

RUBUS IN SURREY (v.c.17)

A list of the species considered reliably on record compiled by D.E.Allen 1997-2000 from the published literature, field records and searches of the relevant main herbaria (BM, CGE, K, NMW, OXF, SLBI).

Abbreviations used

- C (in place names) = Common
BEC = reports of the Botanical Society & Exchange Club
K & L = Kent & Lousley, "Handbook of the plants of the London Area"
(London Naturalist, supplements to vols 31 – 36 (1951 – 57))
LN = London Naturalist
Leslie = Flora of Surrey Supplement and Checklist (1987)
SFC = Surrey Flora Committee

Dates are 20th century ones if elided ('74, etc.); others are written in full.

Rubus specialists responsible for the determination of herbarium specimens are indicated as follows:

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|-----|-------------------|----|-------------------|
| A | = D.E.Allen | P | = K.W.Page |
| E | = E.S. Edees | R | = W. Moyle Rogers |
| HJR | = H.J.Riddelsdell | RR | = R.D.Randall |
| M | = B.A.Miles | W | = W.C.R.Watson |
| N | = A.Newton | | |

(These letters follow that of the herbarium in question in cases where the determination has been subsequent to the deposit of the specimen. This has occurred in the great majority of instances)

Initials of collectors

| | | | |
|------|---------------------|------|----------------------------------|
| ABJ | A.B.Jackson | KWP | K.W.Page |
| ABMB | Lady Anne Brewis | NDS | N.D.Simpson |
| ACL | A.C.Leslie | NWL | N.W.Legon |
| AHWD | A.H.Wolley-Dod | RCP | R.C.Palmer |
| AL | A.Ley | RJP | R.J.Pankhurst |
| AN | A.Newton | RPM | R.P.Murray |
| BAM | B.A.Miles | RWR | R.W.Robbins |
| BMCM | Miss B.M.C.Morgan | WCB | W.C.Barton |
| CA | C.Avery | WCRW | W.C.R.Watson |
| CEB | C.E.Britton | WHB | W.H.Beeby |
| DEA | D.E.Allen | WHM | W.H.Mills |
| DS | D.Skinner | WMR | W.Moyle Rogers |
| ECW | E.C.Wallace | WOF | W.O.Focke |
| EFL | E.F.Linton | WRL | W.R.Linton |
| EGG | E.G.Gilbert | YHH | Dr. Yolande Heslop - Harrison |
| EMD | E.M.Day | | |
| EN | Mrs E.Norman | | |
| ESE | E.S.Edees | | |
| ESM | E.S.Marshall | | |
| ESS | E.S.Salmon | | |
| HJR | H.J.Riddelsdell | | |
| HWP | H.W.Pugsley | | |
| JES | J.E.Spencer | | |
| JEW | J.E.Woodhead | | |
| JFL | J.F.Leslie | | |
| JGB | J.G.Baker | | |
| JMM | J.M.Montgomery | | |
| JMcN | J.Mc Neil | | |
| JR | J.Roffey | | |
| JRIW | J.R.Ironside - Wood | | |

(* horticultural species only)

Subgenus ANOPILOBATUS

- * ***R. odoratus*** L. (Purple-flowered Raspberry)
Eastern N. American species known for many years since World War Two as a relic of cultivation on an overgrown estate at Shottermill, Haslemere. Also naturalised on verge of Crabtree Road, West Humble (JES '84)
- * ***R. parviflorus*** Nutt. (Thimbleberry)
Western N. American species dominant for 100yards along railway embankment just north of R.Wey crossing on Guildford side of Shalford station (RJP '78: BM; RCF '90: SLBI). Also naturalised in woodland, Sutton Place (SFC mtg. '79)

Subgenus IDAEOBATUS

- R. idaeus*** L. (Raspberry)
Local (?) in open woods, perhaps native in some, but more widespread as a naturalised escape.
- * ***R. cockburnianus*** Hemsley (White-stemmed Bramble)
Chinese species well established on a verge at Ripley TQ037 546 (JMM '95 det. P).
- * ***R. phoenicolasius*** Maxim. (Japanese Wineberry)
N.E.Asian species increasingly naturalised: chalky scrub on slope above R.Mole, Norbury Park, Mickleham (BMCM '51; 'WHS' '53; NWL '74: BM); Box Hill (JMcN '63 : Liv); chalk downs nr, Mickleham – perhaps same as one of foregoing sites (DS '96 :BM); wall-top, Brook (ACL & JFL '74), since gone.
- * ***R. spectabilis*** Pursh (Salmonberry)
Western N. American species extensively naturalised round Haste Hill, Haslemere (DPY '57: BM, SLBI) and in hedges elsewhere round that town (ACL).
- * ***R. loganbaccus*** L. (Loganberry)
Cultivar of Californian origin naturalised occasionally (5 records since '38).

