo buteo*), Sparrowhawk (*Accipiter nisus*), Peregrine Falcon (*Falco peregrinus*), Red Kite (*Milvus milvus*), Tawny Owl (*Strix aluco*) and Short-eared Owl (*Asio flammeus*) all recorded .



Figure 9 Blackcap – a Characteristic Species of the Commons in 2019

There are no records from Putney Lower Common in the Annual Report. An indicative record for The Plain has been extracted from the raw data supplied to the compiler of the Annual Bird Report (Table 5). Additional species over 2018 are Swallow (*Hirundo rustica*), Blackcap, Whitethroat, and Stonechat; missing in 2019 were Lapwing (*Vanellus vanellus*) and Woodcock (*Scolopax rusticola*). By contrast with 2018, this was a poor year for Meadow Pipit (*Anthus pratensis*), possibly reflecting the short sward, and Wheatear (*Oenanthe Oenanthe*) was not seen on The Plain during the autumn migration .

Table 6 A Summary of Bird Sightings for The Plain 2019 - Extracted from the Bi-Monthly Reports of Amateur Observers Used to Compile the Annual Bird Report

	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
	Number of Observations											
Species												
Lapwing	Not recorded											
Common Snipe			2		1							
Meadow Pipit										6		
Reed Bunting		1	1		2	2						
Skylark	Not recorded											
Reed Bunting				2					1	4		
Northern Wheatear				2	1							
Common Tern							1					
Common Swift					40-50	80+						
Common Buzzard						1	3					
Hobby					1							
Stock Dove								16				
Willow Warbler								3				
Whinchat				2					1			
Red Kite***					1							
Lesser Black-headed Gull												150
Woodcock*												
Kestrel**					1	1	1			1		
Jack Snipe			1							1		
Stonechat		2							6	4		
Whitethroat				4		7						
Blackcap			20	22								
Swallow										1		
Redwing												10

Notes:

The species are listed as they first occur noted on or over The Plain in the 2018 record. 2019 additions are shown in the shaded section at the end. Thus a seasonal trend can be seen in the chart. Other species frequently seen on The Plain most notably include Carrion Crow (*Corvus corone*) and Common Wood Pigeon (*Columba palumbus*) which are typically present in large numbers when the sward is relatively short in autumn, winter and spring. Though these are not reported by the amateur enthusiasts they are added by the Report collator though without any reference to particular locations.

*In 2019 there were only 2 reports of Woodcock (*Scolopax rusticola*) neither one was for The Plain. This could reflect disturbance and the low numbers overall or may be attributable to the lack of any extensive period of winter cold.

**Kestrels (*Falco tinnunculus*) are frequently seen hovering over The Plain and the nearby Hogweed Patch. They are considered 'breeding residents' but the only records specific to these locations are from chance observations during and shortly after the BioBlitz and during a small-mammal trapping session in October.

*** The Red Kite became extinct in England in 1871 as a result of persecution and egg collection. In a joint initiative between RSPB and the Nature Conservancy Council (now Scottish Natural Heritage and Natural England) Red Kites from Sweden and Spain were reintroduced between 1989 and 1994. Breeding success in 1992 prompted a subsequent series of countryside introductions from Spain and Germany with the release site most local to Wimbledon being in the Chilterns. By 2015 Red Kites were in Surrey with records of 5 being helped by the Wildlife Aid centre in Leatherhead, one being treated for a broken leg (RSPB, undated; Harding and Harper, 2015). They have been recorded on Wimbledon Common since at least 2002.

As explained in the 2018 Monitoring Report (Taylor (Ed.), 2018) the focus of the ‘standard’ bird walks is very different. The aim is to record the commoner bird species of Wimbledon Common and Putney Heath and to identify variation in their numbers from year to year such that any long-term trends can be spotted. The methodology was outlined in the 2018 report and is discussed in detail in Dawson’s account of the initial phase of monitoring from 1995-2009 (Dawson, 2009). Efforts continue to retrieve and analyse data recorded between 2009-17. The system was re-vamped in 2018 to bring in some new recorders following house-moves and illness among the original team and in 2019 another two new recorders joined the scheme and took over route D from LE-H who in 2018 had recorded both A and D. Importantly, all the recorders in the scheme continue to use the same field recording strategy as originally devised with habitat sub-units identified for each transect. A full analysis of trends will be made when all historical data and a full description of habitat units are available to LE-H who has undertaken to collate and analyse this potentially very valuable record. An annual meeting of the bird walk recorders and the originator of the methodology (Dave Dawson (DD)) was established in February 2018 to assist in the process of data sharing and analysis and to revisit the bird list to ensure appropriate data are being captured. The standard bird walk routes are shown in Figure 10. Table 7 gives a snapshot of the results from 2019; further details of the data for each transect and an overview data set are shown in Appendices 4a-e. In 2019 it seems the walk B recorder continued to use the original bird list (1994-2005) whereas others used that list but as now amended to include some additional key species pertinent to their routes. The data for transects A, C and D are shown with the subsections indicated; for transect B, data highlight each monthly record; this walk was not recorded in subsections in 2019.



Figure 10 The Four Standard Bird Walks at Wimbledon Common (after Dawson 2009)

The Plain is highlighted in green

Table 7 Bird Standard Walk Data - The Most Frequently Observed Species and Some Target Species of Special Conservation Interest for WPCC

Walk Route	Habitat type	Transect length Km	Months recorded	Recorder	Total species / total records	10 Most frequently recorded species in descending order	Species of conservation concern on The Plain			
							Skylark	Meadow Pipit	Reed Bunting	Willow Warbler
A	Mainly secondary woodland	4.5	All except May & Nov 10 total	LE-H	49 2412	Blue Tit, Great Tit, Robin, Carrion Crow Long-tailed Tit Woodpigeon Wren, Ring-necked Parakeet, Blackbird, Mallard,	0	4	0	0
B	Mainly wooded; small area of REMPF Queensmere	4.35	Feb, Mar, Apr, May, Aug, Sept Oct Dec 8 total	AP	43 1233	Blue Tit, Mallard, Tufted Duck, Robin Great Tit, Jackdaw Carrion Crow Mandarin Duck, Woodpigeon Blackbird	0	x	x	0
C	Mainly secondary woodland	4.45	12 total	GG	38 2959	Blue Tit, Jackdaw, Great Tit, Robin, Carrion Crow Blackbird, Long-tailed Tit, Wren Ring-necked Parakeet, Woodpigeon	0	0	0	0
D	The Plain and woodland to south and heath to the north and south	3.2	11 total NR in Jan	AB & KB	43 2233	Blue Tit, Carrion Crow Great Tit, Black-headed Gull Woodpigeon Robin, Blackbird, Wren Ring-necked Parakeet, Long-tailed Tit	0	0	3	0

Notes

Walk Recorders: LE-H Les Evans Hill, GC Graham Guthrie, AP Adrian Podmore, AB & KB Alastair and Katharine Brown
X denotes not in the standard transect survey list.

Blue Tits (*Cyanistes caeruleus*) (Figure 11) are clearly ubiquitous and abundant; Great Tit (*Parus major*), Robin (*Erithacus rubecula*), Wren (*Troglodytes troglodytes*), Long-tailed Tit (*Aegithalos caudatus*), Blackbird (*Turdus merula*) and Carrion Crow are characteristic throughout. As may be expected water birds appear prominently in the record for Transect B which passes near Queensmere. Coot (*Fulica atra*) misses the top ten count by just one record; Moorhen (*Galinula chloropus*) by 3. Transect D includes parts of The Plain but only Reed Bunting of the species of

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particular concern in that area was recorded. Meadow Pipit was seen along Transect A which comes close to the southern end of The Plain.

Skylark, Reed Bunting, Meadow Pipit and Willow Warbler (*Phylloscopus trochilus*) are all species considered by Dave Wills (DW) as being particularly sensitive to the mowing regime on The Plain and, as such, their fate needs monitoring. Common Snipe (*Gallinago gallinago*), Jack Snipe (*Lymnocyptes minimus*), Woodcock and Stonechat along with Skylark and Meadow Pipit use The Plain for winter foraging (DW in a personal communication to Dr Stephen Frank regarding the mowing regime under the former Higher Level Stewardship scheme) but none of these species were included in the original record sheets. Skylark, Reed Bunting, Meadow Pipit and Willow Warbler have now been added but there may be a case for also including Common Snipe, Jack Snipe and Woodcock.

In summary, as noted last year, the current bird records give valuable information on the more interesting birds resident, breeding on and visiting the Commons (the Annual Bird Report) and the trends in commoner species (the 'standard walk' records). They do not though reveal in any systematic detail the impact of habitat changes or changes in management regime. A key priority for the bird walk team is to identify and share the habitat features of the subsections on their walks and indeed to review the value of these subunits as currently reported. It would also be particularly useful to reinstate the summer monitoring of birds on The Plain and to develop some more targeted records for key habitats such as the larger heathland blocks; areas with coppicing; the woodland areas with extensive holly removal; and indeed those woodland areas where holly remains a major understory feature. It seems areas with dense holly are very important for Firecrests, for example (Wilczur, personal communication). Some targeted records were made for the newly open (2019) riverside corridor by Beverley Brook on Wimbledon Common and these are reported later when discussing the various changes noted in that area .



Figure 11 Blue Tit - the Most Frequently Observed Bird Species on the Standard Walks

Butterflies

Nationally, summer 2019 was the best season for butterflies in 22 years (Barkham, 2020). Despite concerns that the dry conditions prevailing throughout summer 2018 might have led to a crash in some butterfly populations, particularly those that rely on grasslands, it seemed the warmth and periodical rainfall of summer 2019 proved exceptionally beneficial. On the Commons too it was good year for butterflies with transect counts the second highest recorded (Table 8) in the current (post 2014) records.

The same two transects were monitored in 2019 as in 2018, 2017 and 2016 and established mid-season in 2015. However, in 2019 the re-established long-term transect that crosses The Plain was mainly walked by Andy Davis (AD) and the new 'woodland' transect was recorded by Peter Fischer (PF) for most of the season. Simon Riley (SR) gave initial advice and training as well as undertaking some additional transect recording and verification, supplying additional observations and commentary, and collating all the butterfly data. Overall, 28 species were recorded on the Commons between early April and mid-September with 25 seen on the long-established transect and 19 on the woodland transect (Appendix 5a, 5b). The extra species seen on the long-established transect were; the Small/Essex Skippers (*Thymelicus sylvetris*), Green-veined White (*Pieris napi*), Green Hairstreak (*Callophrys rubi*), Common Blue (*Polyommatus icarus*), Marbled White (*Melanargia galathea*) and Small Heath (*Coenonympha pamphilus*). Additions spotted away from the transects were Purple Emperor (*Apatura iris*) in a staff garden on Putney Heath, White-letter Hairstreak (*Satyrrium w-album*) which is associated with Elm (*Ulmus minor*), and Brown Argus (*Aricia agestris*) which had a particularly good year. This species was seen at several widely dispersed locations across the Commons including 7 Post pond and on acid grassland close to Wimbledon Village. Brown Argus has recently been undergoing an expansion in its range in the UK following a decline in the late 1990s (Butterfly Conservation). Most typically it is found in southern chalk and limestone areas where Common Rock-rose (*Helianthemum nummularium*) is its almost exclusive larval plant. It can, however, also be found in a variety of other habitats where it uses annual food plants mainly Dove's-foot Crane's-bill (*Geranium molle*) and Stork's-bill (*Erodium cicutarium*). There have also been recent reports of egg-laying on Meadow Crane's-bill (*Geranium pratense*) and Cut-leaved Crane's-bill (*G. dissectum*) both of which are patchily widespread on the Commons.

As is typical, Meadow Brown (*Maniola jurtina*) dominated the transects counts though on the woodland transect Small White (*Pieris rapae*) was, by a small head, the most frequently noted species. Gatekeeper (*Pyronia tithonis*) was also particularly abundant on both transects. Green Hairstreaks were more abundant than in 2018 and may have increased their range on the Commons in line with the overall picture in southwest London. The Commons would seem to offer many areas of suitable habitat for this species. Slightly surprising, given the widespread abundance, especially on The Plain, of its most favoured food plant Bird's-foot trefoil (*Lotus corniculatus*), was the single record for Common Blue. There were similarly surprisingly few records for Painted Lady (*Vanessa cardui*). This long-distance migratory species comes to Britain via mainland Europe originating from the desert margins of North Africa, the Middle East and Central Asia. The scale of migration varies from year to year possibly reflecting population size and food availability in the source areas. In 2019, Painted Lady (Figure 12) was present in gardens and grassy open-spaces throughout Britain in abundances not seen since 2009 and 1996 the previous bumper years for this species in Britain. Thistles (*Cirsium* spp. and *Carduus* spp.) are the preferred larval foodplants in Britain but a variety of

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cultivated plants and other widespread and common plants, such as Common Nettle and Mallows (*Malva* spp.), may also be used.

Further information is available in the Annual Report, 2019, of *Birds, Butterflies and Dragonflies on Wimbledon and Putney Commons* (Podmore (Ed.), 2019).

Table 8 Comparison of the Most Abundant Butterfly Species Recorded 2015-2019

8a Re-established Long-term Transect (After Gay Carr and Now Including Plateau Sites Including The Plain)

2015		2016		2017		2018		2019	
Species in order of abundance	No. seen	Species in order of abundance	Number seen	Species in order of abundance	No. seen	Species in order of abundance	Number seen	Species in order of abundance	No. seen
Meadow Brown	184	Meadow Brown	131	Meadow Brown	405	Meadow Brown	396	Meadow Brown	404
Gatekeeper	96	Gatekeeper	77	Gatekeeper	203	Gatekeeper	142	Gatekeeper	195
Small / Essex Skipper	23	Small White	27	Speckled Wood	41	Small Heath	87	Small Heath	106
Common Blue	19	Speckled Wood	22	Small/Essex Skipper	36	Small White	54	Ringlet	45
Large Skipper	15	Small Skipper	14	Ringlet	32	Large Skipper	52	Small/Essex Skipper	40
Speckled Wood	14	Ringlet	13	Large Skipper Small White	24 24	Ringlet	41	Large Skipper	23
Small Heath	13	Comma	10	Comma	19	Purple Hairstreak	40	Small White	19
Purple Hairstreak Ringlet	6 6	Small Heath	9	Common Blue	18	Speckled Wood Common Blue	28 27	Peacock	13
Total records	407	Total all records	343	Total Records	901	Total Records	978	Total Records	919

8b New Transect Wimbledon Common SW and Fishponds Wood

2015		2016		2017		2018		2019	
Species in order of abundance	Number Seen	Species in order of abundance	Number seen	Species in order of abundance	Number seen	Species in order of abundance	Number seen	Species in order of abundance	Number seen
Peacock	40	Meadow Brown	19	Meadow Brown	136	Meadow Brown	105	Small White	105
Meadow Brown	39	Small White	19	Small white	30	Purple Hairstreak	61	Meadow Brown	99
Gatekeeper Brimstone	34 34	Comma	16	Peacock	20	Green-veined White	60	Gatekeeper	50
Holly Blue	23	Gatekeeper	14	Comma	14	Comma	40	Large White Comma	27 27
Green-veined White	20	Peacock	9	Red Admiral	11	Gatekeeper	35	Brimstone	26
Comma	13	Speckled Wood Small Copper	7 7	Brimstone	10	Brimstone	34	Peacock	21

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Orange Tip	10	Small Tortoiseshell	6	Speckled Wood Orange Tip	6	Holly Blue Small White	33	Red Admiral	15
Small White	7	Brimstone	5	Holly Blue	5	Speckled Wood	27	Orange Tip	11
Total records	255	Total records	121	Total records	254	Total records	519	Total records	444



Figure 12 Painted Lady

Dragonflies and Damselflies

Recording activity for dragonflies and damselflies was greatly reduced by comparison with recent years. Visits to the pond sites that have been routinely recorded in recent years were much less frequent and more adhoc. The main recorder focusing on dragonflies, and damselflies, Bill Budd (BB), was unwell throughout much of the season. Furthermore, some key hotspots (Taylor (Ed.), 2018), such as Bluegate pond had dried out completely or had very low water, as at Hookhamslade pond. As such no reliable abundance data for site and habitat comparisons are available.

Nevertheless, some very useful observations were made. In particular, in May, at least 5 Beautiful Demoiselles (*Calypteryx virgo*) were seen (BB) at the newly 'restored' section of Beverley Brook. These were the first records for the species since 1994 when a presumed vagrant was recorded (BB personal communication based on the Kettle historical records - see Taylor (Ed.), 2017. These observations suggest this species may be spreading into the area which would be consistent with a similar range expansion noted on the nearby River Wandle. Banded Demoiselle (*Calopteryx splendens*), Blue-tailed Damselfly (*Ischnura elegans*) and Large Red Damselfly (*Pyrrhosoma nymphula*) were also seen during the same visit in late May. Banded Demoiselle was again noted (C&EO) in grassland near the Putney Lower Common stretch of Beverley Book. At the spring-fed ponds e.g. Queensmere, casual observations showed that damselflies were abundant with larger Hawker dragonflies also regularly seen, including Emperor Dragonfly (*Anax imperator*) and Brown Hawker (*Aeshna grandis*) both present in good numbers (SR in Podmore (Ed.), 2019).

Additional records from the BioBlitz walks were Broad Bodied Chaser (*Libellula depressa*), Black-tailed Skimmer (*Orthetrum cancellatum*), a Darter assumed to be Common Darter (*Sympetrum striolatum*), Azure Damselfly (*Coenagrion puella*), Emerald Damselfly (*Lestes sponsa*), and Red-eyed Damselfly (*Erythromma najas*). Some further commentary from BB and SR is available in Podmore (Ed.), 2019.



Figure 13 Beautiful Demoiselle

Moths

2019 was slightly down on numbers with 499 moth species recorded compared with 533 species in 2018. However, very little recording took place during May and late autumn which can be quite a productive time of year so it would be reasonable to infer that 2019 was another good year for moths. In 2019 the location of the regular moth trap changed due to a house move. Recording began, as previously, at 1 Thatched Cottage until mid-June and then continued from the main recorder's new staff residence on Putney Heath about 1 mile distant though in slightly different habitat surroundings with the addition of heathland nearby. Some additional records were made during the BioBlitz activities.

Primary migrant moths recorded included: Diamond-back Moth (*Plutella xylostella*); European Corn-borer (*Ostrinia nubilalis*); Rusty-dot Pearl (*Udea ferrugalis*); Rush Veneer (*Nomophila noctuella*); Vestal (*Rhodometra sacraria*) and Silver Y (*Autographa gamma*).

The resident and suspected immigrant Red Sword-grass (*Xylena vetusta*) (Figure 14) turned up on 5th March. This species was last listed as recorded in the Commons in *The Fauna of the London District: Lepidoptera* (Bucknell and Prout, 1899-1902) and in the Vice-county (VCH) List shortly after.

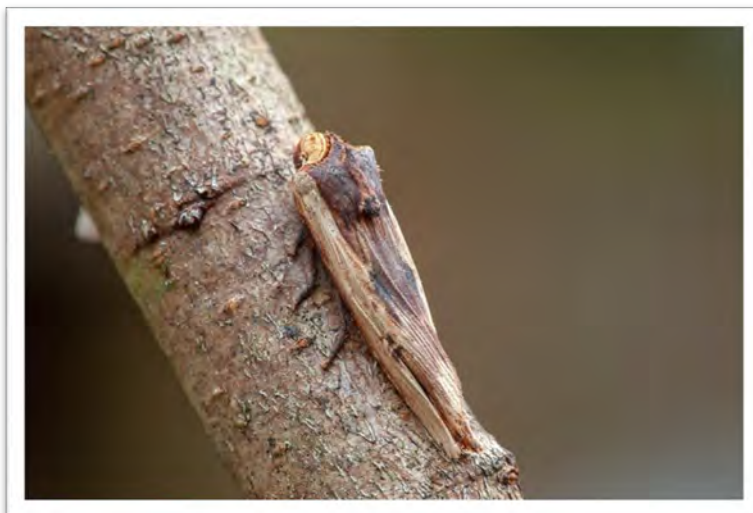


Figure 14 Red Sword-grass (*Xylena vetusta*)

2019 saw an influx of the rare immigrant Dark Crimson Underwing (*Catocala sponsa*) into the British Isles and rather pleasingly, 12 specimens were recorded on Putney Heath between 22nd August and 4th September. However, this species feeds on Oak (mainly *Quercus robur*) and there is reasonable concern it may not be able to establish itself in the Commons due to the spraying of the bacterium *Bacillus thurengiensis* var. *kurstaki* which is used to control the Oak Processionary Moth. This bacterium attacks the larval stages of Lepidoptera and is indiscriminate. Therefore, any Lepidoptera species that is in its larval stage in the locality and duration of the spraying period is susceptible to localised losses. Dark Crimson Underwing is a UK BAP priority Species.



Figure 15 Dark Crimson Underwing (*Catocala sponsa*)

Another very pleasing new record for the Commons in 2019 was Clifden Nonpareil (*Catocala fraxini*). For some time, Les Evans-Hill (LE-H)⁴, lead moth recorder for WPC, has been predicting its arrival pointing out that there are more than enough stands of Aspen (*Populus tremula*) on the Commons to support a healthy population. This iconic species was recorded at the Putney Heath, location at 'sugar', on 27th August with another 6 individuals subsequently recorded at MV light and 'sugar' up to 24th September. It is suspected his species is now resident on the Commons wherever the food plant exists.



Figure 16 Clifden Nonpareil (*Catocala fraxini*)

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Gypsy Moth (*Lymantria dispar*) has also had seemingly a reasonable year with a total of 36 individuals between 30th July and 6th September. Also noteworthy were 3 records of Hoary Footman (*Eilema caniola*) on 30th July; 31st July and 4th August and Double Line (*Mythimna turca*) with 11 individuals between 7th and 9th July. The adventive *Musotima nitidalis* has now turned up earlier in the year with singletons recorded on 19th March, 21st April and 6th May.

During the Bat and Moth evening of 21st June, part of the BioBlitz weekend, a total of 17 species were recorded at lamp and sheet and overnight at the Putney Heath garden a total of 74 species were recorded, making an overall total of 83 species including Blotched Emerald (*Comibaena bajularia*), which is a common moth on the Commons (Figure 17a). Figure 17b shows a small selection of moths from the overnight moth trap including the imposing Poplar Hawk-moth (*Laothoe populi*) in the centre of the image.

Figure 17 Some BioBlitz Moths

a. Blotched Emerald



b. Poplar Hawk-moth



⁴Forum members are delighted to announce that after 2 ½ years of hard work, Butterfly Conservation's *Atlas of Britain & Ireland's Larger Moths* has been published. We are privileged to have joint lead author, Les Evans-Hill, as our resident moth recorder. LE-H was key to the production of the species distribution maps and flight charts. For WPCC, LE-H also undertakes bird recording and runs bird-song workshops.

Other Insects

As in 2017 and 2018, no other systematic insect recording was undertaken in 2019. Some spot records were noted during plant recording but most information comes from BioBlitz activities. These data are collated with the BioBlitz account (details in Appendix 12). In view of the low public feedback on Stag Beetles in 2018, a more concerted public appeal was made in 2019. In May notices were posted on all the Commons notice boards as well as making an appeal through the Commons newsletter and on the website. Information on identifying Stag Beetles was included. There was a much better response than in 2018 and by late summer the C&EO had received 39 reports of Stag Beetles from nearby gardens in postcodes SW15, SW19, SW20 and KT2. There were three reports from the Commons, a male seen near 1 Thatched Cottage on 1st June; a male and female seen behind the Rangers Office on 25th July and 1, sex unspecified, was noted during the general nature walk of the BioBlitz.

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Previous records from this recording series are: 6 in 2018; 19 in 2017; 20 in 2016; 34 in 2015; and 73 in 2014. It would indeed seem that increasing ‘reporting fatigue’ (C&EO personal communication) may explain the declining counts from 2014 to the nadir of 2018. As noted in the 2018 report, Wimbledon and Putney Commons and the surrounding area of SW London more generally are thought to be a ‘hot spot’ for Stag Beetles and their presence and abundance is a key reason for the Commons designation as a Special Area of Conservation (SAC). There is, therefore, a responsibility to monitor their presence and to maintain suitable habitats. In 2019 new loggeries and potential Stag Beetle habitats were established near Beverley Brook in a small clearing along the bankside woodland pathway.



Figure 18. Newly Installed Loggeries - Potential Stag Beetle Habitats near Beverley Brook on Wimbledon Common

Located in partial shade the oak logs were buried in the soil to a depth of approximately 50cm

Other Fauna

As in 2018, work pressures meant that the planned routine visits to the reptile refugia which are undertaken by the C&EO and as reported in Annual Monitoring Reviews in 2015-17 (Taylor (Ed.), 2015; 2016; 2017) were not undertaken in 2019. Numerous spot sightings of Common Lizards (*Lacerta Zootoca vivipara*) (Table 9) were, however, reported by staff, volunteers and visitors to the Commons in May, June, July, August and October (Table 9). This information was collated by the C&EO (Haldane, 2019a). Common Lizards are clearly widespread across the Wimbledon Common and Putney Heath.

Table 9 Summary of Common Lizard Sightings Reported in 2019

Date	Location	Number	Recorder
4 th May	Heathland near the junction of Inner Park Ride and Roehampton Ride	2	Volunteer ‘Scrub Bashers’
16 th June	Junction of Inner Park Ride and Ladies mile	3	Staff
22 nd June	Heathland near Kingsmere, basking on old rotting tree stumps	4	Volunteer ‘Scrub Bashers’
23 rd June	Heathland close to Kingsmere	1	visitor
23 rd June	BioBlitz General Nature walk; 1 on uncut area of The Plain 2 close to Centre path	3	W&C Forum, volunteers and visitors
9 th July	Open grassland on the Nature trail	1	C&EO
8 th August	Noted during grassland work near southern pound on Wimbledon Common	10	Staff
8 th & 9 th August	Noted during work on meadow near Telegraph Road on Putney Heath	7	Staff
23 rd August	Junction of Ladies Mile and Inner Park Ride	1 dead	Staff

A Corn Snake was found on the Commons near the Causeway and Memorial Ride and was duly dispatched to the charity, Reptile Events, for care and re-homing.

The C&EO made a Frog spawn (*Rana temporaria*) survey between 6th and 9th March 2019 visiting all 9 Common ponds, and two heathland pools. Farm bog was not visited at this time. No Frog spawn was seen at Rushmere, Kingsmere, Queensmere nor Scio pond. This is typical for Queensmere and Kingsmere where frog spawn was also not found in 2017 and 2018 but it is unusual for Scio pond and Rushmere, where two searches were undertaken in 2019. The prevailing early spring dry conditions may have been a factor. Good cover and plentiful emergent vegetation, such as Soft Rush is important for successful spawning (Figure 19). As was noted during the survey, the heathland pools were reduced in size and depth by comparison with some previous years. However, Frog spawn was found in Heathland depressions on the 'Wet Heath' area NE of the Windmill complex and near the junction of Inner Park Ride and Ladies Mile. In both cases predatory Grey Herons (*Ardea cinerea*) were in attendance. Later in the year adult Frogs were reported near the southern pound; in heathland south of Kingsmere; and in a drainage ditch near the northern section of Ladies Mile. However, Frogs are widespread on the Commons wherever there is damp undergrowth and many sightings pass unreported. Toad spawn (*Bufo bufo*) was noted by a regular visitor to Ravine pond. No specific search was conducted at the usual sites for Toad spawn, Scio pond and Queensmere. Adult Toad sightings were reported from the gardens of staff residences; in watering pipes inserted for occasional vulnerable trees; and during regular grassland maintenance. There were no systematic records made for Toads or Newts (e.g. *Triturus vulgaris*) in 2019 and in the case of Newts there were no adhoc reports.



Figure 19 Frog Spawn at Hookhamslade Pond – 7th March 2019

In 2019, 25 new small mammal traps were purchased by WPCC. These would enable more frequent small mammal trapping and in a greater variety of habitats than is possible when relying solely of traps loaned from Surrey Wildlife Trust (SWT) or similar organisations as had hitherto been the practice. A training programme for staff and other locally based regular volunteers was organised in late winter and early spring so that staff living on-site and other volunteers living nearby would have the requisite skills to undertake this work without needing additional expert supervision. In April, with guidance from the course organisers, the trainees undertook their first 'capture-and release'

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exercise. One Wood Mouse (*Apodemus sylvaticus*) was found in the secondary woodland area south of Hookhamslade pond. For the BioBlitz additional traps were borrowed from SWT and working with the public 40 traps were set in pairs; 10 pairs in woodland and bracken areas around Hookhamslade pond; 5 pairs in Heathland north of this area and another 5 pairs in the Hogweed Patch where, during botanical survey, a Kestrel was often noticed hunting. The Kestrel was indeed wise; 4 Wood Mice and 1 Field Vole (*Microtus agrestis*) were found at this site, the largest haul recorded to date from a single site during a small mammal survey at Wimbledon. At Hookhamslade a Wood Mouse was captured and released and among the birch scrub at the Heath Patch another Field Vole was found. All these animals appeared to be in excellent condition (Appendix 7). Personal and workload constraints meant that the anticipated 'trapping' across a wider range of sites by local volunteers and staff did not take place. To close the season, in October, the C&EO working with RT used the 25 WPCC traps, in pairs and one trio, to survey the Nature Trail area. One Wood Mouse was found near a log pile under which it scampered on release.



Figure 20 Inspecting a Wood Mouse at Found at the Hogweed Patch at BioBlitz Time

In autumn 2019, a new volunteer, James Copeland (JC), contacted the C&EO regarding the remote camera surveys he had been making of the Badgers (*Meles meles*) of Wimbledon Common and Putney Heath. A wealth of new information has become available from his work. There are 15 known Badger setts which include a mix of main setts, annex setts, subsidiary and outlying setts. Of these 7 or 8 are very active and home to around 48 Badgers. Photography showed that several cubs had been born on the Commons with at least two surviving to adulthood. Foxes (*Vulpes vulpes*), Rabbits (*Oryctolagus cuniculus*) and Squirrels (*Sciurus carolinensis*) also shelter in the tunnels.

Hedgehog surveys by ZSL continued at Putney Lower Common and new torchlight surveys with volunteers were undertaken in September and early October. Results are discussed in the Putney Lower Common section of this report. A Bat walk was held in June as part of the BioBlitz weekend. Many spot observations were made during field recording for other organism groups; during staff and volunteer working activities; and by visiting school groups and the public. Additional species were also noted by the C&EO during his regular monthly walks at Putney Lower Common where Hedgehogs were again confirmed. A summary of mammals reported on the Commons during 2019 is shown in Table 10.

Table 10 Mammals Sighted or Evident from Other Signs -Wimbledon and Putney Commons 2019

Species - Common Name	Species- Scientific Name	Location	Comment
Common Pipistrelle	<i>Pipistrellis pipistrellis</i>	Queensmere, WC	Bat walk in June at BioBlitz
Soprano Pipistrelle	<i>Pipistrelli pygmaeus</i>	Queensmere, WC	Bat walk in June at BioBlitz
Nathusius Pipistrelle	<i>Pipistrellus nathusii</i>	Queensmere, WC	Not Recorded
Daubenton's Bat	<i>Myotis daubentii</i>	Queensmere, WC	Bat walk in June at BioBlitz
Bank Vole	<i>Myodes glareolus</i>	Hookhamslade -woodland to SW and Bracken (near eastern bank) WC	Not recorded in 2019
Field Vole	<i>Microtus agrestis</i>	Birch scrub on Heathland Patch Hogweed Patch	June BioBlitz (1) June , BioBlitz (1)
Wood Mouse	<i>Apodemus sylvaticus</i>	Woodland SW of Hookhamslade pond Hogweed Patch Nature trail	April, staff survey (1) June BioBlitz (1) June BioBlitz (4) October survey (1)
Rabbit	<i>Oryctolagus cuniculus</i>	The Plain, WC	Field survey on The Plain Regular sightings
Weasel	<i>Mustela rivalus</i>	Inner Windmill Road near White Cottage	One report in July
European Hedgehog	<i>Erinaceus europaeus</i>	Near Van Buren's Cottage PLC Open grass area PLC	September & October C&EO ZSL survey September & early October Volunteer Torchlight survey
Fox	<i>Vulpes vulpes</i>	PLC & WC	ZSL survey at PLC Various reports from WC Noted in Badger surveys
Grey Squirrel	<i>Sciurus carolinensis</i>	PLC & WC	Recorded throughout the year
Brown Rat	<i>Rattus norvegicus</i>	PLC	Seen throughout the year
Muntjac Deer	<i>Muntjac reevesi</i>	-	Not recorded
Badger	<i>Meles meles</i>	WC	5 active setts locations on WC

Notes: WC= Wimbledon Common; PLC= Putney Lower Common

Occasional reports of 'Common Vole' are most probably Field Vole. Common Vole (*Microtus arvalis*) is only found on Orkney in the British Isles (*M. arvalis orcadensis*).

Fungi

There were no fungal forays in autumn 2019. This was disappointing especially since rain in late summer and early autumn combined with warmth meant that fungi fruiting bodies were diverse and abundant. It is planned to reinstate a fungal foray in 2020. During plant surveying on The Plain in mid-June, several clusters of Inkcaps, possibly Common Inkcap (*Coprinopsis atramentaria*), were noted in their deliquescent phase while searching for Southern Marsh Orchid.



**Figure 21 Ink Caps on The Plain
- June 2019**

Putney Lower Common

Although no systematic recording is routinely undertaken at the small separate location of Putney Lower Common, since 2017 regular collation of periodic observations means a fuller picture of the site's flora and fauna and habitat preferences is gradually being garnered. In 2019 the C&EO again undertook a monthly 1.5 hour walk-about recording wildlife. His data were supplemented by occasional reports from visitors and staff working on-site and give a valuable snapshot record of the most common species present and variation though the year (Appendix 8). 26 bird species, 10 butterfly species; 3 species of dragonfly and damselfly and 30 plant species are included in these records alongside assorted bugs; mammals; Hedgehog, Brown Rat (*Rattus norvegicus*) and Grey Squirrel; and the White-lipped Banded Snail (*Cepaea hortensis*). Japanese Knotweed (*Fallopia japonica*) was noted at various locations. This very vigorous and invasive non-native species is a concern; its control in the wild is a legal obligation under the Wildlife and Countryside Act 1981. Wherever it occurs, it is spot treated in late summer with the systematic herbicide Glyphosate by the Commons Maintenance Team (Haldane, 2019b). Himalayan Balsam (*Impatiens grandifolia*) another invasive alien species was found bordering the Putney section of Beverley Brook. While control is possible and must be undertaken to avoid it out-competing other species and leading to bank instability when the Balsam dies back in winter, elimination is not feasible. This plant readily re-establishes, its seed transported from locations upstream of the Commons. No tree species, whether mature, saplings or seedlings were included in the 2019 records.

As in 2018, the only bird of prey species noted was Kestrel, whereas over the larger contiguous area of Wimbledon Common and Putney Heath, Red Kite, Hobby, Buzzard, Sparrowhawk, Peregrine Falcon, Tawny Owl and Short-eared Owl have all been recorded. Kingfisher (*Alcedo atthis*) was recorded along the Beverley Brook in July. Purple Hairstreak butterfly which was noted on an oak tree during the W&C Forum visit in early July 2018 and during the C&EO's late July 2018 visit was not recorded in 2019. This may reflect its main habitat which is high in oak canopy making the species difficult to spot. 2018 was unusual in that extreme drought led to more sightings as the butterfly sought water at lower levels. Summer 2019 though warm was less dry.

Easily the most exciting wildlife feature at Putney Lower Common is the presence of Hedgehogs. In 2019 the night camera survey by the Zoological Society for London/Institute of Zoology (ZSL) was continued (Figure 22). This is part of a larger study investigating the presence, distribution and habitat preferences of Hedgehogs in Greater London (Peoples Trust for Endangered Species (PTES),

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2020; Trinder, 2020). The largest population in London is at Hampstead Heath in the north but a significant 'hot spot' also occurs in SW London. 62 Hedgehog sightings were recorded in a SW cluster of six sites; the London Wetland Centre, Barnes Common, Putney Lower Common, Roehampton Golf Course, the Bank of England Sports Centre and Palewell Common. The survey ran from July to September and aimed to provide data for presence and absence; distribution in relation to habitat type; and the relative abundance of Hedgehogs in and around the Barnes Common area. Aside from Hedgehogs the main other species noted were Badgers and Foxes and of all these greenspaces surveyed only Barnes Common and Putney Lower Common had all three species. The London Wetland Centre was the only other site with Hedgehogs and their activity was higher and more widespread at this site. There may be several reasons for this. Badgers, which are known to sometimes predate on Hedgehogs, were not found at the Wetland Centre but dogs too are not permitted there and although it has not been confirmed, it is possible that a high level of dog activity may disturb or even lead to attacks on Hedgehogs. The London Wetland Centre also provides a large mix of habitats which may be very beneficial for fulfilling Hedgehogs' habitat requirements which may be lacking in the same extent at other nearby greenspaces.



Figure 22 Remote Camera Used in Hedgehog Survey

The survey findings also suggested the Hedgehog populations on Putney Lower Common and at Barnes may be more isolated than previously thought as no Hedgehogs were found on other greenspaces in the immediate vicinity. It is not clear whether the Hedgehogs at the London Wetland Centre are able to disperse to the Commons and mix with the Hedgehogs there. While there have been reports of Hedgehogs from gardens and allotments nearby, again it is not known whether they can move to the Commons and thrive though, if they do, this could explain how the Commons' populations have been able to persist in the presence of Badgers. Understanding migratory pathways and unravelling these connections is the planned focus for the 2020 investigations by ZSL.

Torchlight surveys set up at Putney Lower Common in autumn 2019 complement this work. A group of local enthusiasts led by Jackie Underwood Hall (JU-H) were trained by Hedgehog expert Dr Nigel Reeve and spent two evenings in September and early October carrying out torchlight surveys for Hedgehogs across Putney Lower Common. Despite wet conditions, 3 hedgehogs were found during each survey, one a recapture. All were in good condition and all were found in the open grass areas.

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Further surveys are planned for 2020 starting in May. It was thought possible this late season survey underestimated the population numbers for Putney Lower Common.

Beverley Brook

In January and February 2019 extensive works were undertaken by the South East Rivers Trust (SERT) on the Wimbledon Common Section of Beverley Brook (SERT, 2018). This was complemented by tree thinning work in the adjacent woodlands which was undertaken by the Commons' Maintenance team within the framework of the Woodland Management Plan (Levy & Losse 2018). A pre-survey of the area near the Brook was undertaken to ensure key areas for Bats and Badgers were safeguarded. Much of the felled timber was used in the river restoration scheme. The aim was to bring light to the river and adjacent riverine corridor and to re-establish meander patterns with berms and eyots in-stream. These had been lost when the river channel was restricted by toe-boarding in the early 20th century (Johnson, 1937). At that time this was the standard approach to flood control and the Brook being a rainwater fed river flowing through an increasingly urbanised catchment was vulnerable to flash flooding incidents. Overtime understanding of optimum flood control strategies and concerns for wildlife have changed. SERT secured grants from the Environment Agency and Viridor Credits Environmental Company to fund the work which was approved by Natural England. In-stream changes included narrowing the channel to reduce overall discharge rates and generate variability in flow pattern, creating pools and riffles. Larger timbers were anchored as 'starter barriers' for natural debris dams and smaller brash was used to build up berms around these barriers. It was expected this would generate more in-stream biodiversity and by locally exposing the gravel bed improve fish spawning opportunities. Wherever possible toe-boarding was removed and banks re-graded. The Brook which had become largely hidden from the Commons could once more become an attractive visual feature and valuable ecological habitat on the Commons.

Throughout the work the C&EO maintained a photographic record and new public information boards were established (Figure 23). There was generally much public support since the potential for a restoration scheme had been introduced during the 2018 Winter Talk on London's Rivers and further details were presented at the December 2018 General Open meeting (Taylor, 2018). SERT conducted a fish survey immediately before the works commenced noting 9 species (Table 11) and subsequently instigated training in Riverfly monitoring for volunteers. A regular Riverfly monitoring programme has now been established. Results to date, available from the SERT website (undated) (and see Appendix 9), show the Brook is regularly achieving acceptable water quality with no recent pollution incidents noted. The Riverfly monitoring system is, however, geared specifically to monitoring changes in key pollution-sensitive freshwater biota. It is a practical scale in particular focused on water suitability for freshwater fish and does not include the more extensive details as, for example, seen in Biological Monitoring Working Party (BMWP) systems. As such it detects changes which may be triggered by pollution incidents, but it is not a complete record of in-stream macroinvertebrates. From an ecological perspective it would be helpful if during monitoring some fuller records could be kept. It would also be useful to note recent weather conditions when undertaking the monthly sampling activity.

All the W&C Forum regular wildlife monitoring people were encouraged to include targeted visits to the site and at BioBlitz time an evening stroll along the modified section was included in the programme. Litter picking along the Brook is a regular activity for volunteer groups e.g. Geocache

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and also SERT-led volunteers. It is important that adhoc activities do not lead to removal of beneficial debris such as timber.

Table 11 Fish Records for the Wimbledon Section of Beverley Brook

Common English Name	Scientific name	Recorder	Date		
Chub	<i>Squalius cepalus</i>	SERT	17.12.18	BioBlitz	
Dace	<i>Leuciscus leuciscus</i>	SERT	17.12.18		
Eel	<i>Anguilla anguilla</i>	SERT	17.12.18		
Goldfish	<i>Carassius auratus</i>	SERT	17.12.18		
Gudgeon	<i>Gobio gobio</i>	SERT	17.12.18		
Minnnow	<i>Phoxinus phoxinus</i>	SERT	17.12.18		
Roach	<i>Rutilus rutilus</i>	SERT	17.12.18	BioBlitz	
Stone Loach	<i>Barbatula barbatula</i>	SERT	17.12.18		
Tench	<i>Tinca tinca</i>	SERT	17.12.18		



Figure 23 Public Information Boards Beside the Beverly Brook on Wimbledon Common

Undoubtedly the Brook has changed. In-stream gravel exposure was quickly seen (Figure 24) and a regular Grey Heron visitor testified to fish availability (Figure 25). Little Egret (*Egretta garzetta*) and Kingfisher were also recorded. As already noted, Beautiful Demoiselle was recorded for the first time in 25 years. The immediate banksides were slow to recover but by summer bare earth had given way to a variety of ruderal plants including Common Fumitory (*Fumaria officinalis*), Bittersweet (*Solanum dulcamara*), Garlic Mustard (*Alliaria petiolata*), Creeping Buttercup, Ribwort Plantain (*Plantago lanceolata*), Greater Plantain (*P. major*) and Redshank. Some presumed garden escapes were evident such as Poppy (*Papaver sp.*). As at the Putney Lower Common stretch of the Brook, Himalayan Balsam was present, seen on the far bank (playing field side) in an area which had not been particularly disturbed by the works and, of rather more concern, was the presence of a small patch of Japanese Knotweed. Away from the immediate brookside and in the woodland margins, opening up revealed Sloe (*Prunus spinosa*) and Hawthorn (*Crataegus mongyna*) blossom and the presence of Male Fern (*Dryopteris felix-mas*) and Harts-tongue (*Asplenium (Phyllitis) scolopendrium*) as well as Bracken. The full list of records from spring and early summer 2019 is shown in Appendix 9.



Figure 24 A Modified Stretch of the Beverley Brook on Wimbledon Common Showing the Newly Exposed Gravel Bed



Figure 25 A Well Camouflaged Heron Waits in a Tree Beside Beverley Brook

Environmental Data

As in 2018, the only environmental data available for 2019 are the rainfall records from Raynes Park taken by PF, a W&C Forum member (Appendix 10). The new wildlife garden in which it is planned to base an on-site weather station for the Commons still awaits development. Progress has, however, been made with identifying a potentially suitable automatic weather station system.

The Raynes Park rainfall record clearly showed the how the dry conditions of 2018 persisted into summer 2019. Winter 2019 (January-March) was the third driest on record with 116 mm rainfall. (Table 12). Though this followed average autumn rainfall in 2018, the preceding summer of 2018 had been exceptionally dry and warm and it could be assumed ground water replenishment was not fully achieved during the over winter period 2018-19. Rainfall data for the overwinter period, October 2018-March 2019, and over winter plus early summer period, October 2018-June 2019, are

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strikingly similar to those for the equivalent 2017-18 periods (Table 13). It should also be noted that the driest over winter to early summer period on record occurred in 2016-17. It was, thus, hardly surprising that water levels in the Commons ponds were exceptionally low by early summer 2019 and Bluegate Gravel Pit pond was completely dry.

Table 12 Winter (January-March) and Integrated Summer Rainfall (April-September) at Raynes Park (SW20)

January - March (year)	Rainfall (mm)	Rank Driest to Wettest	Integrated summer period, April-September (year)	Rainfall (mm)	Rank Driest To Wettest
06	104	2	06	316	8
07	200	12	07	356	13
08	161	8	08	326	10
09	165	10	09	211	1
10	180	=11	10	236	2
11	137	7	11	273	5
12	77	1	12	455	14
13	133	6	13	263	4
14	271	14	14	330	12
15	128	5	15	309	6
16	180	=11	16	328	11
17	126	4	17	319	9
18	163	9	18	243	3
19	116	3	19	311	7

Table 13 2018 and 2019 Winter, Spring and Early Summer Rainfall Totals Compared with the Wettest and Driest Years Recorded at Raynes Park (SW20)

	Over winter rainfall October-March) (mm)		Over winter plus early summer rainfall (October - June) (mm)	
Wettest recorded	2013-14	523	2013-14	706
Driest recorded	2011-12	189	2016-17	366
	2017-18	311	2017-18	443
	2018-19	312	2018-19	447

By contrast, later in summer 2019 stormy periods returned, often linked with thunderstorm activity associated with extreme summer warmth. June 2019 had 93mm rainfall, well above the monthly average (54mm) and contrasting markedly with just 3mm in 2018 which is the driest June total in the Raynes Park series. Autumn 2019 (October-December) was the third wettest in the Raynes Park record and overall January-December 2019 had 686mm rainfall, the fourth highest total from the 14 years series.

Reflections and Recommendations

A combination of volunteer and staff efforts has once more achieved useful and wide-ranging records of the Commons wildlife and environmental conditions. This report pulls together all the known records for 2019 co-ordinated through the W&C Forum. It is accepted there may be others reported directly to organisations such as Greenspace Information for Greater London (GiGL) or national organisations such as the BTO or i-record. The present in-house series, 2014 to date, however gives an easily retrievable and comparable baseline for Commons management and change monitoring. It can be readily consulted for day-to-day management and used to support funding bids with outside agencies. It also contributes to the wider understanding of London's wildlife. It is the foundation from which the new Citizen Science scheme, Commons Wildlife Watch has been developed. The comparison with earlier records, where available, continues to build a picture of changes on the Commons though much more work on this aspect remains to be achieved. Volunteering to support conservation management has continued to grow and there has been some success with finding new recruits to join in the regular wildlife monitoring most notably for bird and butterfly recording. Commons staff and volunteers have taken a lead in training for small mammal trapping and in Riverfly monitoring.

Key points emerging from this year's systematic monitoring are highlighted below. Looking back at the 2018 report and its predecessors in 2017, 2016, 2015 and 2014 some common issues persist, and these too are indicated.

1. Almost all recording is dependent on volunteers and the pool of expert volunteers is small. It is also heavily biased towards retired and older people. 2019 has seen some new volunteer recruits to the regular wildlife monitors which is excellent. However, going forward plant recording in particular is vulnerable due to house moves and health issues of key personnel. The new link with Surrey Botanical Society needs to be nurtured.
2. Improving public engagement with wildlife monitoring and especially encouraging links with local schools and other target groups should be considered as the Commons Wildlife Watch scheme is rolled out. Supporting and monitoring this scheme in its launch year should be a priority for 2020. There may be a need for additional in-house capacity, or specialised volunteer assistance, to support the scheme and the quick dissemination and interpretation of data gathered by the public which is essential to maintain enthusiasm and support.
3. The monitoring focus on The Plain needs to continue since it directly supports the acid grassland/heathland SSSI designation and hence the Countryside Stewardship Scheme (CSS) funding. Bird records focused on this area are needed, similar to those previously recorded by DW in 2014-16. This remains a gap, with no dedicated records for The Plain since 2017. Monitoring should be extended to the remnant grassland areas newly under similar management since these have potential to qualify for future CSS funding as acid grasslands.
4. Links with the London Wildlife Trust regarding Farm Bog are close to formal completion through a renewed Memorandum of Understanding (MoU). New in-house maintenance work has improved the dam system for the Bog. Up-to-date floral recording building on the 1991 (Sutcliffe) survey needs to be prioritised. The Commons' mires have importance London-wide since such habitats are now locally rare. Farm Bog is one of the best surviving examples. Maintaining Stag Bog and Ravine Bog is also important as companion habitats and for the habitat diversity of the Commons overall.