Subgenus DALIBARDASTRUM

- * ***R. tricolor*** Focke (Chinese Bramble)
Chinese species forming an extensive colony along roadside ditch, Hascombe TQ000 382 (EN & KWP '94); also on verge at Ripley (JMM & KWP '95).

Subgenus RUBUS

Section **RUBUS** – subsection ***Rubus*** (formerly the Suberecti)

- * ***R. allegheniensis*** Porter ('Common Blackberry' in USA)
N. American species naturalised on heaths: Littleworth C (CA '46: SLBI; JEW '47, '53: CGE); Wimbledon C edge (JEW '52: CGE).
- [***R. arrheniiformis*** Wats.
Heath species thinly scattered across England, Wales and the Low Countries. Royal C, Elstead (R 1890-91: NWM det.RR). Awaits confirmation.]
- * ***R. canadensis*** L. (Thornless Blackberry)
(*R. pergratus* Blanchard)
N. American species widely bird-dispersed outside RHS Gardens, Wisley (ACL '80 conf.N:BM) and naturalized on oakwood margin behind Merrist Wood College, Worplesdon SU963 535 (ACL & JFL '79 det.N; RJP '81: BM).
- R. divaricatus*** P.J. Mueller
Locally abundant on the western heaths and commons, rare elsewhere (Banstead Heath, HJR '23: BM; Limpsfield C, HJR '25: BM).
- R. glanduliger*** Wats.
Endemic almost to W. Sussex and Hampshire district W. of Haslemere. Sole record: roadside on w.edge of Thursley C SU898 408 (M '62: CGE).
- R. integribasis*** Mueller ex Boulay
Widespread continental species with English headquarters in W. half of Surrey, especially Walton – Weybridge area. An anomalous old record from Tooting C (R 1897).
- R. nessensis*** Hall
Damp woods. 20 widely scattered localities.
- R. nitidiflormis*** Sudre
Widespread on heaths in N.W. Europe and especially in and immediately around London area, this includes all 7 Surrey localities except for Headley Heath (WCRW in K&L; YHH '47: K det.N; ABMB '73: BM).
- R. nobilissimus*** (Wats.) Pearsall
A rarish trans-Channel heath species of extreme S. England and S.W. Ireland. Apparently restricted to the commons of the Esher-Cobham-Oxshott triangle, growing in abundance on Ardbrook C. An outlying record at Walton C, by the turning to Weybridge (AHW '03: BM, CGE det. N). Some records may belong to the so-called '*R. ammobius*'.
- R. plicatus*** Weihe & Nees
Frequent on the heaths and commons (but surprisingly unrecorded from Wimbledon and Putney Heath).
- R. scissus*** Wats.
A N. European moor and heath species that becomes scarce this far south. Border of Frensham C on Churt-Tilford road (WMR '12: BM); High Churt, N.W. of Kent Hatch at 600 ft.. (WCRW in LN for '27, p.12).

R. vigorosus Mueller & Wirtgen

A widespread N.W. European species of damp heaths, much rarer in England than formerly. Many times collected on Wimbledon C, but records from elsewhere are all pre-war at best: Barnes C (WMR, 1899, '02: BM, NMW; WCRW in K & L); Tooting C (WMR 1897); Weybridge C (WCRW in K & L); Mare Hill, Witley (RPM 1890: CGE; ESM, 1890 -1: BM, CGE, OXF); Haslemere (WMR ? date).

Section **RUBUS** – subsection ***Hiemales***

Series ***Sylvatici***

R. adpersus Weibe ex H.E.Weber

A widespread N.W. European species of damp heaths, primarily in the eastern counties in Britain. Known only from Royal C, Elstead, where it has often been collected (under various names) since its distribution thence in 1891-3 as no.28 in the historic "Set of British Rubi".

[***R. albionis*** Wats.

This western species is listed for vc17 in Watson's monograph, but no record has been traced. It approaches quite close to Surrey on the Hants/Berks border.]