5. Establishing some systematic recording at Putney Lower Common and consolidating further baseline ecological information for this area should be considered. The Commons Wildlife Watch scheme may help to bridge this gap but will still not give a comprehensive scientific baseline.
6. Monitoring the cleared section at Beverley Brook needs to continue as the in-stream works mature and in the view of planned planting of berms in 2020.
7. Understanding weather and historical weather patterns is important for future management of the Commons ponds and wetland areas and proposed wet woodland development and drainage 'improvements' linked with ideas arising from the HLF funded review. On-site weather records would assist this. As they became established cross-correlation with nearby long-term meteorological records e.g. from Central London, Heathrow Airport and the Royal Horticultural Society Garden at Wisley in Surrey, would enable an historical perspective.
8. An office-based volunteer (or short-term part-time post) working in liaison with the expert recorders could assist with quality control of volunteer records including regularising the format of records. This would aid identification of trends and changes; assist with integration older records, where available; and link these to current survey activities. This has been started for dragonflies and damselflies and is underway for the bird standard walks (though progress is somewhat stalling) but needs development for flora where some appropriate base-line information is also available. Viewed more widely such a post could also pump-prime the establishment, interpretation and sharing of data from a new in-house weather station. It could also support development of public facing wildlife materials and facilitate production of celebratory wildlife information to mark the 150 year anniversary of WPCC in 2021.
9. It is important to keep previous recommendations in mind for example, fuller investigation into the potential use of seasonal grazing; the benefits of on-site weather recording; the need for more analysis of soil and water quality, in particular to assess likely eutrophication associated with the heavy use of the area for dog walking; the potential benefits of gathering a wider diversity of wildlife information; the need to investigate the impacts of air pollution on the Commons; the benefits of achieving and maintaining a variable-age structure in the Commons heaths and woodlands.
10. Some more visible support for volunteers and recognition of their contributions should be considered. A volunteer base hub would be just great.

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B. BIOBLITZ 21ST -23RD JUNE

As in 2018, the 2019 BioBlitz, WPCC's 6th, ran for the full weekend from Friday evening to Sunday afternoon (Appendix 11). Weather was fine throughout and all events were well attended. Overall around 150-180 people engaged with the activities with some enthusiastic participants taking part in several events across the weekend. Most popular with children were the small mammal trapping; activities at the base camp; and the Saturday evening events, the bat walk and 'mothing'. New this year was a Friday evening stroll beside the recently restored section of Beverley Brook. This embraced the adjacent woodland hinterland as well as the brookside giving a chance to explore key elements such as coppicing and small glades within the woodland structure. On Saturday afternoon a butterfly, dragonfly and damselfly walk was undertaken, but it was not possible this year to coordinate this with a specialised 'bug' hunt on Saturday morning, as in 2018. In 2019, the Sunday lunchtime talk at 'base camp' was all about Hedgehogs with JU-H from SW15 Hedgehogs explaining the group's work at Putney Lower Common; Hedgehog lifestyles; conservation strategies; and, most especially, how people can help to make their gardens Hedgehog friendly. Reptile Events, the reptile rescue charity, returned building on their highly popular visit in 2018; their snakes again proved popular with young and old alike. The children's nature club organised activities at the base camp further enhancing the focal hum of activity close to the Information Centre where Quekett Microscopical Club ran their usual activities. Displays of wildlife identification texts, equipment for use on walks and importantly the BioBlitz Whiteboard completed this area giving a general welcoming feel (Figure 26).

Figure 26. Exploring Some Very Mini Beasts with Quekett Microscopical Club Members



Figure 26. Exploring Some Very Mini Beasts with Quekett Microscopical Club Members

Under the microscope were some specimens found in water samples from the drinking water trough near the entrance to the Nature Trail and others from the 'turtle' pond beside the Information Centre. An amoeba; the protist, *Vorticella sp.*; and green alga *Pediastrum sp.* (insert) were specimens found in the drinking water trough and a rotifer, *Brachionus sp.* and the alga, *Phacus sp.* were found in the 'turtle' pond samples.

In 2019 the small mammal 'traps' were set on Saturday evening. In view of 2018's null result, apple rather than carrot was included as the 'liquid' source when the traps were packed with organic hay, grubs and seeds. As described more fully in the section on mammal fauna, the traps were set around three main Habitat Patches that would be visited again during the general nature walk on Sunday. 10 pairs of traps were set around Hookhamslade pond; 5 pairs on the Heathland Patch; and 5 more pairs at the Hogweed Patch. Small mammals had previously been found near Hookhamslade pond and on the Heathland Patch; the Hogweed Patch was included in view of the frequent presence of a Kestrel overhead. Success! and full engagement for our early risers the following morning; a Wood Mouse was found in secondary woodland to the southwest of Hookhamslade

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pond; a Field Vole on the Heathland Patch; and at the Hogweed Patch, 4 Wood Mice and another Field Vole were captured (Figure 27).



Figure 27 Emptying a Small Mammal Trap – 6.38am on Sunday Morning near Hookhamslade Pond

After the mammal traps were set, as dusk fell on Saturday evening a group of around 30 people set out to search for Bats at Queensmere, and then moved back to the plateau area north of the windmill complex where a lamp and sheet system was in place for some 'mothing'. At Queensmere, Common and Soprano Pipistrelle (*Pipistrellus pipistrellus*, *P. pygmaeus*) and Daubenon's Bat (*Myotis daubentonii*) were all recorded though not Nathusius' Pipistrelle (*P. nathusii*) which had been detected in 2018. Blotched Emerald was the typical star at the evening mothing (see Figure 17, section A) when 17 species were recorded at lamp and sheet. 74 species were found in the overnight moth trap sited in a Putney Heath garden. Allowing for some repeats this gave 83 BioBlitz moth records. During the general nature walk, three moth species were spotted, Oak Processionary, Six-spot Burnet (*Zygaena filipendulae*) and Garden Grass-veneer (*Chrysoteuchia culmella*) which had also been found in the overnight trap. Overall this gave 85 moth species recorded as part of the BioBlitz event.

On Sunday morning following the mammal trap opening, the usual bird walk took place with 24 species noted. A Sparrowhawk was later added to that total and a Tawny Owl was heard during the Bat walk. However, the bird total was down on the bonanza record from 2018 when 38 were recorded on the early morning walk. This may in part be a reflection of the exceptionally dry conditions on the Commons at BioBlitz time in 2019. The walk also took a slightly shorter route than the previous year to avoid overlapping in time with subsequent events.

The general nature walk followed the same route as 2018 but in reverse (Figure 28) starting with a stroll across The Plain where the beauty of the flowering mosaics looked very inviting. The prevalent dry conditions, as described in section A, had led to a shorter than usual sward on The Plain giving a chance to focus more fully on the plant mosaics present. This was a particular feature of the 2019 BioBlitz. Overall 84 plant species were recorded at the areas visited during the general nature walk. Additional to these, as part of the BioBlitz, were the plants recorded on the Beverley Brook visit. While many woodland species, as may be expected, duplicated those found in the Secondary Woodland Patch, 27 additional species from the more open banksides and woodland edge were noted.

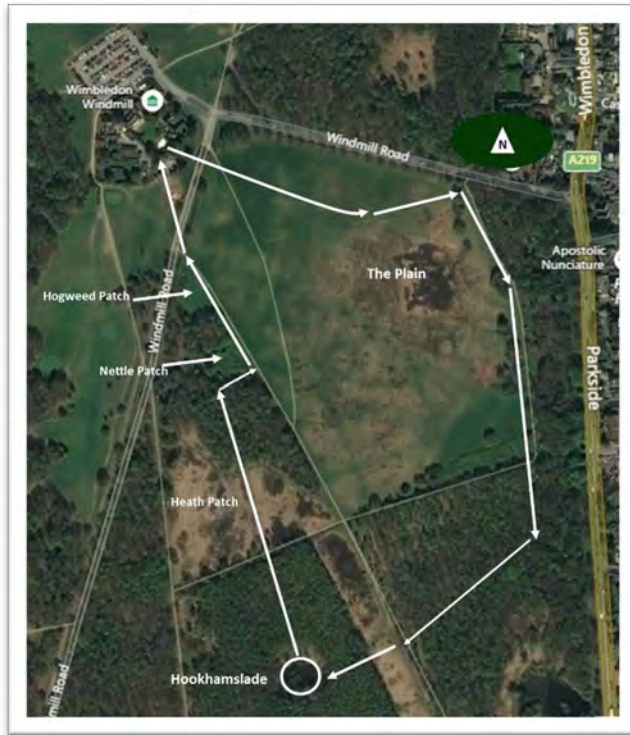


Figure 28 The BioBlitz General Nature Walk Route

Also amply demonstrated this year were plant-insect links. Butterflies were seen nectaring on The Plain; caterpillars feeding at the Nettle Patch; and wasp galls were noted giving curious features to Dog Rose (*Rosa canina*) on The Plain and at The Heath Patch (Figure 29a-c)



Figure 29 Plant and Insect Interactions

- a. **Small Tortoiseshell butterfly (*Aglais urticae*) amidst Yellow Rattle, Red Clover, Ribwort Plantain and Lesser Stitchwort (*Stellaria graminea*)**



b. Peacock butterfly (*Aglais io*) caterpillars feeding on Nettles



c. Robin's pincushion gall (caused by a gall wasp, *Diplolepis rosae*) on Dog Rose

After traversing The Plain the group headed to Hookhamslade pond for a rest in the shade and some pond dipping activities where Freshwater Shrimp (*Gammarus pulex*), Water Louse (*Asellus aquaticus*) and Water Fleas (*Daphnia sp.*) were found. The group then headed back to base camp crossing first the Heath Patch, then strolling through secondary woodland to the Nettle Patch, and onward to the Hogweed Patch, before settling at base camp for the Hedgehog Talk.

Spreading activities across a full weekend again proved very effective. It enables a better focus on each activity and enhances enjoyment. Including the new visit to the Beverley Brook area introduced new habitats to the event. This was very much an evening of joint exploration with group leaders and members of the public investigating together and was excellent for a giving a better chance to learn about the Commons woodlands as well as seeing the work within and beside the Brook.

As noted last year, exact tallies for any organism group will always be affected by weather conditions, and by the route followed and the areas explored. The extent of additional recording of bees, flies, beetles, spiders and other groups will in part depend on the guest expertise available to join in-house volunteer leaders from staff and the W&C Forum. Engagement is the primary focus of the BioBlitz and the informal interaction of staff, assorted experts, and the public seems to work well. The records made usefully supplement our knowledge from the systematic recording particularly when, as at the restored section of Beverley Brook, a new area is opening up following some major changes. There is a consistency to WPCCC BioBlitz counts which suggests an intrinsic robustness of data in relation to the habitats visited and the time and effort expended. Data from 2019 have been entered in the format established in 2017 (Table 14; Appendix 12 (fauna) and Apendices 3a, 3b (plants)). The new list for Beverley Brook is in Appendix 9; moths recorded in the overnight trap at BioBlitz time are highlighted in the overall moth list, Appendix 6. Maintaining this consistency makes year to year comparisons easier and more reliable. Overall, including the 27

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additional plant records; two fish species, Chub (*Squalius cephalus*) and Roach (*Rutilus rutilus*); and an extra bird species, Stock Dove (*Columba oenas*) from the Beverley Brook area, there were 217 species records from the public events (283 including extra the overnight records for moths). Additional to these are the microscopic organisms detected by the Quekett team, which adds another 5 species. Counts for The Plain and Habitat Patches are lower than in 2018, which was a bonanza year. Some of this of this is due to the prevalent dryness and, for assorted personal reasons, there were also fewer expert helpers in 2019 which may also be a factor. However as is evident from the full faunal data list in Appendix 12; and the summary in Table 14 there is similarity with 2017 and earlier events.

Table 14 Summary of BioBlitz Sightings 2019

Organism Group	Total Reported on the BioBlitz Blackboard and to the CE&O	Activity	Equivalent totals from previous years				
			2018	2017	2016	2015	2014
Mammals	9 3 2 4	Evening Bat walk Small mammal trapping General walks	7	8	5	6	7
Birds	26 (+1 at Beverley Brook)	Bird walk and extras from the Bat survey and general walks	40	30	32	33	33
Butterflies	15	General walks and dedicated butterfly and dragonfly walk	14	15	57 Butterflies, moths dragonflies and damselflies	8	(13)
Dragonflies and Damselflies	7	General walks and extra during butterfly and dragonfly walk	10	10		5	Data recorded differently
Moths	17 (19) plus overnight 74 less repeats 83 Plus 3 from general walk less 1 repeat 85	Public night trapping and demonstration (+ overnight extras)	17 /30 (96)	15 (101)		9	35 insects +42 overnight moths plus 1 extra sighting
Other insects	22	General walks and Quekett photos and feedback from JL	33	16	0	4	3
Arachnids	1	General walks	6	0	2	4	0
Reptiles	1	General walks	1	1	1	Data recorded differently	Data recorded differently 2
Amphibians	0	General walks	1	1	3		
Crustaceans	3	General walks	1	1	2		
Gastropods	0	General walks	1	1	4		
Annelids	0	General walks	2	2	2		
Total Fauna	103/169 (with all overnight moths) + 3 from Beverley Book (see text). 106/172		133/146 (212 with all moths)	100	108	76	80
Total Flora	84 + 27 Beverley Brook =111		101	88	78	82	71*
Total BioBlitz	217 or 283 187 + overnight moths (253)	The Plain, and Habitat Patches + Beverley Brook walk The Plain and Habitat Patches only	246 + 68 extra moths from the overnight trap and 2 day records (314)**	188 + 86 extra moths in the overnight trap (274)	186 No extras noted	158 +124 expert insect records (280)	151 +43 moths 194 + 44 expert insect extras (238)

* In 2014 no separate Habitat Patches record made before the general walks

**Additionally in 2018, the alga, *Cladophora sp.* was found in samples taken from Hookhamslade pond. This is a very cosmopolitan algal group and unless the specimens can be further identified to the species level, this gives little information on habitat conditions.

***In 2019 an additional 5 microscopic species were reported by the Quekett team

Reflections and Recommendations

The main points emerging from the W&C Forum review of BioBlitz 2019 are set out below.

1. Spreading events across three days from Friday evening to Sunday afternoon as first tried in 2018 works well and is the recommended model for future events. It enables fuller engagement with each event, reduces leader fatigue and ensures better data collation.
2. The single but extended general nature walk as trialled in 2018 again worked well. It gives time for leisurely investigation and discussion and creates space for more engagement with base camp activities and Quekett's microscopical work. Ensuring the lunchtime talk is a late lunch event further benefits engagement with base camp and Quekett.
3. Making a base camp presence on Saturday is good. It attracts interest from casual passers-by. Reverting to Saturday evening for setting the small mammal traps gives extra impetus to events that day and creates a flow through from the butterfly, dragonfly and damselfly walk to the later evening events, the Bat walk and mothing.
4. Building up base camp facilities, especially on Sunday, with binoculars suitable for children and adults to borrow for the bird, and general nature walks would be a useful addition for this area. Feedback suggests some extra bird identification sheets, developed from our experience of species likely to be encountered, would be helpful.
5. The improved range of children's activities offered at the base camp area was well subscribed and definitely enjoyed by younger family members. This should be continued and be more widely advertised. A stand exhibiting animal tracks and signs has been offered for 2020 (JC) and would probably be very appealing to young people.
6. A wider range of guest experts is needed, especially to assist with 'bugs', the 'other insects' of Table 14 and Appendix 12. Looking ahead to 2021, the WPCC 150th anniversary year, it would be good to seek assistance, as happened in 2015, from the entomology section of London Natural History Museum.
7. Introducing a new element to the programme exploring a different area of the Commons, as happened this year, beneficially maintains vitality for the BioBlitz programme and has potential to extend the participatory audience through use of new geographical locations and by introducing new time slots to the programme.
8. Keeping an up to date BioBlitz Blackboard/Whiteboard is important for records and for communicating the event to passing members of the public. Clarification of walk routes and distance and time spent, especially for the bird, and butterfly-dragonfly-damselfly events, which can vary from year to year, would greatly help inter-annual data comparisons.
9. A web report of the event needs to happen as soon as feasible in the following week. For this, it would greatly help to have some extra office volunteer/event reporter assistance. Every year Quekett produce a wonderful photographic account as part of their outreach programme and this could be more obviously linked to the WPCC website.

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Extensive information on Citizen Science initiatives is available from the websites of the Royal Society for the Protection of Birds (RSPB) <https://www.rspb.org.uk> and the British Trust for Ornithology (BTO) <https://www.bto.org>

Appendix 1 The Wildlife and Conservation Forum and Volunteer Recorders 2019

Membership of the Wildlife and Conservation Forum (W&C Forum)

	Role with WPCC Key external affinity	Participant	Contributing Expertise	Initial identifier in text	Field recorder for The Plain PM BioBlitz BB Other WPC activity O
In-house staff	Chief Executive Officer	Simon Lee	Environmental overview	SL	BBO
	Conservation and Engagement Officer	Peter Haldane	General ecology and wildlife management, reptiles and amphibians	PH	PMBBO
	Chief Operations Manager	Steve Bound	General ecology and data management	SB	O
	Executive Assistant	Angela Evans - Hill	Moths, wildlife, communication	AE-H	BBO
Conservators	Conservator Putney Lower Common link	Shirley Gillbe	General Zoology	SG	O
	Conservator Friends link	Sarah-Jane Holden		SJ-H	O
	Conservator W&C Forum Chair	Ros Taylor	Plants, general ecology and environment monitoring	RT	PMBBO
Volunteer	Volunteer	Bill Budd	Dragonflies and damselflies	BB	BB, (PM) O
	Volunteer	James Copeland	Badgers Joined November 2019	JC	O remote camera surveys of Badger setts
	Volunteer Butterfly Conservation	Les Evans-Hill	Butterflies and moths, birds, data management	LE-H	BOO
	Volunteer Local street tree warden	Peter Fischer	Butterflies, scrub bashing rainfall monitoring	PF	O
	Andrew Harding LWT link	Andrew Harding	Coordinator for Farm Bog working parties	AH	O
	Volunteer Formerly children's nature club leader, local beekeeper	Alison Pelikan	Small mammals, engaging young people	APel	BBO
	Volunteer Coordinator for Annual Bird Butterfly, Dragonfly and Damselfly Report	Adrian Podmore	Birds	AP	BBO
	Volunteer	Simon Riley	Butterflies	SR	BBO
	Volunteer	Una Sutcliffe	Plants Wimbledon Mires expert Left November 2019	US	PMBB
	Volunteer Richmond Park link	Jan Wilczur	Birds	JWcz	O

a. BioBlitz expert walk leader

John Tovey (JT) - London Bat Group - Bat expert
 Sarah Patton - BioBlitz Bugs (not available 2019)
 John Locke (JL)- BioBlitz Bugs

b. Other key volunteers

John Weir (JW) - Retired volunteer, long-term Commons observer, seasonal changes in vegetation, birds and environmental conditions on The Plain; public activities on The Plain
 Graham Guthrie (GG) Bird Transect walker; Alastair and Katharine Brown (AB / KB) Bird Transect walkers
 Derek Coleman (DC) - Caddisfly recorder at Farm Bog
 Andy Overall (AO) - Fungal Foray leader. (not available in 2019)
 Quekett Microscopical Club (QM) - Regular contributors to the BioBlitz event
 Jane and Ian Swan- White (JIS-W). Small mammal experts
 Andy Davis Butterfly transect

Forum members can be contacted through the Ranger's Office

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www.wpcc.org.uk

Appendix 2 Wildlife and Conservation Events at Wimbledon and Putney Commons 2019 and Associated W&C Forum and Volunteer Activities

Date	Event
January	W&C Forum meeting Work starts at Beverley Brook
February	Annual Bird, Butterflies and Dragonflies Report published Bird Standard Walk Group Meeting DEFRA visit to the Commons Small mammal capture-release training
March	Winter Talk - Trees and a Changing Landscape W&C Forum meeting Spring Walk with Management Team Spring Bird walk
April	Bird Song Workshop Conservators visit to restored area of Beverley Brook
May	Monitoring Report 2018 published Bird Song walk W&C Forum meeting
June	BioBlitz 21 st -23 rd June
July	Summer Evening Walk with Management Team W&C Forum meeting – ecological review visits to 4 of the Commons ponds; Scio, 7post, Curling and Kingsmere Butterfly, Dragonfly and Damselfly Walk
August	Annual Mowing on The Plain
September	W&C Forum meeting Annual Conservation Report 2018/19 published Late Summer/early Autumn Bird Walk
October	Autumn Walk with Management Team - Putney Heath Autumn Bird Walk
November	W&C Forum meeting Winter Bird Walk
December	-

Volunteer Activities:

As is now usual, volunteer events also made a significant contribution to ecological monitoring and management. The Saturday morning Scrub Bashers continued to meet twice each month and the new Mid-week Estates Volunteer Team met once every 3 weeks to undertake a range of estates tasks. Walking for Health events continued on a fortnightly basis during 2019 and continued to grow in popularity. The highest number of walkers to attend a single event during 2019 was 34 with events typically averaging around 30 participants.

Duke of Edinburgh award students have helped with litter picking, conservation tasks, the Commons' Open day and on occasion with Walks for Health. In 2019, 30 litter pickers, individuals or small individually run groups, volunteered for the Commons' 'Adopt an Area' scheme though there was some turnover in personal from 2018. Other organisations too undertook litter picking often as part of team building days, e.g. Geocache whose volunteers regularly litter pick the Beverley Brook. Following the Brook restoration work, SERT volunteers also undertook litter picking in the Brook and instigated Riverfly monitoring. Individual volunteers have helped with many other tasks notably including path repairs and ecological management at Farm Bog under the auspices of the London Wildlife Trust. Volunteers assist at and lead BioBlitz events and undertake regular wildlife monitoring. In total the number of volunteering hours for 2019 was formally logged by the C&EO as 3908. This does not include the hours spent wildlife monitoring by individuals so the overall total contribution to Commons management almost certainly exceeds 4000 hours. Additional to this is the time commitment of volunteer members of the Wildlife and Conservation Forum and the more broadly-based Stakeholder Forum.

Appendix 3a Floral Records for The Plain, Wimbledon and Putney Commons 2019

			15th May 19	5th June	20th June	late July	2nd October	
Recorders: Ros Taylor (RT); US assisting at BioBlitz		Comments	RT	RT	RT	RT	RT	
Duration search (hours)			short 1hour	3hours		1hour	2hours	
p denotes confirmed presence in 2019 to date			walkabout	10 stops		walk about		
Blank means recorded in 2014 and /or 2015 /or 2016 / 2017/2018								
			Spring	first full survey	pre BioBlitz	pre-mowing	post mowing walkabout	
			RT broken rib	05.06.19	full survey	verifying	main elements only	
Ferns (and mosses)						only		
<i>Dryopteris felix-mas</i>	male fern			p				
<i>Ophioglossum vulgatum</i>	adderstongue		p	p				
Pines and allies								
<i>Pinus sp.</i> (sylvestris sapling?)					p			
Flowering plants								
Dicotyledons								
<i>Achillea millefolium</i>	yarrow		p	p	p		f	
<i>Anthriscus sylvestris agg.</i>	cow parsley		p	p	p			
<i>Arctium minus</i>	lesser burdock							
<i>Betula sp.</i>	birch seedling or sapling		p	p	p			
<i>Calluna vulgaris</i>	ling (heather)		p	p	p		f	
<i>Cardamine hirsuta</i>	hairy bittercress							
<i>Cardamine pratensis</i>	lady's-smock							
<i>Centaurea nigra</i>	knapweed		p	p	p			
<i>Cerastium fontanum</i>	common mouse-ear		p	p	p			
<i>Chamaenerion angustifolium</i>	rosebay willowherb							
<i>Cirsium arvense</i>	creeping thistle		not noticed	p	p			
<i>Convolvulus arvensis</i>	field bindweed							
<i>Crataegus monogyna</i>	hawthorn sapling		p	p	p			
<i>Dactylorhiza maculata</i>	heath spotted orchid							
<i>Dactylorhiza praetermissa</i>	southern marsh orchid				p survey survey			
<i>Epilobium montanum</i>	broad-leaved willowherb							
<i>Epilobium parviflorum</i>	hoary willowherb							
<i>Erica tetralix</i>	crossed-leaved heath							
<i>Filaginella uliginosa (Gnaphalium uliginosum)</i>	marsh cudweed						f	
<i>Galega officinalis</i>	goat's rue		not seen	p	p		f	
<i>Galium aparine</i>	common cleavers			p	p			

Appendix 3a Floral Records for The Plain, Wimbledon and Putney Commons 2019

<i>Galium saxatile</i>	heath bedstraw			p	p		y	
<i>Galium verum</i>	lady's bedstraw							
<i>Geranium pratense</i>	meadow crane's-bill							
<i>Heracleum sphondylium</i>	hogweed		p	p	p			
<i>Hypericum perforatum</i> agg.	perforate St John's-wort			p	p			
<i>Hypochaeris radicata</i>	common catsear		not noted	p	p		f	
<i>Lamium purpureum</i>	red deadnettle							
<i>Lathyrus nissolia</i>	grass vetchling			p	p			
<i>Lathyrus pratensis</i>	meadow vetchling							
<i>Leontodon autumnalis</i>	autumn hawkbit						f	
<i>Lotus corniculatus</i>	bird's-foot trefoil		p	p	p		f	
<i>Lysimachia (vulgaris) punctata</i>	(yellow) dotted loosestrife	garden escape			p			
<i>Medicago lupulina</i>	black meddick							
<i>Narcissus</i> spp.	daffodil (garden escape)							
<i>Ophrys apifera</i>	bee orchid				p photo			
<i>Plantago lanceolata</i>	ribwort plantain		p	p	p			
<i>Plantago major</i>	greater plantain			p	p			
<i>Populus tremula</i>	poplar(aspen) seedlings		not seen					
<i>Potentilla anserina</i>	silverweed							
<i>Potentilla erecta</i>	tormentil		p	p	p		f	
<i>Polygonum persicaria</i>	redshank			not seen	p		f	
<i>Quercus cerris</i>	turkey oak seedlings			p	p			
<i>Quercus robur</i>	oak saplings / seedlings			p	p			
<i>Ranunculus acris</i>	meadow buttercup		p	p	p			
<i>Ranunculus bulbosus</i>	bulbous buttercup		p					
<i>Ranunculus ficaria</i>	lesser celandine							
<i>Ranunculus repens</i>	creeping buttercup		p	p	p		f	
<i>Rhinanthus minor</i>	yellow rattle		p	p	p			
<i>Rosa canina</i>	dog rose			p	p			
<i>Rubus fruticosus</i> agg.	bramble		p	p	p			
<i>Rumex acetosa</i>	common sorrel		p	p	p			
<i>Rumex acetosella</i> agg.	sheep's sorrel		p	p	p			
<i>Rumex conglomeratus</i>	clustered dock							
<i>Rumex crispus</i>	curled dock		p	p	p			
<i>Salix caprea</i>	goat willow		p	p	p			
<i>Salix repens</i>	creeping willow		p	p	p			
<i>Senecio jacobea</i>	ragwort			not seen			f	
<i>Sorbus aucuparia</i>	rowan sapling							

Appendix 3a Floral Records for The Plain, Wimbledon and Putney Commons 2019

<i>Stellaria graminea</i>	lesser stitchwort			p	p		
<i>Taraxacum agg.</i>	dandelion		p	p	p		f
<i>Tilia cordata</i>	small-leaved lime sapling						
<i>Trifolium campestre</i>	hop trefoil)			p) check with T dubium			
<i>Trifolium dubium</i>	lesser trefoil)			p)	p		
<i>Trifolium pratense</i>	red clover		p	p	p		f
<i>Trifolium repens</i>	white clover		p	p	p		f
<i>Urtica dioica</i>	stinging nettle			p	p		
<i>Veronica chamaedrys</i>	germander speedwell		not seen	not seen	not seen		
<i>Veronica persica</i>	common field-speedwell		not found despite search				
<i>Vicia cracca</i>	tufted vetch		p	p	not seen		
<i>Vicia hirsuta</i>	hairy tare						
<i>Vicia sativa agg.</i>	common vetch		p	p	p		f
<i>Vicia tetrasperma</i>	smooth tare			p	p		
Monocotyledons							
<i>Agrostis capillaris (tenuis)</i>	common bent		p	p	p		y
<i>Agrostis stolonifera</i>	creeping bent						
<i>Alopecurus pratensis</i>	meadow foxtail		p		p		y
<i>Anthoxanthum odoratum</i>	sweet vernal-grass		p	p	p		?
<i>Arrhenatherum elatius</i>	false oat-grass			p	p		
<i>Carex sp. (distachia?)</i>	possibly brown sedge						
<i>Carex elata</i>	tufted sedge						
<i>Carex hirta</i>	hairy sedge						
<i>Carex nigra</i>	common sedge			not seen despite search			y
<i>Carex ovalis</i>	oval sedge			p	p		
<i>Carex sp.</i>	tbc						
<i>Dactylis glomerata</i>	cocksfoot				p		
<i>Deschampsia flexuosa</i>	wavy hair-grass			p	p		
<i>Festuca arundinacea</i>	tall fescue		p	p	p		
<i>Festuca ovina agg.</i>	sheep's fescue						
<i>Festuca rubra</i>	red fescue		p	p	p		
<i>Holcus lanatus</i>	Yorkshire fog	all over hairy	p	p	p		
<i>Holcus mollis</i>	creeping soft-grass	rhizomes and 'hairy knee's					
<i>Juncus bufonius</i>	toad rush	verified by archive specimen		not seen			
<i>Juncus conglomeratus</i>	compact rush						
<i>Juncus effusus</i>	soft rush		p	p	p		
<i>Juncus squarrosus</i>	heath rush		p	p	p		

Appendix 3a Floral Records for The Plain, Wimbledon and Putney Commons 2019

<i>Juncus tenuis</i>	slender rush			p	p		
<i>Lolium perenne</i>	perennial ryegrass			p	p		
<i>Luzula campestris</i>	field wood-rush		p	p			
<i>Luzula multiflora</i>	heath wood-rush		p	p			
<i>Molinia caerulea</i>	purple moor-grass		p	p	p		f
<i>Nardus stricta</i>	mat grass		p	p	p		
<i>Poa annua</i>	annual meadow-grass	recreation zone mainly	p confirmed				
<i>Poa pratensis</i>	smooth meadow grass			p-check			
<i>Poa trivialis</i>	rough meadow-grass			at least one Poa spp present - to verify			
Number of species noted-full surveys			40	59	61		
Cummulative total				61	66		67
BioBlitz public event additional records							no extras
Overall							Autumn Hawkbit
NOTES							
15.05.19 First floral search							
Less duration than usual; RT with broken ribs; US not available							
Adders-tongue Fern found; <i>Rumex acetosella</i> confirmed at entrance to Conservation Zone from the Recreation area							
There is no standing water on The Plain - very dry throughtout; rabbit droppings evident in southern area;							
Much of the sward is still short c. 15cm; occasional areas with taller grasses but most Purple moor-grass <i>Molinia caerulea new growth</i> is still short							
Bent grasses, <i>Agrostis</i> s pp. still short; Matt grass <i>Nardus stricta</i> c.10cm							
All 3 Buttercups, <i>Ranunculus bulbosus</i> , <i>R. repens</i> , <i>R. acris</i> in flower;							
Common Vetch, <i>Vicia sativa</i> agg. in is bloom and more obvious than is previous years							
Some Yellow Rattle leaves, <i>Rhinanthus minor</i> , are starting to show.							
Common field speedweell, <i>Veronica persica</i> , not found despite searching							
Also searched Hogweed patch -Cow parsley, <i>Anthriscus sylvestris</i> , blooming							
Fauna: Kestrel (<i>Falco tinnunculus</i>) over Hogweed patch activiely hunting; no crows noted during late aternon urvey period.							
Photos: <i>Vicia sativa</i> on The Plain; the mown pathways visible amidst lengthening sward							
5.06.19 second floral survey RT 4hours 10 stops							
Yellow rattle, <i>Rhinanthus minor</i> , is coming into bloom							
Vetches; <i>Vicia sativa</i> , <i>V. tetrasperma</i> and <i>V. cracca</i> and grassvetchling, <i>Lathyrus nissolia</i> , more evident than usual							
Dog rose, <i>Rosa canaina</i> in flowerer and with insect galls?							
Grass vetchling, <i>Lathyrus nissola</i> , is flowering and similarly to vetches more evident than usual							
Fauna: Black beetle, red poplar beetle, wood pigeon(2), red spider, crows(2), red-tailed and white -tailed bumblebees on Heath bedstraw and Bird's-foot trefoil, Roesels bush cricket							

Appendix 3a Floral Records for The Plain, Wimbledon and Putney Commons 2019

Grasses are flowering and range in height from 15cm to occasional clumps at 80cm - most are short across very dry Plain.							
Southern Marsh Orchid, <i>Dactylorhiza praetermissa</i> , was not found despite searching in previous known location; may have missed peak flowering time; single specimen was noted by SBS recorders							
As in 2017 and 2018 Heath bedstraw, <i>Galium saxatile</i> , was flowering abundantly in mid-June							
Weather has been dry and mainly warm c. 20-22°C by day; no standing water anywhere on the Plain							
No reports of skylarks to date							
20.06.19 pre-BioBlitz survey							
Bee orchid, <i>Ophrys apifer</i> a colony found again and in flower							
Southern marsh orchid, <i>Dactylorhiza praetermissa</i> not seen despite searching but recorded the previous week by Surrey Botanical Society							
Sward height very variable, extensive areas c.15cm, locally, where some residual moisture 75cm-100cm							
Fauna: crows (2) teeming with brown (Roesels?) crickets, inkcaps patchily abundant in north west area, swift , blackbird, brown butterfly,							
Weather continuing very warm and dry							
02.10.2019 Post-cutting survey							
Late survey delayed compared with previous years due to later August mowing date and delayed late baling; dry soil conditions meant little re-growth had occurred by early September .							
The main plants in flower are:- are Autumn Hawbit, <i>Leontodon autumnalis</i> , Dandelion, <i>Taraxacum agg.</i> , and also widespread though sparse Tormentil, <i>Potentilla erecta</i>							
Fauna: woodpigeons (3) crows (4)							
Also re-visited Hookhamslade and Bluegate ponds and all BioBlitz Habitat Patches							
Bluegate Some small pools have re-established following late summer rain and a deluge on October 1st. Bog Moss, <i>Sphagnum spp</i> . on the bed are starting to recover (less crispy) ';							
Trifid Bur-Marigold, <i>Bidens tripartita</i> , carpets the exposed areas with Marsh Pennywort, <i>Hydrocotyle vulgaris</i> , also widespread; Redshank, <i>Polygonum persicaria</i> , is prolific on the bed and shallow							
bankside of the 'pond' area nearest the road. Occasional Purple Moor-grass, <i>Molinia caerulea</i> , tussocks are evident within the pond area.							
Marsh cudweed, <i>Filaginella uliginosa</i> , is present in patches; Soft Rush, <i>Juncus effusus</i> , occurs patchily in the bankside marginal areas.							
Michaelmas Daisy, <i>Aster (Symphotrichum) novi-belgii</i> , an invasive introduced species, is spreading from the islands into the man pond bed;							
Willow, <i>Salix cinerea</i> , invading pond bed, Yellow Flag Iris, <i>Iris pseudacorus</i> is present in extensive carpets across the pond bed							
Rosebay Willowherb, <i>Chamaenerion angustifolium</i> , is flowering in the cleared area near Bluegate							
At Hookhamslade pond there is still much exposed but a small central area retained water.							
Branched Bur-Reed, <i>Sparganium erectum</i> , was noted again but is far less extensive than in 2017.							
On the Heath Patch to the SW of The Plain, Rosebay Willowherb, <i>Chamaenerion angustifolium</i> , is a characteristic flowering element alongside Heather, <i>Calluna vulgaris</i> .							

Appendix 3b BioBlitz Plant Communities - The Habitat Patches - 2019

BioBlitz Plant Communities - The Habitat Patches								
y	denotes plant recorded and verified (US / RT) 2016							
s	denotes plant recorded and verified (US / RT) 2017							
h	denotes plant recorded and verified (US / RT) 2018							(blanks indicate species yet to be re-confirmed (in 2018) at a specific site)
p	denotes plant recorded and verified (US/RT) 2019							
a	denotes plant species not recorded on The Plain to date in 2019 but noted in a Habitat Patch							
			2019	2018	2017	2016	Extras to The Plain 2019 record	
Hogweed patch	TQ2305972261							
<i>Acer pseudoplatanus</i>	sycamore	p	h	s	BioBlitz	a		
<i>Agrostis capillaris (tenuis)</i>	common bent	p	h	s				
<i>Anthriscus sylvestris agg.</i>	cow parsley	p	h	s	y			
<i>Arrhenatherum elatius</i>	false oat-grass	p	h	s	y			
<i>Artemisia vulgaris</i>	mugwort	p	h			a		
<i>Bromus sterilis</i>	barren brome				BioBlitz			
<i>Cardamine hirsuta</i>	hairy bittercress			s	y			
<i>Cardamine pratensis</i>	lady's smock / cuckoo flower			s	y			
<i>Chamerion angustifolium</i>	rosebay willowherb	p	h	s	not seen to date			
<i>Cirsium arvense</i>	creeping thistle		h	s	y			
<i>Cirsium vulgare</i>	spear thistle	p		s				
<i>Convolvulus arvensis or Calystegia check</i>	field bindweed	p	h	s	y	a		
<i>Dactylis glomerata</i>	cocksfoot	p	h	s	y			
<i>Deschampsia flexuosa</i>	wavy hair-grass				y			
<i>Equisetum arvense</i>	field horsetail	p	h	s	y	a		
<i>Galium aparine</i>	common cleavers	p	h	s	y			
<i>Geranium dissectum</i>	cut-leaved crane's-bill		h	s	y			
<i>Heracleum sphondylium</i>	hogweed	p	h	s	y			
<i>Holcus lanatus</i>	yorkshire fog	p	h					
<i>Hordeum murinum</i>	wall barley	p				a		
<i>Lamium album</i>	white deadnettle	p	h	s	BioBlitz	a		
<i>Lamium purpureum</i>	red deadnettle		h		y			
<i>Lathyrus pratensis</i>	meadow vetchling		h		y			
<i>Lolium perenne</i>	perennial ryegrass	p	h	s	y			
<i>Plantago lanceolata</i>	ribwort plantain	p	h	s	y			
<i>Ranunculus repens</i>	creeping buttercup	p	h	s	y			
<i>Rubus fruticosus agg.</i>	bramble	p	h	s	y			
<i>Rumex acetosa</i>	common sorrel		h		y			
<i>Scilla non-scripta / S.hispanica</i>	bluebell - English & Spanish				y in May	not recorded in 2017, 18,19		
<i>Taraxacum agg.</i>	dandelion	p	h					
<i>Trifolium repens</i>	white clover		h (seat area only)	s	y			

Appendix 3b BioBlitz Plant Communities - The Habitat Patches - 2019

<i>Urtica dioica</i>	stinging nettle	p	h	s	y			
<i>Vicia cracca</i>	tufted vetch	p	h	s	y			
<i>Vicia sativa</i>	common vetch	p	h	s	y			
<i>Vicia tetrasperma</i>	smooth tare		h	s	BioBlitz			
23 species								
Nettle Patch	TQ2312472169							
<i>Agrostis capillaris</i>	common bent		h					
<i>Arrhenatherum elatius</i>	false oat-grass	p						
<i>Artemisia vulgaris</i>	mugwort	p	h	s	y	a (rpt)		
<i>Betula pendula</i>	silver birch seedling			s	y			
<i>Cerastium fontanum</i>	common mouse-ear		h					
<i>Chamerion angustifolium</i>	rosebay willowherb	p	h	s	y			
<i>Cirsium arvense</i>	creeping thistle		h		y			
<i>Cirsium vulgare</i>	spear thistle	p		s	y			
<i>Convolvulu sarvensis</i>	field bindweed	p						
<i>Dactylis glomerata</i>	cocksfoot			s				
<i>Dryopteris felix-mas</i>	male fern	p		s				
<i>Epilobium hirsutum</i>	great willowherb	p	h	s		a		
<i>Equisetum arvense</i>	field horsetail	p						
<i>Galium aparine</i>	common cleavers/ goosegrass	p	h	s	y			
<i>Geranium pratense</i>	meadow crane's bill	p	h	s	BioBlitz	a		
<i>Heracleum sphondylium</i>	hogweed	p	h	s	y			
<i>Holcus lanatus</i>	yorkshire fog	p	h		y			
<i>Lathyrus pratensis</i>	meadow vetchling		h	s				
<i>Lotus corniculatus</i>	bird's-foot trefoil		h					
<i>Quercus robur</i>	pedunculate oak seedling				y			
<i>Plantago major</i>	greater plantain	p						
<i>Ranunculus repens</i>	creeping buttercup	p	h	s	y			
<i>Ranunculus acris</i>	meadow buttercup	p						
<i>Rubus fruticosus agg.</i>	bramble	p	h	s	y			
<i>Rumex acetosa</i>	common sorrel	p	h		y			
<i>Rumex crispus</i>	curled dock	p	h					
<i>Stellaria graminea</i>	stitchwort	p	h					
<i>Trifolium dubium</i>	lesser trefoil			s				
<i>Trifolium repens</i>	white clover			s	y			
<i>Urtica dioica</i>	stinging nettle	p	h	s	y			
<i>Vicia cracca</i>	tufted vetch	p	h	s	y			

Appendix 3b BioBlitz Plant Communities - The Habitat Patches - 2019

<i>Vicia sativa</i>	common vetch		h	s				
21species								
Heath Patch Near Reptile Refuge	TQ2320772002							
<i>Agrostis capillaris</i>	common bent		h					
<i>Betula pendula</i>	silver birch sapling /seedling	p	h	s	y			
<i>Betula pendulens</i>	downy birch seedling/sapling?		h					
<i>Calluna vulgaris</i>	heather / ling	p	h	s	y			
<i>Chamerion angustifolium</i>	rosebay willowherb	p	h	s	y			
<i>Dactylis glomerata</i>	cocksfoot			s				
<i>Deschampsia flexuosa</i>	wavy hair-grass	p	h	s	y			
<i>Epilobium montanum</i>	broad-leaved willowherb			s				
<i>Epilobium tetragonum</i>	square-stalked willowherb		h			to confirm ID		
<i>Festuca rubra</i>	red fescue		h	s				
<i>Holcus lanatus</i>	yorkshire fog	p	h	s	y			
<i>Juncus bufonius</i>	toad rush				y			
<i>Juncus effusus</i>	soft rush	p	h	s	y			
<i>Juncus squarrosus</i>	heath rush	p	h	s	y			
<i>Juncus tenuis</i>	slender rush	p	h	s	y			
<i>Lolium perenne</i>	perennial ryegrass		h	s	y			
<i>Luzula campestris</i>	field wood-rush		h	s	y			
<i>Luzula multiflora</i>	heath woodrush	p	h					
<i>Molinia caerulea</i>	purple moor-grass	p	h	s	y			
<i>Poa annua</i>	annual meadow-grass		h					
<i>Potentilla erecta</i>	tormentil	p	h	s	y			
<i>Pteridium aquilinum</i>	bracken	p	h	s			a	
<i>Quercus cerris</i>	turkey oak sapling	p	h	s	y			
<i>Quercus robur</i>	pedunculate oak sapling	p	h	s	y			
<i>Ranunculus repens</i>	creeping buttercup		h					
<i>Rosa arvensis</i>	field rose		h	s	y		a	
<i>Rosa canina</i>	dog rose	p						
<i>Rubus fruticosus agg.</i>	bramble	p	h	s	y			
<i>Rumex acetosa</i>	common sorrel	p	h					
<i>Rumex sp.</i>	broad leaved dock?		h			to check ID		
<i>Salix repens</i>	creeping willow		h		y			
<i>Salix caprea</i>	willow sapling	p						
<i>Sorbus aucuparia</i>	rowan		h					
<i>Vicia cracca</i>	tufted vetch		h	s				
<i>Vicia sativa</i>	common vetch		h	s				

Appendix 3b BioBlitz Plant Communities - The Habitat Patches - 2019

18 species									
Around Hookhamslade	TQ2321371794								
<i>Alnus glutinosa</i>	alder	p	h	s	y	a			
<i>Betula pendula</i>	silver birch	p	h	s	y				
<i>castania sativa</i>	sweet chestnut	p							
<i>Chamerion angustifolium</i>	rosebay willowherb	p	h	s					
<i>Deschampsia flexuosa</i>	wavy hair-grass				y				
<i>Epilobium montanum</i>	broad-leaved willowherb								
<i>Epilobium parviflorum</i>	hoary willowherb								
<i>Geum urbanum</i>	herb bennet / wood avens	p							
<i>Glyceria maxima</i>	reed sweet-grass				y				
<i>Holcus lanatus</i>	yorkshire fog		h		y				
<i>Iris pseudacorus</i>	yellow flag	p	h	s	y	a			
<i>Juncus effusus</i>	soft rush	p	h	s	y				
<i>Juncus tenuis</i>	slender rush	p	h	s	y				
<i>Lolium perenne</i>	perennial ryegrass	p	h	s					
<i>Molinia caerulea</i>	purple moor-grass	p	h	s	y				
<i>Nymphaea alba</i>	white water lily	p	h	s	y	a			
<i>Populus tremula</i>	aspen (poplar)	p	h	s					
<i>Potentilla erecta</i>	tormentil	p	h						
<i>Pteridium aquilinum</i>	bracken	p	h	s	y	a (rpt)			
<i>Quercus robur</i>	pedunculate oak	p	h		y				
<i>Rubus fruticosus agg.</i>	bramble	p	h	s	y				
<i>Rumex acetosa</i>	common sorrel		h						
<i>Salix caprea</i>	goat willow	p	h	s	y				
<i>Sorbus aucuparia</i>	rowan	p	h	s	y				
<i>Sparganium erectum</i>	branched bur-reed	not seen yet		s	BioBlitz				
<i>Ulex europaeus</i>	European gorse	p							
19 species									
Secondary woodland - route from Nettle Patch to Heath and near Hookhamslade (and north of Bluegate Pond)									
<i>Aesculus hippocastanum</i>	horse chestnut sapling	p	h			a			
<i>Betula pendula</i>	silver birch	p	h	s					
<i>Carex pendula</i>	pendulous sedge	p	b	s	y				
<i>Castanea sativa</i>	sweet chestnut	p	b	s	on 2015 route	a			
<i>Chamerion angustifolium</i>	rose-bay willowherb	p	h						

Appendix 3b BioBlitz Plant Communities - The Habitat Patches - 2019

<i>Deschampsia flexuosa</i>	wavy hair-grass		b		s	y			
<i>Dryopteris felix-mas</i>	male fern	p	h						
<i>Epilobium montanum</i>	broad-leaved willowherb		h						
<i>Euonymus europeaus</i>	spindle	p		on approach to nettle patch rt /us					
<i>Fagus sylvatica</i>	beech	p	h		s	y	a		
<i>Geum urbanum</i>	herb bennet (wood avens)	p	h		s	y	a		
<i>Hedera helix</i>	ivy	p	b		s		a		
<i>Ilex aquilinum</i>	holly	p	h		s	y	a		
<i>Juncus tenuis</i>	slender rush	p	h		s	y			
<i>Lonicera periclymenum</i>	honeysuckle	p	h						
<i>Molinia caerulea</i>	purple moor-grass	p	h		s	y			
<i>Populus tremula</i>	poplar	p	h		s	y			
<i>Prunus avium</i>	wild cherry					on 2015 route			
<i>Pteridium aquilinum</i>	bracken	p	h				a (rpt)		
<i>Quercus cerris</i>	turkey oak	p	b		s	y			
<i>Quercus robur</i>	pedunculate oak	p	h		s	y			
<i>Rubus fruticosus</i>	bramble	p	h		s	y			
<i>Sorbus aucuparia</i>	rowan / mountain ash	p	h		s	y			
<i>Taxus baccata</i>	yew	p	h		s	y	a		
21 species									
Wayside Area Near Wood Pile	TQ2303572253								
<i>Anthriscus sylvestris</i> agg.	cow parsley	p							
<i>Arrhenatherum elatius</i>	false oat-grass	p	h		s	y			
<i>Artemisia vulgaris</i>	mugwort	p	h		s	y			
<i>Capsella bursa-pastoris</i>	shepherd's purse				s				
<i>Chamerion angustifolium</i>	rosebay willowherb	p							
<i>Chamomilla recutita</i> / <i>Matricaria recutita</i>	scented mayweed		h		s	y	a		
<i>Cirsium arvense</i>	creeping thistle		h						
<i>Cirsium vulgare</i>	spear thistle	p			s				
<i>Dactylis glomerata</i>	cocksfoot	p			s	y			
<i>Galium aparine</i>	common cleavers	p							
<i>Heracleum sphondylium</i>	hogweed	p	h		s	y			
<i>Holcus lanatus</i>	yorkshire fog	p	h						
<i>Hordeum murinum</i>	wall barley	p	h		s	y	a(rpt)		
<i>Lapsana communis</i>	nipplewort		h		s	y			
<i>Leucanthemum vulgare</i>	oxeye daisy	p	h		s	y	a		
<i>Lolium perenne</i>	perennial ryegrass	p	h		s	y			

Appendix 3b BioBlitz Plant Communities - The Habitat Patches - 2019

<i>Plantago lanceolata</i>	ribwort plantain	p	h	s	y			
<i>Poa annua</i>	annual meadow grass		h					
<i>Poa pratensis</i>	smooth meadow grass		h					
<i>Quercur iobur</i>	pedunculate oak sapling	p						
<i>Rubus fruticosus agg.</i>	bramble	p	h					
<i>Rumax acetosa</i>	common sorrel		h					
<i>Rumex crispus</i>	curled dock	p						
<i>Salix caprea</i>	willow (as a bush)	p						
<i>Sisymbrium officinale</i>	hedge mustard	p	h	ID check needed		a		
<i>Taraxacum agg.</i>	dandelion	p	h	s				
<i>Trifolium repens</i>	white clover		h	s				
<i>Urtica dioica</i>	stinging nettle	p	h	s				
20 species								
Total plant species recorded on The Plain by BioBlitz date in 2019						66		
Plant species in pre-BioBlitz survey of The Plain on 14th June 2019						61		
Additional plants recorded at the Habitat Patches along BioBlitz route 2019 (BioBlitz time)						23		
Additions on BioBlitz public walks								
Overall 'BioBlitz' record to date (from pre-survey of The Plain and additional Habitat Patches) and with extras from the BioBlitz event						84		
BioBlitz extras in 2018 were Bittersweet, <i>Solanum dulcamara</i> , Enchanters Nightshade, <i>Circaea lutetiana</i> , <i>Cross-leaved Heath</i> , <i>Erica tetralix</i> , and Elder, <i>Sambucus nigra</i>								
New records from Beverley Brook area are listed separately								

Appendix 3c Recent Floral Records for Wimbledon Common and Putney Heath from the Surrey Botanical Society (SBS)

This appendix shows the most recent sightings for species at each location visited.

A fuller version of the SBS records, including all historic sightings, is available in electronic format from the WPCC Rangers Office. The earliest confirmed records date from just after World War 2. Currently, the main recorders at SBS are George Hounsome, Caroline Bateman and Paul Bartlett. In case of queries they can be contacted via the WPCC Rangers office.

Taxon	Vernacular	Site	Gridref	Quantity	Date	Status	Comment
Acer campestre	Field Maple	Putney Heath	TQ229731	0	12-Oct-18	Native	
Acer campestre	Field Maple	Wimbledon Common	TQ2171	0	02-Nov-18	Native	FP E of Beverley Brook
Acer platanoides	Norway Maple	Putney Heath	TQ228733	0	12-Oct-18	Established	Fringe of Heath W of Putney Village
Acer platanoides	Norway Maple	Putney Heath, N of A3	TQ232737	-4	28-Aug-18	Established	In woodland near reservoirs
Acer platanoides	Norway Maple	Wimbledon Common	TQ2171	0	02-Nov-18	Established	FP E of Beverley Brook
Acer pseudoplatanus	Sycamore	Putney Heath	TQ2373	-4	24-Apr-19	Established	In herbage between Wimbledon Park Side and woodland to W
Acer pseudoplatanus	Sycamore	Putney Heath	TQ229731	-4	12-Oct-18	Established	Jerry's Hill
Acer pseudoplatanus	Sycamore	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Established	Woodland E of cricket pitch
Acer pseudoplatanus	Sycamore	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Native	In woodland near Park Side
Acer pseudoplatanus	Sycamore	Wimbledon Common	TQ230720	0	14-Jun-19	Established	S side of Windmill Rd between car park and Parkside
Acer pseudoplatanus	Sycamore	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Established	
Achillea millefolium	Yarrow	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
Achillea millefolium	Yarrow	Putney Heath	TQ229731	-4	12-Oct-18	Native	Jerry's Hill
Achillea millefolium	Yarrow	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Native	
Achillea millefolium	Yarrow	Putney, Roehampton Cricket Field	TQ232738	-4	24-Apr-19	Native	
Achillea millefolium	Yarrow	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	Disturbed areas and along paths
Aegopodium podagraria	Ground-elder	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Established	By fence on W side of reservoirs
Aegopodium podagraria	Ground-elder	Wimbledon Common	TQ2271	-23	29-May-19	Established	Along Windmill Rd E of Springwell Cottage
Aesculus hippocastanum	Horse-chestnut	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Aesculus hippocastanum	Horse-chestnut	Putney Heath	TQ229731	0	12-Oct-18	Established	Jerry's Hill
Aesculus hippocastanum	Horse-chestnut	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Self-sown saplings in woodland W of reservoir
Aesculus hippocastanum	Horse-chestnut	Wimbledon Common	TQ230720	-23	14-Jun-19	Established	Many self-sown saplings from mature trees in woodland W of Parkside
Aesculus hippocastanum	Horse-chestnut	Wimbledon Common, Beverley Bri	TQ214713	-3	04-Jul-19	Established	Many self-sown saplings on E bank by FP
Aethusa cynapium	Fool's Parsley	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Agrimonia eupatoria	Agrimony	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Agrimonia eupatoria	Agrimony	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	TQ21597156 Open disturbed area N of path
Agrostis canina	Velvet Bent	Putney Heath	TQ228728	0	1966	Not recorded	
Agrostis canina	Velvet Bent	Wimbledon Common, Bluegate Po	TQ235718	-4	27-Sep-18	Native	Several patches on dried up margins and bed of pond
Agrostis canina	Velvet Bent	Wimbledon Common, Farm Bog	TQ223713	-4	29-May-19	Native	TQ22377126 A few patches near small pool and very boggy area on S margin
Agrostis capillaris	Common Bent	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
Agrostis capillaris	Common Bent	Putney Heath	TQ229731	-23	12-Oct-18	Native	Open grassy areas on Jerry's Hill
Agrostis capillaris	Common Bent	Putney Heath, NE of Windmill	TQ232727	-2	21-Sep-18	Native	
Agrostis capillaris	Common Bent	Wimbledon Common	TQ230720	0	14-Jun-19	Native	Just coming into flower. Probably much more frequent
Agrostis capillaris	Common Bent	Wimbledon Common, Stag Bog	TQ219719	-4	04-Jul-19	Native	
Agrostis stolonifera	Creeping Bent	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
Agrostis stolonifera	Creeping Bent	Wimbledon Common	TQ2371	0	27-Sep-18	Native	TQ231687146 Along ditch
Agrostis stolonifera	Creeping Bent	Wimbledon Common, Beverley Bri	TQ214713	0	04-Jul-19	Native	by path on E side
Agrostis stolonifera	Creeping Bent	Wimbledon Common, Kings Mere	TQ232733	0	28-Aug-18	Native	By pond margin
Agrostis stolonifera	Creeping Bent	Wimbledon Common, Queen's Me	TQ226724	0	14-Sep-18	Native	
Agrostis vinealis	Brown Bent	Wimbledon Common	TQ2271	0	05-Oct-18	Native	TQ22667168 In rough grassland by GC S of Gravelly Ride
Ailanthus altissima	Tree-of-heaven	Wimbledon Common	TQ228713	0	1976	Not recorded	Near CH, a number of young trees
Aira praecox	Early Hair-grass	Putney Heath, NW of Windmill	TQ232727	-23	14-Jun-19	Native	TQ23107261 Open area beside path
Aira praecox	Early Hair-grass	Wimbledon Common	TQ2271	-4	29-May-19	Native	TQ22797187 Short mown turf by GC
Aira praecox	Early Hair-grass	Wimbledon Common, Rushmere P	TQ234711	-23	16-May-19	Native	TQ23347111 et al in short turf near pond
Alchemilla xanthochlora	Intermediate Lady's-mantl	Wimbledon Common	TQ225715	0	1950	Not recorded	Grassy waste. Probably as 1949
Alisma plantago-aquatica	Water-plantain	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Alisma plantago-aquatica	Water-plantain	Putney Heath, Scio Pond	TQ228734	0	12-Oct-18	Native	N margin of pond
Alliaria petiolata	Garlic Mustard	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
Alliaria petiolata	Garlic Mustard	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Verge of Wildcroft Rd
Alliaria petiolata	Garlic Mustard	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	Woodland W of Parkside
Allium triquetrum	Three-cornered Garlic	Wimbledon Common	TQ2371	0	23-Jun-15	Not recorded	
Allium ursinum	Ramsons	Wimbledon Common	TQ2272	0	09-May-19	Native	TQ22417293 Small patch on woodland fringe E of cemetery
Allium vineale	Wild Onion	Wimbledon Common	TQ2371	0	23-Jun-15	Native	
Allium vineale	Wild Onion	Wimbledon Common, Rushmere P	TQ234711	0	16-May-19	Native	TQ23617125 N of The Causeway
Alnus cordata	Italian Alder	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Alnus glutinosa	Alder	Putney Heath	TQ228733	0	23-Jun-14	Native	
Alnus glutinosa	Alder	Putney Heath, Scio Pond	TQ228734	-4	12-Oct-18	Native	
Alnus glutinosa	Alder	Wimbledon Common, Kings Mere	TQ232733	-4	28-Aug-18	Native	Around pond margin
Alnus glutinosa	Alder	Wimbledon Common, Queen's Me	TQ226724	-4	14-Sep-18	Native	
Alnus incana	Grey Alder	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Alopecurus geniculatus	Marsh Foxtail	Wimbledon Common	TQ230720	-23	29-May-19	Native	TQ23267270 In seasonally damp depressions in this and other locations in open grassy plain
Alopecurus pratensis	Meadow Foxtail	Putney Heath	TQ2373	-4	24-Apr-19	Native	TQ23533353 In field on S side of A3, SW of Tibbet's Corner
Alopecurus pratensis	Meadow Foxtail	Wimbledon Common	TQ2171	0	04-Jul-19	Native	TQ21757107 Open grassy area W of Warren Farm

Amelanchier lamarckii	Juneberry	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Amelanchier lamarckii	Juneberry	Wimbledon Common, Farm Bog	TQ223713	1	29-Apr-07	Casual	TQ22357126
Anagallis arvensis	Scarlet Pimpernel	Wimbledon Common	TQ21171	-4	04-Jul-19	Native	TQ21597156 Large patch in open disturbed area N of path
Anagallis tenella	Bog Pimpernel	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Unknown	TQ22367127 Very small plant in scrape in N of bog with Drosera rotundifolia, D. intermedia and Erica tetralix. Probably introduced.
Anisantha sterilis	Barren Brome	Putney Heath	TQ2373	-23	24-Apr-19	Established	By path on E side of open area on S side of A3, SW of Tibbet's Corner
Anisantha sterilis	Barren Brome	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Established	Verge of Wildcroft Rd
Anisantha sterilis	Barren Brome	Wimbledon Common	TQ230720	0	14-Jun-19	Not recorded	Rough herbage by ranger's compound
Anthoxanthum odoratum	Sweet Vernal-grass	Wimbledon Common	TQ21171	-23	04-Jul-19	Native	TQ21757107 Open grassy area W of Warren Farm
Anthriscus sylvestris	Cow Parsley	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
Anthriscus sylvestris	Cow Parsley	Putney Heath	TQ229731	-4	12-Oct-18	Native	Jerry's Hill
Anthriscus sylvestris	Cow Parsley	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Verge of Wildcroft Rd
Anthriscus sylvestris	Cow Parsley	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Native	At edge of woodland near Park Side
Anthriscus sylvestris	Cow Parsley	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	Woodland E of Parkside
Anthriscus sylvestris	Cow Parsley	Wimbledon Common, Beverley Br	TQ214713	-4	04-Jul-19	Native	Along banks in shaded areas
Aphanes arvensis	Parsley-piert	Wimbledon Common	TQ2371	0	23-Jun-15	Native	
Aphanes australis	Slender Parsley-piert	Putney, Roehampton Cricket Field	TQ232738	-22	24-Apr-19	Native	In short dry turf
Aphanes australis	Slender Parsley-piert	Wimbledon Common	TQ2271	-23	29-May-19	Native	Short mown turf by GC
Aphanes australis	Slender Parsley-piert	Wimbledon Common, Farm Bog	TQ2271	0	14-Jun-61	Native	E of head of Farm Bog on W edge of large flat golf green.
Arabidopsis thaliana	Thale Cress	Putney Heath	TQ228733	0	23-Jun-14	Native	
Arabidopsis thaliana	Thale Cress	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Base of wall on W side of Telegraph Rd
Arabidopsis thaliana	Thale Cress	Putney Heath, Seven Post Pond	TQ236733	0	24-Apr-19	Native	On pond margin and nearby pavement
Arabidopsis thaliana	Thale Cress	Wimbledon Common	TQ2371	0	23-Jun-15	Native	
Arabidopsis thaliana	Thale Cress	Wimbledon Common, Rushmere P	TQ234711	0	16-May-19	Native	TQ23577121 On anthills in triangular area of rough herbage N of The Causeway
Arctium minus	Lesser Burdock	Putney Heath	TQ2373	0	28-Aug-18	Native	By path E of King's Mere
Arctium minus	Lesser Burdock	Putney Heath	TQ229731	-4	12-Oct-18	Native	Jerry's Hill
Arctium minus	Lesser Burdock	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Native	Verge on N side of Telegraph Rd
Arctium minus	Lesser Burdock	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Native	
Arctium minus	Lesser Burdock	Wimbledon Common	TQ2271	0	29-May-19	Native	TQ22147165 Perimeter of manège
Arctium minus	Lesser Burdock	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Native	On E bank
Armoracia rusticana	Horse-radish	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Armoracia rusticana	Horse-radish	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Open grassy area W of cricket ground
Armoracia rusticana	Horse-radish	Wimbledon Common	TQ2370	0	05-Oct-18	Established	S fringe of common
Arrhenatherum elatius	False Oat-Grass	Putney Heath	TQ2373	-4	24-Apr-19	Native	In herbage between Wimbledon Park Side and woodland to W
Arrhenatherum elatius	False Oat-Grass	Putney Heath, N of A3	TQ232737	-23	24-Apr-19	Native	Verge on N side of Telegraph Rd
Arrhenatherum elatius	False Oat-Grass	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Native	
Arrhenatherum elatius	False Oat-Grass	Wimbledon Common	TQ21171	-4	04-Jul-19	Native	TQ21657160 Perimeter of equestrian manège
Artemisia verlotiorum	Chinese Mugwort	Putney Heath	TQ230725	0	1991	Not recorded	
Artemisia verlotiorum	Chinese Mugwort	Wimbledon Common	TQ230720	0	29-May-19	Established	TQ23057227 Large patch on W side of grassy plain
Artemisia vulgaris	Mugwort	Putney Heath	TQ2373	0	24-Apr-19	Established	By path on E side of open area on S side of A3, SW of Tibbet's Corner
Artemisia vulgaris	Mugwort	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Verge of Telegraph Rd
Artemisia vulgaris	Mugwort	Wimbledon Common	TQ230720	0	14-Jun-19	Native	Rough herbage by path S of windmill
Arum maculatum	Lords-and-Ladies	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Native	Woodland E of cricket pitch
Arum maculatum	Lords-and-Ladies	Wimbledon Common	TQ2272	0	09-May-19	Native	Along shady path E of cemetery
Arum maculatum	Lords-and-Ladies	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Native	Wooded area by path on W side
Asplenium scolopendrium	Hart's-tongue	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Asplenium scolopendrium	Hart's-tongue	Wimbledon Common, Beverley Br	TQ214713	-4	04-Jul-19	Native	A few plants on banks by FP on E side
Asplenium scolopendrium	Hart's-tongue	Wimbledon Common, Plateau Wo	TQ228717	1	04-Mar-17	Native	TQ22937190 On bank by main track
Aster lanceolatus	Narrow-leaved Michaelmas Daisy	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Aster novi-belgii	Confused Michaelmas-daisy	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Aster x salignus	Michaelmas Daisy (A. lanc)	Putney Heath	TQ228733	0	12-Oct-18	Established	Small clump N of Scio Pond
Aster x salignus	Michaelmas Daisy (A. lanc)	Wimbledon Common	TQ2271	0	05-Oct-18	Established	Robin Hood Rd S verge, E of Springwell Cottage
Aster x salignus	Michaelmas Daisy (A. lanc)	Wimbledon Common, Bluegate Po	TQ235718	0	27-Sep-18	Established	W margin of pond
Aster x versicolor	Late Michaelmas Daisy (A. lanc)	Putney Heath	TQ229731	0	Sep-97	Not recorded	"The Hills". One clump, c.10 stems (close to some Helianthus) E slope of northern hill (by Roehampton Lane).
Atriplex patula	Common Orache	Putney Heath	TQ228733	0	23-Jun-14	Native	
Atriplex patula	Common Orache	Wimbledon Common	TQ21171	0	20-Jun-15	Native	
Atriplex prostrata	Spear-leaved Orache	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Native	Verge of Telegraph Rd
Atriplex prostrata	Spear-leaved Orache	Wimbledon Common	TQ2371	0	27-Sep-18	Native	Rough ground on fringe of common near North View
Atropa belladonna	Deadly Nightshade	Putney Heath	TQ230734	0	1950	Not recorded	Grassy shady places.
Azolla filiculoides	Water Fern	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Baldellia ranunculoides	Lesser Water-plantain	Putney Heath	TQ2373	0	1850	Not recorded	No date
Baldellia ranunculoides	Lesser Water-plantain	Wimbledon Common	TQ21171	0	1850	Not recorded	On side towards Roehampton
Ballota nigra	Black Horehound	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
Ballota nigra	Black Horehound	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Established	In Windmill café area
Ballota nigra	Black Horehound	Wimbledon Common	TQ2271	0	29-May-19	Established	N of track by Springwell Cottage
Ballota nigra	Black Horehound	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Native	On path along E bank
Barbarea intermedia	Medium-flowered Winter-cress	Wimbledon Common, Farm Bog	TQ223713	0	1957	Not recorded	TQ27F On waste ground on GC nr Farm Bog.
Barbarea verna	American Winter-cress	Wimbledon Common	TQ21171	0	20-Jun-15	Not recorded	
Barbarea vulgaris	Winter-cress	Wimbledon Common	TQ21171	0	02-Nov-18	Native	TQ21647159 Disturbed ground by equestrian manège
Bellis perennis	Daisy	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
Bellis perennis	Daisy	Putney, Roehampton Cricket Field	TQ232738	-4	24-Apr-19	Native	
Bellis perennis	Daisy	Wimbledon Common	TQ21171	0	04-Jul-19	Native	TQ21597156 Open disturbed area N of path
Bellis perennis	Daisy	Wimbledon Common, Queen's Me	TQ226724	0	09-May-19	Native	On muddy bank

<i>Betula pendula</i>	Silver Birch	Putney Heath	TQ2373	-4	24-Apr-19	Native	In woodland near Kings Mere
<i>Betula pendula</i>	Silver Birch	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Native	
<i>Betula pendula</i>	Silver Birch	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	
<i>Betula pendula</i>	Silver Birch	Wimbledon Common, Farm Bog	TQ223713	-3	05-Oct-18	Native	Mature trees on margin and many seedlings in bog
<i>Betula pubescens</i>	Downy Birch	Putney Heath	TQ2373	-22	24-Apr-19	Native	TQ23397344 Colony of many plants in woodland E of Kings Mere
<i>Betula pubescens</i>	Downy Birch	Putney Heath	TQ229731	-4	12-Oct-18	Native	Jerry's Hill
<i>Betula pubescens</i>	Downy Birch	Putney Heath, NE of Windmill	TQ232727	-23	21-Sep-18	Native	
<i>Betula pubescens</i>	Downy Birch	Putney Heath, NW of Windmill	TQ232727	-23	14-Jun-19	Native	Many saplings encroaching on open area
<i>Betula pubescens</i>	Downy Birch	Wimbledon Common	TQ2371	-4	27-Sep-18	Native	
<i>Betula pubescens</i>	Downy Birch	Wimbledon Common, Queen's Me	TQ226724	0	14-Sep-18	Native	
<i>Betula x aurata</i>	<i>B. pendula</i> x <i>pubescens</i>	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Bidens tripartita</i>	Trifid Bur-marigold	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Bidens tripartita</i>	Trifid Bur-marigold	Wimbledon Common, Bluegate Po	TQ235718	-22	27-Sep-18	Native	Extensive patches on margins and on dried-up pond bed
<i>Bidens tripartita</i>	Trifid Bur-marigold	Wimbledon Common, Kings Mere	TQ232733	0	28-Aug-18	Native	TQ23247325 On pond margins, also a few plants by damp track to NE
<i>Bidens tripartita</i>	Trifid Bur-marigold	Wimbledon Common, Queen's Me	TQ226724	0	14-Sep-18	Native	Small patch on muddy bank on SE margin
<i>Bidens tripartita</i>	Trifid Bur-marigold	Wimbledon Common, Rushmere P	TQ235710	-23	27-Sep-18	Native	Large patches on margins
<i>Blechnum spicant</i>	Hard-fern	Wimbledon Common	TQ227723	1	Sep-98	Native	One young plant by ditch left hand side of path leading down to Queensmere.
<i>Borago officinalis</i>	Borage	Putney Heath	TQ228733	0	23-Jun-14	Neophyte	
<i>Brachypodium sylvaticum</i>	False-brome	Wimbledon Common	TQ2371	0	16-May-19	Native	Wooded area N of North View
<i>Brachypodium sylvaticum</i>	False-brome	Wimbledon Common, Beverley Br	TQ214713	-4	04-Jul-19	Native	Scattered along shaded banks
<i>Bromopsis inermis</i>	Hungarian Brome	Wimbledon Common, Putney Hea	TQ226738	2	Jun-80	Not recorded	2 patches
<i>Bromopsis ramosa</i>	Hairy-brome	Wimbledon Common	TQ2171	0	02-Nov-18	Native	FP E of Beverley Brook
<i>Bromus hordeaceus</i>	Soft-brome	Kingston Vale, Commons Extensio	TQ213715	0	04-Jul-19	Native	Disturbed ground S of Robin Hood Rd by pavillion
<i>Bromus hordeaceus</i>	Soft-brome	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Open grassy area W of cricket ground
<i>Bromus hordeaceus</i>	Soft-brome	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	Along paths
<i>Bromus hordeaceus</i>	Soft-brome	Wimbledon Common, Rushmere P	TQ234711	-22	16-May-19	Native	In abundance on verges of The Causeway
<i>Bryonia dioica</i>	White Bryony	Wimbledon Common	TQ2171	-23	04-Jul-19	Native	TQ21597156 Scrambling over shrubs on perimeter of open disturbed area N of path
<i>Buddleja davidii</i>	Butterfly-bush	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
<i>Buddleja davidii</i>	Butterfly-bush	Wimbledon Common	TQ2271	0	29-May-19	Established	TQ22147165 Perimeter of manège
<i>Buddleja davidii</i>	Butterfly-bush	Wimbledon Common, Stag Bog	TQ219719	0	04-Jul-19	Established	Small plant in formerly boggy area
<i>Calendula officinalis</i>	Pot Marigold	Wimbledon Common	TQ2371	0	23-Jun-15	Not recorded	
<i>Callitriche agg.</i>	Water-starwort	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Callitriche brutia sens. lat.</i>		Wimbledon Common, Fishpond W	TQ2171	0	20-Jun-15	Native	
<i>Callitriche brutia subsp. hamulata</i>	Intermediate Water-starw	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Native	TQ21677167 In brook on W side by logs placed to reduce rate of water flow
<i>Calluna vulgaris</i>	Heather	Putney Heath	TQ2373	-23	28-Aug-18	Native	In open heathy areas
<i>Calluna vulgaris</i>	Heather	Putney Heath, Heathy Clearing	TQ233733	-3	24-Apr-19	Native	
<i>Calluna vulgaris</i>	Heather	Putney Heath, NE of Windmill	TQ232727	-23	21-Sep-18	Native	
<i>Calluna vulgaris</i>	Heather	Wimbledon Common	TQ2271	-4	29-May-19	Native	In rough by GC
<i>Calystegia sepium</i>	Hedge Bindweed	Putney Heath, Scio Pond	TQ228734	0	12-Oct-18	Native	In riparian vegetation
<i>Calystegia silvatica</i>	Large Bindweed	Putney Heath	TQ228733	0	23-Jun-14	Neophyte	
<i>Calystegia silvatica</i>	Large Bindweed	Wimbledon Common	TQ2171	-4	04-Jul-19	Established	TQ21657160 Perimeter of equestrian manege
<i>Calystegia x lucana</i>	<i>C. sepium</i> x <i>silvatica</i>	Wimbledon Common	TQ2171	0	20-Jun-15	Not recorded	
<i>Campanula persicifolia</i>	Peach-leaved Bellflower	Putney Heath	TQ2373	1	1980	Not recorded	TQ2373 or TQ2372 One white flowered plant
<i>Campanula poscharskyana</i>	Trailing Bellflower	Wimbledon Common	TQ2171	0	20-Jun-15	Not recorded	
<i>Capsella bursa-pastoris</i>	Shepherd's-purse	Putney Heath	TQ2373	0	24-Apr-19	Established	By path on E side of open area on S side of A3, SW of Tibbet's Corner
<i>Capsella bursa-pastoris</i>	Shepherd's-purse	Wimbledon Common	TQ230720	0	14-Jun-19	Established	In ranger's compound
<i>Cardamine flexuosa</i>	Wavy Bitter-cress	Putney Heath	TQ229731	0	12-Oct-18	Native	Curling Pond
<i>Cardamine flexuosa</i>	Wavy Bitter-cress	Wimbledon Common	TQ2271	0	29-May-19	Native	TQ22147165 Perimeter of manège
<i>Cardamine flexuosa</i>	Wavy Bitter-cress	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Native	
<i>Cardamine flexuosa</i>	Wavy Bitter-cress	Wimbledon Common, Kings Mere	TQ232733	-4	24-Apr-19	Native	
<i>Cardamine flexuosa</i>	Wavy Bitter-cress	Wimbledon Common, Queen's Me	TQ226724	-4	14-Sep-18	Native	On muddy banks
<i>Cardamine hirsuta</i>	Hairy Bitter-cress	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
<i>Cardamine hirsuta</i>	Hairy Bitter-cress	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Native	Verge of Telegraph Rd
<i>Cardamine hirsuta</i>	Hairy Bitter-cress	Wimbledon Common	TQ2371	0	23-Jun-15	Native	
<i>Cardamine pratensis</i>	Cuckooflower	Putney Heath, Seven Post Pond	TQ236733	1	24-Apr-19	Native	TQ23607329 On S edge of pond
<i>Carduus crispus</i>	Wetted Thistle	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Established	TQ21477152 A few plants on paths by FB
<i>Carex binervis</i>	Green-ribbed Sedge	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Carex binervis</i>	Green-ribbed Sedge	Wimbledon Common, Farm Bog	TQ223713	0	1950	Not recorded	TQ27F
<i>Carex demissa</i>	Common Yellow-sedge	Wimbledon Common	TQ2171	0	20-Jun-15	Native	
<i>Carex demissa</i>	Common Yellow-sedge	Wimbledon Common, Stag Bog	TQ219719	-4	04-Jul-19	Native	TQ21957196 and TQ21887199. Several scattered plants in seasonally damp depressions in formerly boggy area
<i>Carex disticha</i>	Brown Sedge	Wimbledon Common, Stag Bog	TQ2271	0	1936	Not recorded	TQ27A HLPLA
<i>Carex divulsa subsp. divulsa</i>	Grey Sedge	Putney Heath	TQ228733	0	12-Oct-18	Native	NW fringe of common on E verge of Treville Rd
<i>Carex divulsa subsp. divulsa</i>	Grey Sedge	Wimbledon Common	TQ230720	0	14-Jun-19	Native	By ranger's office
<i>Carex echinata</i>	Star Sedge	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Native	TQ22357129 and TQ22377128 Small patches in scrapes in N parts of bog
<i>Carex hirta</i>	Hairy Sedge	Putney Heath	TQ2373	0	28-Aug-18	Native	Patch in open grassland E of King's Mere
<i>Carex hirta</i>	Hairy Sedge	Putney Heath	TQ229731	0	12-Oct-18	Native	Jerry's Hill
<i>Carex hirta</i>	Hairy Sedge	Wimbledon Common	TQ2171	-23	04-Jul-19	Native	TQ21687152 Open grassy area
<i>Carex hirta</i>	Hairy Sedge	Wimbledon Common, Putney Hea	TQ226738	-4	05-Jul-12	Not recorded	
<i>Carex leporina</i>	Oval Sedge	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Carex leporina</i>	Oval Sedge	Wimbledon Common	TQ230720	-23	14-Jun-19	Native	Many extensive patches particularly on margins of open plain
<i>Carex leporina</i>	Oval Sedge	Wimbledon Common, Queen's Me	TQ226724	0	14-Sep-18	Native	Small patch on S margin
<i>Carex leporina</i>	Oval Sedge	Wimbledon Common, Stag Bog	TQ219719	0	04-Jul-19	Native	

Carex muricata subsp. pairae	Prickly Sedge	Wimbledon Common, Beverley Bri	TQ214713	0	04-Jul-19	Native	Small patch by FP on E bank
Carex nigra	Common Sedge	Putney Heath, NW of Windmill	TQ232727	0	14-Jun-19	Native	TQ23217293 In open heathy area
Carex nigra	Common Sedge	Wimbledon Common	TQ230720	0	29-May-19	Native	TQ23267270 In large grassy plain
Carex panicea	Carnation Sedge	Wimbledon Common, Farm Bog	TQ223713	0	1948	Not recorded	
Carex pendula	Pendulous Sedge	Putney Heath	TQ2373	0	24-Apr-19	Native	Few tufts in herbage between Wimbledon Park Side and woodland to W
Carex pendula	Pendulous Sedge	Putney Heath	TQ229731	0	12-Oct-18	Native	Jerry's Hill
Carex pendula	Pendulous Sedge	Putney Heath, N of A3	TQ232737	-3	28-Aug-18	Native	Along path on N side of reservoirs
Carex pendula	Pendulous Sedge	Wimbledon Common	TQ230720	0	14-Jun-19	Native	Woodland W of Parkside
Carex pendula	Pendulous Sedge	Wimbledon Common, Beverley Bri	TQ214713	-23	04-Jul-19	Native	Many plants along banks
Carex pendula	Pendulous Sedge	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Native	S margin under tree cover
Carex pendula	Pendulous Sedge	Wimbledon Common, Queen's Me	TQ226724	0	14-Sep-18	Native	
Carex pilulifera	Pill Sedge	Putney Heath	TQ2373	-4	24-Apr-19	Native	TQ23227310 On heathy path
Carex pilulifera	Pill Sedge	Wimbledon Common, Queen's Me	TQ226724	0	09-May-19	Native	TQ22657249 Bank on N side
Carex pulicaris	Flea Sedge	Wimbledon Common, Farm Bog	TQ223713	0	1946	Not recorded	TQ27F Farm bog. Believed gone in 1963, RAB
Carex remota	Remote Sedge	Putney Heath	TQ2373	0	28-Aug-18	Native	By path near King's Mere
Carex remota	Remote Sedge	Wimbledon Common	TQ2272	0	14-Sep-18	Native	By path E of cemetery
Carex remota	Remote Sedge	Wimbledon Common, Beverley Bri	TQ214713	0	04-Jul-19	Native	Small patch on E bank
Carex rostrata	Bottle Sedge	Wimbledon Common, Bluegate Po	TQ235718	-23	15-May-19	Established	TQ23447169 Large well-established population in shallow water on NW margin
Carex sylvatica	Wood-sedge	Wimbledon Common	TQ2272	0	09-May-19	Native	TQ22417293 Woodland fringe E of cemetery
Carex sylvatica	Wood-sedge	Wimbledon Common, Queen's Me	TQ226724	0	14-Sep-18	Native	Small patch on S bank
Carex sylvatica	Wood-sedge	Wimbledon Common, Stag Bog	TQ219719	-4	04-Jul-19	Native	
Carpinus betulus	Hornbeam	Putney Heath	TQ2373	1	28-Aug-18	Casual	Self-sown on E side, by boundary with A219
Carpinus betulus	Hornbeam	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Native	Small tree on verge of Telegraph Rd
Carpinus betulus	Hornbeam	Wimbledon Common	TQ2272	-4	14-Sep-18	Established	By path in woodland SE of cemetery
Carpinus betulus	Hornbeam	Wimbledon Common, Beverley Bri	TQ214713	0	04-Jul-19	Casual	Self-sown on top of retaining walls on E side
Castanea sativa	Sweet Chestnut	Putney Heath	TQ2373	0	24-Apr-19	Established	In woodland near Kings Mere
Castanea sativa	Sweet Chestnut	Wimbledon Common	TQ230720	0	14-Jun-19	Established	Self-sown from mature tree in woodland W of Parkside
Centaurea montana	Perennial Cornflower	Wimbledon Common	TQ2171	1	1985	Not recorded	TQ215715 Apparently naturalised
Centaurea nigra	Common Knapweed	Putney Heath	TQ2373	0	24-Apr-19	Native	On open track
Centaurea nigra	Common Knapweed	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	TQ21757107 Open grassy area W of Warren Farm
Centaurea nigra	Common Knapweed	Wimbledon Common, Rushmere P	TQ234711	0	16-May-19	Native	In area of rough herbage in triangular area N of The Causeway
Centranthus ruber	Red Valerian	Wimbledon Common	TQ2371	0	23-Jun-15	Not recorded	
Cerastium arvense	Field Mouse-ear	Wimbledon Common	TQ230720	0	1950	Not recorded	TQ27G SE of Windmill, on waste ground. B. Welch considered adventive
Cerastium fontanum	Common Mouse-ear	Putney Heath	TQ228733	0	23-Jun-14	Native	
Cerastium fontanum	Common Mouse-ear	Putney Heath	TQ229731	0	12-Oct-18	Native	Jerry's Hill
Cerastium fontanum	Common Mouse-ear	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Verge of Telegraph Rd
Cerastium fontanum	Common Mouse-ear	Wimbledon Common	TQ230720	0	14-Jun-19	Native	Beside ditch SE of windmill
Cerastium glomeratum	Sticky Mouse-ear	Putney Heath	TQ228733	0	23-Jun-14	Native	
Cerastium glomeratum	Sticky Mouse-ear	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Native	Verge of Telegraph Rd
Cerastium glomeratum	Sticky Mouse-ear	Putney Heath, NE of Windmill	TQ232727	1	21-Sep-18	Native	In Windmill café area
Cerastium glomeratum	Sticky Mouse-ear	Wimbledon Common	TQ2271	-23	29-May-19	Native	In short mown turf on GC
Cerastium semidecandrum	Little Mouse-ear	Wimbledon Common	TQ2271	0	29-May-19	Native	TQ22897153 Open area E of Windmill Rd
Cerastium semidecandrum	Little Mouse-ear	Wimbledon Common, Rushmere P	TQ234711	-4	16-May-19	Native	Short turf W of pond
Ceratocarpus claviculata	Climbing Corydalis	Wimbledon Common	TQ2272	0	09-May-19	Native	TQ22417226 Large patch by path N of Capital Ring
Ceratocarpus claviculata	Climbing Corydalis	Wimbledon Common, Farm Bog	TQ223713	0	1961	Not recorded	TQ27F Both sides of head of Bog
Ceratochloa carinata	California Brome	Putney Heath	TQ228733	0	12-Oct-18	Established	TQ22897356 Patch on fringe of heath at W end of Portsmouth Rd
Ceratochloa carinata	California Brome	Wimbledon Common	TQ230720	0	14-Jun-19	Established	TQ235272030 Woodland perimeter W of Parkside
Ceratochloa cathartica	Rescue Brome	Wimbledon Common	TQ2371	-4	27-Sep-18	Not recorded	TQ231197133 Several clumps on rough ground on fringe of common by North View
Ceratophyllum demersum	Rigid Hornwort	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Ceratophyllum demersum	Rigid Hornwort	Putney Heath, Seven Post Pond	TQ236733	0	1956	Not recorded	TQ27G Park Side Wimbledon nr. Tibbett's Corner.
Ceratophyllum demersum	Rigid Hornwort	Wimbledon Common, Queen's Me	TQ226724	0	14-Sep-18	Native	TQ22607252 Small fragment examined on N margin of pond
Chamaemelum nobile	Chamomile	Putney, Roehampton Cricket Field	TQ232738	-22	28-Aug-18	Native	TQ23247383 Many patches on E & N side of pitches
Chamerion angustifolium	Rosebay Willowherb	Putney Heath	TQ2373	0	28-Aug-18	Established	
Chamerion angustifolium	Rosebay Willowherb	Putney Heath, Heathy Clearing	TQ233733	0	24-Apr-19	Established	
Chamerion angustifolium	Rosebay Willowherb	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Established	eg: TQ23257290
Chamerion angustifolium	Rosebay Willowherb	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	In rough herbage
Chamerion angustifolium	Rosebay Willowherb	Wimbledon Common, Farm Bog	TQ223713	-4	05-Oct-18	Native	
Chelidonium majus	Greater Celandine	Putney Heath	TQ228733	0	23-Jun-14	Archaeophyte	
Chelidonium majus	Greater Celandine	Wimbledon Common	TQ2171	0	02-Nov-18	Established	TQ21607156 On dumped material
Chenopodium album	Fat-hen	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Native	In Windmill café area
Chenopodium album	Fat-hen	Wimbledon Common	TQ2271	0	05-Oct-18	Native	By path from TQ22977200 S to TQ22887159
Chenopodium rubrum	Red Goosefoot	Wimbledon Common	TQ2371	0	27-Sep-18	Casual	TQ23157149 Beside path N of ditch
Circaea lutetiana	Enchanter's-nightshade	Putney Heath	TQ2373	0	24-Apr-19	Native	In woodland W of Wimbledon Park Side
Circaea lutetiana	Enchanter's-nightshade	Wimbledon Common	TQ2271	-4	29-May-19	Native	Wooded areas
Circaea lutetiana	Enchanter's-nightshade	Wimbledon Common, Beverley Bri	TQ214713	-4	04-Jul-19	Native	Along banks in shaded areas
Circaea lutetiana	Enchanter's-nightshade	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Native	Under tree cover on S margin
Circaea lutetiana	Enchanter's-nightshade	Wimbledon Common, Stag Bog	TQ219719	-4	04-Jul-19	Native	
Cirsium arvense	Creeping Thistle	Putney Heath	TQ2373	0	24-Apr-19	Native	In field on S side of A3, SW of Tibbett's Corner
Cirsium arvense	Creeping Thistle	Putney Heath	TQ229731	-4	12-Oct-18	Native	Jerry's Hill
Cirsium arvense	Creeping Thistle	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Native	Verge on N side of Telegraph Rd
Cirsium arvense	Creeping Thistle	Wimbledon Common	TQ2171	-23	04-Jul-19	Native	TQ21757107 Open grassy area W of Warren Farm
Cirsium dissectum	Meadow Thistle	Wimbledon Common, Farm Bog	TQ223713	1	1950	Not recorded	One plant.

<i>Cirsium palustre</i>	Marsh Thistle	Wimbledon Common	TQ2171	0	04-Jul-19 Native	TQ21797105 Damp margin of open grassy area W of Warren Farm
<i>Cirsium palustre</i>	Marsh Thistle	Wimbledon Common, Farm Bog	TQ223713	-4	29-May-19 Native	Scattered in bog
<i>Cirsium vulgare</i>	Spear Thistle	Putney Heath	TQ228733	0	23-Jun-14 Native	
<i>Cirsium vulgare</i>	Spear Thistle	Putney Heath	TQ229731	0	12-Oct-18 Native	Jerry's Hill
<i>Cirsium vulgare</i>	Spear Thistle	Putney Heath, N of A3	TQ232737	0	24-Apr-19 Native	Verge of Telegraph Rd
<i>Cirsium vulgare</i>	Spear Thistle	Wimbledon Common	TQ2171	0	04-Jul-19 Native	TQ21657160 Perimeter of equestrian manege
<i>Claytonia perfoliata</i>	Springbeauty	Wimbledon Common	TQ2371	-23	16-May-19 Established	TQ23657120 Under trees on W side of The Green
<i>Clematis vitalba</i>	Traveller's-joy	Wimbledon Common	TQ2171	0	20-Jun-15 Native	
<i>Cochlearia danica</i>	Danish Scurvygrass	Wimbledon Common	TQ2171	0	20-Jun-15 Native	
<i>Conium maculatum</i>	Hemlock	Putney Heath	TQ2373	-23	24-Apr-19 Established	By path on E side of open area on S side of A3, SW of Tibbet's Corner
<i>Conium maculatum</i>	Hemlock	Wimbledon Common	TQ2271	0	29-May-19 Established	N side of Windmill Rd near Springwell Cottage
<i>Convolvulus arvensis</i>	Field Bindweed	Putney Heath	TQ228733	0	23-Jun-14 Native	
<i>Convolvulus arvensis</i>	Field Bindweed	Wimbledon Common	TQ2271	0	05-Oct-18 Native	TQ22677133 Robin Hood Rd verge, E of Springwell Cottage
<i>Conyza canadensis</i>	Canadian Fleabane	Putney Heath	TQ230725	0	10-Sep-00 Not recorded	
<i>Conyza canadensis</i>	Canadian Fleabane	Putney Heath, NE of Windmill	TQ232727	1	21-Sep-18 Casual	Small plant in Windmill café area
<i>Conyza sumatrensis</i>	Guernsey Fleabane	Kingston Vale, Commons Extension	TQ213715	0	04-Jul-19 Established	N verge of access road
<i>Conyza sumatrensis</i>	Guernsey Fleabane	Wimbledon Common	TQ2271	0	05-Oct-18 Established	By car park by Springwell Cottage
<i>Cornus sanguinea</i>	Dogwood	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19 Casual	Self-sown on top of retaining walls on E side
<i>Corylus avellana</i>	Hazel	Putney Heath	TQ2273	0	21-Feb-19 Not recorded	
<i>Corylus avellana</i>	Hazel	Wimbledon Common	TQ2171	-4	02-Nov-18 Native	
<i>Crassula helmsii</i>	New Zealand Pigmyweed	Putney Heath	TQ230725	0	10-Sep-00 Not recorded	
<i>Crassula helmsii</i>	New Zealand Pigmyweed	Putney Heath	TQ229731	-22	12-Oct-18 Established	TQ22742308 Curling Pond
<i>Crassula helmsii</i>	New Zealand Pigmyweed	Putney Heath, Seven Post Pond	TQ236733	-2	24-Apr-19 Established	
<i>Crassula helmsii</i>	New Zealand Pigmyweed	Wimbledon Common	TQ2371	0	23-Jun-15 Not recorded	
<i>Crassula helmsii</i>	New Zealand Pigmyweed	Wimbledon Common, Fishpond W	TQ2171	0	20-Jun-15 Not recorded	
<i>Crassula helmsii</i>	New Zealand Pigmyweed	Wimbledon Common, Kings Mere	TQ232733	0	Sep-91 Not recorded	In nearly dried up pond
<i>Crassula helmsii</i>	New Zealand Pigmyweed	Wimbledon Common, Rushmere P	TQ235710	-21	27-Sep-18 Established	Covering larges areas of dried-up pond bed
<i>Crataegus monogyna</i>	Hawthorn	Putney Heath	TQ2373	-3	24-Apr-19 Native	By open area on S side of A3, SW of Tibbet's Corner
<i>Crataegus monogyna</i>	Hawthorn	Putney Heath	TQ229731	-4	12-Oct-18 Native	Jerry's Hill
<i>Crataegus monogyna</i>	Hawthorn	Putney Heath, N of A3	TQ232737	-4	24-Apr-19 Native	In woodland W of reservoir
<i>Crataegus monogyna</i>	Hawthorn	Wimbledon Common	TQ2271	-4	29-May-19 Native	In scrub by WC
<i>Crataegus persimilis</i>	Broad-leaved Cockspurtho	Putney Heath	TQ230725	0	10-Sep-00 Not recorded	
<i>Crepis biennis</i>	Rough Hawk's-beard	Wimbledon Common	TQ230720	0	14-Jun-19 Native	TQ23447210 Tall plant in rough herbage
<i>Crepis capillaris</i>	Smooth Hawk's-beard	Putney Heath	TQ228733	0	23-Jun-14 Native	
<i>Crepis capillaris</i>	Smooth Hawk's-beard	Putney Heath	TQ229731	0	12-Oct-18 Native	Jerry's Hill
<i>Crepis capillaris</i>	Smooth Hawk's-beard	Wimbledon Common	TQ2271	0	29-May-19 Native	TQ22607134 Rough grassy area by Springwell Cottage
<i>Crepis vesicaria</i>	Beaked Hawk's-beard	Putney Heath	TQ2373	-4	24-Apr-19 Established	By path on E side of open area on S side of A3, SW of Tibbet's Corner
<i>Crepis vesicaria</i>	Beaked Hawk's-beard	Wimbledon Common	TQ2271	0	29-May-19 Established	N side of Windmill Rd near Springwell Cottage
<i>Crocus tomasianianus x vernus</i>		Wimbledon Common, Cannizaro P	TQ231711	0	02-Feb-95 Not recorded	Many plants in with a very extensive colony of <i>C. tomasianus</i> & lesser number of <i>C. vernus</i> . May have arisen naturally
<i>Cuscuta epithymum</i>	Dodder	Wimbledon Common	TQ230720	0	1950 Not recorded	Northeast of the Windmill, on Calluna
<i>Cymbalaria muralis</i>	Ivy-leaved Toadflax	Wimbledon Common	TQ2370	0	15-Mar-14 Not recorded	
<i>Cynoglossum officinale</i>	Hound's-tongue	Wimbledon Common	TQ2271	0	1950 Native	TQ26F Grassy place N of Warren Farm
<i>Cynosurus cristatus</i>	Crested Dog's-tail	Wimbledon Common	TQ230720	0	14-Jun-19 Native	In lawn in ranger's compound
<i>Cyperus longus</i>	Galingale	Putney Heath	TQ230725	0	10-Sep-00 Not recorded	
<i>Cyperus longus</i>	Galingale	Putney Heath	TQ229731	0	12-Oct-18 Established	TQ22867307 Large patch on E side of Jerry's Hill
<i>Cyperus longus</i>	Galingale	Wimbledon Common, Bluegate Po	TQ235718	0	25-Sep-83 Not recorded	NE corner of pond
<i>Cytisus scoparius</i>	Broom	Wimbledon Common, Rushmere P	TQ234711	0	16-May-19 Native	Triangular area N of The Causeway
<i>Dactylis glomerata</i>	Cock's-foot	Putney Heath	TQ2373	0	24-Apr-19 Native	By path on E side of open area on S side of A3, SW of Tibbet's Corner
<i>Dactylis glomerata</i>	Cock's-foot	Putney Heath	TQ229731	0	12-Oct-18 Native	Jerry's Hill
<i>Dactylis glomerata</i>	Cock's-foot	Putney Heath, NE of Windmill	TQ232727	-3	21-Sep-18 Native	
<i>Dactylis glomerata</i>	Cock's-foot	Putney, Roehampton Cricket Field	TQ232738	-4	24-Apr-19 Native	In outfield
<i>Dactylis glomerata</i>	Cock's-foot	Wimbledon Common	TQ230720	-23	14-Jun-19 Native	In rough herbage
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	Wimbledon Common	TQ230720	30	06-Jun-09 Native	TQ23107198
<i>Dactylorhiza praetermissa</i>	Southern Marsh-orchid	Wimbledon Common	TQ230720	1	29-May-19 Native	TQ23217215 One plant seen in open grassy plain
<i>Dactylorhiza praetermissa</i>	Southern Marsh-orchid	Wimbledon Common, Farm Bog	TQ223713	2	1941 Not recorded	TQ27F
<i>Damasonium alisma</i>	Starfruit	Putney Heath	TQ2373	0	1835 Not recorded	Putney Heath, E. Browne, In Herb NHM
<i>Danthonia decumbens</i>	Heath-grass	Wimbledon Common	TQ230720	0	14-Jun-19 Native	TQ 23522 72030
<i>Daucus carota subsp. carota</i>	Wild Carrot	Putney Heath	TQ228733	0	23-Jun-14 Native	
<i>Deschampsia cespitosa</i>	Tufted Hair-grass	Wimbledon Common	TQ2272	0	14-Sep-18 Native	By path in woodland E of cemetery
<i>Deschampsia flexuosa</i>	Wavy Hair-grass	Wimbledon Common	TQ230720	-4	29-May-19 Native	In open grassy plain
<i>Digitalis purpurea</i>	Foxglove	Wimbledon Common	TQ230720	0	14-Jun-19 Native	TQ23467206 Small patch in woodland W of Parkside. Pure white form among usual shade
<i>Dipsacus fullonum</i>	Wild Teasel	Putney Heath	TQ2373	0	24-Apr-19 Native	
<i>Dipsacus fullonum</i>	Wild Teasel	Wimbledon Common	TQ2272	0	14-Sep-18 Native	
<i>Drosera intermedia</i>	Oblong-leaved Sundew	Wimbledon Common, Farm Bog	TQ223713	-4	29-May-19 Unknown	TQ22377128, TQ22367127 Several plants in wet scrapes. With <i>D. rotundifolia</i>
<i>Drosera rotundifolia</i>	Round-leaved Sundew	Wimbledon Common	TQ225715	8	1950 Native	TQ27, B1
<i>Drosera rotundifolia</i>	Round-leaved Sundew	Wimbledon Common, Farm Bog	TQ223713	-4	29-May-19 Unknown	TQ22377128, TQ22367127 Several plants in wet scrapes. With <i>D. intermedia</i>
<i>Dryopteris carthusiana</i>	Narrow Buckler-Fern	Wimbledon Common, Farm Bog	TQ223713	-4	29-May-19 Native	Scattered plants in bog
<i>Dryopteris carthusiana</i>	Narrow Buckler-Fern	Wimbledon Common, Stag Bog	TQ2271	0	14-May-46 Native	Near Stag Bog stream.
<i>Dryopteris dilatata</i>	Broad Buckler-fern	Putney Heath	TQ2373	0	24-Apr-19 Native	TQ73527300 In woodland W of Wimbledon Park Side
<i>Dryopteris dilatata</i>	Broad Buckler-fern	Putney Heath	TQ229731	0	12-Oct-18 Native	Jerry's Hill
<i>Dryopteris dilatata</i>	Broad Buckler-fern	Wimbledon Common	TQ2272	-4	14-Sep-18 Native	Wooded areas
<i>Dryopteris dilatata</i>	Broad Buckler-fern	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19 Native	On S margin under tree cover