R. averyanus Wats.

Endemic to central Surrey except for one or two places around Tunbridge Wells. Described only in '52 but collected as far back as '14 on Broadmoor C, nr. Abinger (EMD: BM det. A, N). That and the type locality, Walton Heath (several spots around the S. end of golf course TQ238 526-7), have been the main source of specimens since; but Watson found it plentiful at 500 – 800ft on Holmbury Hill ('53: K) and Avery collected it at Leith Hill (LN for '52, suppl.p.98), which suggests that the area S.W. of Dorking is the headquarters. There have been outlying finds at Bookham C (ABMB '73 det. N: BM) and Brook, roadside at Park Copse (ESE '57: NWM det. A). Avery and Woodhead confused this species with '*R. orbifolius*'.

R. calvatus Lees ex Bloxam

A mainly W. England endemic of heaths margins and woodland borders. Many records from W. and especially S.W. Surrey, few elsewhere: Reigate Heath (WRL 1883: BM, CGE det. HJR, M; ESS 1896 BM, CGE, SLBI; CA '49: SLBI); Brick Kiln Lane, Shirley (WMR '93: K); Wimbledon C (CA '39: SLBI) extinct on Putney Heath (WCRW in K&L); Selsdon (WCRW in BEC for '27, p.507).

R. canterburiensis Edees

Listed for square TQ45 (the Limpsfield area) by Newton in Leslie (1987). Described only in 1983, this rare woodland species is otherwise known in Britain only in Kent and one place in N. London.

R. chloophyllus Sudre

A trans-Channel species of open woods and heaths, mainly in E. Sussex and distinguished with difficulty from the next species. Sole record : Ashstead[?] Forest (WCRW '38: NMW conf. E).

R. confertiflorus Wats.

Frequent on the heaths and commons, rising to local abundance in S.W. Surrey.

R. crespignyanus Wats.

A rare endemic of the east heaths and commons with one Surrey locality: Wimbledon C, south side (WCRW '49; ESE, ? date).

R. crudelis Wats.

Endemic to heaths of N. Hants., W. Sussex and (mainly) Surrey, where it is locally abundant on those of the far west of the county, reappearing in quantity on Wimbledon C, Putney Heath and Barnes C.

[***R. errabundus*** Wats.

A mainly N. British endemic. Formerly on Tooting Bec C (CEB '03-'04: BM, SLBI; CA '33 and WCRW '37: SLBI) but extinguished in World War Two.]

R. gratus Focke

A widely scattered species of heaths in N.W. Europe. Though unknown from Hants. or Berks. It is on several of the S. London commons and widely dotted across the rest of the county.

R. imbricatus Hort

A western trans-Channel species of heathy areas unexpectedly widespread in Surrey in the Haslemere-Godalming-Dunstable triangle (as against a solitary clump in the whole of Hants).

* ***R. laciniatus*** Hayne & Willd.

Widely naturalized though largely replaced in gardens now by *R. armeniacus*. Characteristic of inter-war picnic sites.

R. lindleianus Lees

Locally common on acid soils.

R. macrophyllus Weile & Nees

Frequent: recorded from four London commons and seven other localities mostly in the far west of the county (including the Berks. Border).

R. mollissimus Rogers

Endemic to strongly acid heathland in southernmost England, with its headquarters in Hants. and W. Surrey (8 localities). Except for a clump on Bookham Common (SFC '93: BM) unrecorded east of Woking or in Kent.

R. oxyanthus Sudre

A trans-Channel species of heaths and wood borders, mostly around Bournemouth but with an unexpected secondary centre in W. Surrey. Of 9 localities 5 are around Woking (frequent on Horsell C), but it is well also on Wimbledon C and Putney Heath – though unknown anywhere north of the Thames or in Kent.

R. platycanthus Mueller & Lef.

Frequent in heathy areas and abundant in some of the S. London commons.

R. pyramidalis Kalt.

Occasional (28 localities) but apparently nowhere plentiful. Particularly fine in Brookwood Cemetery.

R. sciocharis (Sudre) Wats.

Thinly dotted across N.W. Europe and England on wood borders and hedgebanks. Sole record: Crystal Palace grounds (JEW '49: CGE).

R. silvaticus Weihe & Nees

A widespread species of N.W. Europe very local in England and Wales. A trickle of localities all along the Hants./ Berks. Border. Continues eastwards to beyond Woking: Chobham Ridges (CEB, ? date); Dawney's Hill, Pirbright (CA & WCRW '47: NMW, SLBI; BAM '64: CGE); canal towpath nr. Brookwood (CA '76-7: SLBI); roadside nr. Byfleet (AKWD '04: BM).

Series ***Rhamnifolii***

R. bakerianus Barton & Riddelsd.

Endemic almost exclusively to Surrey. Recorded from most of the commons and especially abundant on some of the London ones.