Dryopteris filix-mas	Male-fern	Putney Heath	TQ2373	0	28-Aug-18	Native	In woodland near King's Mere
Dryopteris filix-mas	Male-fern	Putney Heath	TQ229731	0	12-Oct-18	Native	
Dryopteris filix-mas	Male-fern	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	Woodland W of Parkside
Dryopteris filix-mas	Male-fern	Wimbledon Common, Beverley Bri	TQ214713	-4	04-Jul-19	Native	Scattered along banks
Dryopteris filix-mas	Male-fern	Wimbledon Common, Kings Mere	TQ232733	-4	24-Apr-19	Native	In herbage near pond
Dryopteris filix-mas	Male-fern	Wimbledon Common, Queen's Me	TQ226724	0	14-Sep-18	Native	
Dryopteris filix-mas	Male-fern	Wimbledon Common, Stag Bog	TQ219719	0	04-Jul-19	Native	A few small clumps in formerly boggy area
Eleocharis acicularis	Needle Spike-rush	Putney Heath	TQ228731	0	1963	Not recorded	Plentifully by pond. Hb. BWU. LNHS Card Index
Eleocharis multicaulis	Many-stalked Spike-rush	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Unknown	TQ22377127 In scrape in N part of bog
Eleocharis palustris	Common Spike-rush	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Eleocharis palustris	Common Spike-rush	Putney Heath, Seven Post Pond	TQ236733	0	28-Aug-18	Native	Good patch at E edge
Eleocharis palustris	Common Spike-rush	Wimbledon Common	TQ230720	-23	29-May-19	Native	TQ23087225 Patch 10m x 2m in seasonally damp depression. A few more more outlying patches.
Eleogiton fluitans	Floating Club-rush	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Eleogiton fluitans	Floating Club-rush	Wimbledon Common, Bluegate Po	TQ235718	-23	14-Jun-19	Native	TQ23447168 Shallow margins in S part of pond
Eleogiton fluitans	Floating Club-rush	Wimbledon Common, Hookhamsl	TQ231718	-22	29-Apr-07	Native	TQ23447180. Abundant in Hookhamslade Pond.
Elodea nuttallii	Nuttall's Waterweed	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Elodea nuttallii	Nuttall's Waterweed	Wimbledon Common	TQ2171	0	20-Jun-15	Not recorded	Beverley Brook
Elytrigia repens	Common Couch	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
Elytrigia repens	Common Couch	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	TQ21657160 Perimeter of equestrian manege
Epilobium ciliatum	American Willowherb	Putney Heath	TQ228733	0	12-Oct-18	Established	TQ22887346 Shady path behind gardens of Beaufort Close
Epilobium ciliatum	American Willowherb	Wimbledon Common	TQ2171	0	04-Jul-19	Established	TQ21657160 Perimeter of equestrian manege
Epilobium ciliatum	American Willowherb	Wimbledon Common, Kings Mere	TQ232733	0	28-Aug-18	Established	By pond margin
Epilobium hirsutum	Great Willowherb	Putney Heath	TQ228733	0	23-Jun-14	Native	
Epilobium hirsutum	Great Willowherb	Putney Heath	TQ229731	0	12-Oct-18	Native	TQ22742308 Curling Pond
Epilobium hirsutum	Great Willowherb	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Native	By path on N side of reservoirs
Epilobium hirsutum	Great Willowherb	Putney Heath, Seven Post Pond	TQ236733	0	24-Apr-19	Native	On mud by pond
Epilobium hirsutum	Great Willowherb	Wimbledon Common	TQ2171	-23	02-Nov-18	Native	
Epilobium hirsutum	Great Willowherb	Wimbledon Common, Beverley Bri	TQ214713	0	04-Jul-19	Native	TQ21677167 In silt built up around berms and logs
Epilobium hirsutum	Great Willowherb	Wimbledon Common, Queen's Me	TQ226724	-4	14-Sep-18	Native	
Epilobium hirsutum	Great Willowherb	Wimbledon Common, Stag Bog	TQ219719	0	04-Jul-19	Native	
Epilobium montanum	Broad-leaved Willowherb	Putney Heath	TQ228733	0	12-Oct-18	Native	TQ22887346 Shady path behind gardens of Beaufort Close
Epilobium montanum	Broad-leaved Willowherb	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Native	Base of wall on W side of Telegraph Rd
Epilobium montanum	Broad-leaved Willowherb	Wimbledon Common	TQ230720	0	14-Jun-19	Native	By path in woodland W of Parkside
Epilobium montanum	Broad-leaved Willowherb	Wimbledon Common, Kings Mere	TQ232733	0	24-Apr-19	Native	In herbage near pond
Epilobium montanum	Broad-leaved Willowherb	Wimbledon Common, Stag Bog	TQ219719	0	04-Jul-19	Native	TQ21977192 Robust plant in seasonally damp depression in formerly boggy area
Epilobium obscurum	Short-fruited Willowherb	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Native	By path on S side of reservoirs
Epilobium obscurum	Short-fruited Willowherb	Wimbledon Common	TQ2171	0	20-Jun-15	Native	
Epilobium obscurum	Short-fruited Willowherb	Wimbledon Common, Rushmere P	TQ235710	0	27-Sep-18	Native	Pond margin
Epilobium obscurum	Short-fruited Willowherb	Wimbledon Common, Stag Bog	TQ219719	0	04-Jul-19	Native	
Epilobium parviflorum	Hoary Willowherb	Wimbledon Common	TQ2371	0	27-Sep-18	Native	TQ231687146 By ditch
Epilobium parviflorum	Hoary Willowherb	Wimbledon Common, Stag Bog	TQ219719	-4	04-Jul-19	Native	
Epilobium roseum	Pale Willowherb	Putney Heath, Seven Post Pond	TQ236733	1	15-Sep-11	Native	
Epilobium tetragonum	Square-stalked Willowherb	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Native	By road on W side of reservoirs
Equisetum arvense	Field Horsetail	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Equisetum arvense	Field Horsetail	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Native	By fence on W side of reservoirs
Equisetum arvense	Field Horsetail	Wimbledon Common	TQ230720	-23	14-Jun-19	Native	Among rough herbage by path S of windmill
Equisetum telmateia	Great Horsetail	Wimbledon Common, Queen's Me	TQ226724	0	1965	Native	NW end of Mere.
Erica cinerea	Bell Heather	Wimbledon Common	TQ224723	15	Jul-03	Not recorded	Small linear clump flowering but not increasing in number, on a steep slope, west side of golf fairway in acid grassland.
Erica tetralix	Cross-leaved Heath	Putney Heath, NW of Windmill	TQ232727	-23	14-Jun-19	Native	TQ23147295 Many plants in wet depression in this and other nearby locations
Erica tetralix	Cross-leaved Heath	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Unknown	TQ22367127 Very small plant in scrape in N of bog with <i>Drosera rotundifolia</i> , <i>D. intermedia</i> and <i>Anagallis tenella</i> . Probably introduced
Erodium cicutarium	Common Stork's-bill	Wimbledon Common	TQ2271	0	05-Oct-18	Native	By path between White Cottage and Springwell Cottage
Erophila verna	Common Whitlowgrass	Wimbledon Common, Rushmere P	TQ234711	0	16-May-19	Native	Short turf W of pond
Euphorbia peplus	Petty Spurge	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Established	On pile of debris by car park on S side of reservoirs
Euphorbia peplus	Petty Spurge	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Established	In Windmill café area
Euphorbia peplus	Petty Spurge	Wimbledon Common	TQ230720	0	14-Jun-19	Established	By path in woodland W of Parkside
Fagus sylvatica	Beech	Putney Heath	TQ2373	0	24-Apr-19	Native	In woodland W of Wimbledon Park Side
Fagus sylvatica	Beech	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Native	Large sapling in woodland near Park Side
Fagus sylvatica	Beech	Wimbledon Common	TQ230720	0	14-Jun-19	Unknown	Woodland E of Parkside
Fallopia convolvulus	Black-bindweed	Putney Heath, Scio Pond	TQ228734	0	12-Oct-18	Casual	On bed of pond where water has retreated after summer drought
Fallopia dumetorum	Copse-bindweed	Wimbledon Common	TQ221721	-7	24-Aug-03	Not recorded	Not seen near Stag Bog
Fallopia dumetorum	Copse-bindweed	Wimbledon Common, Stag Lane	TQ223720	-7	21-Aug-05	Not recorded	
Fallopia japonica	Japanese Knotweed	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Fallopia japonica	Japanese Knotweed	Wimbledon Common, Farm Bog	TQ223713	0	14-Jun-61	Established	Dumped earth nr E entrance to Caesar's camp, small clump
Festuca filiformis	Fine-leaved Sheep's-fescue	Putney Heath	TQ2373	-4	24-Apr-19	Native	By open paths
Festuca filiformis	Fine-leaved Sheep's-fescue	Putney Heath	TQ229731	0	12-Oct-18	Native	S bank of Curling Pond
Festuca filiformis	Fine-leaved Sheep's-fescue	Wimbledon Common	TQ230720	-3	29-May-19	Native	Frequent and widespread in open grassy plain
Festuca ovina	Sheep's-fescue	Wimbledon Common	TQ228713	0	18-Apr-09	Native	TQ22697133 N of W end of Robin Hood Road, S of bench overlooking grassy triangular island E of Springwell Cottage. In short turf on S facing slope
Festuca rubra	Red Fescue	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
Festuca rubra	Red Fescue	Wimbledon Common	TQ230720	-3	14-Jun-19	Native	In open grassy plain
Festuca rubra	Red Fescue	Wimbledon Common, Rushmere P	TQ234711	-22	16-May-19	Native	In abundance near pond
Festuca rubra agg.	Red Fescue	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Festuca rubra subsp. rubra	Red Fescue	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	

Ficaria verna	Lesser Celandine	Putney Heath	TQ2373	0	24-Apr-19	Native	By path on E side of open area on S side of A3, SW of Tibbet's Corner
Ficaria verna	Lesser Celandine	Wimbledon Common	TQ2271	0	22-Mar-14	Not recorded	
Ficaria verna subsp. fertilis	Lesser Celandine	Putney Heath	TQ2373	0	24-Apr-19	Native	TQ23567303 In herbage between Wimbledon Park Side and woodland to W
Ficaria verna subsp. fertilis	Lesser Celandine	Wimbledon Common	TQ2272	0	09-May-19	Native	TQ22417293 Woodland fringe E of cemetery
Ficaria verna subsp. verna	Lesser Celandine	Putney Heath, N of A3	TQ232737	-23	24-Apr-19	Native	Woodland N of cricket ground
Ficaria verna subsp. verna	Lesser Celandine	Wimbledon Common	TQ2272	0	09-May-19	Native	TQ22077212 Wooded area S of allotments
Frangula alnus	Alder Buckthorn	Wimbledon Common, Farm Bog	TQ2271	0	14-Jun-61	Not recorded	TQ27F No recorder given but DWF has other records for this site & date
Fraxinus excelsior	Ash	Putney Heath	TQ2373	0	24-Apr-19	Native	By path on E side of open area on S side of A3, SW of Tibbet's Corner
Fraxinus excelsior	Ash	Putney Heath	TQ229731	-4	12-Oct-18	Native	Jerry's Hill
Fraxinus excelsior	Ash	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Native	Woodland W of reservoir
Fraxinus excelsior	Ash	Wimbledon Common	TQ2271	0	29-May-19	Native	Woodland w of Windmill Rd
Galega officinalis	Goat's-rue	Putney Heath	TQ2373	0	28-Aug-18	Established	Mown plants in open area on S side of A3, SW of Tibbet's Corner
Galega officinalis	Goat's-rue	Putney Heath	TQ229731	-23	12-Oct-18	Established	Along paths, Jerry's Hill
Galega officinalis	Goat's-rue	Wimbledon Common	TQ2171	-23	04-Jul-19	Established	TQ21657160 Perimeter of equestrian manege
Galium album	Hedge Bedstraw	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Native	By path on N side of reservoirs
Galium aparine	Cleavers	Putney Heath	TQ2373	0	24-Apr-19	Native	By path on E side of open area on S side of A3, SW of Tibbet's Corner
Galium aparine	Cleavers	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Native	By path on N side of reservoirs
Galium aparine	Cleavers	Wimbledon Common	TQ2171	-23	04-Jul-19	Native	
Galium saxatile	Heath Bedstraw	Wimbledon Common	TQ230720	-23	14-Jun-19	Native	Widespread and frequent in open grassy plain
Galium uliginosum	Fen Bedstraw	Wimbledon Common, Farm Bog	TQ223713	-4	1950	Not recorded	TQ221712 Farm Ravine
Geranium dissectum	Cut-leaved Crane's-bill	Putney Heath	TQ2373	0	24-Apr-19	Native	By path on E side of open area on S side of A3, SW of Tibbet's Corner
Geranium dissectum	Cut-leaved Crane's-bill	Wimbledon Common	TQ2171	0	04-Jul-19	Native	TQ21597156 Open disturbed area N of path
Geranium molle	Dove's-foot Crane's-bill	Putney Heath	TQ2373	-4	24-Apr-19	Native	By path on E side of open area on S side of A3, SW of Tibbet's Corner, et al
Geranium molle	Dove's-foot Crane's-bill	Putney Heath, N of A3	TQ232737	-23	24-Apr-19	Native	Verge of Telegraph Rd
Geranium molle	Dove's-foot Crane's-bill	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	TQ21597156 Open disturbed area N of path
Geranium pratense	Meadow Crane's-bill	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Geranium pusillum	Small-flowered Crane's-bill	Putney Heath	TQ228733	0	23-Jun-14	Native	
Geranium pusillum	Small-flowered Crane's-bill	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	In short turf near ranger's office
Geranium pusillum	Small-flowered Crane's-bill	Wimbledon Common, Beverley Bri	TQ214713	0	1950	Native	Between Beverley Brook & by-pass.
Geranium pyrenaicum	Hedgerow Crane's-bill	Putney Heath	TQ228733	0	23-Jun-14	Neophyte	
Geranium pyrenaicum	Hedgerow Crane's-bill	Wimbledon Common	TQ230720	0	14-Jun-19	Established	S side of Windmill Rd between car park and Parkside
Geranium robertianum	Herb-Robert	Putney Heath	TQ2373	-4	24-Apr-19	Native	In herbage between Wimbledon Park Side and woodland to W
Geranium robertianum	Herb-Robert	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Open grassy area W of cricket ground
Geranium robertianum	Herb-Robert	Wimbledon Common	TQ230720	0	14-Jun-19	Native	Verge W of Parkside
Geranium robertianum	Herb-Robert	Wimbledon Common, Beverley Bri	TQ214713	-4	04-Jul-19	Native	Scattered along banks
Geranium rotundifolium	Round-leaved Crane's-bill	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
Geranium rotundifolium	Round-leaved Crane's-bill	Wimbledon Common	TQ2371	0	16-May-19	Native	TQ23107132 S fringe of common on verge N of North view
Geranium x oxonianum	Druce's Crane's-bill	Wimbledon Common	TQ2171	0	20-Jun-15	Not recorded	
Geum urbanum	Wood Avens	Putney Heath	TQ2373	0	28-Aug-18	Native	In woodland near King's Mere
Geum urbanum	Wood Avens	Putney Heath	TQ229731	-4	12-Oct-18	Native	Jerry's Hill
Geum urbanum	Wood Avens	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Woodland W of reservoir
Geum urbanum	Wood Avens	Putney Heath, NE of Windmill	TQ232727	-23	21-Sep-18	Native	In woodland near Park Side
Geum urbanum	Wood Avens	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	Woodland W of Parkside
Geum urbanum	Wood Avens	Wimbledon Common, Beverley Bri	TQ214713	-4	04-Jul-19	Native	
Geum urbanum	Wood Avens	Wimbledon Common, Kings Mere	TQ232733	-4	24-Apr-19	Native	In herbage near pond
Glechoma hederacea	Ground-ivy	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Glechoma hederacea	Ground-ivy	Putney Heath	TQ229731	0	12-Oct-18	Native	Jerry's Hill
Glechoma hederacea	Ground-ivy	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Native	By car park on S side of reservoirs
Glechoma hederacea	Ground-ivy	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	TQ21667156 Perimeter of open grassy area
Glyceria declinata	Small Sweet-grass	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Glyceria declinata	Small Sweet-grass	Putney Heath, Seven Post Pond	TQ236733	1	28-Aug-18	Native	TQ23587331 One plant on W edge by dipping platform
Glyceria fluitans	Floating Sweet-grass	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Glyceria fluitans	Floating Sweet-grass	Putney Heath, Scio Pond	TQ228734	0	12-Oct-18	Native	N margin of pond
Glyceria fluitans	Floating Sweet-grass	Wimbledon Common, Hookhams	TQ231718	0	04-Mar-17	Native	TQ23177179 Patch to c.1m at pond edge
Glyceria fluitans	Floating Sweet-grass	Wimbledon Common, Stag Bog	TQ219719	0	04-Jul-19	Native	Small patch in seasonally damp depression in formerly boggy area
Gnaphalium luteoalbum	Jersey Cudweed	Wimbledon Common, Bluegate Po	TQ235718	0	27-Sep-18	Established	TQ23487175 Several plants on dried-up S margin of upper part of pond
Gnaphalium uliginosum	Marsh Cudweed	Putney Heath	TQ2373	-4	28-Aug-18	Native	In depressions on paths in open heathy areas
Gnaphalium uliginosum	Marsh Cudweed	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Native	TQ73277289 Group of plants in a damp dpression here and few by entrance on NE side of Windmill café area at TQ23027246
Gnaphalium uliginosum	Marsh Cudweed	Wimbledon Common	TQ2272	0	14-Sep-18	Native	
Gnaphalium uliginosum	Marsh Cudweed	Wimbledon Common, Bluegate Po	TQ235718	-23	27-Sep-18	Native	
Gnaphalium uliginosum	Marsh Cudweed	Wimbledon Common, Rushmere P	TQ235710	-22	27-Sep-18	Native	Covering large areas of pond margins
Hedera helix	Common Ivy	Putney Heath	TQ2373	-3	24-Apr-19	Native	In woodland near Kings Mere
Hedera helix	Common Ivy	Putney Heath	TQ229731	-23	12-Oct-18	Native	
Hedera helix	Common Ivy	Putney Heath, N of A3	TQ232737	-22	28-Aug-18	Native	Covering the woodland floor
Hedera helix	Common Ivy	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Native	In woodland near Park Side
Hedera helix	Common Ivy	Wimbledon Common	TQ230720	-21	14-Jun-19	Native	Covering extensive areas in woodland W of Parkside
Hedera helix	Common Ivy	Wimbledon Common, Beverley Bri	TQ214713	-4	04-Jul-19	Native	
Hedera helix agg.	Ivy	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Helianthus x laetiflorus	H. rigidus x tuberosus	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Helminthotheca echioides	Bristly Oxtongue	Wimbledon Common	TQ2271	0	29-May-19	Established	TQ22147165 Perimeter of manège
Heracleum sphondylium	Hogweed	Putney Heath	TQ2373	-4	24-Apr-19	Native	
Heracleum sphondylium	Hogweed	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Verge of Wildcroft Rd

<i>Heracleum sphondylium</i>	Hogweed	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Native	
<i>Heracleum sphondylium</i>	Hogweed	Wimbledon Common	TQ230720	-23	14-Jun-19	Native	In rough herbage on fringes of grassy plain
<i>Heracleum sphondylium</i>	Hogweed	Wimbledon Common, Beverley Br	TQ214713	-4	04-Jul-19	Native	Scattered along banks
<i>Hieracium agg.</i>	Hawkweed	Putney Heath	TQ2373	0	28-Aug-18	Unknown	Very scanty by path in open heathy areas
<i>Hieracium agg.</i>	Hawkweed	Wimbledon Common, Rushmere P	TQ234711	-23	16-May-19	Native	TQ23617126 Large patches in triangular area N of the Causeway. Possibly <i>H. salticola</i> recorded by IJK in 2002
<i>Hieracium lepidulum agg.</i>	A hawkweed	Putney Heath	TQ228733	0	17-Jul-91	Not recorded	TQ228738 Under trees
<i>Hieracium salticola</i>	Bluish-leaved Hawkweed	Wimbledon Common, Rushmere P	TQ234711	0	27-Jul-02	Native	TQ232711 Confirmed by M.M. Shaw. E of West Side Common and just S of junction with The Causeway. In Herb IJK
<i>Hieracium umbellatum</i>	Umbellate Hawkweed	Wimbledon Common	TQ2371	-22	16-May-19	Native	TQ23617126 Extensive patch on triangular area of land between Cannizaro Rd and Parkside
<i>Hirschfeldia incana</i>	Hoary Mustard	Putney Heath	TQ228733	0	23-Jun-14	Neophyte	
<i>Hirschfeldia incana</i>	Hoary Mustard	Putney Heath, NE of Windmill	TQ232727	1	21-Sep-18	Casual	On verge NE of Windmill café area
<i>Hirschfeldia incana</i>	Hoary Mustard	Wimbledon Common	TQ230720	0	14-Jun-19	Established	By bonfire site near ranger's office
<i>Hirschfeldia incana</i>	Hoary Mustard	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Established	By FB at E end of Robin Hood Rd
<i>Holcus lanatus</i>	Yorkshire-fog	Putney Heath	TQ2373	0	24-Apr-19	Native	In woodland near Kings Mere
<i>Holcus lanatus</i>	Yorkshire-fog	Putney Heath	TQ229731	0	12-Oct-18	Native	Jerry's Hill
<i>Holcus lanatus</i>	Yorkshire-fog	Putney Heath, NE of Windmill	TQ232727	-3	21-Sep-18	Native	In field NE of Windmill café area
<i>Holcus lanatus</i>	Yorkshire-fog	Wimbledon Common	TQ2171	-23	04-Jul-19	Native	Open areas
<i>Holcus mollis</i>	Creeping Soft-grass	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Holcus mollis</i>	Creeping Soft-grass	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Native	
<i>Holcus mollis</i>	Creeping Soft-grass	Wimbledon Common	TQ2171	0	04-Jul-19	Native	TQ216897152 E perimeter of open grassy area
<i>Hordeleymus europaeus</i>	Wood Barley	Wimbledon Common	TQ226727	0	1951	Native	In wood
<i>Hordeum jubatum</i>	Foxtail Barley	Putney Heath	TQ2373	20	1969	Not recorded	TQ27G Roadverge of A3 near King's Mere
<i>Hordeum murinum</i>	Wall Barley	Putney Heath	TQ228733	0	23-Jun-14	Archaeophyte	
<i>Hordeum murinum</i>	Wall Barley	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Established	In Windmill café area
<i>Hordeum murinum</i>	Wall Barley	Wimbledon Common	TQ230720	-4	14-Jun-19	Established	By ranger's office
<i>Humulus lupulus</i>	Hop	Wimbledon Common	TQ2171	0	20-Jun-15	Native	
<i>Humulus lupulus</i>	Hop	Wimbledon Common, Beverley Br	TQ214713	-4	04-Jul-19	Native	TQ21477151 Banks near FB
<i>Hyacinthoides non-scripta</i>	Bluebell	Wimbledon Common	TQ2171	0	04-Jul-19	Native	
<i>Hyacinthoides x massartiana</i>	Hybrid Bluebell (H. non-sci)	Putney Heath	TQ2373	-4	24-Apr-19	Established	By path on E side of open area on S side of A3, SW of Tibbet's Corner, et al
<i>Hyacinthoides x massartiana</i>	Hybrid Bluebell (H. non-sci)	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Verge of Wildcroft Rd
<i>Hyacinthoides x massartiana</i>	Hybrid Bluebell (H. non-sci)	Wimbledon Common	TQ2271	0	29-May-19	Established	Woodland E of Windmill Rd
<i>Hyacinthoides x massartiana</i>	Hybrid Bluebell (H. non-sci)	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Established	On W bank
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	Wimbledon Common, Bluegate Po	TQ235718	-3	27-Sep-18	Native	On dried-up pond bed
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort	Wimbledon Common, Queen's Me	TQ226724	-4	14-Sep-18	Native	TQ22607252 Along N margin
<i>Hypericum androsaemum</i>	Tutsan	Putney Heath, N of A3	TQ232737	1	28-Aug-18	Native	By path on N side of reservoirs
<i>Hypericum androsaemum</i>	Tutsan	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Native	Small plant on W bank S of the Capital Ring
<i>Hypericum humifusum</i>	Trailing St John's-wort	Wimbledon Common	TQ2171	0	20-Jun-15	Native	
<i>Hypericum perforatum</i>	Perforate St John's-wort	Putney Heath	TQ228733	0	23-Jun-14	Native	
<i>Hypericum perforatum</i>	Perforate St John's-wort	Putney Heath	TQ229731	-4	12-Oct-18	Native	Jerry's Hill
<i>Hypericum perforatum</i>	Perforate St John's-wort	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	TQ21657160 Perimeter of equestrian manege
<i>Hypochaeris radicata</i>	Cat's-ear	Putney Heath	TQ2373	-4	24-Apr-19	Native	By paths
<i>Hypochaeris radicata</i>	Cat's-ear	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Native	
<i>Hypochaeris radicata</i>	Cat's-ear	Putney, Roehampton Cricket Field	TQ232738	-4	24-Apr-19	Native	
<i>Hypochaeris radicata</i>	Cat's-ear	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	In open grassy plain
<i>Hypochaeris radicata</i>	Cat's-ear	Wimbledon Common, Rushmere P	TQ234711	0	27-Sep-18	Native	Short turf N of pond
<i>Ilex aquifolium</i>	Holly	Putney Heath	TQ2373	-22	24-Apr-19	Native	
<i>Ilex aquifolium</i>	Holly	Putney Heath	TQ229731	-4	12-Oct-18	Native	Jerry's Hill
<i>Ilex aquifolium</i>	Holly	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Woodland N of cricket ground
<i>Ilex aquifolium</i>	Holly	Putney Heath, NE of Windmill	TQ232727	-23	21-Sep-18	Native	
<i>Ilex aquifolium</i>	Holly	Wimbledon Common	TQ2171	-23	04-Jul-19	Native	Frequent component of wooded areas
<i>Ilex x altaclerensis</i>	<i>I. aquifolium</i> x <i>perado</i>	Putney Heath	TQ2373	0	24-Apr-19	Established	In woodland W of Wimbledon Park Side
<i>Ilex x altaclerensis</i>	<i>I. aquifolium</i> x <i>perado</i>	Wimbledon Common	TQ2272	0	09-May-19	Unknown	TQ22417226 Tall tree in woodland edge S of the Capital Ring
<i>Impatiens capensis</i>	Orange Balsam	Wimbledon Common, Farm Bog	TQ223713	0	14-Jun-61	Not recorded	TQ27F JEL says 'always cleistogamous here' In Herb JEL p51
<i>Impatiens glandulifera</i>	Indian Balsam	Wimbledon Common, Beverley Br	TQ214713	-4	04-Jul-19	Established	Scattered along banks. More frequent S of FB at E end of Robin Hood Rd
<i>Impatiens parviflora</i>	Small Balsam	Wimbledon Common	TQ2271	0	29-May-19	Established	TQ22147165 Perimeter of manège
<i>Impatiens parviflora</i>	Small Balsam	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Established	
<i>Impatiens parviflora</i>	Small Balsam	Wimbledon Common, Fishpond W	TQ2171	0	20-Jun-15	Not recorded	
<i>Iris foetidissima</i>	Stinking Iris	Putney Heath	TQ228733	0	12-Oct-18	Established	TQ22887346 Shady path behind gardens of Beaufort Close
<i>Iris foetidissima</i>	Stinking Iris	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Verge of Telegraph Rd
<i>Iris foetidissima</i>	Stinking Iris	Wimbledon Common	TQ2171	0	02-Nov-18	Established	FP E of Beverley Brook
<i>Iris pseudacorus</i>	Yellow Iris	Putney Heath	TQ228733	0	23-Jun-14	Native	
<i>Iris pseudacorus</i>	Yellow Iris	Putney Heath	TQ229731	0	12-Oct-18	Native	TQ22742308 Curling Pond
<i>Iris pseudacorus</i>	Yellow Iris	Wimbledon Common	TQ2371	0	23-Jun-15	Native	
<i>Iris pseudacorus</i>	Yellow Iris	Wimbledon Common, Bluegate Po	TQ235718	-4	27-Sep-18	Native	Margins
<i>Iris pseudacorus</i>	Yellow Iris	Wimbledon Common, Kings Mere	TQ232733	-4	24-Apr-19	Native	
<i>Iris pseudacorus</i>	Yellow Iris	Wimbledon Common, Queen's Me	TQ226724	0	09-May-19	Native	
<i>Iris pseudacorus</i>	Yellow Iris	Wimbledon Common, Rushmere P	TQ235710	0	27-Sep-18	Unknown	On N margin
<i>Isolepis setacea</i>	Bristle Club-rush	Wimbledon Common, Stag Bog	TQ219719	0	04-Jul-19	Native	TQ21877180 Sturdy plant in formerly boggy area
<i>Juncus acutiflorus</i>	Sharp-flowered Rush	Wimbledon Common, Farm Bog	TQ223713	-4	29-May-19	Native	
<i>Juncus articulatus</i>	Jointed Rush	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Juncus articulatus</i>	Jointed Rush	Putney Heath, Seven Post Pond	TQ236733	0	28-Aug-18	Native	At E edge
<i>Juncus articulatus</i>	Jointed Rush	Wimbledon Common, Queen's Me	TQ226724	0	14-Sep-18	Native	TQ22562244 On SW margin
<i>Juncus articulatus</i>	Jointed Rush	Wimbledon Common, Rushmere P	TQ235710	-23	27-Sep-18	Native	Many patches on margins of pond

<i>Juncus articulatus</i>	Jointed Rush	Wimbledon Common, Stag Bog	TQ219719	0	04-Jul-19	Native	A few tufts in seasonally damp depressions in formerly boggy area
<i>Juncus bufonius</i>	Toad Rush	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Juncus bufonius</i>	Toad Rush	Wimbledon Common	TQ2271	0	29-May-19	Native	TQ22147165 Perimeter of manège
<i>Juncus bufonius</i>	Toad Rush	Wimbledon Common, Bluegate Po	TQ235718	-23	27-Sep-18	Native	Many large patches on margins and on dried-up pond bed
<i>Juncus bufonius</i>	Toad Rush	Wimbledon Common, Kings Mere	TQ232733	0	28-Aug-18	Native	Very scanty on pond margin
<i>Juncus bufonius</i>	Toad Rush	Wimbledon Common, Putney Heath	TQ226738	-4	05-Jul-12	Not recorded	
<i>Juncus bufonius</i>	Toad Rush	Wimbledon Common, Rushmere P	TQ235710	-23	27-Sep-18	Native	Large patches on bed and margins of pond
<i>Juncus bufonius</i>	Toad Rush	Wimbledon Common, Stag Bog	TQ219719	0	04-Jul-19	Not recorded	TQ21977192 Robust plant in path adjacent to Stag Bog
<i>Juncus bulbosus</i>	Bulbous Rush	Wimbledon Common, Bluegate Po	TQ235718	-22	16-May-19	Native	In abundance on margins of and submerged in shallow water in pond
<i>Juncus bulbosus</i>	Bulbous Rush	Wimbledon Common, Farm Bog	TQ223713	-23	29-May-19	Native	Frequent in wet scrapes
<i>Juncus conglomeratus</i>	Compact Rush	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	TQ23207227 Damp depression in open heathy area
<i>Juncus conglomeratus</i>	Compact Rush	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Native	
<i>Juncus conglomeratus</i>	Compact Rush	Wimbledon Common, Stag Bog	TQ219719	-4	04-Jul-19	Native	Scattered in formerly boggy area
<i>Juncus effusus</i>	Soft-rush	Putney Heath	TQ2373	-4	28-Aug-18	Native	By paths in open heathy areas
<i>Juncus effusus</i>	Soft-rush	Putney Heath	TQ229731	0	12-Oct-18	Native	TQ22742308 Curling Pond
<i>Juncus effusus</i>	Soft-rush	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Native	Especially in field NW of Windmill café area
<i>Juncus effusus</i>	Soft-rush	Putney Heath, Scio Pond	TQ228734	0	23-Jun-14	Native	
<i>Juncus effusus</i>	Soft-rush	Wimbledon Common	TQ230720	0	14-Jun-19	Native	In damp depression S of Windmill Rd
<i>Juncus effusus</i>	Soft-rush	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Native	
<i>Juncus effusus</i>	Soft-rush	Wimbledon Common, Kings Mere	TQ232733	-4	24-Apr-19	Native	On muddy margins
<i>Juncus effusus</i>	Soft-rush	Wimbledon Common, Queen's Me	TQ226724	-4	14-Sep-18	Native	
<i>Juncus effusus</i>	Soft-rush	Wimbledon Common, Rushmere P	TQ235710	-3	27-Sep-18	Native	Many patches on margins of pond
<i>Juncus effusus</i>	Soft-rush	Wimbledon Common, Stag Bog	TQ219719	-4	04-Jul-19	Native	Scattered in formerly boggy area
<i>Juncus inflexus</i>	Hard Rush	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Juncus inflexus</i>	Hard Rush	Putney Heath, Scio Pond	TQ228734	0	12-Oct-18	Native	Margins
<i>Juncus inflexus</i>	Hard Rush	Wimbledon Common	TQ2371	0	16-May-19	Native	Small clump on verge on W side of The Green
<i>Juncus squarrosus</i>	Heath Rush	Putney Heath	TQ2373	-4	28-Aug-18	Native	TQ23277308 et al. In short turf on paths
<i>Juncus squarrosus</i>	Heath Rush	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Native	TQ23107269 et al
<i>Juncus squarrosus</i>	Heath Rush	Wimbledon Common	TQ230720	-4	29-May-19	Native	Scattered patches in grassy plain
<i>Juncus tenuis</i>	Slender Rush	Putney Heath	TQ2373	-4	28-Aug-18	Established	On paths in open heathy areas
<i>Juncus tenuis</i>	Slender Rush	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Established	
<i>Juncus tenuis</i>	Slender Rush	Wimbledon Common	TQ2171	-4	04-Jul-19	Established	By paths
<i>Juncus tenuis</i>	Slender Rush	Wimbledon Common, Kings Mere	TQ232733	0	24-Apr-19	Established	On mud near pond
<i>Juncus x surrejanus</i>	<i>J. acutiflorus</i> x <i>articulatus</i>	Wimbledon Common, Rushmere P	TQ235710	-23	27-Sep-18	Native	TQ23507104 Many plants on W margin. Inflorescence wrong for <i>J. acutiflorus</i> . Habit wrong for <i>J. articulatus</i> . Appears to be sterile. Probably this species.
<i>Koeleria macrantha</i>	Crested Hair-grass	Wimbledon Common	TQ225715	0	14-Jun-61	Not recorded	TQ27F Shown to LNHS party. Caesars' Camp, N & E areas
<i>Laburnum alpinum</i>	Scottish Laburnum	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Lactuca serriola</i>	Prickly Lettuce	Kingston Vale, Commons Extension	TQ213715	0	04-Jul-19	Established	N verge of access road
<i>Lactuca serriola</i>	Prickly Lettuce	Putney Heath	TQ2373	0	24-Apr-19	Casual	By path on E side of open area on S side of A3, SW of Tibbet's Corner
<i>Lactuca serriola</i>	Prickly Lettuce	Wimbledon Common	TQ2371	0	16-May-19	Established	S fringe of common N of North View
<i>Lactuca serriola</i>	Prickly Lettuce	Wimbledon Common, Rushmere P	TQ234711	0	27-Sep-18	Established	In triangular area between The Causeway and West Side Common
<i>Lactuca virosa</i>	Great Lettuce	Wimbledon Common	TQ2171	0	04-Jul-19	Established	TQ21597156 Open disturbed area N of path
<i>Lagarosiphon major</i>	Curly Waterweed	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Lamiastrum galeobdolon</i> subsp. ar	Garden Yellow-archangel	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Established	Large patch in woodland on S side of reservoirs
<i>Lamiastrum galeobdolon</i> subsp. ar	Garden Yellow-archangel	Wimbledon Common	TQ2171	0	02-Nov-18	Established	FP E of Beverley Brook
<i>Lamium album</i>	White Dead-nettle	Putney Heath	TQ2373	0	24-Apr-19	Established	By path on E side of open area on S side of A3, SW of Tibbet's Corner
<i>Lamium album</i>	White Dead-nettle	Wimbledon Common	TQ230720	0	14-Jun-19	Established	Verge W of Parkside
<i>Lamium amplexicaule</i>	Henbit Dead-nettle	Wimbledon Common	TQ2171	0	20-Jun-15	Not recorded	
<i>Lamium purpureum</i>	Red Dead-nettle	Putney Heath	TQ2373	-4	24-Apr-19	Established	In open area on S side of A3, SW of Tibbet's Corner
<i>Lamium purpureum</i>	Red Dead-nettle	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Established	In Windmill café area
<i>Lamium purpureum</i>	Red Dead-nettle	Putney, Roehampton Cricket Field	TQ232738	0	24-Apr-19	Native	In outfield
<i>Lamium purpureum</i>	Red Dead-nettle	Wimbledon Common	TQ2271	0	29-May-19	Established	W side of Windmill Rd
<i>Lapsana communis</i>	Nipplewort	Putney Heath	TQ228733	0	23-Jun-14	Native	
<i>Lapsana communis</i>	Nipplewort	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Native	On S side of reservoirs
<i>Lapsana communis</i>	Nipplewort	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Native	
<i>Lapsana communis</i>	Nipplewort	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	Along paths
<i>Lapsana communis</i>	Nipplewort	Wimbledon Common, Beverley Br	TQ214713	-4	04-Jul-19	Native	On path along E bank
<i>Lathyrus aphaca</i>	Yellow Vetchling	Putney Heath	TQ228728	-5	27-Jul-02	Not recorded	Great Tibbet, W slope N of E-W FP across top. In Herb IJK
<i>Lathyrus hirsutus</i>	Hairy Vetchling	Putney Heath	TQ228728	0	10-Sep-00	Alien	TQ22977272 Fairly large population on side of large earth mound S of A3, W of Windmill Road track way.
<i>Lathyrus hirsutus</i>	Hairy Vetchling	Wimbledon Common	TQ228728	0	10-Sep-00	Not recorded	
<i>Lathyrus latifolius</i>	Broad-leaved Everlasting-r	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Lathyrus latifolius</i>	Broad-leaved Everlasting-r	Putney Heath	TQ229731	0	12-Oct-18	Established	Jerry's Hill
<i>Lathyrus nissolia</i>	Grass Vetchling	Wimbledon Common	TQ230720	-23	14-Jun-19	Native	Widespread and frequent in longer vegetation in open plain
<i>Lathyrus pratensis</i>	Meadow Vetchling	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	Just coming into flower in open grassy plain
<i>Lemna minor</i>	Common Duckweed	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Lemna minor</i>	Common Duckweed	Putney Heath, Scio Pond	TQ228734	0	23-Jun-14	Native	
<i>Lemna minor</i>	Common Duckweed	Wimbledon Common	TQ2171	0	20-Jun-15	Native	
<i>Lemna minor</i>	Common Duckweed	Wimbledon Common, Fishpond W	TQ2171	0	20-Jun-15	Not recorded	
<i>Lemna minuta</i>	Least Duckweed	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Lemna minuta</i>	Least Duckweed	Putney Heath, Seven Post Pond	TQ236733	-4	24-Apr-19	Established	In pond
<i>Lemna minuta</i>	Least Duckweed	Wimbledon Common, Queen's Me	TQ226724	0	14-Sep-18	Established	TQ22647247 N side
<i>Lemna trisulca</i>	Ivy-leaved Duckweed	Putney Heath, Seven Post Pond	TQ236733	0	24-Apr-19	Native	Very scanty near pond edge
<i>Leontodon saxatilis</i>	Lesser Hawkbit	Wimbledon Common	TQ2271	0	29-May-19	Native	TQ22607134 Rough grassy area by Springwell Cottage

Lepidium didymum	Lesser Swine-cress	Kingston Vale, Commons Extensior	TQ213715	0	04-Jul-19	Established	Disturbed ground S of Robin Hood Rd by pavillion
Lepidium didymum	Lesser Swine-cress	Wimbledon Common	TQ230720	0	14-Jun-19	Established	In path by woodland margin
Lepidium draba	Hoary Cress	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Open grassy area W of cricket ground
Lepidium draba	Hoary Cress	Wimbledon Common	TQ2271	0	29-May-19	Established	N side of Windmill Rd near Springwell Cottage
Leucanthemum vulgare	Oxeye Daisy	Putney Heath	TQ228733	0	23-Jun-14	Native	
Leucanthemum vulgare	Oxeye Daisy	Wimbledon Common	TQ230720	0	14-Jun-19	Native	In compound of ranger's office
Leucojum aestivum	Summer Snowflake	Wimbledon Common	TQ226727	1	1986	Not recorded	TQ228727. SW slope of southern mound, 4 flower spikes
Ligustrum ovalifolium	Garden Privet	Wimbledon Common	TQ2171	0	20-Jun-15	Not recorded	
Ligustrum vulgare	Wild Privet	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Native	Large patch by fence on N side of reservoirs
Ligustrum vulgare	Wild Privet	Wimbledon Common	TQ225715	0	04-Mar-17	Not recorded	TQ22347162 Large shrub in woodland
Linaria purpurea	Purple Toadflax	Wimbledon Common	TQ2171	0	20-Jun-15	Not recorded	
Lolium perenne	Perennial Rye-grass	Putney Heath	TQ228733	-23	12-Oct-18	Native	Open grassy area W of Putney Village
Lolium perenne	Perennial Rye-grass	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Native	Verge of Wildcroft Rd
Lolium perenne	Perennial Rye-grass	Putney Heath, NE of Windmill	TQ232727	-3	21-Sep-18	Native	
Lolium perenne	Perennial Rye-grass	Wimbledon Common	TQ230720	-23	14-Jun-19	Native	By paths in open grassy plain
Lolium perenne	Perennial Rye-grass	Wimbledon Common, Rushmere P	TQ234711	0	16-May-19	Native	TQ23577121 In triangular area of rough herbage N of The Causeway
Lonicera periclymenum	Honeysuckle	Putney Heath	TQ2373	-4	24-Apr-19	Native	In woodland near Kings Mere
Lonicera periclymenum	Honeysuckle	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Woodland W of reservoir
Lonicera periclymenum	Honeysuckle	Wimbledon Common	TQ2171	0	04-Jul-19	Native	FP E of Robin Hood Rd
Lonicera periclymenum	Honeysuckle	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Native	
Lonicera pileata	Box-leaved Honeysuckle	Wimbledon Common, Beverley Bri	TQ214713	0	04-Jul-19	Casual	Self-sown on top of retaining walls on E side
Lotus corniculatus	Common Bird's-foot-trefoil	Putney Heath	TQ2373	0	24-Apr-19	Native	TQ23327315 By paths
Lotus corniculatus	Common Bird's-foot-trefoil	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	TQ21597156 Open disturbed area N of path
Lotus corniculatus	Common Bird's-foot-trefoil	Wimbledon Common, Rushmere P	TQ234711	0	16-May-19	Native	Small patch in triangular area of rough herbage N of The Causeway
Lotus pedunculatus	Greater Bird's-foot-trefoil	Putney Heath, NW of Windmill	TQ232727	-4	14-Jun-19	Native	TQ23207299 By Ravine Pond
Ludwigia x kentiana	False Hampshire-purslane	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Ludwigia x kentiana	False Hampshire-purslane	Putney Heath, Seven Post Pond	TQ236733	0	15-Sep-11	Established	TQ23607330. A good patch on mud on the east side of the pond, next to the road. Fis not yet open.
Luzula campestris	Field Wood-rush	Putney Heath	TQ2373	0	24-Apr-19	Native	By open path in woodland near Kings Mere
Luzula campestris	Field Wood-rush	Putney Heath, N of A3	TQ232737	-23	24-Apr-19	Native	Banks of reservoir on E side of Wildcroft Rd
Luzula campestris	Field Wood-rush	Wimbledon Common	TQ2271	-4	29-May-19	Native	In rough by GC
Luzula multiflora	Heath Wood-rush	Putney Heath	TQ2373	-4	28-Aug-18	Native	By paths in open heathy areas
Luzula multiflora	Heath Wood-rush	Putney Heath, Heathy Clearing	TQ233733	-4	24-Apr-19	Native	TQ23353340 et al
Luzula multiflora subsp. congesta	Heath Wood-rush	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Native	TQ23257290 et al
Luzula multiflora subsp. congesta	Heath Wood-rush	Wimbledon Common	TQ230720	-4	29-May-19	Not recorded	Scattered throughout grassy plain
Luzula multiflora subsp. multiflora	Heath Wood-rush	Putney Heath, NW of Windmill	TQ232727	0	14-Jun-19	Native	TQ23137287 Small patch in open heathy area
Lycium barbarum	Duke of Argyll's Teaplant	Kingston Vale, Commons Extensior	TQ213715	-23	04-Jul-19	Established	TQ21447153 Well-established large bushes on by car park
Lycium barbarum	Duke of Argyll's Teaplant	Wimbledon Common	TQ2171	0	20-Jun-15	Not recorded	
Lycopus europaeus	Gypsywort	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Lycopus europaeus	Gypsywort	Putney Heath	TQ229731	0	12-Oct-18	Native	TQ22742308 Curling Pond
Lycopus europaeus	Gypsywort	Putney Heath, Scio Pond	TQ228734	0	12-Oct-18	Native	Component of marginal vegetation
Lycopus europaeus	Gypsywort	Wimbledon Common, Kings Mere	TQ232733	0	24-Apr-19	Native	On muddy pond margin
Lysimachia punctata	Dotted Loosestripe	Wimbledon Common	TQ2171	0	04-Jul-19	Established	FP E of Robin Hood Rd
Malus pumila	Apple	Putney Heath	TQ2373	-4	24-Apr-19	Established	By path E of open area on S side of A3, SW of Tibbet's Corner, et al
Malus pumila	Apple	Putney Heath, N of A3	TQ232737	2	28-Aug-18	Established	In woodland near reservoirs
Malus pumila	Apple	Wimbledon Common	TQ230720	0	14-Jun-19	Established	Small fruiting tree in woodland W of Parkside
Malus pumila	Apple	Wimbledon Common, Beverley Bri	TQ214713	0	04-Jul-19	Established	TQ21467154 Small tree on W bank near FB at E end of Robin Hood Rd
Malva moschata	Musk-mallow	Putney Heath	TQ228733	0	23-Jun-14	Native	Many plants
Malva moschata	Musk-mallow	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Verge on N side of Telegraph Rd
Malva moschata	Musk-mallow	Wimbledon Common	TQ2171	0	20-Jun-15	Native	
Malva neglecta	Dwarf Mallow	Wimbledon Common	TQ2371	0	16-May-19	Established	TQ23567136 Disturbed area W of Parkside
Malva sylvestris	Common Mallow	Putney Heath	TQ2373	0	24-Apr-19	Established	By path on E side of open area on S side of A3, SW of Tibbet's Corner
Malva sylvestris	Common Mallow	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Verge on N side of Telegraph Rd
Malva sylvestris	Common Mallow	Wimbledon Common	TQ2271	0	29-May-19	Established	By track W of Springwell Cottage
Matricaria discoidea	Pineappleweed	Kingston Vale, Commons Extensior	TQ213715	-4	04-Jul-19	Established	Bare patches in playing fields
Matricaria discoidea	Pineappleweed	Putney Heath	TQ228733	0	12-Oct-18	Established	
Matricaria discoidea	Pineappleweed	Wimbledon Common	TQ230720	-23	14-Jun-19	Established	Disturbed ground near ranger's office
Matricaria discoidea	Pineappleweed	Wimbledon Common, Kings Mere	TQ232733	0	28-Aug-18	Established	On mud by pond
Matricaria discoidea	Pineappleweed	Wimbledon Common, Rushmere P	TQ234711	0	16-May-19	Established	Path W of pond
Medicago arabica	Spotted Medick	Wimbledon Common	TQ2271	0	29-May-19	Established	TQ22607134 Rough grassy area by Springwell Cottage
Medicago lupulina	Black Medick	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Medicago lupulina	Black Medick	Wimbledon Common	TQ2371	0	23-Jun-15	Native	
Medicago sativa subsp. falcata	Sickle Medick	Putney Heath	TQ228733	0	1950	Not recorded	~TQ227733 In grassy places
Medicago sativa subsp. falcata	Sickle Medick	Wimbledon Common	TQ225715	0	Jan-50	Not recorded	~TQ225715. In grassy places
Melilotus albus	White Melilot	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Melissa officinalis	Balm	Wimbledon Common, Beverley Bri	TQ214713	0	04-Jul-19	Casual	Small plant on E bank by FP
Mentha aquatica	Water Mint	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Mentha suaveolens	Round-leaved Mint	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Mentha x piperita	Peppermint (M. aquatica x Putney Heath, Seven Post Pond		TQ236733	0	Sep-98	Not recorded	TQ236733, by Horse Pond
Mentha x smithiana	Tall Mint (M. aquatica x ar Wimbledon Common, Beverley Bri		TQ214713	1	Aug-97	Not recorded	TQ217719 By FP along brook, just S of Memorial Playing Fields. Small clump
Mentha x verticillata	Whorled Mint (M. aquatic Putney Heath		TQ230725	0	10-Sep-00	Not recorded	
Mentha x villosa var. alopecuroide	Apple-mint	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Menyanthes trifoliata	Bogbean	Wimbledon Common, Farm Bog	TQ2271	0	1961	Not recorded	

Mercurialis annua	Annual Mercury	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Casual	On path on W side of reservoirs
Mercurialis annua	Annual Mercury	Wimbledon Common	TQ2271	0	05-Oct-18	Casual	By Springwell Cottage
Mimulus moschatos	Musk	Putney Heath	TQ228733	0	1984	Not recorded	TQ228733 'Fair sized colony' in small area of streamside, Wimb Com. NB in 1987 this area was overgrown with nettles- the plant is almost certainly lost
Moehringia trinervia	Three-nerved Sandwort	Wimbledon Common	TQ228713	10	18-Apr-09	Native	TQ227713 SE side of track running NE from W end Robin Hood Road
Moenchia erecta	Upright Chickweed	Putney Heath	TQ230725	0	05-May-07	Not recorded	S of windmill.
Moenchia erecta	Upright Chickweed	Wimbledon Common	TQ228713	15	18-Apr-09	Native	TQ22697133 N of W end of Robin Hood Road, S of bench overlooking grassy triangular island E of Springwell Cottage. In short turf on S facing slope
Molinia caerulea	Purple Moor-grass	Putney Heath	TQ2373	-2	28-Aug-18	Native	Widespread over open heathy areas
Molinia caerulea	Purple Moor-grass	Putney Heath, Heathy Clearing	TQ233733	-3	24-Apr-19	Native	
Molinia caerulea	Purple Moor-grass	Putney Heath, NE of Windmill	TQ232727	-21	21-Sep-18	Native	
Molinia caerulea	Purple Moor-grass	Putney Heath, NW of Windmill	TQ232727	-23	14-Jun-19	Native	In open heathy area
Molinia caerulea	Purple Moor-grass	Wimbledon Common	TQ230720	-22	14-Jun-19	Native	Widespread and abundant in open heath areas
Molinia caerulea	Purple Moor-grass	Wimbledon Common, Bluegate Po	TQ235718	-22	27-Sep-18	Native	Encroaching on margins of lower part of pond
Molinia caerulea	Purple Moor-grass	Wimbledon Common, Farm Bog	TQ223713	-2	29-May-19	Native	Abundant in much of bog
Mycelis muralis	Wall Lettuce	Wimbledon Common	TQ2371	0	27-Sep-18	Native	TQ231687146 By ditch
Myosotis arvensis	Field Forget-me-not	Putney Heath	TQ229731	0	12-Oct-18	Native	Jerry's Hill
Myosotis arvensis	Field Forget-me-not	Wimbledon Common	TQ2171	-4	04-Jul-19	Established	TQ21657160 Perimeter of equestrian manege
Myosotis laxa subsp. caespitosa	Tufted Forget-me-not	Wimbledon Common	TQ2271	0	1979	Native	Ditch on S side of GC. No GR given
Myosotis scorpioides	Water Forget-me-not	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Myosotis sylvatica	Wood Forget-me-not	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Of garden origin on N side of Telegraph Rd
Myosotis sylvatica	Wood Forget-me-not	Wimbledon Common	TQ2271	0	29-May-19	Established	Scrub near Springwell Cottage
Myriophyllum alterniflorum	Alternate Water-milfoil	Putney Heath, Seven Post Pond	TQ236733	-5	15-Aug-01	Native	In Herb UK
Myriophyllum aquaticum	Parrot's-feather	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Myriophyllum aquaticum	Parrot's-feather	Putney Heath, Seven Post Pond	TQ236733	0	24-Apr-19	Established	Large patch in pond
Myriophyllum aquaticum	Parrot's-feather	Wimbledon Common, Hookhamsl	TQ231718	-22	29-Apr-07	Alien	TQ23167180. Abundant in Hookhamslade Pond.
Myriophyllum aquaticum	Parrot's-feather	Wimbledon Common, Kings Mere	TQ232733	-21	Sep-97	Established	Enormous quantity on nearby dried-up pond. Dominant over much of western end
Myriophyllum spicatum	Spiked Water-milfoil	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Myriophyllum spicatum	Spiked Water-milfoil	Wimbledon Common, Queen's Me	TQ226724	0	Sep-97	Not recorded	Scattered around & probably throughout pond. Amount varies from year to year
Myrrhis odorata	Sweet Cicely	Wimbledon Common	TQ225715	0	1972	Casual	TQ226714 Near Springwell Cottage. Comm RMB
Narcissus poeticus	Pheasant's-eye Daffodil	Wimbledon Common, Rushmere P	TQ234711	1	16-May-19	Established	TQ23197126 Single plant in grassy area N of The Causeway
Nardus stricta	Mat-grass	Putney Heath	TQ230725	-4	01-Oct-16	Native	TQ23272724
Nardus stricta	Mat-grass	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	TQ23307235 With D. decumbens in open plain S of Windmill Rd
Narthecium ossifragum	Bog Asphodel	Wimbledon Common, Farm Bog	TQ2271	0	1955	Not recorded	TQ27F
Nasturtium officinale	Water-cress	Putney Heath, Seven Post Pond	TQ236733	0	28-Aug-18	Native	
Nasturtium officinale agg.	Water-cress	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Nuphar lutea	Yellow Water-lily	Wimbledon Common, Queen's Me	TQ226724	0	14-Sep-18	Unknown	Probably planted
Nymphaea alba	White Water-lily	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Nymphaea alba	White Water-lily	Wimbledon Common, Queen's Me	TQ226724	-23	14-Sep-18	Unknown	Probably planted
Oenanthe crocata	Hemlock Water-dropwort	Wimbledon Common	TQ2271	0	29-May-19	Native	TQ22877145 By dry path W of Windmill Rd
Oenothera glazioviana	Large-flowered Evening-pr	Putney Heath, N of A3	TQ232737	1	28-Aug-18	Casual	By fence on S side of reservoirs
Oenothera glazioviana	Large-flowered Evening-pr	Wimbledon Common, Wimbledon	TQ2272	0	1964	Established	Waste ground. In herb. EIC
Ophioglossum vulgatum	Adder's-tongue	Wimbledon Common	TQ230720	-23	06-Jun-09	Native	TQ23217214 100+ plants
Ornithopus perpusillus	Bird's-foot	Wimbledon Common	TQ2271	-23	05-Oct-18	Native	TQ22857183 In very short turf
Oxalis acetosella	Wood-sorrel	Wimbledon Common	TQ2271	0	05-Oct-18	Native	TQ22547134 Robin Hood Rd, small patch on S side
Oxalis articulata	Pink-sorrel	Wimbledon Common	TQ2371	0	16-May-19	Casual	S fringe of common on N side of North View
Oxalis corniculata	Procumbent Yellow-sorrel	Putney Heath	TQ228733	0	23-Jun-14	Neophyte	
Oxalis corniculata	Procumbent Yellow-sorrel	Wimbledon Common	TQ2271	0	05-Oct-18	Established	Near Thatched Cottage
Oxalis corniculata var. atropurpurea	Procumbent Yellow-sorrel	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Oxalis stricta	Upright Yellow-sorrel	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Panicum dichotomiflorum	Autumn Millet	Wimbledon Common, Fishpond W	TQ2171	0	01-Sep-55	Casual	TQ216716 Wimbledon Common, area of dumped material used for horse jumping. Alt 50. Hb. D.P. Y. no.5575
Panicum miliaceum	Common Millet	Wimbledon Common, Rushmere P	TQ235710	0	27-Sep-18	Casual	Probably from wild bird food
Papaver somniferum	Opium Poppy	Wimbledon Common	TQ2171	0	20-Jun-15	Not recorded	
Parietaria judaica	Pellitory-of-the-Wall	Wimbledon Common	TQ2370	0	15-Mar-14	Not recorded	
Parthenocissus quinquefolia	Virginia-creeper	Wimbledon Common	TQ2171	-23	04-Jul-19	Established	Well-established through scrubby vegetation W of Warren Farm
Pentaglottis sempervirens	Green Alkanet	Putney Heath	TQ2373	0	24-Apr-19	Established	BY path on E side of open area on S side of A3, SW of Tibbet's Corner, et al
Pentaglottis sempervirens	Green Alkanet	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Established	Open grassy area W of cricket ground
Pentaglottis sempervirens	Green Alkanet	Wimbledon Common	TQ2171	-23	04-Jul-19	Established	TQ21657160 Perimeter of equestrian manege
Persicaria campanulata	Lesser Knotweed	Wimbledon Common	TQ2171	0	1981	Established	Seen here in 1957 by DPY on edge of small pond. In Herb DPY
Persicaria hydropiper	Water-pepper	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Persicaria hydropiper	Water-pepper	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	Damp depressions in paths
Persicaria hydropiper	Water-pepper	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Native	In very boggy area on S margin
Persicaria hydropiper	Water-pepper	Wimbledon Common, Kings Mere	TQ232733	-4	28-Aug-18	Native	By pond margins
Persicaria hydropiper	Water-pepper	Wimbledon Common, Queen's Me	TQ226724	-4	14-Sep-18	Native	On muddy banks
Persicaria maculosa	Redshank	Putney Heath	TQ230725	-22	01-Oct-16	Native	TQ23297289 In bed of seasonal pool
Persicaria maculosa	Redshank	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Native	TQ230327246 Few plants in entrance on NW side of Windmill café area
Persicaria maculosa	Redshank	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Native	Small patch by path on W side
Persicaria maculosa	Redshank	Wimbledon Common, Bluegate Po	TQ235718	-22	27-Sep-18	Native	Margins and dried-up pond bed
Persicaria maculosa	Redshank	Wimbledon Common, Kings Mere	TQ232733	-4	28-Aug-18	Native	By pond margins
Phleum bertolonii	Smaller Cat's-tail	Putney Heath	TQ228733	-4	12-Oct-18	Native	NW fringe of common along Putney Heath
Phleum bertolonii	Smaller Cat's-tail	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	TQ21757107 Open grassy area W of Warren Farm
Phleum pratense	Timothy	Putney Heath	TQ228733	0	23-Jun-14	Native	
Phleum pratense	Timothy	Putney Heath, Seven Post Pond	TQ236733	0	28-Aug-18	Native	By S edge
Phleum pratense	Timothy	Wimbledon Common	TQ2271	0	05-Oct-18	Native	Near Thatched Cottage

Phragmites australis	Common Reed	Wimbledon Common, Farm Bog	TQ223713	-2	29-May-19	Native	Abundant in much of bog
Phragmites australis	Common Reed	Wimbledon Common, Kings Mere	TQ232733	0	28-Aug-18	Native	Small patch on N margin
Picea abies	Norway Spruce	Wimbledon Common	TQ2171	0	02-Nov-18	Planted	
Pilosella aurantiaca	Fox-and-cubs	Wimbledon Common	TQ230720	0	Sep-97	Established	TQ233722 SW of Windmill on unmown section. One small clump
Pilosella officinarum	Mouse-ear-hawkweed	Wimbledon Common	TQ2271	-4	29-May-19	Native	In rough by GC
Pilularia globulifera	Pillwort	Putney Heath	TQ2373	0	1934	Not recorded	
Pinguicula vulgaris	Common Butterwort	Wimbledon Common, Farm Bog	TQ223713	-4	29-May-19	Established	TQ22377128 About 40 well-established 40 plants in wet scrapes centred on this GR with several outliers. Many flowering
Pinus nigra	Austrian Pine / Corsican Pi	Putney Heath, NE of Windmill	TQ232727	1	21-Sep-18	Established	Sapling to c.5m windson from planted tree
Pinus nigra	Austrian Pine / Corsican Pi	Wimbledon Common	TQ2271	0	29-May-19	Unknown	Probably planted by fairway
Pinus strobus	Weymouth Pine	Putney Heath, N of A3	TQ232737	1	28-Aug-18	Unknown	TQ23547369 Sapling to 1-2m, in scrub by path. No other trees visible
Pinus sylvestris	Scots Pine	Wimbledon Common	TQ230720	0	14-Jun-19	Established	A few saplings in open grassy area
Plantago coronopus	Buck's-horn Plantain	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Plantago coronopus	Buck's-horn Plantain	Putney, Roehampton Cricket Field	TQ232738	-4	24-Apr-19	Native	In short dry turf
Plantago coronopus	Buck's-horn Plantain	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	TQ21597156 Open disturbed area N of path
Plantago coronopus	Buck's-horn Plantain	Wimbledon Common, Rushmere P	TQ234711	0	27-Sep-18	Native	Short turf near pond
Plantago lanceolata	Ribwort Plantain	Putney Heath	TQ2373	-4	24-Apr-19	Native	By path on E side of open area on S side of A3, SW of Tibbet's Corner, et al
Plantago lanceolata	Ribwort Plantain	Putney Heath	TQ229731	0	12-Oct-18	Native	Jerry's Hill
Plantago lanceolata	Ribwort Plantain	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Native	In Windmill café area
Plantago lanceolata	Ribwort Plantain	Putney, Roehampton Cricket Field	TQ232738	-4	24-Apr-19	Native	
Plantago lanceolata	Ribwort Plantain	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	In open grassy plain
Plantago major	Greater Plantain	Putney Heath	TQ2373	-4	28-Aug-18	Native	On paths in open heathy areas
Plantago major	Greater Plantain	Putney Heath	TQ229731	-4	12-Oct-18	Native	Jerry's Hill
Plantago major	Greater Plantain	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Native	Verge of Wildcroft Rd
Plantago major	Greater Plantain	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Native	
Plantago major	Greater Plantain	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	Open disturbed area near ranger's office and along paths
Plantago major	Greater Plantain	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Native	Path on W side
Plantago major	Greater Plantain	Wimbledon Common, Kings Mere	TQ232733	-4	24-Apr-19	Native	On trodden muddy margins
Plantago major	Greater Plantain	Wimbledon Common, Rushmere P	TQ235710	-4	27-Sep-18	Native	
Poa angustifolia	Narrow-leaved Meadow-grass	Wimbledon Common	TQ230720	0	29-May-19	Native	TQ23217215 In large grassy plain
Poa annua	Annual Meadow-grass	Putney Heath	TQ2373	-23	24-Apr-19	Native	On paths
Poa annua	Annual Meadow-grass	Putney Heath, NE of Windmill	TQ232727	-3	21-Sep-18	Native	
Poa annua	Annual Meadow-grass	Putney, Roehampton Cricket Field	TQ232738	-23	24-Apr-19	Native	In short dry turf
Poa annua	Annual Meadow-grass	Wimbledon Common	TQ2171	0	04-Jul-19	Native	Paths
Poa compressa	Flattened Meadow-grass	Putney Heath, FP	TQ235735	-5	18-Sep-04	Native	TQ235735 FP leading to subway at Tibbet's Corner; on mown dry bank. In Herb IJK
Poa pratensis	Smooth Meadow-grass	Putney Heath	TQ2373	0	24-Apr-19	Native	In field on S side of A3, SW of Tibbet's Corner
Poa pratensis	Smooth Meadow-grass	Wimbledon Common	TQ2271	0	29-May-19	Native	TQ22797187 In rough by GC
Poa trivialis	Rough Meadow-grass	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	Wooded areas and along paths and ditches
Poa trivialis	Rough Meadow-grass	Wimbledon Common, Beverley Br	TQ214713	-4	04-Jul-19	Native	On banks
Poa trivialis	Rough Meadow-grass	Wimbledon Common, Kings Mere	TQ232733	0	24-Apr-19	Native	In herbage near pond
Polygonum arenastrum	Equal-leaved Knotgrass	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Polygonum arenastrum	Equal-leaved Knotgrass	Putney Heath, NW of Windmill	TQ232727	0	14-Jun-19	Native	In path E of car park
Polygonum arenastrum	Equal-leaved Knotgrass	Wimbledon Common	TQ2271	-4	05-Oct-18	Native	In car park by Springwell Cottage
Polygonum arenastrum	Equal-leaved Knotgrass	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Native	On path on E side
Polygonum aviculare	Knotgrass	Kingston Vale, Commons Extensior	TQ213715	0	04-Jul-19	Native	Disturbed ground S of Robin Hood Rd by pavillion
Polygonum aviculare	Knotgrass	Putney Heath	TQ2373	0	21-Feb-19	Not recorded	
Polygonum aviculare	Knotgrass	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Polygonum aviculare	Knotgrass	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	In and beside paths
Polygonum aviculare agg.	Knotgrass	Putney Heath	TQ2373	-3	28-Aug-18	Unknown	On paths
Polygonum aviculare agg.	Knotgrass	Wimbledon Common	TQ2271	0	05-Oct-18	Unknown	Near Thatched Cottage
Polygonum aviculare agg.	Knotgrass	Wimbledon Common, Rushmere P	TQ235710	-4	27-Sep-18	Native	Pond margins
Polystichum setiferum	Soft Shield-fern	Wimbledon Common	TQ2171	0	02-Nov-18	Native	TQ21577168 On steep bank E of FP by Beverley Brook
Populus alba	White Poplar	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Populus nigra sens. lat.	Poplar	Putney Heath	TQ230734	1	18-Jun-94	Not recorded	
Populus tremula	Aspen	Putney Heath	TQ2373	-4	24-Apr-19	Native	In woodland near Kings Mere
Populus tremula	Aspen	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Populus tremula	Aspen	Wimbledon Common	TQ230720	0	14-Jun-19	Native	Suckering tree in woodland W of Parkside
Populus tremula	Aspen	Wimbledon Common, Queen's Me	TQ226724	0	09-May-19	Native	Wooded area on S side
Populus tremula	Aspen	Wimbledon Common, Stag Bog	TQ219719	0	04-Jul-19	Native	
Populus x canadensis	Hybrid Black-poplar	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Populus x canescens	Grey Poplar (P. alba x trem)	Putney Heath	TQ2373	0	28-Aug-18	Established	Row of trees suckering on NW side of open area on S side of A3, SW of Tibbet's Corner
Populus x canescens	Grey Poplar (P. alba x trem)	Wimbledon Common	TQ2171	0	20-Jun-15	Not recorded	
Populus x canescens	Grey Poplar (P. alba x trem)	Wimbledon Common, Beverley Br	TQ214713	-23	04-Jul-19	Established	Many regenerating suckers from felled tree on E side S of FB
Potamogeton bertholdii	Small Pondweed	Wimbledon Common, Queen's Me	TQ226724	0	Sep-93	Native	TQ226725. Water not clear enough to determine quantity of plants
Potamogeton crispus	Curled Pondweed	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Native	TQ21677167 In brook on W side by logs placed to reduce rate of water flow
Potamogeton natans	Broad-leaved Pondweed	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Potamogeton natans	Broad-leaved Pondweed	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Potamogeton pectinatus	Fennel Pondweed	Wimbledon Common	TQ2171	0	20-Jun-15	Native	Beverley Brook
Potamogeton pectinatus	Fennel Pondweed	Wimbledon Common, Beverley Br	TQ214713	-4	29-Aug-08	Native	TQ215712 Nr. right bank of Beverley Brook
Potamogeton pectinatus	Fennel Pondweed	Wimbledon Common, Stream	TQ217718	0	Sep-99	Native	One good patch downstream of flume
Potamogeton polygonifolius	Bog Pondweed	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Native	TQ22377126 Patch in small pool in S of bog
Potentilla anserina	Silverweed	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Native	On path on E side
Potentilla erecta	Tormentil	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	

Potentilla erecta	Tormentil	Wimbledon Common	TQ230720	-22	14-Jun-19	Native	Widespread and abundant in open grassy plain
Potentilla erecta	Tormentil	Wimbledon Common, Bluegate Po	TQ235718	0	27-Sep-18	Native	
Potentilla erecta	Tormentil	Wimbledon Common, Farm Bog	TQ223713	-4	29-May-19	Native	Scattered in less dense vegetation
Potentilla reptans	Creeping Cinquefoil	Putney Heath	TQ2373	0	24-Apr-19	Native	In field on S side of A3, SW of Tibbet's Corner
Potentilla reptans	Creeping Cinquefoil	Putney Heath	TQ229731	-4	12-Oct-18	Native	Jerry's Hill
Potentilla reptans	Creeping Cinquefoil	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Open grassy area W of cricket ground
Potentilla reptans	Creeping Cinquefoil	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Native	on verge NE of Windmill café area
Potentilla reptans	Creeping Cinquefoil	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Potentilla reptans	Creeping Cinquefoil	Wimbledon Common	TQ2171	-23	04-Jul-19	Native	TQ21657160 Perimeter of equestrian manege
Potentilla x suberecta	P. anglica x erecta	Wimbledon Common	TQ2171	0	04-Jul-19	Native	TQ21687150 S margin of open grassy area
Primula veris	Cowslip	Putney Heath	TQ2373	1	24-Apr-19	Native	TQ23477350 In field on S side of A3, SW of Tibbet's Corner
Primula veris	Cowslip	Putney Heath, FP	TQ235735	0	1950	Native	TQ236738 Near reservoir
Primula veris	Cowslip	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Primula veris	Cowslip	Wimbledon Common	TQ230720	0	14-Jun-19	Unknown	In lawn of ranger's compound
Primula vulgaris	Primrose	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Native	By path on N side of reservoirs
Primula vulgaris	Primrose	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Prunella vulgaris	Selfheal	Putney Heath	TQ228733	0	23-Jun-14	Native	
Prunella vulgaris	Selfheal	Putney Heath	TQ229731	0	12-Oct-18	Native	Jerry's Hill
Prunella vulgaris	Selfheal	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Native	In Windmill café area
Prunella vulgaris	Selfheal	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Prunella vulgaris	Selfheal	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	TQ21657160 Perimeter of equestrian manege
Prunus avium	Wild Cherry	Putney Heath	TQ2373	-4	24-Apr-19	Native	In woodland near Kings Mere
Prunus avium	Wild Cherry	Putney Heath	TQ229731	-4	12-Oct-18	Native	
Prunus avium	Wild Cherry	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Prunus avium	Wild Cherry	Wimbledon Common	TQ2371	0	16-May-19	Established	By path N of North View
Prunus cerasifera	Cherry Plum	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
Prunus cerasifera	Cherry Plum	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Large shrub on S side of Telegraph Rd
Prunus cerasifera	Cherry Plum	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Prunus cerasifera var. pissardii		Wimbledon Common	TQ2171	0	20-Jun-15	Not recorded	
Prunus domestica	Wild Plum	Wimbledon Common	TQ230720	0	14-Jun-19	Established	Row of suckering trees in woodland W of Parkside
Prunus laurocerasus	Cherry Laurel	Putney Heath	TQ2373	0	24-Apr-19	Established	In woodland near Kings Mere
Prunus laurocerasus	Cherry Laurel	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Woodland N of cricket ground
Prunus laurocerasus	Cherry Laurel	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Prunus laurocerasus	Cherry Laurel	Wimbledon Common	TQ2371	0	27-Sep-18	Established	In wooded area W of Parkside
Prunus serotina	Rum Cherry	Wimbledon Common	TQ2371	0	23-Jun-15	Not recorded	
Prunus serrulata	Japanese Cherry	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Prunus spinosa	Blackthorn	Kingston Vale, Commons Extension	TQ213715	-22	04-Jul-19	Unknown	Probably planted on margins of playing fields
Prunus spinosa	Blackthorn	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
Prunus spinosa	Blackthorn	Putney Heath, N of A3	TQ232737	0	28-Aug-18	Native	By path on N side of Tibbet's Corner
Prunus spinosa	Blackthorn	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Prunus spinosa	Blackthorn	Wimbledon Common	TQ2371	0	23-Jun-15	Native	
Pteridium aquilinum	Bracken	Putney Heath	TQ2373	-4	24-Apr-19	Native	In woodland near Kings Mere
Pteridium aquilinum	Bracken	Putney Heath	TQ229731	-22	12-Oct-18	Native	Jerry's Hill
Pteridium aquilinum	Bracken	Putney Heath, N of A3	TQ232737	-23	24-Apr-19	Native	Woodland N of cricket ground
Pteridium aquilinum	Bracken	Putney Heath, NE of Windmill	TQ232727	-23	21-Sep-18	Native	
Pteridium aquilinum	Bracken	Putney Heath, NW of Windmill	TQ232727	-23	14-Jun-19	Native	
Pteridium aquilinum	Bracken	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Pteridium aquilinum	Bracken	Wimbledon Common	TQ2171	-22	04-Jul-19	Native	In wooded and on fringes of open areas
Pteridium aquilinum	Bracken	Wimbledon Common, Farm Bog	TQ223713	-22	29-May-19	Native	Abundant in uncleared areas
Pyrus communis	Pear	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
Quercus cerris	Turkey Oak	Putney Heath	TQ2373	-3	28-Aug-18	Established	Full-sized trees and frequent saplings
Quercus cerris	Turkey Oak	Putney Heath	TQ229731	-3	12-Oct-18	Established	Jerry's Hill
Quercus cerris	Turkey Oak	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Woodland on N side of Telegraph Rd
Quercus cerris	Turkey Oak	Putney Heath, NE of Windmill	TQ232727	-23	21-Sep-18	Established	Medium-sized trees and saplings
Quercus cerris	Turkey Oak	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Quercus cerris	Turkey Oak	Wimbledon Common	TQ230720	-4	14-Jun-19	Established	Many self-sown saplings
Quercus cerris	Turkey Oak	Wimbledon Common, Kings Mere	TQ232733	1	24-Apr-19	Casual	
Quercus ilex	Evergreen Oak	Putney Heath	TQ2373	0	24-Apr-19	Native	By path on E side of open area on S side of A3, SW of Tibbet's Corner and in woodland nearby
Quercus ilex	Evergreen Oak	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Established	Woodland E of cricket pitch
Quercus ilex	Evergreen Oak	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Quercus ilex	Evergreen Oak	Wimbledon Common	TQ2271	1	05-Oct-18	Casual	By track between between Thatched Cottage and White Cottage
Quercus robur	Pedunculate Oak	Putney Heath	TQ2373	-3	24-Apr-19	Native	In woodland near Kings Mere
Quercus robur	Pedunculate Oak	Putney Heath	TQ229731	-4	12-Oct-18	Native	Jerry's Hill
Quercus robur	Pedunculate Oak	Putney Heath, N of A3	TQ232737	-3	24-Apr-19	Native	Woodland E of cricket pitch
Quercus robur	Pedunculate Oak	Putney Heath, NE of Windmill	TQ232727	-3	21-Sep-18	Native	
Quercus robur	Pedunculate Oak	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Quercus robur	Pedunculate Oak	Wimbledon Common	TQ230720	-23	14-Jun-19	Native	Wooded areas
Quercus robur	Pedunculate Oak	Wimbledon Common, Farm Bog	TQ223713	-4	05-Oct-18	Native	Mature trees on margins and many seedlings in bog
Quercus rubra	Red Oak	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Quercus rubra	Red Oak	Putney Heath	TQ229731	0	12-Oct-18	Planted	Jerry's Hill
Quercus x crenata	Lucombe Oak (Q. cerris x s	Putney Heath	TQ2373	1	Sep-99	Established	TQ235733 By FP between Kingsmere & Seven Post Pond. Well established among oak & birch
Quercus x crenata	Lucombe Oak (Q. cerris x s	Wimbledon Common	TQ2371	1	Sep-99	Established	TQ232717 By FP near Hookslade Pond. Apparently naturally growing among oak & birch

Ranunculus acris	Meadow Buttercup	Putney Heath	TQ2373	-4	24-Apr-19 Native	In field on S side of A3, SW of Tibbet's Corner
Ranunculus acris	Meadow Buttercup	Putney Heath, N of A3	TQ232737	0	24-Apr-19 Native	Verge of Wildcroft Rd
Ranunculus acris	Meadow Buttercup	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	
Ranunculus acris	Meadow Buttercup	Wimbledon Common	TQ230720	-4	29-May-19 Native	In open grassy plain
Ranunculus bulbosus	Bulbous Buttercup	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	
Ranunculus bulbosus	Bulbous Buttercup	Wimbledon Common	TQ230720	-4	29-May-19 Native	In grassy plain
Ranunculus lingua	Greater Spearwort	Putney Heath	TQ230725	0	10-Sep-00 Not recorded	
Ranunculus lingua	Greater Spearwort	Putney Heath, Seven Post Pond	TQ236733	0	Sep-99 Established	TQ236733. A well-established clump
Ranunculus repens	Creeping Buttercup	Putney Heath	TQ2273	0	21-Feb-19 Not recorded	
Ranunculus repens	Creeping Buttercup	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	
Ranunculus repens	Creeping Buttercup	Putney, Roehampton Cricket Field	TQ232738	-4	24-Apr-19 Native	
Ranunculus repens	Creeping Buttercup	Wimbledon Common	TQ2171	-4	04-Jul-19 Native	TQ21657160 Perimeter of equestrian manege
Ranunculus repens	Creeping Buttercup	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19 Native	
Ranunculus repens	Creeping Buttercup	Wimbledon Common, Kings Mere	TQ232733	0	24-Apr-19 Native	Near pond margin
Reseda lutea	Wild Mignonette	Wimbledon Common	TQ2272	0	14-Sep-18 Casual	Windmill car park
Reseda luteola	Weld	Putney Heath	TQ230725	0	10-Sep-00 Not recorded	
Reseda luteola	Weld	Wimbledon Common	TQ2171	0	04-Jul-19 Established	TQ21657160 Perimeter of equestrian manege
Rhinanthus minor	Yellow-rattle	Wimbledon Common	TQ230720	-22	14-Jun-19 Native	Widespread and abundant in open grassy plain
Rhinanthus minor	Yellow-rattle	Wimbledon Common, Farm Bog	TQ2271	1	1981 Not recorded	TQ225713
Rhododendron ponticum	Rhododendron	Wimbledon Common	TQ2271	0	29-May-19 Established	TQ22347154 Scrub by GC
Ribes sanguineum	Flowering Currant	Wimbledon Common, Beverley Br	TQ214713	1	1986 Established	Q215716 On steep bank by brook. There since at least 1984
Robinia pseudoacacia	False-acacia	Putney Heath	TQ230725	0	10-Sep-00 Not recorded	
Robinia pseudoacacia	False-acacia	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18 Established	At edge of woodland near Park Side
Robinia pseudoacacia	False-acacia	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	
Robinia pseudoacacia	False-acacia	Wimbledon Common	TQ230720	0	14-Jun-19 Established	Self-sown tree in woodland W of Parkside
Rosa arvensis	Field-rose	Putney Heath, N of A3	TQ232737	0	28-Aug-18 Native	TQ23627371 Art edge of woodland by path on N side of Tibbet's Corner
Rosa arvensis	Field-rose	Wimbledon Common	TQ2171	0	04-Jul-19 Native	TQ21657160 Perimeter of equestrian manege
Rosa canina	Dog-rose	Wimbledon Common	TQ2171	0	04-Jul-19 Native	TQ21597156 Perimeter of open grassy area N of path
Rosa canina agg.	Dog-rose	Putney Heath	TQ230725	0	10-Sep-00 Not recorded	
Rosa canina agg.	Dog-rose	Wimbledon Common	TQ230720	0	14-Jun-19 Native	TQ23257207 Shrub with reddish zig-zag stems in open plain
Rosa micrantha	Small-flowered Sweet-briar	Putney Heath	TQ230725	0	10-Sep-00 Not recorded	
Rosa obtusifolia	Round-leaved Dog-rose	Putney Heath	TQ230725	-7	27-Mar-11 Not recorded	See 2002 record. Apparently cleared as habitat improvement for skylarks
Rosa obtusifolia	Round-leaved Dog-rose	Wimbledon Common	TQ226727	0	1984 Native	
Rosa rubiginosa agg.	Sweet-briar	Putney Heath	TQ230725	0	10-Sep-00 Not recorded	
Rosa tomentosa	Harsh Downy-rose	Putney Heath	TQ228728	0	10-Sep-00 Not recorded	TQ22837281
Rubus armeniacus		Putney Heath	TQ2273	0	21-Feb-19 Not recorded	
Rubus armeniacus		Wimbledon Common	TQ230720	0	14-Jun-19 Established	Arching shrub in woodland W of Parkside
Rubus caesius	Dewberry	Wimbledon Common	TQ2271	0	29-May-19 Native	TQ22147165 Perimeter of manège
Rubus cissburiensis		Putney Heath	TQ230725	0	10-Sep-00 Not recorded	
Rubus fruticosus agg.	Bramble	Putney Heath	TQ2373	-3	24-Apr-19 Unknown	
Rubus fruticosus agg.	Bramble	Putney Heath	TQ229731	-22	12-Oct-18 Native	Jerry's Hill
Rubus fruticosus agg.	Bramble	Putney Heath, N of A3	TQ232737	-3	24-Apr-19 Native	Woodland W of reservoir
Rubus fruticosus agg.	Bramble	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18 Unknown	
Rubus fruticosus agg.	Bramble	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	
Rubus fruticosus agg.	Bramble	Wimbledon Common	TQ230720	-23	14-Jun-19 Native	
Rubus fruticosus agg.	Bramble	Wimbledon Common, Farm Bog	TQ223713	-3	05-Oct-18 Native	
Rubus fruticosus agg.	Bramble	Wimbledon Common, Stag Bog	TQ219719	-21	04-Jul-19 Native	Covering much of formerly boggy area
Rubus idaeus	Raspberry	Wimbledon Common	TQ2171	-23	04-Jul-19 Established	TQ21797106 E side of open grassy area W of Warren Farm
Rubus laciniatus		Wimbledon Common	TQ2272	0	29-May-19 Established	W side of Windmill Rd
Rubus surrejanus		Putney Heath	TQ230725	0	10-Sep-00 Not recorded	
Rumex acetosa	Common Sorrel	Putney Heath	TQ228733	0	12-Oct-18 Native	NW fringe of common along Putney Heath
Rumex acetosa	Common Sorrel	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	
Rumex acetosa	Common Sorrel	Wimbledon Common	TQ2171	-4	04-Jul-19 Native	TQ21757107 Open grassy area W of Warren Farm
Rumex acetosella	Sheep's Sorrel	Putney Heath	TQ228733	-23	12-Oct-18 Native	TQ22887346 Short turf W of Putney Village
Rumex acetosella	Sheep's Sorrel	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18 Native	
Rumex acetosella	Sheep's Sorrel	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	
Rumex acetosella	Sheep's Sorrel	Putney, Roehampton Cricket Field	TQ232738	-4	24-Apr-19 Native	In short dry turf
Rumex acetosella	Sheep's Sorrel	Wimbledon Common	TQ2171	-23	04-Jul-19 Native	TQ21687152 Open grassy area
Rumex acetosella	Sheep's Sorrel	Wimbledon Common, Rushmere P	TQ234711	-22	16-May-19 Native	Short turf by pond
Rumex conglomeratus	Clustered Dock	Putney Heath	TQ228733	0	23-Jun-14 Native	
Rumex conglomeratus	Clustered Dock	Putney Heath, NE of Windmill	TQ232727	1	21-Sep-18 Native	TQ23057247 In field NE of Windmill café area
Rumex crispus	Curled Dock	Putney Heath	TQ2273	0	21-Feb-19 Not recorded	
Rumex crispus	Curled Dock	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	
Rumex crispus	Curled Dock	Wimbledon Common	TQ2171	0	04-Jul-19 Native	TQ21657160 Perimeter of equestrian manege
Rumex obtusifolius	Broad-leaved Dock	Putney Heath	TQ2373	-4	24-Apr-19 Native	In herbage between Wimbledon Park Side and woodland to W
Rumex obtusifolius	Broad-leaved Dock	Putney Heath, N of A3	TQ232737	-4	24-Apr-19 Native	Verge of Wildcroft Rd
Rumex obtusifolius	Broad-leaved Dock	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18 Native	In field NE of Windmill café area
Rumex obtusifolius	Broad-leaved Dock	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	
Rumex obtusifolius	Broad-leaved Dock	Wimbledon Common	TQ230720	0	14-Jun-19 Native	
Rumex salicifolius	Willow-leaved Dock	Wimbledon Common	TQ2171	0	1957 Casual	TQ215716 Near horse-jumping ground. In herb JEL
Rumex sanguineus	Wood Dock	Putney Heath	TQ2373	-4	28-Aug-18 Native	In woodland near King's Mere
Rumex sanguineus	Wood Dock	Putney Heath	TQ229731	-4	12-Oct-18 Native	Jerry's Hill

Rumex sanguineus	Wood Dock	Putney Heath, N of A3	TQ232737	-4	24-Apr-19 Native	Woodland W of reservoir
Rumex sanguineus	Wood Dock	Wimbledon Common	TQ230720	-4	14-Jun-19 Native	Wooded areas
Rumex sanguineus	Wood Dock	Wimbledon Common, Beverley Br	TQ214713	-4	04-Jul-19 Native	Scattered along wooded banks
Rumex sanguineus	Wood Dock	Wimbledon Common, Kings Mere	TQ232733	-4	24-Apr-19 Native	In herbage near pond
Sagina apetala subsp. apetala	Annual Pearlwort	Wimbledon Common	TQ2272	-4	14-Jun-19 Native	TQ22987245 By public conveniences in cafe area
Sagina procumbens	Procumbent Pearlwort	Wimbledon Common	TQ2271	0	29-May-19 Native	TQ22147165 Perimeter of manège
Salix alba	White Willow	Wimbledon Common	TQ2371	0	16-May-19 Established	Large tree on N side of North view
Salix aurita	Eared Willow	Wimbledon Common, Farm Bog	TQ2271	0	14-Jun-61 Native	On record card B Welch states 'not v. good' - Was he not happy with the ident?
Salix caprea	Goat Willow	Putney Heath	TQ2373	0	24-Apr-19 Native	
Salix caprea	Goat Willow	Putney Heath, N of A3	TQ232737	0	24-Apr-19 Native	Woodland N of cricket ground
Salix caprea	Goat Willow	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	
Salix caprea	Goat Willow	Wimbledon Common	TQ2171	0	04-Jul-19 Native	TQ21657160 Perimeter of equestrian manege
Salix caprea	Goat Willow	Wimbledon Common, Queen's Me	TQ226724	0	14-Sep-18 Native	
Salix cinerea	Grey Willow	Putney Heath	TQ228733	0	23-Jun-14 Native	
Salix cinerea	Grey Willow	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	
Salix cinerea	Grey Willow	Wimbledon Common	TQ2171	0	20-Jun-15 Native	
Salix cinerea subsp. cinerea	Grey Willow	Wimbledon Common	TQ2271	0	29-May-19 Native	By damp path in scrub
Salix cinerea subsp. oleifolia	Rusty Willow	Putney Heath	TQ2373	-4	24-Apr-19 Native	
Salix cinerea subsp. oleifolia	Rusty Willow	Putney Heath	TQ229731	-4	12-Oct-18 Native	Jerry's Hill
Salix cinerea subsp. oleifolia	Rusty Willow	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18 Native	
Salix cinerea subsp. oleifolia	Rusty Willow	Putney Heath, NW of Windmill	TQ232727	-4	14-Jun-19 Native	In damper areas
Salix cinerea subsp. oleifolia	Rusty Willow	Wimbledon Common	TQ2371	-4	16-May-19 Native	TQ23107149 By ditch
Salix cinerea subsp. oleifolia	Rusty Willow	Wimbledon Common, Bluegate Po	TQ235718	-4	27-Sep-18 Native	Margins
Salix cinerea subsp. oleifolia	Rusty Willow	Wimbledon Common, Farm Bog	TQ223713	-23	29-May-19 Native	Thicket in W part of bog
Salix cinerea subsp. oleifolia	Rusty Willow	Wimbledon Common, Kings Mere	TQ232733	-4	28-Aug-18 Native	
Salix cinerea subsp. oleifolia	Rusty Willow	Wimbledon Common, Rushmere P	TQ235710	-4	27-Sep-18 Native	Pond margins
Salix pentandra	Bay Willow	Putney Heath	TQ230725	0	10-Sep-00 Not recorded	
Salix purpurea	Purple Willow	Putney Heath	TQ230734	1	Sep-91 Native	TQ232733 N bank of King's Mere right by the A3. A well established bush
Salix repens	Creeping Willow	Putney Heath	TQ2373	-4	24-Apr-19 Native	TQ23217312 et al. In open heathy areas
Salix repens	Creeping Willow	Wimbledon Common	TQ230720	-4	14-Jun-19 Native	TQ23367207 Large patches at this location and other open heathy areas
Salix viminalis	Osier	Putney Heath	TQ2373	1	28-Aug-18 Established	TQ23463345 At S edge of open area on S side of A3, SW of Tibbets Corner
Salix x fragilis	Hybrid Crack-willow (S. eu	Putney Heath	TQ229731	0	12-Oct-18 Unknown	TQ22742308 Curling Pond
Salix x fragilis	Hybrid Crack-willow (S. eu	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	
Salix x fragilis	Hybrid Crack-willow (S. eu	Wimbledon Common	TQ2171	-4	04-Jul-19 Not recorded	Several trees on S and E side of open grassy area W of Warren Farm
Salix x fragilis	Hybrid Crack-willow (S. eu	Wimbledon Common, Kings Mere	TQ232733	0	28-Aug-18 Established	On N edge
Salix x multinervis	S. aurita x cinerea	Putney Heath	TQ232729	-23	01-Oct-16 Native	TQ23257296 On W side of horse ride
Salix x multinervis	S. aurita x cinerea	Wimbledon Common	TQ2371	0	1984 Not recorded	
Salix x reichardtii	S. caprea x cinerea	Wimbledon Common, Kings Mere	TQ232733	0	24-Apr-19 Native	
Sambucus nigra	Elder	Putney Heath	TQ2373	0	24-Apr-19 Native	In scrub between Wimbledon Park Side and woodland to W
Sambucus nigra	Elder	Putney Heath, N of A3	TQ232737	0	24-Apr-19 Native	Verge on N side of Telegraph Rd
Sambucus nigra	Elder	Wimbledon Common	TQ230720	-4	14-Jun-19 Native	Wooded areas
Sambucus nigra	Elder	Wimbledon Common, Beverley Br	TQ214713	-4	04-Jul-19 Native	
Schedonorus arundinaceus	Tall Fescue	Putney Heath	TQ228733	0	12-Oct-18 Native	NW fringe of common on E verge of Treville Rd
Schedonorus arundinaceus	Tall Fescue	Putney Heath, NE of Windmill	TQ232727	-23	21-Sep-18 Native	On verge NE of Windmill café area
Schedonorus arundinaceus	Tall Fescue	Wimbledon Common	TQ230720	0	14-Jun-19 Native	In rough herbage
Schedonorus giganteus	Giant Fescue	Wimbledon Common	TQ2272	0	09-May-19 Native	TQ22417293 Woodland fringe E of cemetery
Schoenoplectus tabernaemontani	Grey Club-rush	Putney Heath	TQ228731	0	1987 Not recorded	TQ227730 5 or more healthy flower stems in pond that is dominated by Eleogiton fluitans
Scorzoneroïdes autumnalis	Autumn Hawkbit	Putney Heath	TQ2373	-4	28-Aug-18 Native	In open heathy areas
Scorzoneroïdes autumnalis	Autumn Hawkbit	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18 Native	
Scorzoneroïdes autumnalis	Autumn Hawkbit	Wimbledon Common	TQ2271	-4	05-Oct-18 Native	At edge of GC by Gravelly Ride
Scrophularia auriculata	Water Figwort	Wimbledon Common	TQ2171	0	20-Jun-15 Native	
Scrophularia nodosa	Common Figwort	Wimbledon Common	TQ2371	0	16-May-19 Native	TQ23107149 By ditch
Scrophularia vernalis	Yellow Figwort	Wimbledon Common, Plateau Wo	TQ228717	0	1950 Not recorded	TQ217716 Waste ground under birches
Scutellaria galericulata	Skullcap	Wimbledon Common	TQ2171	0	20-Jun-15 Native	
Senecio aquaticus	Marsh Ragwort	Wimbledon Common, Beverley Br	TQ214713	1	Aug-97 Native	Close to Beverley Brook, Beverley Meads playing fields, just S of Robin Hood Ride Bridge.
Senecio erucifolius	Hoary Ragwort	Putney Heath	TQ230725	0	10-Sep-00 Not recorded	
Senecio erucifolius	Hoary Ragwort	Putney Heath	TQ229731	0	12-Oct-18 Native	Jerry's Hill
Senecio erucifolius	Hoary Ragwort	Putney Heath, N of A3	TQ232737	0	28-Aug-18 Native	By path on N side of reservoirs
Senecio jacobaea	Common Ragwort	Putney Heath	TQ2273	0	21-Feb-19 Not recorded	
Senecio jacobaea	Common Ragwort	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18 Native	In field NE of Windmill café area
Senecio jacobaea	Common Ragwort	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	
Senecio jacobaea	Common Ragwort	Putney, Roehampton Cricket Field	TQ232738	0	24-Apr-19 Native	In outfield
Senecio jacobaea	Common Ragwort	Wimbledon Common	TQ2171	-4	04-Jul-19 Native	TQ21657160 Perimeter of equestrian manege
Senecio jacobaea	Common Ragwort	Wimbledon Common, Kings Mere	TQ232733	0	28-Aug-18 Native	By pond margin
Senecio squalidus	Oxford Ragwort	Putney Heath	TQ228733	0	23-Jun-14 Neophyte	
Senecio squalidus	Oxford Ragwort	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	
Senecio squalidus	Oxford Ragwort	Wimbledon Common, Rushmere P	TQ234711	-23	16-May-19 Established	Verge N and S of The Causeway
Senecio sylvaticus	Heath Groundsel	Wimbledon Common, Rushmere P	TQ234711	-4	16-May-19 Native	TQ23577121 In triangular area of rough herbage N of The Causeway
Senecio vulgaris	Groundsel	Putney Heath	TQ2273	0	21-Feb-19 Not recorded	
Senecio vulgaris	Groundsel	Putney Heath, N of A3	TQ232737	0	24-Apr-19 Native	Open grassy area W of cricket ground
Senecio vulgaris	Groundsel	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18 Native	In Windmill café area
Senecio vulgaris	Groundsel	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13 Not recorded	