R. cardiophyllus Lef. & Mueller

Common.

R. cissburiensis Barton & Riddelsd.

Common.

R. incurvatus Bab.

Like *R. imbricatus*, a western species unexpected so far east as Surrey on the North Downs woods and heaths between Guildford and Dorking: Leith Hill (EMD '17: BM); Holmbury Hill (JEW '53: CGE; et al.); Netley Heath and downs to east (NDS '33: BM; et al.); woodland nr. Abinger TQ132 458 (BAM '63: CGE).

R. londinensis (Rogers) Wats.

A S.E. England endemic of heaths and wood margins with its HQ in Surrey. Recorded from virtually every common (38 localities), especially those towards and in London, on some of which it is locally abundant.

R. milfordensis Eedes

The counterpart of the above, with a similar but more limited and rather more westerly English range. In Surrey on most of the of the western and central commons, sometimes plentifully, but unrecorded east of Epsom. *R. rhombifolius* var. *megastachys* W-Dod, widely collected from the central commons from 1904 onwards is now regarded as synonymous.

R. nemoralis P.J. Mueller

Common.

R. pervalidus Eedes & Newton

A rare woodland species endemic to Surrey and S. Essex. Recorded from three S. London commons (Sheen C, Wimbledon C, Putney Heath) and two localities elsewhere in the county: Epsom C (CEB '10: SLBI det. W); wood between Weybridge and Walton-on-Thames (WCRW in K & L as '*R. atrocaulis*').

R. polyanthemus Lindeb.

Frequent and locally common in heathy areas.

R. prolongatus Boulay & Letendre

A trans-Channel western species almost at its eastern limit in its two recorded Surrey localities, both by the Kent border Limpsfield (EGG '02 K, conf. N); east part of Littleheath Wood, Selsdon (WCRW '38: CGE).

R. rhombifolius Weibe & Boenn.

A widespread species of N.W. Europe frequent on heaths and commons over much of the county.

R. rubritinctus Wats.

A trans-Channel western species almost at its at its eastern limit in Surrey. Recorded from five localities S. and S.W of Godalming and from Wimbledon Common.

R. subinermoides Druce

Common in woods and heath margins.

Series ***Sprengeliani***

R. brevistaminosus Eedes & Newton

A mainly Tunbridge Wells area endemic recently recognised among material in collected in S.W. Surrey as supposed hybrids: Haslemere Road, Witley (WMR 1894: BM conf. N); railway bank between Grayswood and Haslemere (ESM, WMR & WOF 1894: BM conf. N).

R. permundus Wats.

A narrow Surrey endemic abundant on Netley Heath on the downs above Gomshall, both under bracken and in the open, where it was collected almost 30 years (JR '09: BM, det. A) before being described in 1938. Watson recorded it also from Mare Hill, Witley.

R. sprengelii Weihe

Widespread and locally abundant on heaths in many parts but strikingly absent from the S. London commons, recorded no nearer than Banstead Downs.

Series ***Discolores***

- * ***R. armeniacus*** Focke cv. 'Himalayan Giant'
Aggressive escape already common and increasing rapidly. Almost indifferent to soil or habitat.

R. armipotens Barton ex Newton
Common, locally abundant.

R. hylophilus Ripart ex Genev.
Trans-Channel species of heaths and wood margins widespread in S.E. England. On most of Surrey commons, on some locally plentiful.

R. neomalacus Sudre
Restricted on the Continent to the region round the mouth of the Loire but in Britain, curiously virtually exclusively to Surrey, where it has been recorded from heaths and wood margins in 26 localities in the western two-thirds plus Walton Heath (EMD '14: BM det. A).

[***R. rossensis*** Newton
A specimen in BM from Normandy, nr. Aldershot (ESM 1896: BM) may be this western species locally common in S.E. Hants, but needs further study.]

R. ulmifolius Schott
Very common.

[***R. winteri*** Mueller ex Focke
A widespread Continental species of calcareous hedges and thickets locally common in south-central England, this awaits confirmation as a Surrey species. Likely looking specimens have been seen from: Wimbledon Common (ESE '53: NWM); Wimbledon House Grounds (ABJ & HWP '08: BM); roadside, Chipstead (CA '58: SLBI); Mousehill Heath, Milford (WMR 1894: BM) –but more convincing material is needed in all cases. It has sometimes been cultivated and some occurrences may be escapes.]