<i>Senecio vulgaris</i>	Groundsel	Putney, Roehampton Cricket Field	TQ232738	0	24-Apr-19	Native	In outfield
<i>Senecio vulgaris</i>	Groundsel	Wimbledon Common	TQ2271	0	29-May-19	Native	TQ22147165 Perimeter of manège
<i>Serratula tinctoria</i>	Saw-wort	Wimbledon Common	TQ221721	0	1950	Native	A few by paths in wood.
<i>Sherardia arvensis</i>	Field Madder	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Silene flos-cuculi</i>	Ragged-Robin	Wimbledon Common, Farm Bog	TQ2271	-23	25-Jun-44	Not recorded	TQ27F. Also seen 1945 & 1946
<i>Silene latifolia</i>	White Campion	Wimbledon Common	TQ2171	0	04-Jul-19	Established	TQ21597156 Open disturbed area N of path
<i>Silene vulgaris</i>	Bladder Campion	Putney Heath	TQ230725	0	29-Apr-07	Native	TQ23017247. A few plants behind a bench by the Windmill.
<i>Sinapis arvensis</i>	Charlock	Putney Heath	TQ228733	0	23-Jun-14	Archaeophyte	
<i>Sisymbrium officinale</i>	Hedge Mustard	Kingston Vale, Commons Extension	TQ213715	-4	04-Jul-19	Established	Disturbed ground S of Robin Hood Rd by pavillion
<i>Sisymbrium officinale</i>	Hedge Mustard	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
<i>Sisymbrium officinale</i>	Hedge Mustard	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Casual	By track NE of Windmill café area
<i>Sisymbrium officinale</i>	Hedge Mustard	Putney Heath, Seven Post Pond	TQ236733	0	24-Apr-19	Established	Few rosettes near pond
<i>Sisymbrium officinale</i>	Hedge Mustard	Wimbledon Common	TQ230720	-4	14-Jun-19	Established	Disturbed areas and along paths
<i>Sisymbrium officinale</i>	Hedge Mustard	Wimbledon Common, Rushmere P	TQ234711	0	27-Sep-18	Established	In triangular area of grassland between The Causeway and West Side Common
<i>Solanum dulcamara</i>	Bittersweet	Putney Heath	TQ228733	0	23-Jun-14	Native	
<i>Solanum dulcamara</i>	Bittersweet	Wimbledon Common	TQ2271	0	29-May-19	Native	TQ22147165 Perimeter of manège
<i>Solanum dulcamara</i>	Bittersweet	Wimbledon Common, Beverley Br	TQ214713	0	02-Nov-18	Native	TQ21467153 On bank by FB
<i>Solanum dulcamara</i>	Bittersweet	Wimbledon Common, Farm Bog	TQ223713	0	05-Oct-18	Native	
<i>Solanum lycopersicum</i>	Tomato	Putney Heath	TQ228733	0	12-Oct-18	Casual	TQ22877354 Mown grass W of Portsmouth Rd
<i>Solanum nigrum</i>	Black Nightshade	Wimbledon Common	TQ2370	0	05-Oct-18	Established	S fringe of common
<i>Solanum nigrum subsp. nigrum</i>	Black Nightshade	Putney Heath, N of A3	TQ232737	1	28-Aug-18	Native	By path on N side of Tibbet's Corner
<i>Solanum nigrum subsp. nigrum</i>	Black Nightshade	Wimbledon Common	TQ2271	-4	05-Oct-18	Native	TQ22557137 Around car park by Springwell Cottage
<i>Soleirolia soleirolia</i>	Mind-your-own-business	Wimbledon Common	TQ2171	0	20-Jun-15	Not recorded	
<i>Solidago canadensis</i>	Canadian Goldenrod	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Sonchus arvensis</i>	Perennial Sow-thistle	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Sonchus asper</i>	Prickly Sow-thistle	Putney Heath	TQ228733	0	23-Jun-14	Native	
<i>Sonchus asper</i>	Prickly Sow-thistle	Putney Heath	TQ229731	0	12-Oct-18	Native	Jerry's Hill
<i>Sonchus asper</i>	Prickly Sow-thistle	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
<i>Sonchus asper</i>	Prickly Sow-thistle	Wimbledon Common	TQ2171	0	04-Jul-19	Native	TQ21657160 Perimeter of equestrian manege
<i>Sonchus oleraceus</i>	Smooth Sow-thistle	Putney Heath	TQ2373	0	24-Apr-19	Native	By path on E side of open area on S side of A3, SW of Tibbet's Corner
<i>Sonchus oleraceus</i>	Smooth Sow-thistle	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Native	Verge of Wildcroft Rd
<i>Sonchus oleraceus</i>	Smooth Sow-thistle	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Native	In Windmill café area
<i>Sonchus oleraceus</i>	Smooth Sow-thistle	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
<i>Sonchus oleraceus</i>	Smooth Sow-thistle	Wimbledon Common	TQ230720	0	14-Jun-19	Native	Disturbed ground near ranger's office
<i>Sorbus aria</i>	Common Whitebeam	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Sapling growing under large London Plane on S side of Telegraph Rd
<i>Sorbus aucuparia</i>	Rowan	Putney Heath	TQ2373	-4	24-Apr-19	Native	In woodland near Kings Mere, et al
<i>Sorbus aucuparia</i>	Rowan	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
<i>Sorbus aucuparia</i>	Rowan	Wimbledon Common	TQ2271	-4	29-May-19	Native	Mature trees and spalings in wooded areas
<i>Sorbus aucuparia</i>	Rowan	Wimbledon Common, Farm Bog	TQ223713	0	05-Oct-18	Native	Scrub by bog
<i>Sparganium emersum</i>	Unbranched Bur-reed	Wimbledon Common, Beverley Br	TQ214713	0	Sep-99	Native	TQ215713. Two small patches in the Beverley Brook
<i>Sparganium erectum</i>	Branched Bur-reed	Putney Heath, Seven Post Pond	TQ236733	0	28-Aug-18	Native	Large patch near W edge
<i>Sparganium erectum</i>	Branched Bur-reed	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Native	In silt on W side where logs have been placed to reduce rate of water flow
<i>Spartium junceum</i>	Spanish Broom	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Spartium junceum</i>	Spanish Broom	Putney Heath	TQ229731	-4	12-Oct-18	Established	TQ22857307 Several large established bushes, Jerry's Hill
<i>Spartium junceum</i>	Spanish Broom	Wimbledon Common, Rushmere P	TQ234711	-4	16-May-19	Established	TQ23617126 Established plants in triangular area N of The Causeway
<i>Spergularia rubra</i>	Sand Spurrey	Putney Heath	TQ230725	-23	04-Jul-11	Native	In sandy area S. of Windmill
<i>Spergularia rubra</i>	Sand Spurrey	Wimbledon Common	TQ2371	-23	16-May-19	Native	TQ23567138 Many plants in damp disturbed area W of Parkside
<i>Spergularia rubra</i>	Sand Spurrey	Wimbledon Common, Rushmere P	TQ234711	-4	27-Sep-18	Not recorded	TQ23497100 Several patches in short turf near Rushmere Pond
<i>Spirodela polyrhiza</i>	Greater Duckweed	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Spirodela polyrhiza</i>	Greater Duckweed	Putney Heath, Seven Post Pond	TQ236733	-5	11-Jul-09	Native	N. edge
<i>Spirodela polyrhiza</i>	Greater Duckweed	Wimbledon Common, Queen's Me	TQ226724	0	09-May-19	Native	SE margin
<i>Stachys sylvatica</i>	Hedge Woundwort	Putney Heath	TQ228733	0	23-Jun-14	Native	
<i>Stachys sylvatica</i>	Hedge Woundwort	Wimbledon Common	TQ2171	0	02-Nov-18	Native	
<i>Stachys sylvatica</i>	Hedge Woundwort	Wimbledon Common, Beverley Br	TQ214713	-4	04-Jul-19	Native	By FP on E side
<i>Stellaria graminea</i>	Lesser Stitchwort	Wimbledon Common	TQ2171	-23	04-Jul-19	Native	TQ21687152 Open grassy area
<i>Stellaria holostea</i>	Greater Stitchwort	Putney Heath	TQ2373	0	24-Apr-19	Native	TQ23637348 Wimbledon Park Side. Patch to c.3m on W side
<i>Stellaria holostea</i>	Greater Stitchwort	Wimbledon Common	TQ2171	0	02-Nov-18	Native	Fringe of open area W of Warren Farm
<i>Stellaria media</i>	Common Chickweed	Putney Heath	TQ2373	0	24-Apr-19	Native	By path on E side of open area on S side of A3, SW of Tibbet's Corner
<i>Stellaria media</i>	Common Chickweed	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Native	In Windmill café area
<i>Stellaria media</i>	Common Chickweed	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
<i>Stellaria media</i>	Common Chickweed	Putney, Roehampton Cricket Field	TQ232738	0	24-Apr-19	Native	
<i>Stellaria media</i>	Common Chickweed	Wimbledon Common	TQ230720	0	14-Jun-19	Native	Beside ditch SE of windmill
<i>Stellaria pallida</i>	Lesser Chickweed	Putney Heath	TQ230725	-22	27-Mar-11	Native	TQ23157241 Over c.2 sq m in very short turf
<i>Stellaria pallida</i>	Lesser Chickweed	Wimbledon Common	TQ2272	0	09-May-19	Native	TQ22627218 Patch on E side of fairway
<i>Stranvaesia davidiana</i>	Stranvaesia	Wimbledon Common	TQ2271	15	Aug-97	Established	TQ220711 Along fence line betweencommon & GC, back of Warren Farm, either planted or bird-sown
<i>Symphoricarpos albus</i>	Snowberry	Putney Heath	TQ228733	0	12-Oct-18	Established	NW fringe of heath N of church
<i>Symphoricarpos albus</i>	Snowberry	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
<i>Symphytum orientale</i>	White Comfrey	Putney Heath	TQ228733	0	23-Jun-14	Neophyte	
<i>Symphytum orientale</i>	White Comfrey	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Small patch on verge of Telegraph Rd
<i>Symphytum orientale</i>	White Comfrey	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
<i>Symphytum x uplandicum</i>	Russian Comfrey (S. asper)	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Symphytum x uplandicum</i>	Russian Comfrey (S. asper)	Putney Heath, N of A3	TQ232737	-4	28-Aug-18	Established	By path on N side of reservoirs

Tamus communis	Black Bryony	Wimbledon Common	TQ2272	0	14-Sep-18	Native	Detached fragment by path E of cemetery
Tanacetum parthenium	Feverfew	Wimbledon Common	TQ2370	0	15-Mar-14	Not recorded	
Taraxacum agg.	Dandelion	Putney Heath	TQ2373	-3	28-Aug-18	Unknown	In open heathy areas
Taraxacum agg.	Dandelion	Putney Heath	TQ229731	-4	12-Oct-18	Native	Jerry's Hill
Taraxacum agg.	Dandelion	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Verge of Wildcroft Rd
Taraxacum agg.	Dandelion	Putney Heath, NE of Windmill	TQ232727	-3	21-Sep-18	Unknown	In Windmill café area
Taraxacum agg.	Dandelion	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Taraxacum agg.	Dandelion	Wimbledon Common	TQ2171	0	04-Jul-19	Native	TQ21597156 Open disturbed area N of path
Taraxacum laciniophyllum		Wimbledon Common	TQ2272	0	09-May-19	Native	TQ22547203 On short turf on W side of fairway
Taxus baccata	Yew	Putney Heath	TQ2373	-4	24-Apr-19	Native	In woodland near Kings Mere
Taxus baccata	Yew	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Woodland N of cricket ground
Taxus baccata	Yew	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Taxus baccata	Yew	Wimbledon Common	TQ2271	0	29-May-19	Native	Woodland W of Windmill Rd
Taxus baccata	Yew	Wimbledon Common, Beverley Bri	TQ214713	0	04-Jul-19	Native	Large tree on W bank S of Capital Ring
Teesdalia nudicaulis	Shepherd's Cress	Wimbledon Common	TQ225715	-7	1981	Not recorded	TQ27F Not found despite various searches 1981 to 1992
Teucrium scorodonia	Wood Sage	Wimbledon Common	TQ2272	0	09-May-19	Native	Woodbank E of cemetery
Tilia platyphyllos	Large-leaved Lime	Wimbledon Common	TQ2272	0	09-May-19	Unknown	TQ22537293 Mature tree with seedlings in woodland E of cemetery
Tilia platyphyllos	Large-leaved Lime	Wimbledon Common, Beverley Bri	TQ214713	0	02-Nov-18	Native	TQ21507161 2m sapling on E bank of brook
Tilia x europaea	Lime	Putney Heath	TQ228733	0	23-Jun-14	Native	
Tilia x europaea	Lime	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Tilia x europaea	Lime	Wimbledon Common	TQ2371	0	23-Jun-15	Not recorded	
Torilis japonica	Upright Hedge-parsley	Wimbledon Common	TQ2171	0	20-Jun-15	Native	
Tragopogon pratensis	Goat's-beard	Putney Heath	TQ228733	0	23-Jun-14	Native	
Tragopogon pratensis	Goat's-beard	Wimbledon Common	TQ230720	0	14-Jun-19	Native	S side of Windmill Rd between car park and Parkside
Tragopogon pratensis subsp. mino	Goat's-beard	Wimbledon Common, Rushmere P	TQ234711	0	16-May-19	Native	TQ23577121 In triangular area of rough herbage N of The Causeway
Trifolium campestre	Hop Trefoil	Wimbledon Common	TQ230720	0	14-Jun-19	Native	TQ23197228 Small patch in open grassy plain S of Windmill Rd
Trifolium dubium	Lesser Trefoil	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Trifolium dubium	Lesser Trefoil	Wimbledon Common	TQ230720	-4	14-Jun-19	Native	In open grassy plain
Trifolium dubium	Lesser Trefoil	Wimbledon Common, Rushmere P	TQ234711	0	16-May-19	Native	In area of rough herbage in triangular area N of The Causeway
Trifolium hybridum	Alsike Clover	Wimbledon Common	TQ230720	0	14-Jun-19	Established	TQ23257207 Small patch by damp depression
Trifolium micranthum	Slender Trefoil	Wimbledon Common	TQ2271	-23	29-May-19	Native	TQ22897153 Open area E of Windmill Rd et al
Trifolium micranthum	Slender Trefoil	Wimbledon Common, Farm Bog	TQ2271	0	14-Jun-61	Native	E of head of Farm Bog on W edge of large flat golf green.
Trifolium orinthopodioides	Bird's-foot Clover	Wimbledon Common	TQ227723	0	31-May-95	Not recorded	TQ227722 A cluster of minute plants SW of windmill in middle of fairway a little W of deep gully.
Trifolium orinthopodioides	Bird's-foot Clover	Wimbledon Common, Farm Bog	TQ2271	0	14-Jun-61	Not recorded	TQ27F E of head of Farm Bog on W edge of large flat golf green.
Trifolium pratense	Red Clover	Putney Heath	TQ2373	0	24-Apr-19	Native	In field on S side of A3, SW of Tibbet's Corner
Trifolium pratense	Red Clover	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	TQ21757107 Open grassy area W of Warren Farm
Trifolium pratense	Red Clover	Wimbledon Common, Rushmere P	TQ234711	0	27-Sep-18	Native	In triangular area between The Causeway and West Side Common
Trifolium repens	White Clover	Putney Heath	TQ228733	0	12-Oct-18	Native	
Trifolium repens	White Clover	Putney, Roehampton Cricket Field	TQ232738	0	28-Aug-18	Native	
Trifolium repens	White Clover	Wimbledon Common	TQ2171	-23	04-Jul-19	Native	TQ21757107 Open grassy area W of Warren Farm
Trifolium repens	White Clover	Wimbledon Common, Rushmere P	TQ234711	0	27-Sep-18	Native	
Trifolium striatum	Knotted Clover	Wimbledon Common	TQ225715	100	16-Jun-91	Not recorded	TQ225713
Trifolium subterraneum	Subterranean Clover	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Tripleurospermum inodorum	Scentless Mayweed	Wimbledon Common, Beverley Bri	TQ214713	0	04-Jul-19	Established	Disturbed bank on E side
Triticum aestivum	Bread Wheat	Wimbledon Common, Rushmere P	TQ235710	0	27-Sep-18	Casual	Probably from wild bird food
Tropaeolum majus	Nasturtium	Wimbledon Common	TQ2271	0	05-Oct-18	Casual	On dumped garden waste N of Thatched Cottage
Tussilago farfara	Colt's-foot	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Typha latifolia	Bulrush	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
Typha latifolia	Bulrush	Putney Heath, Seven Post Pond	TQ236733	0	24-Apr-19	Established	
Typha latifolia	Bulrush	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Native	TQ22377126 Patch in small pool in S of bog
Ulex europaeus	Gorse	Putney Heath	TQ2373	0	24-Apr-19	Native	In woodland near Kings Mere
Ulex europaeus	Gorse	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Established	Woodland N of cricket ground
Ulex europaeus	Gorse	Putney Heath, NE of Windmill	TQ232727	-4	21-Sep-18	Native	
Ulex europaeus	Gorse	Putney Heath, NW of Windmill	TQ232727	-4	14-Jun-19	Native	Open heathy areas
Ulex europaeus	Gorse	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Ulex europaeus	Gorse	Wimbledon Common	TQ2271	-4	29-May-19	Native	Scrub by GC
Ulmus agg.	Elm	Wimbledon Common	TQ2271	-4	29-May-19	Unknown	Path W of Springwell Cottage
Ulmus glabra	Wych Elm	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Ulmus glabra	Wych Elm	Wimbledon Common, Beverley Bri	TQ214713	0	04-Jul-19	Native	Two very tall trees on W bank S of the Capital ring. Many saplings
Ulmus procera	English Elm	Putney Heath	TQ228733	0	12-Oct-18	Native	
Ulmus procera	English Elm	Putney Heath, N of A3	TQ232737	-23	24-Apr-19	Native	Woodland W of reservoir
Ulmus procera	English Elm	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Ulmus procera	English Elm	Wimbledon Common	TQ230720	0	14-Jun-19	Native	Woodland E of Parkside
Umbilicus rupestris	Navelwort	Wimbledon Common, Beverley Bri	TQ214713	0	04-Jul-19	Established	TQ21667198 Looking rather brown and shrivelled
Urtica dioica	Common Nettle	Putney Heath	TQ2273	0	21-Feb-19	Not recorded	
Urtica dioica	Common Nettle	Putney Heath	TQ229731	-4	12-Oct-18	Native	Jerry's Hill
Urtica dioica	Common Nettle	Putney Heath, N of A3	TQ232737	-22	28-Aug-18	Native	By paths
Urtica dioica	Common Nettle	Putney Heath, NE of Windmill	TQ232727	0	21-Sep-18	Native	In Windmill café area
Urtica dioica	Common Nettle	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
Urtica dioica	Common Nettle	Wimbledon Common	TQ230720	-23	14-Jun-19	Native	In rough herbage
Urtica dioica	Common Nettle	Wimbledon Common, Beverley Bri	TQ214713	-4	04-Jul-19	Native	
Urtica dioica	Common Nettle	Wimbledon Common, Kings Mere	TQ232733	-4	24-Apr-19	Native	herbage near pond

<i>Urtica membranacea</i>		Putney Heath, N of A3	TQ232737	0	24-Apr-19	Casual	TQ23297374 Robust plant in trough in garden of 1 Wildcroft Rd
<i>Urtica urens</i>	Small Nettle	Putney Heath, NE of Windmill	TQ232727	-3	21-Sep-18	Established	In Windmill café area
<i>Urtica urens</i>	Small Nettle	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
<i>Urtica urens</i>	Small Nettle	Wimbledon Common	TQ227723	1	28-Aug-18	Casual	TQ22997248 At edge of car park, near cafe
<i>Valeriana officinalis</i>	Common Valerian	Wimbledon Common, Hookhams	TQ231718	3	06-Jun-09	Native	TQ22967184 at side of drainage ditch in wooded area
<i>Valerianella locusta</i>	Common Corsalad	Wimbledon Common	TQ2271	0	29-May-19	Casual	TQ22607134 By boundary fence of Springwell Cottage
<i>Verbascum thapsus</i>	Great Mullein	Wimbledon Common	TQ230720	0	14-Jun-19	Native	In grounds of ranger's office
<i>Verbena officinalis</i>	Vervain	Wimbledon Common, Queen's Me	TQ226724	-4	14-Sep-18	Native	Robust plants growing on N margin and beside path
<i>Veronica arvensis</i>	Wall Speedwell	Putney Heath, N of A3	TQ232737	0	24-Apr-19	Native	Verge of Telegraph Rd
<i>Veronica arvensis</i>	Wall Speedwell	Wimbledon Common	TQ2271	-4	29-May-19	Native	TQ22897153 Open area E of Windmill Rd et al
<i>Veronica beccabunga</i>	Brooklime	Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Native	In silt where logs have been placed to reduce rate of water flow S of FB at E end of Robin Hood Rd
<i>Veronica chamaedrys</i>	Germander Speedwell	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
<i>Veronica chamaedrys</i>	Germander Speedwell	Wimbledon Common	TQ2171	-4	04-Jul-19	Native	Scattered in open woodland
<i>Veronica hederifolia</i>	Ivy-leaved Speedwell	Putney Heath	TQ2373	-23	24-Apr-19	Established	By path on E side of open area on S side of A3, SW of Tibbet's Corner, et al
<i>Veronica hederifolia</i>	Ivy-leaved Speedwell	Putney Heath, N of A3	TQ232737	-23	24-Apr-19	Established	Woodland W of reservoir
<i>Veronica hederifolia</i>	Ivy-leaved Speedwell	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
<i>Veronica hederifolia</i>	Ivy-leaved Speedwell	Wimbledon Common	TQ2271	0	29-May-19	Established	Path through wooded area
<i>Veronica hederifolia</i>	Ivy-leaved Speedwell	Wimbledon Common, Farm Bog	TQ223713	0	29-May-19	Established	Small patch on N margin of bog
<i>Veronica montana</i>	Wood Speedwell	Wimbledon Common	TQ2171	0	02-Nov-18	Native	FP E of Beverley Brook
<i>Veronica montana</i>	Wood Speedwell	Wimbledon Common, Stag Bog	TQ219719	0	04-Jul-19	Native	
<i>Veronica persica</i>	Common Field-speedwell	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
<i>Veronica persica</i>	Common Field-speedwell	Wimbledon Common	TQ2271	0	05-Oct-18	Established	By Springwell Cottage
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell	Wimbledon Common	TQ2271	0	29-May-19	Native	TQ22147165 Perimeter of manège
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell	Wimbledon Common, Stag Bog	TQ219719	0	04-Jul-19	Native	On path adjacent to formerly boggy area
<i>Vicia cracca</i>	Tufted Vetch	Wimbledon Common	TQ230720	0	21-Sep-18	Native	In herbage on W side of grassy plain
<i>Vicia hirsuta</i>	Hairy Tare	Putney Heath	TQ2373	-2	24-Apr-19	Native	In field on S side of A3, SW of Tibbet's Corner
<i>Vicia hirsuta</i>	Hairy Tare	Wimbledon Common	TQ230720	-23	14-Jun-19	Native	By mown path through longer vegetation W of wooded area
<i>Vicia hirsuta</i>	Hairy Tare	Wimbledon Common, Rushmere P	TQ234711	-23	16-May-19	Native	TQ23197126 Grassy area N of The Causeway
<i>Vicia lathyroides</i>	Spring Vetch	Wimbledon Common	TQ225715	10	20-May-91	Native	Wimbledon Common n. of Caesar's Camp
<i>Vicia lutea</i>	Yellow-vetch	Wimbledon Common	TQ2171	30	04-Jun-91	Not recorded	TQ215715
<i>Vicia sativa</i>	Common Vetch	Wimbledon Common	TQ2370	0	15-Mar-14	Not recorded	
<i>Vicia sativa subsp. segetalis</i>	Common Vetch	Putney Heath	TQ2373	-4	24-Apr-19	Established	In field on S side of A3, SW of Tibbet's Corner
<i>Vicia sativa subsp. segetalis</i>	Common Vetch	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Established	Open grassy area W of cricket ground
<i>Vicia sativa subsp. segetalis</i>	Common Vetch	Wimbledon Common	TQ2271	-4	29-May-19	Established	Fringes of scrub by GC
<i>Vicia tetrasperma</i>	Smooth Tare	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Vicia tetrasperma</i>	Smooth Tare	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Open grassy area W of cricket ground
<i>Vicia tetrasperma</i>	Smooth Tare	Wimbledon Common	TQ230720	0	14-Jun-19	Native	In longer vegetation on margins of open plain
<i>Vinca major</i>	Greater Periwinkle	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
<i>Viola riviniana</i>	Common Dog-violet	Putney Heath, N of A3	TQ232737	-4	24-Apr-19	Native	Banks of reservoir on E side of Wildcroft Rd
<i>Viola riviniana</i>	Common Dog-violet	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
<i>Viola riviniana</i>	Common Dog-violet	Wimbledon Common	TQ2371	0	16-May-19	Native	Pathside in wooded area E of Windmill Rd
<i>Viola sp.</i>		Wimbledon Common, Beverley Br	TQ214713	0	04-Jul-19	Native	Tuft with small sepal appendages. Leaves not enlarged
<i>Viola x wittrockiana</i>	Garden Pansy	Putney Heath, Tibbets Corner	TQ2373	0	19-Apr-13	Not recorded	
<i>Viscum album</i>	Mistletoe	Wimbledon Common	TQ228728	1	12-Oct-18	Native	TQ22987249 One smallish plant on Rowan in Windmill car park
<i>Vulpia bromoides</i>	Squirreltail Fescue	Putney Heath	TQ230725	0	10-Sep-00	Not recorded	
<i>Vulpia bromoides</i>	Squirreltail Fescue	Wimbledon Common	TQ2171	0	04-Jul-19	Native	On path adjacent to Stag Bog
<i>Vulpia myuros</i>	Rat's-tail Fescue	Wimbledon Common	TQ2171	0	20-Jun-15	Not recorded	

Appendix 4a Bird Standard Walk Data for Route A												
Wimbledon Common A (2019)												
4.5 km												
Recorder: Les Evans-Hill												
Species	A	B	C	D	E	F	G	TOTAL	Mean/Km	Variance	StDev	
Blackbird	4	6	20	31	15	7	18	101	22.44	79.10	8.89	
Blackcap	3	5	21	13	10	7	13	72	16.00	31.63	5.62	
Black-headed Gull	1	1	8	10	5	1	0	26	5.78	13.63	3.69	
Blue Tit	35	24	42	134	71	55	55	416	92.44	1127.10	33.57	
Bullfinch	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Canada Goose	5	0	0	0	25	0	0	30	6.67	74.49	8.63	
Carrion Crow	20	12	37	31	47	7	15	169	37.56	182.41	13.51	
Chaffinch	3	3	2	2	6	2	0	18	4.00	2.82	1.68	
Chiffchaff	2	2	11	2	17	7	6	47	10.44	27.35	5.23	
Coal Tit	4	1	1	9	6	2	3	26	5.78	7.35	2.71	
Common Buzzard	0	2	0	0	0	0	0	2	0.44	0.49	0.70	
Common Gull	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Common Whitethroat	1	0	4	0	2	0	0	7	1.56	2.00	1.41	
Coot	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Cormorant	2	0	0	0	0	0	0	2	0.44	0.49	0.70	
Duncock	1	0	20	4	3	1	2	31	6.89	41.96	6.48	
Fieldfare	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Firecrest	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Garden Warbler	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Goldcrest	1	0	0	8	2	1	1	13	2.89	6.69	2.59	
Goldfinch	7	0	12	3	5	4	0	31	6.89	15.10	3.89	
Great Spotted Woodpecker	0	5	5	5	3	3	3	24	5.33	2.82	1.68	
Great Tit	23	14	24	103	44	40	55	303	67.33	765.06	27.66	
Green Woodpecker	0	0	6	3	2	0	1	12	2.67	4.20	2.05	
Greenfinch	0	0	0	1	3	0	0	4	0.89	1.10	1.05	
Grey Heron	4	0	0	0	0	0	0	4	0.89	1.96	1.40	
Grey Wagtail	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Greylag Goose	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Herring Gull	1	0	0	0	0	0	0	1	0.22	0.12	0.35	
House Martin	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Jackdaw	2	9	11	4	9	1	6	42	9.33	12.57	3.55	
Jay	2	3	7	6	4	2	3	27	6.00	3.27	1.81	
Kestrel	1	1	2	0	1	1	0	6	1.33	0.41	0.64	
Lesser Black-backed Gull	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Lesser Redpoll	0	0	0	0	0	0	0	0	0.00	0.00	0.00	

Lesser Spotted Woodpecker	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Lesser Whitethroat	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Little Owl	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Long-tailed Tit	22	9	7	29	11	33	23	134	29.78	89.84	9.48	
Magpie	2	7	30	13	5	6	7	70	15.56	76.00	8.72	
Mallard	76	0	1	0	0	0	1	78	17.33	701.27	26.48	
Manderin	8	0	0	0	0	0	0	8	1.78	7.84	2.80	
Meadow Pipit	0	0	0	0	3	1	0	4	0.89	1.10	1.05	
Mistle Thrush	0	8	0	0	2	0	0	10	2.22	7.67	2.77	
Moorhen	11	0	0	0	0	0	1	12	2.67	14.49	3.81	
Mute Swan	2	0	0	0	0	0	0	2	0.44	0.49	0.70	
Nuthatch	0	1	0	6	4	1	1	13	2.89	4.41	2.10	
Pied Wagtail	1	0	0	0	0	0	0	1	0.22	0.12	0.35	
Redwing	0	13	0	5	15	0	1	34	7.56	36.41	6.03	
Reed Bunting	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Ring-necked Parakeet	9	13	13	17	29	10	18	109	24.22	39.39	6.28	
Robin	15	8	21	58	24	15	36	177	39.33	245.06	15.65	
Rock Dove	0	1	0	0	2	2	0	5	1.11	0.78	0.88	
Shoveler	3	0	0	0	0	0	0	3	0.67	1.10	1.05	
Siskin	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Skylark	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Song Thrush	3	2	11	21	10	9	8	64	14.22	33.55	5.79	
Sparrowhawk	0	1	0	0	0	0	0	1	0.22	0.12	0.35	
Starling	0	0	0	0	1	0	0	1	0.22	0.12	0.35	
Stock Dove	0	0	2	6	1	0	0	9	2.00	4.20	2.05	
Stonechat	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Swallow	1	0	0	0	0	0	0	1	0.22	0.12	0.35	
Swift	0	3	0	0	0	0	0	3	0.67	1.10	1.05	
Tawny Owl	0	0	0	1	0	0	0	1	0.22	0.12	0.35	
Treecreeper	0	1	0	0	0	0	0	1	0.22	0.12	0.35	
Tufted Duck	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Wheatear	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Whinchat	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Willow Warbler	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Woodpigeon	5	13	53	12	18	13	18	132	29.33	210.69	14.52	
Wren	8	10	22	26	21	15	23	125	27.78	40.98	6.40	
								Individuals	2412			
								Species	49			

Appendix 4b Bird Standard Walk Data for Route B													TOTAL	
Wimbledon Common route B														
Recorder: Adrian Podmore														
Year: 2019														
	Jan	12th Feb	10th Mar	4th Apr	31st May	June	July	8th Aug	15th Sep	9th Oct	Nov	10th Dec		
Blackbird		7	8	4	11			4	6	2		4		46
Blackcap				12	9			1						22
Black-headed gull		11	9							4		19		43
Blue tit		33	25	9	8			10	26	19		7		137
Bullfinch														0
Canada goose														0
Carrion crow		8	9	4	10			4	7	5		11		58
Chaffinch		3	2	5	2				2					14
Chiffchaff				2	3			1	1				7	
Coal tit			1					2					3	
Common gull													0	
Common whitethroat													0	
Coot		2	6	6	8			4	7	7		5	45	
Cormorant		1								1		2	4	
Dunnock			1	1	3			2	4			1	12	
Egyptian Goose					2			2					4	
Firecrest													0	
Garden warbler													0	
Goldcrest			2							4			6	
Goldfinch		10			1							6	17	
Great spotted woodpecker			3	2	3			3	1	2		1	15	
Great tit		9	15	7	12			6	11	4		3	67	
Green Woodpecker				1				2					3	
Greenfinch				2									2	
Grey heron								1		1			2	
Grey Wagtail		1		2									3	
House martin													0	
Jackdaw			15	6	4			4	11	6		14	60	

Jay		2	2					2		4		1	11
Kestrel												1	1
Lesser spotted woodpecker													0
Lesser whitethroat													0
Little Egret													0
Long-tailed tit			2					12	10	7			31
Magpie		4	6	4	1			4		3		2	24
Mallard		11	14	7	21			13	20	24		17	127
Mandarin		15	4	3	12			2		4		11	51
Mistle thrush		2							2				4
Moorhen		3	4	5	12			4	5	5		5	43
Mute swan		2	2	2	4			4		4			18
Nuthatch		2	3	2	1			4		1			13
Pied wagtail													0
Redwing		11	5									4	20
Ring-necked parakeet		2	5		2			4	6	1		4	24
Robin		10	8	9	12			14	9	8		3	73
Rock dove													0
Song thrush		5	8	4	5			2	2				26
Sparrowhawk													0
Starling					2								2
Stock dove				2	2								4
Swift					4								4
Tawny Owl				1									1
Treecreeper		1										1	2
Tufted duck		27	20	16	1			1	11	21		16	113
Willow warbler													0
Woodpigeon		6	5		7			9	18			5	50
Wren		1	5	2	4			4	2			3	21
TOTAL													1233
Species total		26	27	26	28			28	20	22		24	43

Appendix 4c Bird Standard Walk Data for Route C

Wimbledon Common C (2019)	4.45 km											
Recorder: Graham Guthrie												
Species	A	B	C	D	E	F	G	TOTAL	Mean/Km	Variance	StDev	
Blackbird	16	10	12	52	33	11	14	148	33.26	211.55	14.54	
Blackcap	13	10	6	24	17	17	10	97	21.80	30.69	5.54	
Black-headed Gull	25	21	0	0	0	0	0	46	10.34	109.10	10.45	
Blue Tit	108	84	88	96	104	54	130	664	149.21	475.27	21.80	
Bullfinch	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Canada Goose	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Carrion Crow	50	62	15	11	28	2	18	186	41.80	408.53	20.21	
Chaffinch	4	1	0	0	3	0	0	8	1.80	2.41	1.55	
Chiffchaff	4	3	1	2	5	4	1	20	4.49	2.12	1.46	
Coal Tit	7	0	0	3	2	2	3	17	3.82	4.82	2.19	
Common Buzzard	0	0	0	3	1	2	4	10	2.25	2.24	1.50	
Common Gull	15	12	0	0	0	0	54	81	18.20	335.39	18.31	
Common Whitethroat	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Coot	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Cormorant	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Dunnoch	2	3	0	15	12	13	9	54	12.13	30.78	5.55	
Fieldfare	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Firecrest	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Garden Warbler	0	2	0	0	0	0	0	2	0.45	0.49	0.70	
Goldcrest	4	4	4	3	1	5	1	22	4.94	2.12	1.46	
Goldfinch	0	3	2	0	0	0	0	5	1.12	1.35	1.16	
Great Spotted Woodpecker	6	1	1	9	6	9	3	35	7.87	10.00	3.16	
Great Tit	63	36	19	60	42	45	42	307	68.99	187.84	13.71	
Green Woodpecker	1	0	0	0	0	0	4	5	1.12	1.92	1.39	
Greenfinch	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Grey Heron	0	1	0	0	0	0	0	1	0.22	0.12	0.35	
Grey Wagtail	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Greylag Goose	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Herring Gull	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
House Martin	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Jackdaw	57	161	12	35	23	14	19	321	72.13	2414.98	49.14	
Jay	8	1	3	1	2	2	3	20	4.49	4.98	2.23	
Kestrel	3	0	0	0	0	0	0	3	0.67	1.10	1.05	
Lesser Black-backed Gull	0	0	0	0	0	0	0	0	0.00	0.00	0.00	

Lesser Redpoll	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Lesser Spotted Woodpecker	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Lesser Whitethroat	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Little Owl	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Long-tailed Tit	38	29	0	12	21	1	26	127	28.54	177.55	13.32	
Magpie	21	18	9	2	1	0	6	57	12.81	60.41	7.77	
Mallard	0	8	0	0	0	0	0	8	1.80	7.84	2.80	
Mandarin	0	2	0	0	0	0	0	2	0.45	0.49	0.70	
Meadow Pipit	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Mistle Thrush	0	0	0	0	1	0	15	16	3.60	27.06	5.20	
Moorhen	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Mute Swan	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Nuthatch	0	5	1	2	2	1	1	12	2.70	2.20	1.48	
Pied Wagtail	0	5	0	0	0	0	0	5	1.12	3.06	1.75	
Redwing	36	0	0	0	0	0	0	36	8.09	158.69	12.60	
Reed Bunting	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Ring-necked Parakeet	20	12	10	27	6	12	14	101	22.70	41.67	6.46	
Robin	76	36	18	33	44	28	30	265	59.55	296.12	17.21	
Rock Dove	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Shoveler	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Siskin	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Skylark	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Song Thrush	11	1	3	6	1	3	1	26	5.84	11.63	3.41	
Sparrowhawk	1	1	0	0	0	0	0	2	0.45	0.20	0.45	
Starling	0	3	0	0	0	0	2	5	1.12	1.35	1.16	
Stock Dove	7	5	5	3	2	2	3	27	6.07	2.98	1.73	
Swallow	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Swift	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Treecreeper	2	0	1	0	0	1	0	4	0.90	0.53	0.73	
Tufted Duck	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Willow Warbler	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Woodpigeon	21	33	8	13	2	8	11	96	21.57	90.78	9.53	
Wren	29	15	7	23	23	13	8	118	26.52	59.55	7.72	
								2959				
								38				

Appendix 4d Bird Standard Walk Data for Route D													
Wimbledon Common D (2019)								3.2 km					
Recorder: A & K Brown													
Species	A	B	C	D	E	F	G	TOTAL	Mean/Km	Variance	StDev		
Blackbird	52	5	8	10	18	22	8	123	38.44	229.10	15.14		
Blackcap	19	3	6	1	8	8	0	45	14.06	35.10	5.92		
Black-headed Gull	0	0	0	184	0	0	0	184	57.50	4145.63	64.39		
Blue Tit	134	38	19	11	59	67	35	363	113.44	1464.69	38.27		
Bullfinch	0	0	0	0	0	0	0	0	0.00	0.00	0.00		
Canada Goose	4	0	0	3	0	0	1	8	2.50	2.41	1.55		
Carrion Crow	58	17	25	152	5	16	14	287	89.69	2298.86	47.95		
Chaffinch	10	0	8	3	8	4	2	35	10.94	11.71	3.42		
Chiffchaff	5	1	1	1	0	6	0	14	4.38	5.14	2.27		
Coal Tit	2	3	1	0	1	1	0	8	2.50	0.98	0.99		
Common Buzzard	0	0	0	0	0	0	0	0	0.00	0.00	0.00		
Common Gull	0	0	0	0	0	0	0	0	0.00	0.00	0.00		
Common Whitethroat	0	0	4	2	0	0	0	6	1.88	2.12	1.46		
Coot	0	0	0	0	0	0	0	0	0.00	0.00	0.00		
Cormorant	1	0	0	0	0	0	0	1	0.31	0.12	0.35		
Dunnock	9	0	2	2	4	2	2	21	6.56	7.14	2.67		
Fieldfare	0	0	0	0	0	0	0	0	0.00	0.00	0.00		
Firecrest	0	0	0	0	0	0	0	0	0.00	0.00	0.00		
Garden Warbler	0	0	0	0	0	0	0	0	0.00	0.00	0.00		
Goldcrest	7	1	0	1	2	7	0	18	5.63	8.24	2.87		
Goldfinch	13	0	3	21	0	0	0	37	11.56	60.49	7.78		
Great Spotted Woodpecker	2	4	2	1	0	2	2	13	4.06	1.27	1.12		
Great Tit	94	23	7	4	28	54	19	229	71.56	857.06	29.28		
Green Woodpecker	2	0	0	1	0	0	0	3	0.94	0.53	0.73		
Greenfinch	7	0	0	0	0	1	2	10	3.13	5.67	2.38		
Grey Heron	0	0	0	1	0	0	1	2	0.63	0.20	0.45		
Grey Wagtail	0	0	0	0	0	0	0	0	0.00	0.00	0.00		
Greylag Goose	1	0	0	1	0	0	0	2	0.63	0.20	0.45		
Herring Gull	0	0	3	6	0	0	0	9	2.81	4.78	2.19		
House Martin	0	0	0	0	0	0	0	0	0.00	0.00	0.00		
Jackdaw	6	1	1	12	0	0	0	20	6.25	17.84	4.22		
Jay	11	1	0	0	3	6	1	22	6.88	14.12	3.76		
Kestrel	1	1	2	3	0	1	0	8	2.50	0.98	0.99		
Lesser Black-backed Gull	0	0	0	0	0	0	0	0	0.00	0.00	0.00		
Lesser Redpoll	0	0	0	0	0	0	0	0	0.00	0.00	0.00		

Lesser Spotted Woodpecker	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Lesser Whitethroat	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Little Owl	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Long-tailed Tit	33	0	11	0	2	28	3	77	24.06	165.71	12.87	
Magpie	10	2	8	5	6	4	2	37	11.56	7.63	2.76	
Mallard	0	4	6	0	0	0	24	34	10.63	66.12	8.13	
Manderin	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Meadow Pipit	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Mistle Thrush	0	0	0	0	0	4	0	4	1.25	1.96	1.40	
Moorhen	0	0	0	0	0	0	5	5	1.56	3.06	1.75	
Mute Swan	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Nuthatch	3	0	0	15	0	0	0	18	5.63	26.82	5.18	
Pied Wagtail	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Redwing	1	0	0	0	0	8	0	9	2.81	7.63	2.76	
Reed Bunting	0	0	0	3	0	0	0	3	0.94	1.10	1.05	
Ring-necked Parakeet	24	6	19	29	1	4	17	100	31.25	98.78	9.94	
Robin	47	10	12	6	18	29	9	131	40.94	183.35	13.54	
Rock Dove	2	0	0	0	1	0	0	3	0.94	0.53	0.73	
Shoveler	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Siskin	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Skylark	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Song Thrush	8	2	2	0	7	5	0	24	7.50	9.10	3.02	
Sparrowhawk	1	0	0	0	0	0	0	1	0.31	0.12	0.35	
Starling	1	0	0	49	0	0	0	50	15.63	292.12	17.09	
Stock Dove	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Stonechat	0	0	0	2	0	0	0	2	0.63	0.49	0.70	
Swallow	0	0	0	9	0	0	0	9	2.81	9.92	3.15	
Swift	4	0	0	0	0	0	0	4	1.25	1.96	1.40	
Treecreeper	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Tufted Duck	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Wheatear	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Whinchat	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Willow Warbler	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
Woodpigeon	51	3	15	35	15	13	5	137	42.81	256.82	16.03	
Wren	48	10	14	2	18	21	4	117	36.56	204.20	14.29	
								2233				
								43				

Appendix 4e. Standard Bird Walks 2019 Comparative Data Summary				
	Walk A	Walk B	Walk C	Walk D
Species	Counts	Counts	Counts	Counts
Blackbird	101	46	148	123
Blackcap	72	22	97	45
Black-headed Gull	26	43	46	184
Blue Tit	416	137	664	363
Bullfinch	0	0	0	0
Canada Goose	30	0	0	8
Carrion Crow	169	58	186	287
Chaffinch	18	14	8	35
Chiffchaff	47	7	20	14
Coal Tit	26	3	17	8
Common Buzzard	2	0	10	0
Common Gull	0	0	81	0
Common Whitethroat	7	0	0	6
Coot	0	45	0	0
Cormorant	2	4	0	1
Dunnock	31	12	54	21
Fieldfare	0	4	0	0
Firecrest	0	0	0	0
Garden Warbler	0	0	2	0
Goldcrest	13	6	22	18
Goldfinch	31	17	5	37
Great Spotted Woodpecker	24	15	35	13
Great Tit	303	67	307	229
Green Woodpecker	12	3	5	3
Greenfinch	4	2	0	10
Grey Heron	4	2	1	2
Grey Wagtail	0	3	0	0
Greylag Goose	0	0	0	2
Herring Gull	1	0	0	9
House Martin	0	0	0	0
Jackdaw	42	60	321	20
Jay	27	11	20	22
Kestrel	6	1	3	8
Lesser Black-backed Gull	0	0	0	0
Lesser Redpoll	0	0	0	0
Lesser Spotted Woodpecker	0	0	0	0
Lesser Whitethroat	0	0	0	0
Little Owl	0	0	0	0
Long-tailed Tit	134	31	127	77
Maggpie	70	24	57	37
Mallard	78	127	8	34
Manderin	8	51	2	0
Meadow Pipit	4	0	0	0
Mistle Thrush	10	4	16	4
Moorhen	12	43	0	5
Mute Swan	2	18	0	0
Nuthatch	13	13	12	18
Pied Wagtail	1	0	5	0
Redwing	34	20	36	9
Reed Bunting	0	0	0	3
Ring-necked Parakeet	109	24	101	100
Robin	177	73	265	131
Rock Dove	5	0	0	3
Shoveler	3	0	0	0
Siskin	0	0	0	0
Skylark	0	0	0	0
Song Thrush	64	26	26	24
Sparrowhawk	1	0	2	1
Starling	1	2	5	50
Stock Dove	9	4	27	0
Stonechat	0	0	0	2
Swallow	1	0	0	9
Swift	3	4	0	4
Tawny Owl	1	1	0	0
Treecreeper	1	2	4	0
Tufted Duck	0	113	0	0
Wheatear	0	0	0	0
Whinchat	0	0	0	0
Willow Warbler	0	0	0	0
Woodpigeon	132	50	96	137
Wren	125	21	118	117
Total species	49	26	38	43
Total individuals	2412	1233	2959	2233
Total months recorded	10	8	12	11
Missing months	May, November	Jan, June, July, Nov	None	January
Recorder	Les Evans- Hill	Adrian Podmore	Graham Guthrie	Alastair and Katharine Brown

Appendix 5a. Butterflies of Wimbledon Common - The Re-established Long-term Transect																													
2019 - Wimbledon Common (2015 route)																													
Transect Data																													
Week		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	Total
Date		1/4/19	8/4/19	15/4/19	22/4/19	29/4/19	6/5/19	13/5/19	20/5/19	27/5/19	3/6/19	10/6/19	17/6/19	24/6/19	1/7/19	8/7/19	15/7/19	22/7/19	29/7/19	5/8/19	12/8/19	19/8/19	26/8/19	2/9/19	9/9/19	16/9/19	23/9/19	30/9/19	
Small Skipper	Thymelicus sylvestris	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	3
Small/Essex Skipper	Small/Essex Skipper	0	0	0	0	0	0	0	0	0	0	1	23	13	1	2	0	0	0	0	0	0	0	0	0	0	0	0	40
Large Skipper	Ochlodes sylvanus	0	0	0	0	0	0	0	0	0	0	7	11	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	23
Brimstone	Gonepteryx rhamni	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Large White	Pieris brassicae	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Small White	Pieris rapae	0	0	0	0	0	0	0	0	0	0	2	6	0	2	4	0	1	0	0	3	1	0	0	0	0	0	19	
Green-veined White	Pieris napi	0	2	0	1	0	0	0	0	0	0	1	1	2	0	0	0	2	0	0	0	0	0	0	0	0	0	9	
Orange Tip	Anthocharis cardamines	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Green Hairstreak	Callophrys rubi	0	2	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Purple Hairstreak	Neozephyrus (Quercusia) quercus	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	7
Small Copper	Lycaena phlaeas	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Common Blue	Polyommatus icarus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Holly Blue	Celastrina argiolus	0	0	1	3	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Red Admiral	Vanessa atalanta	0	0	0	0	0	0	1	0	0	1	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	5
Painted Lady	Vanessa (Cynthia) cardui	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Small Tortoiseshell	Aglais urticae	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Peacock	Inachis io	2	2	1	2	1	1	0	0	0	1	1	2	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	13
Comma	Polygonia c-album	0	0	2	0	0	0	0	0	0	1	4	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	10
Silver-washed Fritillary	Argynnis paphia	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Speckled Wood	Pararge aegeria	0	0	1	0	1	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	7
Marbled White	Melanargia galathea	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Gatekeeper	Pyronia tithonus	0	0	0	0	0	0	0	0	0	0	0	18	41	73	30	29	3	1	0	0	0	0	0	0	0	0	0	195
Meadow Brown	Maniola jurtina	0	0	0	0	0	0	0	0	25	116	112	61	19	16	11	35	5	3	1	0	0	0	0	0	0	0	0	404
Small Heath	Coenonympha pamphilus	0	0	0	1	6	4	5	13	28	26	4	1	0	2	1	0	5	7	1	2	0	0	0	0	0	0	106	
Ringlet	Aphantopus hyperantus	0	0	0	0	0	0	0	0	0	4	18	19	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Total		2	0	8	0	7	0	12	14	0	6	5	40	164	209	126	76	100	44	71	0	8	12	10	3	2	0	0	919
Recorder: Andy Davis																													
Verifier: Simon Riley																													

Appendix 5b Butterflies of Wimbledon Common SW and Fishponds Wood 2019																													
2019 - Wimbledon Common SW and Fishponds Wood																													
Transect Data																													
Week		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	Total	
Date		8/4/19	15/4/19	22/4/19	29/4/19	6/5/19	13/5/19	20/5/19	27/5/19	3/6/19	10/6/19	17/6/19	24/6/19	1/7/19	8/7/19	15/7/19	22/7/19	29/7/19	5/8/19	12/8/19	19/8/19	26/8/19	2/9/19	9/9/19	16/9/19	23/9/19	30/9/19		
Large Skipper	Ochlodes sylvanus	0	0	0		0	0	0	0	0		0	0	1	1		0	0	0	0	0	0	0	0	0	0	0	0	2
Brimstone	Gonepteryx rhamni	2	5	5		4	1	2	1	3		1	1	0	0		0	1	0	0	0	0	0	0	0	0	0	0	26
Large White	Pieris brassicae	1	0	0		2	1	0	0	0		0	2	4	3		0	4	2	1	0	5	2	0	0	0	0	0	27
Small White	Pieris rapae	0	3	5		2	3	0	1	0		0	0	2	14		9	6	12	5	14	19	5	4		1		105	
Orange Tip	Anthocharis cardamines	1	0	5		1	2	2	0	0		0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	11
Purple Hairstreak	Neozephyrus (Quercusia) quercus	0	0	0		0	0	0	0	0		0	0	0	8		0	0	0	0	0	0	0	0	0	0	0	0	8
Small Copper	Lycaena phlaeas	0	0	0		0	0	1	0	0		0	0	0	0		0	0	1	0	0	0	0	1		0	0	3	
Holly Blue	Celastrina argiolus	0	0	2		2	6	2	0	0		0	1	0	0		0	1	0	1	0	0	0	0	0	0	0	0	15
White Admiral	Limenitis camilla	0	0	0		0	0	0	0	0		0	0	0	1		0	0	0	0	0	0	0	0	0	0	0	0	1
Red Admiral	Vanessa atalanta	0	0	0		0	0	0	0	0		3	1	4	2		0	1	0	0	0	0	4	0		0	0	15	
Painted Lady	Vanessa (Cynthia) cardui	0	0	0		0	0	0	0	0		0	3	1	0		0	0	0	0	0	0	0	0	0	0	0	0	4
Small Tortoiseshell	Aglais urticae	5	1	0		0	0	0	0	0		0	0	0	1		0	0	0	0	0	0	0	0	0	0	0	0	7
Peacock	Inachis io	6	4	1		4	4	0	0	0		0	0	0	0		2	0	0	0	0	0	0	0	0	0	0	0	21
Comma	Polygonia c-album	0	0	0		2	0	0	0	0		2	3	4	9		0	1	0	0	1	1	4	0		0	0	27	
Silver-washed Fritillary	Argynnis paphia	0	0	0		0	0	0	0	0		0	2	1	0		0	0	0	0	0	0	0	0	0	0	0	3	
Speckled Wood	Pararge aegeria	0	0	0		0	1	0	0	2		1	1	0	0		1	2	0	1	1	1	2	0		0	0	13	
Gatekeeper	Pyronia tithonus	0	0	0		0	0	0	0	0		0	0	2	2		18	23	5	0	0	0	0	0	0	0	0	50	
Meadow Brown	Maniola jurtina	0	0	0		0	0	0	0	0		2	12	23	37		13	9	3	0	0	0	0	0	0	0	0	99	
Ringlet	Aphantopus hyperantus	0	0	0		0	0	0	0	0		0	3	0	2		2	0	0	0	0	0	0	0	0	0	0	7	
Total		15	13	18	0	17	18	7	2	5	0	9	29	42	80	0	45	48	23	8	16	26	17	5	0	1	0	444	
Recorder: Peter Fischer																													
Verifier: Simon Riley																													

Appendix 6. Moths Recorded in the Moth Trap Wimbledon Common and Putney Heath

January to Mid-June at 1 Thatched Cottage Wimbledon Common

Mid-June. to December at Putney Heath

Recorders: Les and Angela Evans-Hill

Verifier: Les Evans-Hill

Taxon Code	Recommended Taxon Name	Recommended Common Name	Taxon Group	Bioblitz
2.001	<i>Dyseriocrania subpurpurella</i>	Common Oak Purple	Micro-moth	
2.008	<i>Eriocrania sangii</i>	Large Birch Purple	Micro-moth	
3.001	<i>Triodia sylvina</i>	Orange Swift	Macro-moth	
3.002	<i>Korscheltellus lupulina</i>	Common Swift	Macro-moth	
4.025	<i>Stigmella nylandriella</i>	Common Rowan Pigmy	Micro-moth	
4.034	<i>Stigmella tityrella</i>	Small Beech Pigmy	Micro-moth	
4.045	<i>Stigmella aurella</i>	Golden Pigmy	Micro-moth	
7.006	<i>Adela reaumurella</i>	Green Long-horn	Micro-moth	
7.015	<i>Nematopogon swammerdamella</i>	Large Long-horn	Micro-moth	
8.002	<i>Incurvaria masculella</i>	Feathered Leaf-cutter	Micro-moth	
10.001	<i>Tischeria ekebladella</i>	Oak Carl	Micro-moth	
10.003	<i>Coptotriche marginea</i>	Bordered Carl	Micro-moth	Yes
11.012	<i>Psyche casta</i>	Common Bagworm	Micro-moth	
12.032	<i>Tinea semifulvella</i>	Fulvous Clothes Moth	Micro-moth	Yes
12.033	<i>Tinea trinotella</i>	Bird's-nest Moth	Micro-moth	
12.037	<i>Monopis weaverella</i>	Carrion Moth	Micro-moth	
12.038	<i>Monopis obviella</i>	Yellow-backed Clothes Moth	Micro-moth	
13.002	<i>Roeslerstammia erxlebelli</i>	Copper Ermel	Micro-moth	
15.005	<i>Caloptilia betulicola</i>	Red Birch Slender	Micro-moth	
15.006	<i>Caloptilia rufipennella</i>	Small Red Slender	Micro-moth	
15.008	<i>Caloptilia alchimiella</i>	Yellow-triangle Slender	Micro-moth	
15.010	<i>Caloptilia stigmatella</i>	White-triangle Slender	Micro-moth	

15.014	<i>Gracillaria syringella</i>	Common Slender	Micro-moth	
15.017	<i>Calybites phasianipennella</i>	Little Slender	Micro-moth	
15.019	<i>Acrocercops brongniardella</i>	Brown Oak Slender	Micro-moth	
15.034	<i>Phyllonorycter harrisella</i>	White Oak Midget	Micro-moth	
15.039	<i>Phyllonorycter quercifoliella</i>	Common Oak Midget	Micro-moth	
15.040	<i>Phyllonorycter messaniella</i>	Garden Midget	Micro-moth	
15.050	<i>Phyllonorycter cerasicolella</i>	Cherry Midget	Micro-moth	
15.063	<i>Phyllonorycter maestingella</i>	Beech Midget	Micro-moth	
16.001	<i>Yponomeuta evonymella</i> <i>Pseudoswammerdamia</i> <i>combinella</i>	Bird-cherry Ermine	Micro-moth	Yes
16.014	<i>Swammerdamia caesiella</i>	Copper-tipped Ermine	Micro-moth	
16.015	<i>Swammerdamia pyrella</i>	Birch Ermine	Micro-moth	
16.017	<i>Swammerdamia albicapitella</i>	White-headed Ermine	Micro-moth	Yes
16.019	<i>Swammerdamia nebulella</i>	Hawthorn Ermine	Micro-moth	
16.021	<i>Cedestis gysseleniella</i>	Gold Pine Ermine	Micro-moth	
16.022	<i>Cedestis subfasciella</i>	Brown Pine Ermine	Micro-moth	
17.003	<i>Ypsolopha dentella</i>	Honeysuckle Moth	Micro-moth	
17.005	<i>Ypsolopha scabrella</i>	Wainscot Smudge	Micro-moth	
17.008	<i>Ypsolopha alpella</i>	Barred Smudge	Micro-moth	
17.009	<i>Ypsolopha sylvella</i>	Wood Smudge	Micro-moth	
17.010	<i>Ypsolopha parenthesella</i>	White-shouldered Smudge	Micro-moth	
17.011	<i>Ypsolopha ustella</i>	Variable Smudge	Micro-moth	
17.012	<i>Ypsolopha sequella</i>	Pied Smudge	Micro-moth	
18.001	<i>Plutella xylostella</i>	Diamond-back	Micro-moth	
18.003	<i>Plutella porrectella</i>	Grey-streaked Diamond-back	Micro-moth	
18.007	<i>Eidophasia messingiella</i>	Bitter-cress Diamond-back	Micro-moth	
20.007	<i>Argyresthia cupressella</i>	Cypress-tip Moth	Micro-moth	
20.011	<i>Argyresthia brockeella</i>	Gold-ribbon Argent	Micro-moth	
20.012	<i>Argyresthia goedartella</i>	Golden Argent	Micro-moth	

20.018	<i>Argyresthia spinosella</i>	Blackthorn Argent	Micro-moth	
20.019	<i>Argyresthia conjugella</i>	Apple-fruit Moth	Micro-moth	
21.001	<i>Lyonetia clerkella</i>	Apple Leaf-miner	Micro-moth	
25.001	<i>Scythropia crataegella</i>	Hawthorn Moth	Micro-moth	
28.008	<i>Metalampra italica</i>	Italian Tubic	Micro-moth	
28.009	<i>Endrosis sarcitrella</i>	White-shouldered House Moth	Micro-moth	
28.010	<i>Hofmannophila pseudospretella</i>	Brown House Moth	Micro-moth	Yes
28.012	<i>Borkhausenia fuscescens</i>	Small Dingy Tubic	Micro-moth	
28.014	<i>Crassa unitella</i>	Golden-brown Tubic	Micro-moth	
28.015	<i>Batia lunaris</i>	Lesser Tawny Tubic	Micro-moth	
28.019	<i>Esperia sulphurella</i>	Sulphur Tubic	Micro-moth	
28.024	<i>Tachystola acroxantha</i>	Ruddy Streak	Micro-moth	Yes
29.001	<i>Diurnea fagella</i>	March Tubic	Micro-moth	
31.001	<i>Carcina quercana</i>	Long-horned Flat-body	Micro-moth	Yes
32.007	<i>Agonopterix ocellana</i>	Red-letter Flat-body	Micro-moth	
32.017	<i>Agonopterix arenella</i>	Brindled Flat-body	Micro-moth	
32.018	<i>Agonopterix heracliiana</i>	Common Flat-body	Micro-moth	
32.031	<i>Agonopterix alstromeriana</i>	Brown-spot Flat-body	Micro-moth	
32.035	<i>Agonopterix yeatiana</i>	Coastal Flat-body	Micro-moth	
32.039	<i>Depressaria daucella</i>	Dingy Flat-body	Micro-moth	
35.012	<i>Anacamptis blattariella</i>	Birch Sober	Micro-moth	
35.018	<i>Hypatima rhomboidella</i>	Square-spot Sober	Micro-moth	
35.028	<i>Brachmia blandella</i>	Gorse Crest	Micro-moth	
35.031	<i>Helcystogramma rufescens</i>	Orange Crest	Micro-moth	
35.038	<i>Bryotropha domestica</i>	House Neb	Micro-moth	
35.040	<i>Bryotropha terrella</i>	Cinerosus Neb	Micro-moth	
35.049	<i>Bryotropha similis</i>	Obscure Neb	Micro-moth	
35.056	<i>Metzneria lappella</i>	Burdock Neb	Micro-moth	
35.080	<i>Eulamprotes unicolorella</i>	Unmarked Neb	Micro-moth	
35.099	<i>Gelechia senticetella</i>	Cypress Groundling	Micro-moth	

35.107	<i>Psoricoptera gibbosella</i>	Humped Groundling	Micro-moth	
35.109	<i>Scrobipalpa acuminatella</i>	Pointed Groundling	Micro-moth	
35.123	<i>Scrobipalpa costella</i>	Winter Groundling	Micro-moth	
35.143	<i>Teleiodes luculella</i>	Crescent Groundling	Micro-moth	
35.160	<i>Stenolechia gemmella</i>	Black-dotted Groundling	Micro-moth	
35.161	<i>Parachronistis albiceps</i>	Wood Groundling	Micro-moth	
37.014	<i>Coleophora coracipennella</i>	Blackthorn Case-bearer	Micro-moth	
37.048	<i>Coleophora mayrella</i>	Meadow Case-bearer	Micro-moth	
37.063	<i>Coleophora albicosta</i>	Gorse Case-bearer	Micro-moth	
38.037	<i>Elachista canapennella</i>	Little Dwarf	Micro-moth	
39.001	<i>Blastodacna hellerella</i>	Hawthorn Cosmet	Micro-moth	
40.008	<i>Mompha subbistrigella</i>	Garden Mompha	Micro-moth	
40.010	<i>Mompha epilobiella</i>	Common Mompha	Micro-moth	
40.011	<i>Mompha langiella</i>	Clouded Mompha	Micro-moth	
40.015	<i>Mompha raschkiella</i>	Little Mompha	Micro-moth	
41.002	<i>Blastobasis adustella</i>	Dingy Dowd	Micro-moth	
44.001	<i>Alucita hexadactyla</i>	Many-plume Moth	Micro-moth	
45.010	<i>Amblyptilia acanthadactyla</i>	Beautiful Plume	Micro-moth	
45.030	<i>Pterophorus pentadactyla</i>	White Plume	Micro-moth	Yes
45.044	<i>Emmelina monodactyla</i>	Common Plume	Micro-moth	Yes
48.001	<i>Anthophila fabriciana</i>	Common Nettle-tap	Micro-moth	
49.004	<i>Ditula angustiorana</i>	Red-barred Tortrix	Micro-moth	
49.013	<i>Archips podana</i>	Large Fruit-tree Tortrix	Micro-moth	
49.014	<i>Archips crataegana</i>	Brown Oak Tortrix	Micro-moth	Yes
49.015	<i>Archips xylosteana</i>	Variiegated Golden Tortrix	Micro-moth	Yes
49.018	<i>Choristoneura hebenstreitella</i>	Great Tortrix	Micro-moth	
49.024	<i>Pandemis corylana</i>	Chequered Fruit-tree Tortrix	Micro-moth	
49.025	<i>Pandemis cerasana</i>	Barred Fruit-tree Tortrix	Micro-moth	Yes
49.026	<i>Pandemis heparana</i>	Dark Fruit-tree Tortrix	Micro-moth	
49.028	<i>Syndemis musculana</i>	Dark-barred Tortrix	Micro-moth	

49.029	<i>Lozotaenia forsterana</i>	Large Ivy Tortrix	Micro-moth	
49.038	<i>Clepsis consimilana</i>	Privet Tortrix	Micro-moth	
49.039	<i>Epiphyas postvittana</i>	Light Brown Apple-moth	Micro-moth	
49.044	<i>Tortricodes alternella</i>	Winter Shade	Micro-moth	
49.059	<i>Tortrix viridana</i>	Green Oak Tortrix	Micro-moth	
49.060	<i>Aleimma loeflingiana</i>	Yellow Oak Button	Micro-moth	Yes
49.062	<i>Acleris forsskaleana</i>	Maple Button	Micro-moth	
49.066	<i>Acleris laterana</i>	Dark-triangle Button	Micro-moth	
49.069	<i>Acleris sparsana</i>	Ashy Button	Micro-moth	
49.073	<i>Acleris schalleriana</i>	Viburnum Button	Micro-moth	
49.076	<i>Acleris cristana</i>	Tufted Button	Micro-moth	
49.077	<i>Acleris variegana</i>	Garden Rose Tortrix	Micro-moth	
49.080	<i>Acleris hastiana</i>	Sallow Button	Micro-moth	
49.083	<i>Acleris ferrugana</i>	Rusty Oak Button	Micro-moth	
49.084	<i>Acleris notana</i>	Rusty Birch Button	Micro-moth	
49.087	<i>Acleris literana</i>	Lichen Button	Micro-moth	
49.090	<i>Eulia ministrana</i>	Brassy Tortrix	Micro-moth	
49.091	<i>Pseudargyrotoza conwagana</i>	Yellow-spot Tortrix	Micro-moth	
49.109	<i>Agapeta hamana</i>	Common Yellow Conch	Micro-moth	Yes
49.127	<i>Aethes cnicana</i>	Thistle Conch	Micro-moth	
49.128	<i>Aethes rubigana</i>	Burdock Conch	Micro-moth	
49.133	<i>Cochyliis nana</i>	Birch Conch	Micro-moth	
49.139	<i>Cochyliis atricapitana</i>	Black-headed Conch	Micro-moth	Yes
49.144	<i>Eudemis profundana</i>	Diamond-back Marble	Micro-moth	
49.149	<i>Apotomis turbidana</i>	White-shouldered Marble	Micro-moth	
49.150	<i>Apotomis betuletana</i>	Birch Marble	Micro-moth	
49.156	<i>Hedya nubiferana</i>	Marbled Orchard Tortrix	Micro-moth	Yes
49.161	<i>Celypha striana</i>	Barred Marble	Micro-moth	
49.166	<i>Celypha lacunana</i>	Common Marble	Micro-moth	Yes
49.215	<i>Ancylis achatana</i>	Triangle-marked Roller	Micro-moth	

49.216	<i>Ancylis mitterbacheriana</i>	Red Roller	Micro-moth	
49.223	<i>Rhopobota naevana</i>	Holly Tortrix	Micro-moth	
49.224	<i>Spilonota ocellana</i>	Bud Moth	Micro-moth	
49.240	<i>Epinotia immundana</i>	Common Birch Bell	Micro-moth	
49.249	<i>Epinotia ramella</i>	Small Birch Bell	Micro-moth	
49.254	<i>Epinotia bilunana</i>	Crescent Bell	Micro-moth	
49.255	<i>Epinotia nisella</i>	Grey Poplar Bell	Micro-moth	
49.260	<i>Zeiraphera isertana</i>	Cock's-head Bell	Micro-moth	Yes
49.265	<i>Eucosma cana</i>	Hoary Bell	Micro-moth	Yes
49.269	<i>Eucosma campoliliana</i>	Marbled Bell	Micro-moth	Yes
49.273	<i>Eucosma lacteana</i>	Maritime Bell	Micro-moth	
49.279	<i>Gypsonoma dealbana</i>	Common Cloaked Shoot	Micro-moth	
49.289	<i>Epiblema costipunctana</i>	Ragwort Bell	Micro-moth	
49.292	<i>Notocelia cynosbatella</i>	Yellow-faced Bell	Micro-moth	
49.294	<i>Notocelia uddmanniana</i>	Bramble Shoot	Micro-moth	Yes
49.297	<i>Notocelia rosaecolana</i>	Common Rose Bell	Micro-moth	
49.298	<i>Notocelia trimaculana</i>	Triple-blotched Bell	Micro-moth	
49.325	<i>Cydia ulicetana</i>	Grey Gorse Piercer	Micro-moth	
49.341	<i>Cydia splendana</i>	Marbled Piercer	Micro-moth	
49.342	<i>Cydia fagiglandana</i>	Large Beech Piercer	Micro-moth	
49.345	<i>Lathronympha strigana</i>	Red Piercer	Micro-moth	
49.360	<i>Pammene splendidulana</i>	Drab Oak Piercer	Micro-moth	
49.367	<i>Pammene fasciana</i>	Acorn Piercer	Micro-moth	
49.376	<i>Pammene aurita</i>	Sycamore Piercer	Micro-moth	
49.379	<i>Pammene aurana</i>	Orange-spot Piercer	Micro-moth	
50.002	<i>Zeuzera pyrina</i>	Leopard Moth	Macro-moth	
52.002	<i>Sesia apiformis</i>	Hornet Moth	Macro-moth	
52.010	<i>Synanthedon andrenaeformis</i>	Orange-tailed Clearwing	Macro-moth	
54.008	<i>Zygaena filipendulae</i>	Six-spot Burnet	Macro-moth	
62.001	<i>Aphomia sociella</i>	Bee Moth	Micro-moth	

62.006	<i>Galleria mellonella</i>	Wax Moth	Micro-moth	
62.007	<i>Cryptoblabes bistriga</i>	Double-striped Knot-horn	Micro-moth	Yes
62.029	<i>Phycita roborella</i>	Dotted Oak Knot-horn	Micro-moth	Yes
62.034	<i>Acrobasis repandana</i>	Warted Knot-horn	Micro-moth	Yes
62.035	<i>Acrobasis advenella</i>	Grey Knot-horn	Micro-moth	
62.036	<i>Acrobasis suavella</i>	Thicket Knot-horn	Micro-moth	
62.038	<i>Acrobasis consociella</i>	Broad-barred Knot-horn	Micro-moth	Yes
62.042	<i>Myelois circumvoluta</i>	Thistle Ermine	Micro-moth	
62.054	<i>Homoeosoma sinuella</i>	Twin-barred Knot-horn	Micro-moth	Yes
62.058	<i>Phycitodes binaevella</i>	Ermine Knot-horn	Micro-moth	Yes
62.065	<i>Ephestia woodiella</i>	False Cacao Moth	Micro-moth	
62.070	<i>Synaphe punctalis</i>	Long-legged Tabby	Micro-moth	
62.072	<i>Pyralis farinalis</i>	Meal Moth	Micro-moth	
62.074	<i>Aglossa pinguinalis</i>	Large Tabby	Micro-moth	
62.075	<i>Hypsopygia costalis</i>	Gold Triangle	Micro-moth	Yes
62.076	<i>Hypsopygia glaucinalis</i>	Double-striped Tabby	Micro-moth	
62.077	<i>Endotricha flammealis</i>	Rosy Tabby	Micro-moth	
63.005	<i>Pyrausta despicata</i>	Straw-barred Pearl	Micro-moth	
63.006	<i>Pyrausta aurata</i>	Small Purple & Gold	Micro-moth	
63.018	<i>Anania coronata</i>	Elder Pearl	Micro-moth	
63.025	<i>Anania hortulata</i>	Small Magpie	Micro-moth	Yes
63.028	<i>Ostrinia nubilalis</i>	European Corn-borer	Micro-moth	
63.031	<i>Udea ferrugalis</i>	Rusty-dot Pearl	Micro-moth	
63.034	<i>Udea prunalis</i>	Dusky Pearl	Micro-moth	
63.037	<i>Udea olivalis</i>	Olive Pearl	Micro-moth	
63.038	<i>Pleuroptya ruralis</i>	Mother of Pearl	Micro-moth	
63.052	<i>Nomophila noctuella</i>	Rush Veneer	Micro-moth	
63.054	<i>Cydalima perspectalis</i>	Box-tree Moth	Micro-moth	Yes
63.057	<i>Evergestis forficalis</i>	Garden Pebble	Micro-moth	
63.062	<i>Scoparia subfusca</i>	Large Grey	Micro-moth	

63.063	<i>Scoparia basistrigalis</i>	Base-lined Grey	Micro-moth	
63.064	<i>Scoparia ambigualis</i>	Common Grey	Micro-moth	
63.066	<i>Scoparia pyralella</i>	Meadow Grey	Micro-moth	
63.067	<i>Eudonia lacustrata</i>	Little Grey	Micro-moth	Yes
63.069	<i>Eudonia angustea</i>	Narrow-winged Grey	Micro-moth	
63.074	<i>Eudonia mercurella</i>	Small Grey	Micro-moth	
63.075	<i>Eudonia pallida</i>	Marsh Grey	Micro-moth	Yes
63.077	<i>Chilo phragmitella</i>	Reed Veneer	Micro-moth	
63.079	<i>Calamotropha paludella</i>	Bulrush Veneer	Micro-moth	
63.080	<i>Chrysoteuchia culmella</i>	Garden Grass-veneer	Micro-moth	Yes
63.081	<i>Crambus pascuella</i>	Inlaid Grass-veneer	Micro-moth	
63.086	<i>Crambus lathoniellus</i>	Hook-streak Grass-veneer	Micro-moth	
63.088	<i>Crambus perlella</i>	Satin Grass-veneer	Micro-moth	
63.089	<i>Agriphila tristella</i>	Common Grass-veneer	Micro-moth	
63.090	<i>Agriphila inquinatella</i>	Barred Grass-veneer	Micro-moth	Yes
63.092	<i>Agriphila selasella</i>	Pale-streak Grass-veneer	Micro-moth	
63.093	<i>Agriphila straminella</i>	Straw Grass-veneer	Micro-moth	
63.095	<i>Agriphila geniculea</i>	Elbow-stripe Grass-veneer	Micro-moth	
63.099	<i>Catoptria pinella</i>	Pearl Grass-veneer	Micro-moth	
63.102	<i>Catoptria falsella</i>	Chequered Grass-veneer	Micro-moth	
63.109	<i>Pediasia contaminella</i>	Waste Grass-veneer	Micro-moth	Yes
63.112	<i>Platytes alpinella</i>	Hook-tipped Grass-veneer	Micro-moth	
63.114	<i>Elophila nymphaeata</i>	Brown China-mark	Micro-moth	
63.115	<i>Acentria ephemerella</i>	Water Veneer	Micro-moth	
63.116	<i>Cataclysta lemnata</i>	Small China-mark	Micro-moth	
63.117	<i>Parapoynx stratiotata</i>	Ringed China-mark	Micro-moth	
63.119	<i>Musotima nitidalis</i>	Fern China-mark	Micro-moth	
65.001	<i>Falcaria lacertinaria</i>	Scalloped Hook-tip	Macro-moth	
65.002	<i>Watsonalla binaria</i>	Oak Hook-tip	Macro-moth	
65.005	<i>Drepana falcataria</i>	Pebble Hook-tip	Macro-moth	

65.008	<i>Thyatira batis</i>	Peach Blossom	Macro-moth	Yes
65.009	<i>Habrosyne pyritoides</i>	Buff Arches	Macro-moth	Yes
65.010	<i>Tethea ocellaris</i>	Figure of Eighty	Macro-moth	
65.014	<i>Cymatophorina diluta</i>	Oak Lutestring	Macro-moth	
65.015	<i>Polyploca ridens</i>	Frosted Green	Macro-moth	
65.016	<i>Achlya flavicornis</i>	Yellow Horned	Macro-moth	
66.001	<i>Poecilocampa populi</i>	December Moth	Macro-moth	
68.001	<i>Saturnia pavonia</i>	Emperor Moth	Macro-moth	
69.002	<i>Smerinthus ocellata</i>	Eyed Hawk-moth	Macro-moth	
69.003	<i>Laothoe populi</i>	Poplar Hawk-moth	Macro-moth	
69.007	<i>Sphinx pinastri</i>	Pine Hawk-moth	Macro-moth	
69.016	<i>Deilephila elpenor</i>	Elephant Hawk-moth	Macro-moth	
69.017	<i>Deilephila porcellus</i>	Small Elephant Hawk-moth	Macro-moth	
70.004	<i>Idaea rusticata</i>	Least Carpet	Macro-moth	
70.006	<i>Idaea fuscovenosa</i>	Dwarf Cream Wave	Macro-moth	Yes
70.008	<i>Idaea seriata</i>	Small Dusty Wave	Macro-moth	
70.011	<i>Idaea dimidiata</i>	Single-dotted Wave	Macro-moth	Yes
70.012	<i>Idaea trigeminata</i>	Treble Brown Spot	Macro-moth	
70.013	<i>Idaea biselata</i>	Small Fan-footed Wave	Macro-moth	Yes
70.016	<i>Idaea aversata</i>	Riband Wave	Macro-moth	Yes
70.018	<i>Idaea straminata</i>	Plain Wave	Macro-moth	
70.024	<i>Scopula imitaria</i>	Small Blood-vein	Macro-moth	
70.029	<i>Timandra comae</i>	Blood-Vein	Macro-moth	
70.032	<i>Cyclophora albipunctata</i>	Birch Mocha	Macro-moth	
70.036	<i>Cyclophora punctaria</i>	Maiden's Blush	Macro-moth	
70.037	<i>Cyclophora linearia</i>	Clay Triple-lines	Macro-moth	
70.038	<i>Rhodometra sacraria</i>	Vestal	Macro-moth	
70.045	<i>Scotopteryx chenopodiata</i>	Shaded Broad-bar	Macro-moth	
70.049	<i>Xanthorhoe fluctuata</i>	Garden Carpet	Macro-moth	
70.051	<i>Xanthorhoe spadicearia</i>	Red Twin-spot Carpet	Macro-moth	

70.053	<i>Xanthorhoe designata</i>	Flame Carpet	Macro-moth	
70.054	<i>Xanthorhoe montanata</i>	Silver-ground Carpet	Macro-moth	
70.059	<i>Camptogramma bilineata</i>	Yellow Shell	Macro-moth	
70.061	<i>Epirrhoe alternata</i>	Common Carpet	Macro-moth	
70.067	<i>Anticlea derivata</i>	Streamer	Macro-moth	
70.074	<i>Hydriomena furcata</i>	July Highflier	Macro-moth	
70.075	<i>Hydriomena impluviata</i>	May Highflier	Macro-moth	
70.079	<i>Thera britannica</i>	Spruce Carpet	Macro-moth	
70.081	<i>Thera obeliscata</i>	Grey Pine Carpet	Macro-moth	
70.084	<i>Plemyria rubiginata</i>	Blue-bordered Carpet	Macro-moth	
70.086	<i>Electrophaes corylata</i>	Broken-barred Carpet	Macro-moth	
70.087	<i>Cosmorhoe ocellata</i>	Purple Bar	Macro-moth	
70.089	<i>Eulithis prunata</i>	Phoenix	Macro-moth	
70.090	<i>Eulithis testata</i>	Chevron	Macro-moth	
70.092	<i>Eulithis mellinata</i>	Spinach	Macro-moth	
70.093	<i>Gandaritis pyraliata</i>	Barred Straw	Macro-moth	
70.094	<i>Ecliptopera silaceata</i>	Small Phoenix	Macro-moth	
70.095	<i>Chloroclysta siterata</i>	Red-Green Carpet	Macro-moth	
70.097	<i>Dysstroma truncata</i>	Common Marbled Carpet	Macro-moth	Yes
70.100	<i>Colostygia pectinataria</i>	Green Carpet	Macro-moth	
70.103	<i>Lampropteryx suffumata</i>	Water Carpet	Macro-moth	
70.106	<i>Operophtera brumata</i>	Winter Moth	Macro-moth	
70.114	<i>Hydrelia flammeolaria</i>	Small Yellow Wave	Macro-moth	
70.126	<i>Horisme vitalbata</i>	Small Waved Umber	Macro-moth	
70.137	<i>Perizoma albulata</i>	Grass Rivulet	Macro-moth	
70.138	<i>Perizoma flavofasciata</i>	Sandy Carpet	Macro-moth	
70.141	<i>Gymnoscelis rufifasciata</i>	Double-striped Pug	Macro-moth	
70.144	<i>Pasiphila rectangulata</i>	Green Pug	Macro-moth	Yes
70.156	<i>Eupithecia abbreviata</i>	Brindled Pug	Macro-moth	
70.157	<i>Eupithecia dodoneata</i>	Oak-tree Pug	Macro-moth	

70.159	<i>Eupithecia phoeniceata</i>	Cypress Pug	Macro-moth	
70.160	<i>Eupithecia tripunctaria</i>	White-spotted Pug	Macro-moth	
70.168	<i>Eupithecia nanata</i>	Narrow-winged Pug	Macro-moth	
70.171	<i>Eupithecia indigata</i>	Ochreous Pug	Macro-moth	
70.173	<i>Eupithecia centaureata</i>	Lime-speck Pug	Macro-moth	
70.182	<i>Eupithecia assimilata</i>	Currant Pug	Macro-moth	
70.183	<i>Eupithecia vulgata</i>	Common Pug	Macro-moth	
70.184	<i>Eupithecia exiguata</i>	Mottled Pug	Macro-moth	
70.190	<i>Eupithecia subfuscata</i>	Grey Pug	Macro-moth	Yes
70.192	<i>Aplocera plagiata</i>	Treble-bar	Macro-moth	
70.198	<i>Lobophora halterata</i>	Seraphim	Macro-moth	
70.199	<i>Pterapherapteryx sexalata</i>	Small Seraphim	Macro-moth	
70.200	<i>Acasis viretata</i>	Yellow-barred Brindle	Macro-moth	
70.203	<i>Archiearis parthenias</i>	Orange Underwing	Macro-moth	
70.204	<i>Boudinotiana notha</i>	Light Orange Underwing	Macro-moth	
70.207	<i>Lomaspilis marginata</i>	Clouded Border	Macro-moth	Yes
70.208	<i>Ligdia adustata</i>	Scorched Carpet	Macro-moth	
70.211	<i>Macaria notata</i>	Peacock Moth	Macro-moth	
70.214	<i>Macaria liturata</i>	Tawny-barred Angle	Macro-moth	
70.218	<i>Chiasmia clathrata</i>	Latticed Heath	Macro-moth	
70.222	<i>Petrophora chlorosata</i>	Brown Silver-line	Macro-moth	Yes
70.224	<i>Plagodis dolabraria</i>	Scorched Wing	Macro-moth	Yes
70.226	<i>Opisthograptis luteolata</i>	Brimstone Moth	Macro-moth	Yes
70.231	<i>Apeira syringaria</i>	Lilac Beauty	Macro-moth	
70.234	<i>Ennomos alniaria</i>	Canary-shouldered Thorn	Macro-moth	
70.235	<i>Ennomos fuscantaria</i>	Dusky Thorn	Macro-moth	
70.236	<i>Ennomos erosaria</i>	September Thorn	Macro-moth	
70.237	<i>Selenia dentaria</i>	Early Thorn	Macro-moth	
70.239	<i>Selenia tetralunaria</i>	Purple Thorn	Macro-moth	
70.240	<i>Odontopera bidentata</i>	Scalloped Hazel	Macro-moth	

70.241	<i>Crocallis elinguaris</i>	Scalloped Oak	Macro-moth	
70.244	<i>Colotois pennaria</i>	Feathered Thorn	Macro-moth	
70.245	<i>Alsophila aescularia</i>	March Moth	Macro-moth	
70.246	<i>Apocheima hispidaria</i>	Small Brindled Beauty	Macro-moth	
70.247	<i>Phigalia pilosaria</i>	Pale Brindled Beauty	Macro-moth	
70.248	<i>Lycia hirtaria</i>	Brindled Beauty	Macro-moth	
70.251	<i>Biston strataria</i>	Oak Beauty	Macro-moth	
70.252	<i>Biston betularia</i>	Peppered Moth	Macro-moth	
70.253	<i>Agriopis leucophaearia</i>	Spring Usher	Macro-moth	
70.255	<i>Agriopis marginaria</i>	Dotted Border	Macro-moth	
70.256	<i>Erannis defoliaria</i>	Mottled Umber	Macro-moth	
70.257	<i>Menophra abruptaria</i>	Waved Umber	Macro-moth	
70.258	<i>Peribatodes rhomboidaria</i>	Willow Beauty	Macro-moth	Yes
70.265	<i>Alcis repandata</i>	Mottled Beauty	Macro-moth	Yes
70.267	<i>Hypomecis roboraria</i>	Great Oak Beauty	Macro-moth	
70.268	<i>Hypomecis punctinalis</i>	Pale Oak Beauty	Macro-moth	
70.270	<i>Ectropis crepuscularia</i>	Engrailed	Macro-moth	
70.277	<i>Cabera pusaria</i>	Common White Wave	Macro-moth	Yes
70.278	<i>Cabera exanthemata</i>	Common Wave	Macro-moth	
70.280	<i>Lomographa temerata</i>	Clouded Silver	Macro-moth	Yes
70.283	<i>Campaea margaritaria</i>	Light Emerald	Macro-moth	
70.299	<i>Geometra papilionaria</i>	Large Emerald	Macro-moth	
70.300	<i>Comibaena bajularia</i>	Blotched Emerald	Macro-moth	Yes
70.305	<i>Hemithea aestivaria</i>	Common Emerald	Macro-moth	
71.001	<i>Thaumetopoea processionea</i>	Oak Processionary	Macro-moth	
71.005	<i>Furcula furcula</i>	Sallow Kitten	Macro-moth	
71.011	<i>Drymonia ruficornis</i>	Lunar Marbled Brown	Macro-moth	
71.012	<i>Notodonta dromedarius</i>	Iron Prominent	Macro-moth	
71.013	<i>Notodonta ziczac</i>	Pebble Prominent	Macro-moth	
71.016	<i>Peridea anceps</i>	Great Prominent	Macro-moth	

71.017	<i>Pheosia tremula</i>	Swallow Prominent	Macro-moth	
71.018	<i>Pheosia gnoma</i>	Lesser Swallow Prominent	Macro-moth	
71.020	<i>Pterostoma palpina</i>	Pale Prominent	Macro-moth	
71.021	<i>Ptilodon capucina</i>	Coxcomb Prominent	Macro-moth	
71.025	<i>Phalera bucephala</i>	Buff-tip	Macro-moth	Yes
71.027	<i>Clostera curtula</i>	Chocolate-tip	Macro-moth	
72.001	<i>Scoliopteryx libatrix</i>	Herald	Macro-moth	
72.002	<i>Rivula sericealis</i>	Straw Dot	Macro-moth	
72.003	<i>Hypena proboscidalis</i>	Snout	Macro-moth	Yes
72.010	<i>Lymantria monacha</i>	Black Arches	Macro-moth	
72.011	<i>Lymantria dispar</i>	Gypsy Moth	Macro-moth	
72.013	<i>Euproctis similis</i>	Yellow-tail	Macro-moth	
72.015	<i>Calliteara pudibunda</i>	Pale Tussock	Macro-moth	
72.017	<i>Orgyia antiqua</i>	Vapourer	Macro-moth	
72.019	<i>Spilosoma lutea</i>	Buff Ermine	Macro-moth	Yes
72.020	<i>Spilosoma lubricipeda</i>	White Ermine	Macro-moth	Yes
72.022	<i>Diaphora mendica</i>	Muslin Moth	Macro-moth	
72.024	<i>Phragmatobia fuliginosa</i>	Ruby Tiger	Macro-moth	
72.030	<i>Euplagia quadripunctaria</i>	Jersey Tiger	Macro-moth	
72.031	<i>Tyria jacobaeae</i>	Cinnabar	Macro-moth	
72.035	<i>Miltochrista miniata</i>	Rosy Footman	Macro-moth	Yes
72.041	<i>Lithosia quadra</i>	Four-spotted Footman	Macro-moth	
72.043	<i>Eilema depressa</i>	Buff Footman	Macro-moth	
72.044	<i>Eilema griseola</i>	Dingy Footman	Macro-moth	
72.045	<i>Eilema lurideola</i>	Common Footman	Macro-moth	Yes
72.046	<i>Eilema complana</i>	Scarce Footman	Macro-moth	
72.047	<i>Eilema caniola</i>	Hoary Footman	Macro-moth	
72.049	<i>Eilema sororcula</i>	Orange Footman	Macro-moth	
72.053	<i>Herminia tarsipennalis</i>	Fan-foot	Macro-moth	
72.055	<i>Herminia grisealis</i>	Small Fan-foot	Macro-moth	Yes

72.061	<i>Schrankia costaestrigalis</i>	Pinion-streaked Snout	Macro-moth	
72.066	<i>Parascotia fuliginaria</i>	Waved Black	Macro-moth	
72.069	<i>Laspeyria flexula</i>	Beautiful Hook-tip	Macro-moth	
72.076	<i>Catocala fraxini</i>	Clifden Nonpareil	Macro-moth	
72.081	<i>Catocala sponsa</i>	Dark Crimson Underwing	Macro-moth	
72.083	<i>Euclidia glyphica</i>	Burnet Companion	Macro-moth	
72.084	<i>Euclidia mi</i>	Mother Shipton	Macro-moth	
73.001	<i>Abrostola tripartita</i>	Spectacle	Macro-moth	
73.012	<i>Diachrysia chrysitis</i>	Burnished Brass	Macro-moth	
73.015	<i>Autographa gamma</i>	Silver Y	Macro-moth	
73.024	<i>Deltote pygarga</i>	Marbled White Spot	Macro-moth	Yes
73.032	<i>Colocasia coryli</i>	Nut-tree Tussock	Macro-moth	
73.036	<i>Acronicta alni</i>	Alder Moth	Macro-moth	
73.040	<i>Acronicta leporina</i>	Miller	Macro-moth	
73.045	<i>Acronicta rumicis</i>	Knot Grass	Macro-moth	
73.047	<i>Craniophora ligustri</i>	Coronet	Macro-moth	
73.052	<i>Cucullia umbratica</i>	Shark	Macro-moth	
73.059	<i>Calophasia lunula</i>	Toadflax Brocade	Macro-moth	
73.062	<i>Amphipyra pyramidea</i>	Copper Underwing	Macro-moth	
73.063	<i>Amphipyra berbera</i>	Svensson's Copper Underwing	Macro-moth	
73.068	<i>Allophyes oxyacanthae</i>	Green-brindled Crescent	Macro-moth	
73.069	<i>Xylocampa areola</i>	Early Grey	Macro-moth	
73.082	<i>Cryphia algae</i>	Tree-lichen Beauty	Macro-moth	
73.084	<i>Bryophila domestica</i>	Marbled Beauty	Macro-moth	
73.092	<i>Caradrina morpheus</i>	Mottled Rustic	Macro-moth	
73.095	<i>Caradrina clavipalpis</i>	Pale Mottled Willow	Macro-moth	
73.096	<i>Hoplodrina octogenaria</i>	Uncertain	Macro-moth	
73.097	<i>Hoplodrina blanda</i>	Rustic	Macro-moth	
73.099	<i>Hoplodrina ambigua</i>	Vine's Rustic	Macro-moth	
73.101	<i>Charanyca trigrammica</i>	Treble Lines	Macro-moth	

73.102	<i>Rusina ferruginea</i>	Brown Rustic	Macro-moth	Yes
73.105	<i>Dypterygia scabriuscula</i>	Bird's Wing	Macro-moth	Yes
73.107	<i>Mormo maura</i>	Old Lady	Macro-moth	
73.109	<i>Thalpophila matura</i>	Straw Underwing	Macro-moth	
73.113	<i>Phlogophora meticulosa</i>	Angle Shades	Macro-moth	
73.114	<i>Euplexia lucipara</i>	Small Angle Shades	Macro-moth	
73.120	<i>Eremobia ochroleuca</i>	Dusky Sallow	Macro-moth	
73.123	<i>Hydraecia micacea</i>	Rosy Rustic	Macro-moth	
73.128	<i>Amphipoea oculea</i>	Ear Moth	Macro-moth	
73.131	<i>Luperina testacea</i>	Flounced Rustic	Macro-moth	
73.142	<i>Coenobia rufa</i>	Small Rufous	Macro-moth	
73.144	<i>Denticucullus pygmina</i>	Small Wainscot	Macro-moth	
73.147	<i>Photedes minima</i>	Small Dotted Buff	Macro-moth	
73.154	<i>Apamea remissa</i>	Dusky Brocade	Macro-moth	
73.158	<i>Apamea sordens</i>	Rustic Shoulder-knot	Macro-moth	
73.162	<i>Apamea monoglypha</i>	Dark Arches	Macro-moth	Yes
73.163	<i>Apamea lithoxylaea</i>	Light Arches	Macro-moth	
73.169	<i>Mesapamea secalis</i>	Common Rustic	Macro-moth	
73.170	<i>Mesapamea didyma</i>	Lesser Common Rustic	Macro-moth	
73.171	<i>Litoligia literosa</i>	Rosy Minor	Macro-moth	
73.172	<i>Mesoligia furuncula</i>	Cloaked Minor	Macro-moth	
73.173	<i>Oligia strigilis</i>	Marbled Minor	Macro-moth	
73.174	<i>Oligia latruncula</i>	Tawny Marbled Minor	Macro-moth	
73.175	<i>Oligia versicolor</i>	Rufous Minor	Macro-moth	
73.176	<i>Oligia fasciuncula</i>	Middle-barred Minor	Macro-moth	Yes
73.179	<i>Tiliacea citrigo</i>	Orange Sallow	Macro-moth	
73.180	<i>Tiliacea aurago</i>	Barred Sallow	Macro-moth	
73.181	<i>Xanthia togata</i>	Pink-barred Sallow	Macro-moth	
73.182	<i>Cirrhia icteritia</i>	Sallow	Macro-moth	
73.189	<i>Agrochola lota</i>	Red-line Quaker	Macro-moth	

73.190	<i>Agrochola macilenta</i>	Yellow-line Quaker	Macro-moth
73.192	<i>Agrochola circellaris</i>	Brick	Macro-moth
73.193	<i>Omphaloscelis lunosa</i>	Lunar Underwing	Macro-moth
73.194	<i>Conistra vaccinii</i>	Chestnut	Macro-moth
73.195	<i>Conistra ligula</i>	Dark Chestnut	Macro-moth
73.197	<i>Conistra rubiginea</i>	Dotted Chestnut	Macro-moth
73.201	<i>Lithophane socia</i>	Pale Pinion	Macro-moth
73.202	<i>Lithophane ornitopus</i>	Grey Shoulder-knot	Macro-moth
73.206	<i>Lithophane leautieri</i>	Blair's Shoulder-knot	Macro-moth
73.209	<i>Xylena vetusta</i>	Red Sword-grass	Macro-moth
73.210	<i>Eupsilia transversa</i>	Satellite	Macro-moth
73.216	<i>Cosmia trapezina</i>	Dun-bar	Macro-moth
73.219	<i>Atethmia centrago</i>	Centre-barred Sallow	Macro-moth
73.221	<i>Parastichtis suspecta</i>	Suspected	Macro-moth
73.224	<i>Griposia aprilina</i>	Merveille du Jour	Macro-moth
73.225	<i>Dryobotodes eremita</i>	Brindled Green	Macro-moth
73.233	<i>Aporophyla nigra</i>	Black Rustic	Macro-moth
73.241	<i>Panolis flammea</i>	Pine Beauty	Macro-moth
73.242	<i>Orthosia incerta</i>	Clouded Drab	Macro-moth
73.243	<i>Orthosia miniosa</i>	Blossom Underwing	Macro-moth
73.244	<i>Orthosia cerasi</i>	Common Quaker	Macro-moth
73.245	<i>Orthosia cruda</i>	Small Quaker	Macro-moth
73.246	<i>Orthosia populeti</i>	Lead-coloured Drab	Macro-moth
73.249	<i>Orthosia gothica</i>	Hebrew Character	Macro-moth
73.250	<i>Anorthoa munda</i>	Twin-spotted Quaker	Macro-moth
73.252	<i>Tholera cespitis</i>	Hedge Rustic	Macro-moth
73.253	<i>Tholera decimalis</i>	Feathered Gothic	Macro-moth
73.254	<i>Cerapteryx graminis</i>	Antler Moth	Macro-moth
73.257	<i>Anarta myrtilli</i>	Beautiful Yellow Underwing	Macro-moth
73.261	<i>Polia nebulosa</i>	Grey Arches	Macro-moth

Yes

73.263	<i>Lacanobia w-latinum</i>	Light Brocade	Macro-moth	
73.267	<i>Lacanobia oleracea</i>	Bright-line Brown-eye	Macro-moth	
73.288	<i>Mythimna turca</i>	Double Line	Macro-moth	Yes
73.291	<i>Mythimna pallens</i>	Common Wainscot	Macro-moth	
73.293	<i>Mythimna impura</i>	Smoky Wainscot	Macro-moth	
73.297	<i>Mythimna albipuncta</i>	White-point	Macro-moth	
73.298	<i>Mythimna ferrago</i>	Clay	Macro-moth	Yes
73.301	<i>Leucania comma</i>	Shoulder-striped Wainscot	Macro-moth	Yes
73.317	<i>Agrotis exclamationis</i>	Heart and Dart	Macro-moth	Yes
73.319	<i>Agrotis segetum</i>	Turnip Moth	Macro-moth	Yes
73.325	<i>Agrotis puta</i>	Shuttle-shaped Dart	Macro-moth	
73.328	<i>Axylia putris</i>	Flame	Macro-moth	Yes
73.329	<i>Ochropleura plecta</i>	Flame Shoulder	Macro-moth	Yes
73.333	<i>Diarsia mendica</i>	Ingrailed Clay	Macro-moth	
73.338	<i>Lycophotia porphyrea</i>	True Lover's Knot	Macro-moth	
73.342	<i>Noctua pronuba</i>	Large Yellow Underwing	Macro-moth	Yes
73.343	<i>Noctua fimbriata</i>	Broad-bordered Yellow Underwing	Macro-moth	
73.345	<i>Noctua comes</i>	Lesser Yellow Underwing	Macro-moth	
73.348	<i>Noctua janthe</i>	Lesser Broad-bordered Yellow Underwing	Macro-moth	
73.353	<i>Xestia baja</i>	Dotted Clay	Macro-moth	
73.357	<i>Xestia xanthographa</i>	Square-spot Rustic	Macro-moth	
73.359	<i>Xestia c-nigrum</i>	Setaceous Hebrew Character	Macro-moth	Yes
73.361	<i>Xestia triangulum</i>	Double Square-spot	Macro-moth	
73.365	<i>Eugnorisma glareosa</i>	Autumnal Rustic	Macro-moth	
74.003	<i>Nola cucullatella</i>	Short-cloaked Moth	Macro-moth	Yes
74.004	<i>Nola confusalis</i>	Least Black Arches	Macro-moth	
74.007	<i>Bena bicolorana</i>	Scarce Silver-lines	Macro-moth	
74.009	<i>Nycteola revayana</i>	Oak Nycteoline	Macro-moth	

Appendix 7 Small Mammal Capture – Release Survey data 2019

A Survey with staff and Volunteer Trainees

25th / 26th April 2019 using 25 WPCC traps

Woodland SW of Hookhamslade pond -

Wood mouse *Apodemus sylvaticus*

Weight of Wood Mouse and Bag	34g
Weight of bag and bits	9g
Weight of Wood Mouse	25g sex - male

All other traps at Hookhamslade and in the Heathland Patch were unoccupied.