Series ***Vestiti***

R. adscitus Genev.
A trans-Channel western species of woods astonishingly abundant in Queen's Cottage grounds, Kew Gardens (HJR '29: BM; et al.). Two other localities are: copse by Horsley station (CA '40: SLBI; WCRW '59: CGE); Reigate (WCRW in LN for '28 and in K & L).

- * ***R. bartonii*** Newton
This strongly western British Isles endemic is distributed horticulturally under the cultivar name 'Ashton Cross'. A dispersal from a nearby garden presumably explains its occurrence on Barnes Common (AN '91).

R. boreaeanus Genev.

A trans-Channel species locally common in parts of S. and E. England. Sole record: The Chart Quarry, Limpsfield (WCRW '35: NMW).

R. conspersus Wats.

A S.E. England endemic of woods, hedges and heaths recorded from 10 localities in the far west of the county as well as Ardbrook C (CEB '03: K), Bookham C (ACL et al. in LN for '84, p.125) and Streatham C (CN '35, '46: SLBI).

R. criniger (E.F. Linton) Rogers

Endemic mainly to E. Anglia and N.W. England on hedgebanks and wood borders, this has an isolated population in the Farnborough area which has spilled across into Surrey on Chobham Ridges (CA '58: SLBI; ESE '69: NMW).

R. infestisepalus Edees & Newton

A S.E. England endemic of wood borders and hedgebanks locally frequent by the Kent border: Addington Hills (WHB 1885: SLBI det. M; ECW '27: BM, NMW, SLBI; CA '37: SLBI det. RR); S.W part of Springpark Wood (BAM '62: CGE); Limpsfield C, among gorse in West Heath sandpit (RWR '38: SLBI).

R. leucostachys Sm.

A near-endemic of woods and heaths in S.E. England recorded from 13 widely scattered Surrey localities, most of them in the east of the county and on London commons.

R. surrejanus Barton & Riddelsd.

A widespread endemic of S.E. England heaths and wood borders perhaps at its most abundant in Surrey - hence the appropriateness of its name.

R. vestitus Weihe

Locally abundant in woods on basic soils.

Series ***Mucronati***

R. egregius Focke

A N.W. European species of heaths and open woodland in scattered localities across to E. Anglia and south central England. Apart from a probably long-extinct occurrence on Tooting Common in London (JR '10: BM det. RR) known for certainty only from the far west of the county: Chobham Ridges (ESE '69: NMW); Milford (WCRW '30: NMW). No specimen has been found to support a record from Littleheath Wood, Selsdon (WCRW in K & L).

Series *Micantes*

R. decussates Barton ex Newton

A S.E. England endemic of wood margins and heaths, mainly in the Sussex Weald, from which it has spilled into Surrey at Felbridge TQ351 402 (RJP '82: BM det. N). Other Surrey localities are: Wimbledon C (WCB & HJR '21-2: BM, NMW, SLB det, N) and Putney Heath (RJP & JRIW '74: BM det. A); Banstead Heath (HJR '23: NMW det. RR); Court Wood (WGRW '32: NMW det. RR); lane above Farthing Downs (CA '43: SLBI).

R. diversus Wats.

A widespread southern English near-endemic of ancient woodland. Sole record: shady hedgebank nr. Bowl Head Green, Thursley (RWR '25: SLBI conf. N and chosen as the lectotype). Several other records are errors or probably so.

R. erythropis Edees & Newton

A S.E. England endemic of woods and heaths probably more widespread and locally plentiful in Surrey than anywhere else. Especially abundant round Witley.

R. glareosus Rogers

Widespread and locally abundant in woods on acid soils.

R. leightonii Lees ex Leighton

A trans-Channel species plentiful within a narrow belt up the centre of England. The only Surrey records are from five of the London commons, where WMR pronounced it "fairly abundant in a few places" in '03.

R. melanodermis Focke ex Rogers

Another trans-Channel western species of heaths and wood margins that surprisingly extends to Surrey. "In fair quantity over Putney Heath and Wimbledon C" (WCRW in LN for '32), it has been collected by many from the latter since 1885. Apart from a patch on Merrow Downs, Guildford TQ041 494 (SFC mtg. 2000 det. A) the other records are all from the far east of the county: stony ground bordering Frith Wood, Abbingdon (CEB '00: BM det. A); Tilburstow Hill C; Champions and the Chart quarry, nr. Limpsfield (all WCWR in K & L).

R. micans Godron

A widespread N.W. European species of shady habitats and mainly with a rather south-westerly British Isles range and mainly adventive in Hampshire. Only known for certain in Surrey from Wimbledon C (in deep semi-shade on both sides of the Beverly Brook S. of Kingston Vale TQ215 713), where it has been known since '33 and often collected (BM, CGE, SLBI). Four other records are doubtful or errors.

R. moylei Barton & Riddled.

Frequent and widely distributed, attaining local abundance in the west of the county.

R. raduloides (Rogers) Sudre

A widespread species of N.W. Europe of shady habitats on less acid soils. Sole certain record: Coley Hill, (ECW '27: K det. N). Other determinations and locality records seem questionable.

R. trichodes Wats.

A trans-Channel species of woodland in S.E. England. The type locality in Wareham Hill, nr. Brook (WCRW & NDS '34: BM, SLBI) but the only other records are from much further east: nr. Dorking (EMD '17: BM det. A); Petersham C (CA '33: SLBI det. RR). A '38 specimen from Banstead Heath in K, though collected by Watson himself, looks unconvincing. Common in ancient woodland on the N.W. fringe of London, this species long poorly understood, may have been overlooked.

R. wedgwoodiae Barton & Riddled.

Endemic almost exclusively to the heathy areas of S.W. Surrey and recorded from many localities there, especially round Witley, the type locality.

Series ***Anisacanthi***

R. adamsii Sudre

A near-endemic of woods and heaths in C. and S.E. England. Four records from the W. half of the county: roadside nr. Byfleet Station (AHWD '03: BM conf. N); Newlands Corner, Guildford (CA, JEW & WCRW '50: CGE conf. N; SFC mtg. 2000: det. A); one bush nr. Obelisk Pond, Windsor Great Park (SFC mtg. '98: BM det. A).

R. ahenifolius Wats.

Endemic almost exclusively to Surrey heaths. Recorded from 23 localities, with marked concentrations round Woking and between Guildford and Dorking, but extending to the N.E. corner and Wimbledon C / Putney Heath. Very variable.

R. anglofuscus Edees

A rare near-endemic of heaths and wood-borders mainly in the Midlands. Sole records: The High Chart, Limpsfield (WCRW '44-45: NMW det. E, SLBI, det. A); Limpsfield C (RWR '39: SLBI det. A).

R. anisacanthos G. Braun

A much collected bramble abundant on Merrow Down, Guildford.

R. companiensis Winhel ex Beek

A common Low Countries species recently detected in scattered S.E. England localities. Sole record: Tilburstow Hill C TQ353 505 (BAM '62: CGE det. A).

R. cinerosus Rogers

A mainly S.E. England endemic of wood borders and heaths. Recorded from five Surrey localities, all in or near London, but only two seem supported by specimens: Streatham C, where it was at least formally abundant at the east

end and has been many times collected since 1897; Honor Oak Park, nr. Dulwich (AL 1894: BM conf. A).

[*R. dentatifolius* (Briggs) Wats.

Watson determined as this western species a plant which appeared fleetingly c. 1930 on Tooting Bec C, but his specimens are unconvincing.]

***R. formidabilis* Lef. & Mueller**

A trans-Channel species almost exclusive in Britain to the Surrey heaths. Except for Wimbledon C/Putney Heath most of the numerous recorded localities fall within the Weybridge-Surbiton-Ashstead-Cobham quadrilateral, in which its local abundance suggests it was once continuous.

***R. infestus* Weihe ex Boenn.**

A northern species of heaths. Sole record: Wimbledon C (CEB '12: SLBI conf. M). Much confused in the past with *R. infestior*.

***R. leyanus* Rogers**

A western near-endemic of woods and heath margins virtually at its eastern limit in Surrey. London area only: Putney Heath at TQ233 738 (BAM '61, '63: CGE, SLBI) Queen's Cottage grounds, Kew Gardens, one recent-looking patch, with the equally western *R. adscitus* as an abundant companion (DEA 2000: BM, K).

Series *Radula*

***R. bloxamii* (Bab.) Lees**

A trans-Channel species abundant up the centre of England but scarce outside that corridor. Sole record: roadside nr. Shackleford church (ESM, WMR & WOF '94: BM, etc.).

***R. cantianus* (Wats.) Edees & Newton**

A rarish endemic of heaths and wood margins in S.E. England, preferring clay. Sole record: Croham Hurst, Croydon, one patch at TQ343 629 (DEA '97: BM).

***R. echinatoides* (Rogers) Dallman**

A mainly northern endemic of heath and wood borders. The 17 localities are mostly in the S.W and the London commons and fringes.

***R. echinatus* Lindley**

Common.