B BioBlitz 2019 Small Mammal Capture and Release Survey

Survey with public participation

June 22nd/23rd using 40 SWT and WPCC traps

1. Around Hookhamslade

10 pairs of traps set. 1 wood mouse captured. None found in bracken to east of pond nor in woods to south, nor among brambles nor to southeast, nor in woods to northwest.

Woodland to southwest of pond.

Wood Mouse *Apodemus sylvaticus*

Weight of Mouse and bag	44g
Weight of bag and bits	12g
Weight of Wood Mouse	32g sex male - breeding status

2. Heathland patch

5 pairs of traps set. None found occupied among bracken and grass, nor in heather, nor in poplar scrub.

1 trap occupied from taller birch scrub area

Field Vole *Microtis agrestis*

Weight of Vole and bag	50g
Weight of bag and bits	15g
Weight of Field Vole	35g sex - male

3. Hogweed Patch

5 pairs of traps set; 5 individual traps occupied

1a. Near first, most southern, bench

Wood Mouse *Apodemus sylvaticus*

Weight of Mouse and bag	38g
Weight of bag and bits	10g
Weight of Wood mouse	28g sex - female

1b location as above

Wood Mouse *Apodemus sylvaticus*

Weight of Mouse and bag	37g
Weight of bag and bits	11g
Weight of Wood Mouse	26g sex - not determined

2. Rear of tack behind bench closet to information centre Wood Mouse *Apodemus sylvaticus*

Weight of Mouse and bag 47g
Weight of bag and bits 18g
Weight of Wood Mouse 29g sex -female

3a. Entry point of Hogweed Patch

Wood Mouse *Apodemus sylvaticus*

Weight of Mouse and bag 37g
Weight of bag and bits 12g
Weight of Wood Mouse 25g sex - male breeding status

3b. Location as for 3a

Field Vole *Microtis agrestis*

Weight of Vole and bag 41g
Weight of bag and bits 13g
Weight of Field Vole 28g sex - not determined

C. Along the Nature Trail.

RT and PH

October 14th/15th 25 WPCC traps set, damp and drizzly conditions

Log Pile stop on Nature Trail

Wood Mouse *Apodemus sylvaticus*

Weight of Mouse and bag 42g
Weight of bag and bits 16g
Weight of Wood Mouse 26g sex - not determined

All other traps along the Nature Trail were unoccupied

Appendix 8 Putney Lower Common

Wildlife sightings – January to December 2019

All records for wildlife on Putney Lower Common during 2018 were either collected by P. Haldane as part of a routine programme of monthly visits or from occasional reports provided by staff or visitors to the Common. Depending upon weather conditions and the time of year, regular monthly visits to the Common lasted any between one and two hours and all visits were carried out towards the end of each calendar month.

As a result, the information only provides a snap shot of what may actually be found on the Common.

Birds:

Species	Location/Habitat	Time of Year
Crow	Various locations	Seen throughout the year
Jackdaw	Flying overhead	March, June & Oct
Magpie	Various locations	Seen throughout the year
Jay	Woodland	Jan, Aug & Oct
Blackbird	Various locations	Seen throughout the year
Fieldfare	Ashlone Wharf	January
Great spotted woodpecker	Woodland near Barnes Common	Feb & March
Green Woodpecker	Grassland north of footbridge	August
Great Tit	Various locations	Seen throughout the year
House Martin	Flying over main field	June
Swift	Flying over main field	June
Starling	Main Field	April & June
Blue Tits	Various locations	Seen throughout the year
Wren	Various locations but very often seen along the Beverley Brook tow path	Seen throughout the year
Parakeet	Various locations but often seen around the large London Plane trees near Beverley Brook.	Seen throughout the year
Long tailed tit	Woodland near Passchendaele	June
Robin	Various locations	Seen throughout the year
Coal tit	Foot Bridge	April
Kestrel	North of Foot Bridge	March
Kingfisher	Beverley Brook	July
Teal	Beverley Brook	January & February
Mallard	Beverley Brook	Seen throughout the year
Moorhen	Beverley Brook	January
Grey Heron	Beverley Brook	March & April
Canada Geese	Barn Elms Sports Fields	Seen throughout the year
Wood Pigeon	Various locations	Seen throughout the year

Invertebrates:

Species	Location/Habitat	Time of Year
Brimstone butterfly	Grassland	March
Orange Tip butterfly	Grassland	March
Comma butterfly	Grassland & tow path	March & July
Meadow Brown butterfly	Grassland	July & Aug
Large White butterfly	Grassland	July & Aug
Gatekeeper butterfly	Grassland	July & Aug
Peacock butterfly	Grassland	July
Small Blue butterfly	Grassland	Aug
Red Admiral	Grassland	Aug
Speckled Wood butterfly	Woodland	Throughout the summer
Oak Processionary Moth	Oak trees	June
Cinnabar Moth caterpillar	Ragwort	July
Jersey Tiger moth	Ivy	August
Emperor dragonfly	Grassland	July & August
Banded demoiselle	Grassland near the brook	May and July
Broad bodied chaser	Grassland near the brook	July
Honey Bee	Bramble	July & Aug
Buff tailed bumblebee	Bramble	June
Common carder bee		June
European wasp	various	August
2 spot ladybird	Sycamore leaf	June
7 spot ladybird	Thistles	July & August
Harlequin ladybird	Sycamore leaf	August
Soldier beetle	Hogweed	August
Thick legged flower beetle	Bramble	June
Field grasshopper	Grassland	August
White lipped banded snail	Stinging nettles	July
<i>Volucella pellucens</i> (hoverfly)	Lilac	August
Horsefly	Bramble	June
Froghopper nymphs	Nettle & bramble	May
<i>Eriophyes lateannulatus</i> (Lime Nail Gall mite)	Lime tree leaf (Small-leaved lime)	April
<i>Cameraria ohridella</i> (Horse chestnut leaf minor)	Horse chestnut leaves	June
Aphids	Clumps of aphids found on Sycamore leaves	July
Knopper gall wasp	Oak trees	August

Plant life:

Species	Location/Habitat	Time of Year
Green alkanet	Various locations	May
Red campion	Maintenance compound	May
Ox-eye daisy	Verges & near Oasis Academy	May
Cow Parsley	Widespread	May
Stinging nettle	Widespread	Seen throughout the summer
Japanese knotweed	Various locations	May
Field poppy	Near Oasis Academy	June
Lords & Ladies	Edge of Beverley Brook	June
Yarrow	Fairground site	August
Ragwort	Various grassland locations	August
Himalayan balsam	Edge of Beverley Brook	July
Snowberry	Near the Footbridge	August
Hops (variety unknown)	Tow path near Tractor Bridge	August
Purple loosestrife	Close Jack's Bridge	July
Horse radish	Near Tractor Bridge	June
Corn Flower	Oasis Academy Meadow	May
Red dead nettle	Grassland	March
Daffodils (unknown variety)	Lower Common South	February
Yellow sun spurge	Fairground site	April
Honesty	Fairground site	April
Honey suckle	Beverley Brook path	June
Guelder Rose	Edge of Oasis Academy woodland	June
Spear thistle	Various grassland locations	July
Hogweed	Edge of Main Field	
Hedge Bindweed	Growing amongst nettle	July
Bindweed	Grassland areas	July
Lilac	Commondale	July
Evening Primrose	Edge of Rangers Hut	July
Woody nightshade	North of Foot Bridge	July
Bramble	Various locations	Seen throughout the year

Mammals:

Species	Location/Habitat	Time of Year
Grey Squirrel	Various locations	Seen throughout the year
Brown rat	Various locations	Seen throughout the year
Hedgehog	Near Van Buren's Cottage	September & October
Domestic dog	Various locations	Seen throughout the year

Appendix 9. Beverley Brook Species Lists to End June 2019 and Riverfly Data

Insects

Common English Name	Scientific name	Recorder	Date		
Beautiful Demoiselle (4)	<i>Calopteryx virgo</i>	BB	24.05.19		
Banded Demoiselle (20)	<i>Calopteryx splendens</i>	BB	24.05.19		
Blue-tailed Damselfly	<i>Ischnura elegans</i>	BB	24.05.19		
Large Red Damselfly	<i>Pyrrosoma nymphula</i>	BB	24.05.19		
Oak Processionary Moth	<i>Thaumetopoea processionea</i>	PH	06.06.19	21.06.19 resident	
Hornet	<i>Vespa crabo</i>	RT		21.06.19	

Birds

Common English Name	Scientific name	Recorder	Date		
Mandarin Duck	<i>Aix galericulata</i> With 5 ducklings	PH	29.05		
Kingfisher	<i>Alcedo atthis</i>	Reported Source unknown		12.18	
Mallard	<i>Anas platyrhynchos</i>	RT	26.04.19	PH 29.05 PH 06.06	RT 19.06 (5)
Grey Heron	<i>Ardea cinerea</i>	RT/RT&PH/	26.04.19	06.06.19	
Wood pigeon	<i>Columba palumbus</i>	RT	19.06		
Carrion Crow	<i>Corvus corone</i>	RT	26.04.19	06.06.19	
Jackdaw	<i>Corvus monedula</i>	Rt&PH		06.06.19	
Mute Swan	<i>Cygnus olor</i>	RT	26.04.19		
Great spotted Woodpecker	<i>Dendrocopos major</i>	PH	07.06.19		
Egret (little presumably)	<i>Egretta garzetta</i>	RT&PH		06.06.19	
Robin	<i>Erithacus rubecula</i>	RT/RT&PH	26.04.19	06.06.19	
Moorhen	<i>Gallinula chloropus</i>	RT	26.04.19		
Grey wagtail	<i>Motacilla cinerea</i>	PH	07.06.19 regulars		
Green Woodpecker	<i>Picus viridis</i>	PH	07.06.19		
Green Parakeet	<i>Psittacula krameri</i>	RT	26.04.19		
Nuthatch	<i>Sitta europaea</i>	PH	22.02.19		
Collared Dove	<i>Streptopelia decaocto</i>	RT	19.06		
Redwing	<i>Turdus illacus</i>	PH	22.02.19		
Blackbird	<i>Turdus merula</i>	PH/RT	PH22.02.19	RT19.06.19	
Stock Dove	<i>Columba oenas</i>	RT		21.06.19 Large numbers	

Fish

Common English Name	Scientific name	Recorder	Date		
Eel	<i>Anguilla anguilla</i>	SERT	17.12.18		
Stone Loach	<i>Barbatula barbatula</i>	SERT	17.12.18		
Goldfish	<i>Carassius auratus</i>	SERT	17.12.18		
Gudgeon	<i>Gobio gobio</i>	SERT	17.12.18		
Dace	<i>Leuciscus leuciscus</i>	SERT	17.12.18		
Minnow	<i>Phoxinus phoxinus</i>	SERT	17.12.18		
Roach	<i>Rutilus rutilus</i>	SERT	17.12.18	21.06.19	BioBlitz
Chub	<i>Squalius cephalus</i>	SERT	17.12.18	21.06.19	BoBlitz
Tench	<i>Tinca tinca</i>	SERT	17.12.18		

Mammals

Common English Name	Scientific name	Recorder	Date	
Badger (sett)	<i>Meles meles</i>	PH		Active 2019
Brown Rat	<i>Rattus norvegicus</i>	PH	25.05.19	
Squirrel	<i>Sciurus carolinensis</i>	PH / RT		Ever present

Plants (shaded species are BioBlitz additions to the lists from The Plain and environs)

Common English Name	Scientific name	Recorder	Date		
Field maple	<i>Acer campestre</i>	RT	26.04.19		
Sycamore	<i>Acer pseudoplatanus</i>	RT	26.04.19		
Ground-elder	<i>Aegopodium podagraria</i>	RT		19.06	
Horse Chestnut	<i>Aesculus hippocastanum</i>	RT	26.04.19	+ leaf miner 19.06	
Garlic Mustard	<i>Alliaria petiolata</i>	RT	26.04.19	Confirmed 19.06	
Cow Parsley	<i>Anthriscus sylvestris</i>	RT	26.04.19		
Lesser Burdock	<i>Arctium minus agg.</i>	RT (needs verification)		21.06	
False Oat Grass	<i>Arrhenatherum elatius</i>	RT		19.06	
Mugwort	<i>Artemisia vulgaris</i>	RT		21.06	
Lords and Ladies	<i>Arum maculatum</i>	RT	26.04.19		
Harts-tongue fern	<i>Asplenium (Phyllitis) scolopendrium</i>	PH/RT	06.06.19		
Silver Birch	<i>Betula pendula</i>	RT	26.04.19		
Shepherd's Purse	<i>Capsella bursa-pastoris</i>	RT		21.06.19	
Pendulous Sedge	<i>Carex pendula</i>	RT	26.04.19		

Hornbeam	<i>Carpinus betula</i>	RT confirm on far bank	26.04.19		
Rosebay Willowherb	<i>Chamaenerion angustifolium</i>	RT		21.06	
Scented mayweed.	<i>Chamomilla sp.</i>	recutita / suaveolens		19.06	
Spear Thistle	<i>Cirsium vulgare</i>	RT		19.06	
(Hedge?) Bindweed	<i>Calystegia sepium?</i>	Large white flowered <i>C.sepium</i> or <i>C.silvatica</i>		19.06 RT	
Hazel	<i>Corylus avellana</i>				
Hawthorn	<i>Crataegus monogyna</i>	RT	26.04.19		
Cocksfoot	<i>Dactylis glomerata</i>				
Male Fern	<i>Dryopteris felix-mas</i>	RT	26.04.19		
Broadleaved Willowherb	<i>Epilobium montanum</i>	RT confirmed 19.06	26.04.19	19.06	
Japanese knotweed	<i>Fallopia japonica</i>	PH	29.05		
Ash	<i>Fraxinus excelsior</i>	RT	26.04.19	RT /PH 06.06	
Common Fumitory	<i>Fumaria officinalis</i>	RT		19.06	
Cleavers/ Goosegrass	<i>Galium aparine</i>	RT	26.04.19		
Herb Robert	<i>Geranium robertianum</i>	RT	26.04.19	21.06.19	
Wood Avens	<i>Geum urbanum</i>	RT	26.04.19		
Ground Ivy	<i>Glechcoma hederacea</i>	RT	26.04.19		
Ivy	<i>Hedera helix</i>	RT	26.04.19		
Hogweed	<i>Heracleum sphondylium</i>	RT	26.04.19		
Wall barley	<i>Hordeum murinum</i>	RT		19.06	
Spanish Bluebell	<i>Hyacinthoides /Scilla hispanica</i>	RT	26.04.19		
Holly	<i>Ilex aquifolium</i>	RT	26.04.19		
Himalayan Balsam	<i>Impatiens glandulifera</i>	RT/PH		19.06	
White deadnettle	<i>Lamium album</i>	RT	26.04.19		
Hawkbit	<i>Leontodon Sp.</i>	To confirm			
Honeysuckle	<i>Lonicera periclymenum</i>	RT	26.04.19		
Scentless mayweed	<i>Matricaria perforata</i>	RT		19.06	
Poppy	<i>Papaver sp.</i>	RT garden escape?		19.06	
Ribwort plantain	<i>Plantago lanceolata</i>	RT		19.06	
Greater plantain	<i>Plantago major</i>	RT		19.06	
Meadow grass	<i>Poa spp</i>	RT		19.06	
Redshank	<i>Polygonum persicaria</i>	RT		19.06	
Aspen / Poplar	<i>Populus tremula</i>	RT		21.06	
Tormentil	<i>Potentilla anglica</i>	RT		19.06	
Laurel (Portugal)?	<i>Prunus lusitanica</i>	RT garden escape?			
Blackthorn/Sloe	<i>Prunus spinosa</i>	RT&PH)26.04.19	06.06.19	
Cherry /plum /	<i>Prunus spp.</i>	RT confirmed with PH) "	"	
Bracken	<i>Pteridium aquilinum</i>	RT		19.06	
Pedunculate Oak	<i>Quercus robur</i>	RT	26.04.19		

Buttercup	<i>Ranunculus repens</i>	RT		19.06	
Dog Rose	<i>Rosa canina</i>	RT confirm	26.04.19		
Bramble	<i>Rubus fruticosus</i>	RT	26.04.19		
Common Sorrel	<i>Rumex acetosa</i>	RT		19.06	
Curled Dock	<i>Rumex crispus</i>	RT	26.04.19	Confirmed 19.06/21.06	
Broad-leaved Dock	<i>Rumex obtusifolius</i>	RT	26.04.19		
Elder	<i>Sambucus nigra</i>	RT	26.04.19		
Ragwort	<i>Senecio jacobaea</i>	RT		19.06	
Hedge Mustard	<i>Sisymbrium officinale</i>	RT		19.06	
Bittersweet	<i>Solanum dulcamara</i>	RT		19.06	
Perennial Sow thistle	<i>Sonchus arvensis</i>	RT		19.06	
Hedge Woundwort	<i>Stachys sylvatica</i>	RT		19.06	
Dandelion	<i>Taraxacum officinale</i>	RT	26.04.19		
Yew	<i>Taxus baccata</i>	RT		19.06	
Stinging Nettle	<i>Urtica dioica</i>	RT	26.04.19	19.06	
Common Vetch	<i>Vicia sativa</i>				
Periwinkle	<i>Vinca minor?</i>	RT opposite bank		19.06	

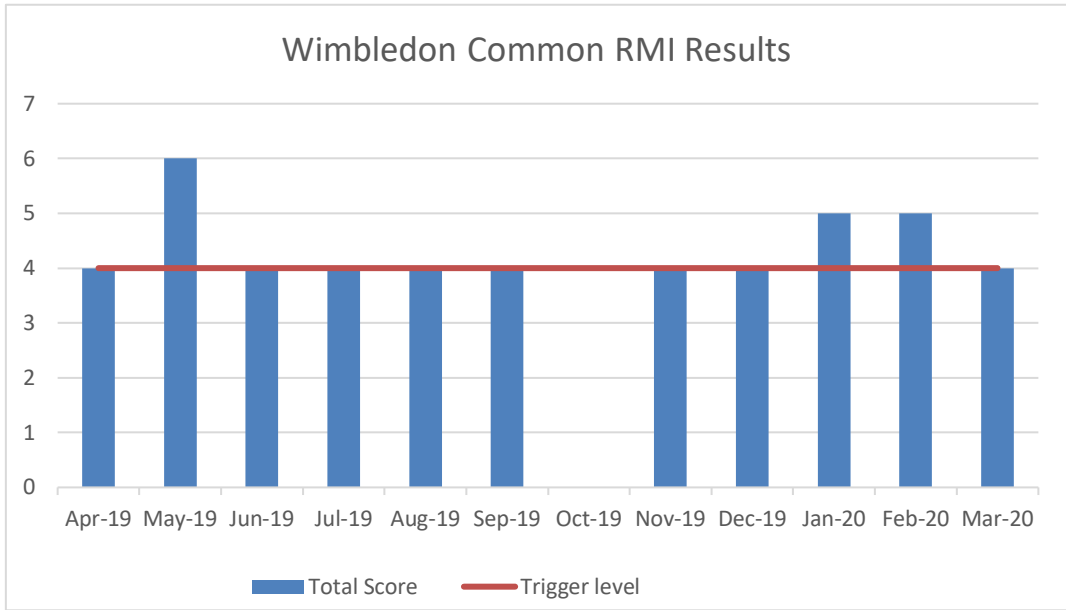
Riverfly Monitoring

Like most biotic indices of water quality, the Riverfly sampling method involves a three minute kick sample using a standardised net and collection technique followed by a one minute manual search of larger stones. In the Riverfly system, as used on Wimbledon Common, the target indicator organisms are: Caddisflies (noted as cased and uncased); *Gammarus pulex* (Freshwater shrimp); up-winged flies, termed Olives e.g Mayflies (*Baetidae*) and Alderflies (*Sialidae*); and potentially, though not recorded to date, Stoneflies (from assorted sensitive families) and Mayflies (*Ephemereillidae* and other sensitive families) viz. blue-winged olives. Their presence and abundance are noted in 4 main categories:-

1-9	A/1
10 - 99	B/2
100 - 999	C/3
1000+	D/4

The graph and chart below are the results from the first year of monitoring on the Beverley Brook at Wimbledon. The trigger level is the expected good water quality standard for a thriving fish population in the Beverley Brook on Wimbledon Common. If this threshold is not reached it suggests the Brook has become polluted in some way and this would 'trigger' investigation by the Environment Agency. On the SERT website these results can be compared with those for other stretches of the Beverley Brook and the neighbouring south bank tributaries of the River Thames, the rivers Hogsmill and Wandle, so enabling a broader areal understanding.

Date	Olives	Gammarus	Caseless Caddis	Cased Caddis	Total Score	Trigger level
Apr-19	59	20	0	0	4	4
May-19	100	60	0	2	6	4
Jun-19	88	58	0	0	4	4
Jul-19	44	11	0	0	4	4
Aug-19	28	21	0	0	4	4
Sep-19	37	14	0	0	4	4
Oct-19	No survey completed due to poor weather					4
Nov-19	23	26	0	0	4	4
Dec-19	28	21	0	0	4	4
Jan-20	12	37	2	0	5	4
Feb-20	15	61	4	0	5	4
Mar-20	8	54	1	0	4	4



RMI = River Monitoring Initiative

Appendix 10 Rainfall Figures for SW20 8DX 2005 to the Present

ALL FIGURES IN MM.	JAN.	FEB.	MCH.	3 MTH. TOTAL	APR.	MAY	JUNE	3 MTH. TOTAL	6 MTH. TOTAL	JULY	AUG.	SEPT.	3 MTH. TOTAL	OCT.	NOV.	DEC.	3 MTH. TOTAL	6 MTH. TOTAL	12 MTH. TOTALS
2005	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	36	71	64	171	80	36	40	156	327	n/a
2006	17	46	41	104	39	75	23	137	241	31	66	82	179	81	62	70	213	392	633
2007	62	93	45	200	4	88	69	161	361	113	47	35	195	39	92	49	180	375	736
2008	67	11	83	161	61	71	35	167	328	62	49	48	159	40	78	40	158	317	645
2009	70	60	35	165	27	34	27	88	253	70	30	23	123	31	154	77	262	385	638
2010	51	98	31	180	30	34	20	84	264	7	94	51	152	91	38	38	167	317	581
2011	83	40	14	137	3	19	88	110	247	55	84	24	163	20	33	59	112	275	522
2012	42	18	17	77	116	27	125	268	345	101	38	48	187	100	66	105	271	458	803
2013	52	26	55	133	40	45	24	109	242	27	71	56	154	82	64	106	252	406	648
2014	156	87	28	271	38	101	44	183	454	44	90	13	147	76	107	29	212	359	813
2015	64	43	21	128	20	53	13	86	214	57	87	79	223	31	51	48	130	353	567
2016	73	38	69	180	37	60	162	259	439	21	20	28	69	36	94	7	137	206	645
2017	68	37	21	126	4	61	38	103	229	102	74	40	216	17	43	88	148	364	593
2018	68	26	69	163	55	74	3	132	295	14	64	33	111	49	93	54	196	307	602
2019	28	37	51	116	15	27	93	135	251	76	33	67	176	93	65	101	259	435	686
Averages 01/2006 – 12/2019 inclusive	64	47	41	152	35	55	54	144	296	56	60	45	161	57	74	62	193	354	650

n/a = not available

Monthly averages: wettest – Nov/Jan/Dec/Aug/Oct/July/May/Jun/Feb/Sep/Mch/Apr – driest.



Wimbledon and Putney Commons

BioBlitz

Weekend of Nature

Friday 21st to Sunday 23rd June 2019



**Bats and moths, birds,
butterflies, bees,
flowers and
hedgehogs!**
Join us for our
weekend of nature,
exploring the
Commons with our
team of experts

Schedule of Events:

Friday 21st June
New event for this year!
7.00pm Evening Walk along
Beverley Brook

Saturday 22nd June
2.30pm Butterfly and Dragonfly Walk
6.00pm Small Mammal Survey part 1
9.30pm Bat Walk and Moth Evening

Sunday 24th June
6.00am Small Mammal Survey Part 2
8.00am Bird Walk
10.00am Opening the Moth Trap
10.45am General Nature Walk
1.30pm Lunchtime Talk by SW15 Hedgehog Group

Scan for more information

**No
booking
required**

Or visit our website:
www.wpcc.org.uk
for full details on
each event

Wimbledon Common Nature Club, Quekett Microscopical and Reptile Events will also be joining us

Wimbledon and Putney Commons

**21st to 23rd
June 2019**
**Come and explore
our wildlife!**



Schedule of Events

Friday 21st June

New event for this year!

7.00pm Evening Walk along Beverley Brook

See the wildlife and the recent restoration work.

Meet at the Richardson Evans Memorial Playing Fields car park, SW15 3PQ

Saturday 22nd June

2.30pm Butterfly and Dragonfly Walk

6.00pm Small Mammal Survey part 1

9.30pm Bat Walk and Moth Evening

Sunday 23rd June

6.00am - Small Mammal Survey - opening the traps

8.00am - Bird Walk

10.00am - Opening the Moth Trap

10.45am - General Nature Walk

1.30pm Lunchtime Talk

This year we are joined by Jackie Underwood-Hall from SW15 Hedgehogs. Jackie will be talking about the work that her and her team do to help promote the protection of hedgehogs around the local area.

Information Centre - Quekett Microscopical Club will be set up in the Information Centre with their microscopes, giving us a very different view of nature.

Children's Area - The Wimbledon Common Nature Club for children will be on hand providing activities for children

Reptile Events will again be with us with their snakes & Lizards for you to handle and learn about.

Saturday and Sunday events start at the Ranger's Office, SW19 5NR

**Timings are approximate and events are subject to cancellation
in the event of adverse weather**

**Please see our website at www.wpcc.org.uk
for further information**

Appendix 12 BioBlitz Fauna and Overall Totals for the Main Faunal Groups 2019

Common English Name	Scientific name	Species Count 2019	Species count 2018	Species count 2017	Species count 2016
Shading highlights new BioBlitz species (v) bird seen during public event but not on early morning bird walk					
Bats		3	4	3	3
Daubenton's Bat	<i>Myotis daubentonii</i>	√	√	√	√
Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	√	√	√	√
Soprano Pipistrelle	<i>Pipistrellus pygmaeus</i>	√	√	√	√
Nathusius' pipistrelle	<i>Pipistrellus nathusii</i>		√		
Other Mammals		6	3	5	2
Badger	<i>Meles meles</i>	√ Evidence of active badger sett	√ Evidence of active badger sett		
Fox	<i>Vulpes vulpes</i>	√	√	√	√
Rabbit	<i>Oryctolagus cuniculus</i>	√	√	√	√
Weasel	<i>Mustela nivalis</i>	-	x	√	
Bank Vole	<i>Myodes (Clethrionomys) glareolus</i>	-	x	√	
Wood Mouse	<i>Apodemus sylvaticus</i>	√	x	√	
Field Vole	<i>Microtis agrestis</i>	√			
Grey Squirrel	<i>Sciurus carolensis</i>	√			
Total Mammals		9	7	8	5
Birds - early morning walk		24	38	26	28
Black Cap	<i>Sylvia atricapilla</i>	√	√	√	√
Blackbird	<i>Turdus merula</i>	√	√	√	√
Blackheaded Gulls	<i>Chroicocephalus ridibundus</i>	-	√	-	-
Blue Tit	<i>Cyanistes caeruleus</i>	√	√	√	√
Chaffinch	<i>Fringilla coelebs</i>	√	√	√	√
Chiff Chaff	<i>Phylloscopus collybita</i>	√	√	√	√
Coal Tit	<i>Parus ater</i>	√	√	-	√
Common Whitethroat	<i>Sylvia communis</i>	√	√	√	√
Carrion Crow	<i>Corvus corone</i>	√	√	√	√
Dunnock	<i>Prunella modularis</i>	√	√	-	√
Garden Warbler	<i>Sylvia borin</i>	√	-	√	√
Goldfinch	<i>Carduelis carduelis</i>	√	√	√	√
Great Tit	<i>Parus major</i>	√	√	√	√
Great Spotted Woodpecker	<i>Dendrocopos major</i>	√	√	√	
Herring Gull	<i>Larus argentatus</i>	-	√	-	√
Jackdaw	<i>Corvus monedula</i>	-	√	√	√
Jay	<i>Garrulus glandarius</i>	√	(√) (later walk)	-	√
Kestrel	<i>Falco tinnunculus</i>	√	√	(√)	(√)
Long-tailed Tit	<i>Aegithalos caudatus</i>	-	√		√
Magpie	<i>Pica pica</i>	-	-	√	√
Mallard	<i>Anas platyrhynchos</i>	-	√	√	√
Moorhen	<i>Gallinula chloropus</i>	-	√	√	√
Mistle Thrush	<i>Turdus viscivorus</i>	-	√	-	-
Nuthatch		√			
Ring-necked Parakeet	<i>Psittacula krameri</i>	-	√	-	√

Reed Bunting	<i>Emberiza schoenicus</i>	√	√	-	-
Robin	<i>Erithacus rubecula</i>	-	√	(√)	√
Song Thrush	<i>Turdus philomelos</i>	√	√	√	√
Starling	<i>Sturnus vulgaris</i>	-	-	-	√
Swallow	<i>Hirundo rustica</i>	√	√	√	√
Swift	<i>Apus apus</i>	√	√	√	√
Tufted Duck	<i>Aythya fuligula</i>	-	√	-	√
Wood Pigeon	<i>Columba palumbus</i>	--	√	√	√
Wren	<i>Troglodytes troglodytes</i>	√	√	-	√
Mute Swan	<i>Cygnus olor</i>	-	√	√	-
Willow Warbler	<i>Phylloscopus trochilus</i>	-		√	-
Stock Dove	<i>Columba oenas</i>	-		√	-
Nuthatch	<i>Sitta europea</i>	-	√	√	-
Coot	<i>Fulica atra</i>	-	√	√	-
Mandarin Duck	<i>Aix galericulata</i>	-	√	√	-
Tree Creeper	<i>Certhia familiaris</i>	-	-	√	-
Common Tern	<i>Sterna hirundo</i>	√	√	-	-
Buzzard	<i>Buteo buteo</i>	-	√	-	-
Heron	<i>Ardea cinerea</i>	-	√	-	-
Canada Goose	<i>Branta canadensis</i>	-	√	-	-
Hobby	<i>Falco subuteo</i>	-	√	-	-
Cormorant	<i>Phalacrocorax carbo</i>	√			
Goldcrest	<i>Regulus regulus</i>	√			
Other Birds noted		2	1 + 1 (Jay above)	4	4
Kestrel	Included above	Included above	Included above	√	
Red Kite	<i>Milvus milvus</i>	-	-	-	(√) on Ladies Mile
Robin	-	-	Included above	√	
Skylark	<i>Alauda arvensis</i>	-	-	√	√ The Plain
Tawny Owl	<i>Strix aluco</i>	√	(√) heard on Bat walk	√	√
Sparrowhawk	<i>Accipiter nisus</i>	√			
Total Birds		26	40	30	32
Insects					
Butterflies		15	14	15	10
Comma	<i>Polygonia c-album</i>	√	√	√	-
Common Blue	<i>Polyommatus icarus</i>	√	-	-	√
Essex Skipper	<i>Thymelicus lineola</i>	-	√	-	-
Gatekeeper	<i>Pyronia tithonus</i>	-	-	√	-
Green-veined White	<i>Pieris napi</i>	-	√	-	-
Holly Blue	<i>Celastrina argiolus</i>	√	-	√	
Large Skipper	<i>Ochlodes sylvanus</i>	√	√	-	√
Large White	<i>Pieris brassicae</i>	√	√	-	√
Marbled White	<i>Melanargia galathea</i>	-	√	√	
Meadow Brown	<i>Maniola jurtina</i>	√	√	-	√
Painted Lady	<i>Vanessa cardui</i>	√	-	√	√
Peacock	<i>Inachis io</i>	(√) caterpillars	(√) caterpillars		√
Purple Hairstreak	<i>Favonius quercus</i>	-	√	√	√

Red Admiral	<i>Vanessa atalanta</i>	✓	✓	✓	-
Ringlet	<i>Aphantopus hyperantus</i>	✓	✓	✓	-
Small Copper	<i>Lycaena phlaeas</i>	-	-	✓	-
Small Heath	<i>Coenonympha pamphilus</i>	✓	-	✓	✓
Small Skipper	<i>Thymelicus sylvestris</i>	✓	✓	✓	-
Small Tortoiseshell	<i>Aglais urticae</i>	✓	-	✓	✓
Small White	<i>Pieris rapae</i>	✓	-	✓	-
Speckled Wood	<i>Pararge aegeria</i>	✓	✓	✓	✓
White Admiral	<i>Limenitis camilla</i>	-	✓	✓	
Dragonflies / Damselflies		7	10	10	5
Broad-Bodied Chaser	<i>Libellula depressa</i>	✓	✓	✓	✓
Brown Hawker	<i>Aeshna grandis</i>	-	-	✓	✓
Common Blue Damselfly	<i>Enallagma cyathigerum</i>	-	✓	✓	✓
Emperor Dragonfly	<i>Anax imperator</i>	✓	✓	✓	✓
Four-spotted Chaser	<i>Libellula quadrimaculata</i>	-	✓	✓	✓
Large Red Damselfly	<i>Pyrrhosoma nymphula</i>	-	✓	✓	-
Azure Damselfly	<i>Coenagrion puella</i>	✓	✓	✓	-
Black-tailed Skimmer	<i>Orthetrum cancellatum</i>	✓	✓	✓	-
Blue-tailed Damselfly	<i>Ischnura elegans</i>	-	✓	✓	-
Emerald Damselfly	<i>Lestes sponsa</i>	✓	✓	✓	-
Red-eyed Damselfly	<i>Erythromma najas</i>	✓	✓	-	-
Common Darter	<i>Sympetrum striolatum</i>	✓			
Moths		19/ 85	29/97	15	19
	17 moth species were recorded during the Bat and moth evening, 74 were found in the overnight trap allowing for duplicates this gave 83 species for the BioBlitz weekend and two more noted during the day-time public walks, Six-spot Burnet and Oak Processionary making 85 species overall. The list below gives comparison with previous BioBlitz records from 'trapping' at lamp and sheet and walks with the public.				
Blotched Emerald	<i>Comibaandena bajularia</i>	✓	✓	✓	✓
Brimstone Moth	<i>Opisthagraptis luteolata</i>	-	✓	✓	✓
Common Emerald	<i>Hemithen aestivaria</i>	-	✓	✓	✓
Diamond-back Moth	<i>Plutella xylostella</i>	-	-	-	✓
Garden Grass Veneer	<i>Chrysoteuchia culmella</i>	✓ General nature walk and also in overnight trap	✓	but on BB total moth list 2017	✓
Green Oak Tortrix	<i>Tortrix viridana</i>	✓	-	but on BB total moth list 2017	✓
Large Yellow Underwing	<i>Noctua pronuba</i>	✓	✓	but on BB total moth list 2017	✓
Lime Hawk-Moth	<i>Mimas tiliae</i>	-	-	-	✓
Maiden's Blush	<i>Cyclophora punctaria</i>	-	-	but on BB total moth list 2017	✓
Mottled Beauty	<i>Alcis repandata subsp. repandata</i>	-	✓	✓	✓
Orange Footman	<i>Eilema sororcula</i>	-	-	but on BB total moth list 2017	✓
Sycamore Piercer	<i>Pammene aurita</i>	-	-	-	✓
Shuttle-shaped Dart	<i>Agrotis puta subsp. puta</i>	-	-	-	✓

Silver Y	<i>Autographa gamma</i>	✓	-	but on BB total moth list 2017	✓
Spectacle	<i>Abrostola tripartita</i>	-	-	-	✓
Straw Dot	<i>Rivula sericealis</i>	✓	-	-	✓
Treble Brown Spot	<i>Idaea trigeminata</i>	✓	-	but on BB total moth list 2017	✓
Vapourer Moth	<i>Orgyia antiqua</i>	-	-	-	✓
Willow Beauty	<i>Peribatodes rhomboidaria</i>	-	✓	-	✓
Buff Arches	<i>Habrosyne pyritoides</i>	-	✓	✓	
Cinnabar Moth	<i>Tyria jacobaeae</i>	-	✓Public walk	✓	
Clouded Border	<i>Lomaspilis marginata</i>	-	✓	✓	
Clouded Silver	<i>Lomographa temerata</i>	-	✓	✓	
Giant (Great) Oak Beauty	<i>Hypomecis roboraria</i>	-	-	✓	
Large Emerald	<i>Geometra papilionaria</i>	✓	-	✓	
Leopard	<i>Zeuzera pyrina</i>	-	-	✓	
Light Emerald	<i>Campaea margaritaria</i>	✓	-	✓	
Oak Processionary Moth	<i>Thaumetopoea processionea</i>	✓	✓	✓	
Orange-tailed Clearwing	<i>Synanthedon andrenaeformis</i>	-	-	✓	
Waved Black	<i>Parascotia fuliginaria</i>	-	-	✓	
Box-tree Moth	<i>Cydalima perspectalis</i>	-	✓	-	
Wainscot	<i>Mythimna pallens</i>	✓	✓	-	
Short cloaked moth	<i>Nola cucullatella</i>	-	✓	-	
September thorn	<i>Ennomos erosaria</i>	-	✓	-	
Rosy Footman	<i>Miltochrista miniata</i>	-	✓	-	
	<i>Coleophora kuehnella</i>	-	✓		
Brown Oak Tortrix	<i>Archips crataegana</i>	✓			
Light Arches	<i>Apamea lithoxyloea</i>	✓			
Heart and Dart	<i>Agrotis exclamationis</i>	✓			
Bee Moth	<i>Aphomia sociella</i>	✓			
Smoky Wainscot	<i>Mythimna impura</i>	-			
Marbled Minor	<i>Oligia strigilis</i>	✓			
Shoulder Striped Wainscot	<i>Leucania comma</i>	✓			
Pale Oak Beauty	<i>Hypomecis punctinalis</i>	✓			
Brown China Mark	<i>Elophila nymphaeata</i>	✓			
Six-spot Burnet	<i>Zygaena filipendulae</i>	✓			
Other Insects		22	33	16	23
Bishops Mitre Bug	<i>Aelia acuminata</i>	-	-	-	✓
Click Beetle	<i>Prosternon tessellatum</i>	-	1 sp. not confirmed	-	✓
Click Beetle (red and black)	<i>Ampedus sanguinolentus</i>	-	- see above	-	✓
Conopid fly	<i>Sicus ferruginalis</i>	-	-	-	✓
Bush Cricket	<i>Pholidoptera griseoaptera?</i> or <i>Tettigonia-viridissima?</i>	-	✓	✓	✓Species not confirmed, e.g. Dark bush-cricket? Great Green

					Bush Cricket? On The Plain in 2017
Dock Bug	<i>Coreus marginatus</i>	-	-	-	✓
Ghost larva	<i>Chaoborus crystallinus</i>	-	✓	✓	✓
Greater Water Boatman/backswimmer	<i>Notonecta glauca</i>	-	✓? Boatman sp. Confirmed in 2018	-	✓
Honey Bee	<i>Apis mellifera</i>	-	✓	✓	✓
Hoverfly	<i>Xylota segnis</i>	-	✓	-	✓
Ichneumon Wasp spp.	<i>Ichneumon spp.</i>	-	✓	-	✓
Lesser Water Boatman	<i>Corixa punctata</i>	✓	✓ Boatman sp. not confirmed in 2018	✓	✓
Midge Larvae	<i>Chironomidae spp.</i>	✓	✓	✓	
(Red-tailed) Bumble bee	<i>Bombus (lapidarius) sp.</i>	-	✓	✓	✓ not lapidarius in 2017
Iris Saw Fly	<i>Rhadinoceraea micans</i>	✓	✓	-	✓
Scarabid Beetle	<i>Hoplia caerulea</i>	✓	-	-	✓
Seven Spot Ladybird	<i>Coccinella septempunctata</i>	✓	✓	✓	✓
Green Shield Bug	<i>Palomena prasina</i>	-	✓	-	✓
Soldier Beetle	<i>Rhagonycha fulva</i>	-	-	-	✓
Soldier Fly	<i>Chloromyia formosa</i>	-	-	-	✓
Stag Beetle	<i>Lucanus cervus</i>	-	-	-	✓
Thick-kneed flower beetle	<i>Oedemera nobilis</i>	✓	✓	✓	✓
Common Wasp	<i>Vespula vulgaris</i>	-	-	-	✓
Nettle Weevil	<i>Phyllobius pomaceus</i>	-	-	-	✓
Common Green Grasshopper	<i>Omocestus viridulus</i>	✓	✓	✓	
Green Tortoise Beetle	<i>Cassida viridis</i>	-	-	✓	
Harlequin Ladybird	<i>Harmonia axyridis</i>	-	✓	✓	
Longhorn Beetle	<i>Strangalia maculata</i>	✓	-	✓	
Rose Chafer	<i>Cetonia aurata</i>	-	✓	✓	
Adonis Ladybird?	<i>Adonia (Hippodamia) variegata</i>	-	✓	✓	
Stink Bug/ Shield Bug	<i>Palomena prasina</i>	-	✓	✓	
Summer Chafer	<i>Amphimallon solstitiale</i>	-	-	✓	
Yellow Meadow Ant	<i>Lasius flavus</i>	✓	✓	✓	
Welsh Chafer	<i>Phyllopertha horticola (Hoplia philanthus)</i>	-	✓		
Robber fly	<i>Asilidae sp.</i>	-	✓		
Tapered Drone Fly	<i>Eristalis pertinax</i>	-	✓		
Red Poplar Leaf Beetle	<i>Chrysomela populi</i>	✓	✓		
Roesel's Bush Cricket	<i>Metrioptera roeselli</i>	-	✓		
Two-spot lady bird	<i>Adalia bipunctata</i>	✓	✓		
Red-legged shield bug	<i>Pentatoma rufipes</i>	-	✓		
Marmalade hoverfly	<i>Episyrphus balteatus</i>	-	✓		
Scorpion fly	<i>Panorpa communis</i>	-	✓		
Frog hopper (Cuckoo Spit) bug	<i>Philaenus spumarius</i>	✓	✓		
On Goat's Rue -new to British Isles since 2012	<i>Bruchidus imbricornis</i>	-	✓		
European Beewolf (solitary wasp)	<i>Pilanthus triangulum</i>	-	✓		
Ornate-tailed Digger wasp (solitary wasp)	<i>Cerceris rybyensis</i>	-	✓		

Dark-winged Blood bee (solitary bee)	<i>Sphecodes gibbus</i>	-	√		
Hairy Shield Bug	<i>Dolycoris baccarum</i>	-			
Snake Fly	<i>Puncha sp.</i>	√			
Lesser Stag Beetle	<i>Dorcus parallelipedus</i>	√			
Black Ant	<i>Lasius niger</i>	√			
Hornet	<i>Vespa crabo</i>	√			
(Copepod)	<i>Tomocerus longicornis</i>	√			
Lacewing	<i>Chrysoperia carnea</i>	√			
Rose Gall wasp Robin's pincushion	<i>Diplolepis rosae</i>	√			
Oak Gall wasp	<i>Andricus kollari</i>	√			
Pond Skater	<i>Gerris lacustris</i>	√			
Holly Leaf Miner	<i>Phytomyza illicis</i>	√			
Total Insects	<i>Public events</i>	63	14+10+29+33=86	56	57
	<i>Including overnight moths</i>	129	14+10+97+33=154		
Others					
Arachnids		1	6	0	2
Cucumber spider	<i>Araniella cucurbitina</i>	-	-	-	√
Tick	<i>Ixodes spp.</i>	-	-	-	√
Crab spider	<i>Thomisidae sp.</i>	-	√		
Comb web spider	<i>Theridiidae sp.</i>	-	√		
Hammock spider	<i>Pityophantes sp.</i>	-	√		
Labyrinth spider	<i>Agelena labyrinthica</i>	√	√		
Nursery Web spider	<i>Pisauridae sp.</i>	-	√		
Harvestman	<i>Opiliones sp.</i>	-	√		
Crustaceans		3	1	1	2
Freshwater Shrimp	<i>Gammarus pulex</i>	√	√	√	√
Woodlouse	<i>Oniscus asellus</i> <i>sp not confirmed</i>	-	-	-	√
Water Flea	<i>Daphnia sp.</i>	√			
Water louse	<i>Asellus aquaticus</i>	√			
Amphibians		0	1	1	3
Froglet	<i>Rana temporaria</i>	-	√	-	√
Tadpoles were not seen					
Smooth Newt tadpole	<i>Lissotriton vulgaris</i>	-	-	√	√
Toad	<i>Bufo bufo</i>	-	-	-	√
Reptiles		1	1	1	1
Common Lizard	<i>Lacerta Zootoca vivipara</i>	√	√		√
Gastropods		0	1	1	4
Ramshorn Snail	<i>Planorbarius corneus</i>	-	-	-	√
White-lipped Snail	<i>Cepaea hortensis</i>	-	-	-	Possible confusion in common names between years?

Grove (Brown-lipped) Snail	<i>Cepaea nemoralis</i>	-	√	√	√ See above
Slug	<i>Arion (Mesarion) subfuscus</i>	-	-	-	√
Hedgehog Slug	<i>Arion intermedius</i>	-	-	-	√
Annelids		0	2	2	2
Bloodworm	<i>Glycera spp.</i>	-	√	√	√ Species not confirmed
Leech	<i>Hirudinea spp.</i>	-	√	√	√ Species not confirmed
Total fauna		103/169 + 3 at Beverley Brook 106/172	145 /213	100	108
Total Flora Details for 2019 in Appendix 3a (June) and 3b Habitat Patches and Appendix 9 Beverley Brook Walk		84 plus 27 at Beverley Brook 111	101	88	78
Total BioBlitz with the public At The Plain and environs		187/253	246 /314	188	186
Total BioBlitz including extras from Beverley Brook walk		217/283			