***R. euryanthemus* Wats.**

Locally abundant in woodland on acid soil. The 15 localities are mostly London area ones; rare elsewhere.

***R. flexuosus* Mueller & Lef.**

Apparently local: 19 widely scattered localities. Absent from many commons, yet plentiful in Windsor Great Park.

R. insectifolius Lef. & Mueller

Heaths and wood borders. 15 localities, mostly commons in the Cobham-Epsom area; rare in the west and almost absent from the east except for Wimbledon C / Putney Heath.

R. iodnephes Wats.

Endemic to the S.W. London suburbs: Sheen C (JR '11: BM det. A; et al.); Barnes C (CA '36, '48: SLBI; et al.); Palewell C at TQ207 745 (WCRN, undated; RJP '77: BM conf. A); Queen's Cottage grounds, Kew Gardens, three bushes (DEA 2000: BM, K).

R. largificus Wats.

A rather local species of heaths and wood borders mainly in S.E. England. 14 localities from Walton and Banstead Heaths E. and N.E. to the Kent border.

R. longithyriger Lees ex Focke

A western species of damp woods with an outlying population on Shooter's Hill in N.W. Kent. The sole record, Tilburstow Hill C (WCRW in K & L), is seemingly unsupported by a specimen, but is geographically likely.

R. putneiensis Wats.

Endemic to Putney Heath and (CA '39: NMW conf. E) Wimbledon C. The many specimens from the former date from 1943, when Watson knew it "in an angle of the heath S. of a large block of flats"; from 1961 others have found it in a marshy spot S. of the Telegraph Arms inn TQ233 735.

R. radula Weihe ex Boenn.

Frequent. The deceptive genetic dwarf, *var. microphyllus* Lindeb., has been collected from 8 scattered localities.

R. rudis Weihe

Locally common in open woods. The 15 localities represented by specimens are all in the east half of the county except for Fairmile C (ESE '57: NMW). Abundant in Queen's Cottage ground, Kew Gardens and even in London's Holland Park.

R. rufescens Lef. & Mueller

Frequent and locally abundant in woodland on acid soils.

R. sectiramus Wats.

Endemic to woods and heaths in far S. England from Dorset eastwards. The 12 Surrey localities are all in, or on the fringes of S. London.

Series ***Hystrices***

R. asperidens Sudre ex Bouvert (*R. millsii* Newton)

Frequent. Most records from the far west of the county, with a secondary concentration in the London suburbs.

R. atrebatum Newton

Endemic very largely to the heaths of W. Surrey and the counties just to the west. Especially profuse round Witley. Rare E. of Dorking: Addington (HJR '29: NMW det. N); Mitcham C (CA '33: SLBI).

R. babingtonii Salter

Endemic of woods mainly on the Welsh borders but with outliers in Hants. and Middlesex. Sole record: Chessington (? : CGE det. M).

R. bercheriensis (Druce ex Rogers) Rogers

Widely distributed; locally abundant round Witley.

R. dasyphyllus (Rogers) Marshall

Common.

R. infestior Edees

Endemic mainly to the W. Surrey heaths (30 localities), on some of which it is frequent, in places locally abundant.

R. marshallii Focke & Rogers

Endemic to wood and heath borders in S.E. England, with its headquarters in S.W. Surrey. Abundant round Haslemere and frequent round Witley, thinning out E. of Guildford and rare E. of Dorking: Reigate Park Hill (EMD '17: BM det. A); hedge, Limpsfield Chart (RWR '35: SLBI). Unrecorded from the northern third of the county.

R. murrayi Sudre

Near-endemic of woods and heaths thinly scattered in S. & C. England. Very local: S. London commons (formerly abundant on those of Streatham and Tooting); Banstead Heath (WCB & HJR '23: BM & K); Walton Heath (WCB '31: BM; BAM '62 CGE); Weybridge C, nr. Station (WCRW & NDS '36: BM); Hurt Wood (WCRW in LN for '34) and Winterfold Heath (ESE '57: NMW); Hambledon area (ESM & RPM 1891: BM, CGE, LIV, SLBI); Chobham Ridges (CEB '10: SLBI).

R. newbridgensis Barton & Riddelsd. ('*R. pygmalopsis*' sensu Wats.)

Endemic to shady places in S.E. England, with headquarters in the High Weald. Several records by the Kent border at Limpsfield (CGE) and in the Addington-Selsdon (BM, SLBI). Specimens from Stobee Wood, nr. Oxshott (ECW '27: BM, SLBI) and Nutfield Marsh, Redhill (HJR '22: BM) await confirmation, as does Watson's outlying record of the '*pygmalopsis*' from Haslemere (LN for '34, p.62).

R. phaeocarpus Wats.

A near-endemic locally abundant on heath and wood borders in S.E. England. The abundance of N. Hants. continues into W. Surrey, but recorded elsewhere only from the Weybridge-Esher-Oxshott triangle, several S. London commons and Holmwood, Dorking (EMD '14: BM).

[***R. proiectus*** Beek (*R. anglohirtus* Edees)

A near-endemic of woods in the eastern counties in profusion on Horsenden Hill, Wembly (5 miles from Surrey). A specimen from Telegraph Hill, Claygate (CA '38: SLBI) looks correctly named but awaits confirmation.]

R. tardus Wats.

Endemic to Surrey and Kent. On six of the S. London commons and in the Selsdon/Addington woods. Not certainly known elsewhere in the county.

Series ***Glandulosi***

R. hylonomus Lef. & Mueller

A trans-Channel species of woods and heaths mainly in S.E. England. Sole record: Hindhead, eastern slope (WMR '00: BM, CGE, NMW).

R. praetextus Sudre

A rare species of hedges and heaths mainly confined to Kent in Britain. Two records: Winterfold Heath, bracken edge at TQ059 428 (ESE '57: NMW det. RR; BAM '64; CGE; JRIW '73: BM); abundant in a hedge about a mile S. of Haslemere (JGB '69: CGE det.M). The second may have been in Sussex.

R. scaber Weihe

Locally abundant in woods in C. & S.E. England and W. Ireland. Much rarer in Surrey than in Hants.: Park Copse, Wareham Hill, nr. Witley (ESM, WMR & WOF 1894: BM; NDS '34: BM; BAM '63: CGE); open coppice on Sansom's Farm nr. Ewhurst (JWW 1889-91: NMW, SLBI – stem pieces only, det. A, RR); and four localities on the S. London fringe: Croham Hurst, one patch at TQ335 635 (DEA '97: BM); Steatham C (CA '34 etc.: SLBI; et al.); top of Sydenham Hill (WCRN in K & L); Honor Oak Hill (AL 1894: NMW).

Section ***Corylifolii***

R. adenoleucus Chaboiss

Widespread on heaths and chalk downs in S. England and S. Wales. In plenty, Newlands Corner/Merrow Downs, Guildford (WCRW '33: BM; SFC mtg. 2000; et al.); West End C, Esher (AHWD '03: BM det.A; WCRW in K & L); Fairmile C, in lane east of main road (CCT 1950s: K); The Chart quarry and Watts Hill, Limpsfield (WCRW in K & L); Netley Heath (WCRW in BEC rep. for '33).

R. britannicus Wats.

The plant strictly so called is plentiful at Munstead (WMR '90: BM, CGE; et al.) but unknown elsewhere. The other bramble widespread in S. England to which that name has been applied is about to be described by Randell as *R. anglorum*; this seems to occur in Surrey mostly in the London area and is especially on Bookham C and Queen's Cottage grounds, Kew Gardens.

R. conjungens (Bab.) Rogers

Frequent.

***R. halsteadensis* Wats.**

This name strictly belongs (paradoxically) to a plant of S. Wales and some of the counties to the east. Watson wrongly considered it synonymous with a bramble of the London area originally collected by Rogers at Halstead in Kent. This latter is known from four London commons; Frith Wood, Fairleigh (CEB '00: SLBI); The Chart quarry, Limpsfield (WHM '58: CGE) and Oxshott (HJR '29: BM det. A).

***R. lindii* Bull**

A recently-described endemic proving to be widespread in the British Isles. Sole record as yet: Witley (EFL 1890: BM det. Bull).

***R. nemorosus* Hayne & Willd.**

Frequent in damp shady places.

***R. pruniosus* Arrh.**

Frequent on downs and heaths.

***R. transmariensis* Allen**

Another recently-described species proving to be widespread in England (and Normandy). Specimens so far seen from eight Surrey localities.

***R. tuberculatus* Bab.**

Apparently widely scattered, on roadsides and waste ground. Specimens seen from nine localities.

***R. warrenii* Sudre**

Endemic to woods and hedges mainly in N. England but increasingly being detected in the South. Sole record: Weybridge C (WCRW '36: CGE – but CA '35, '37 SLBI det. W is not this).

Section ***Caesii***

***R. caesius* L.**

Common in scrub, hedges and open woods, mostly on chalk and clay.

***R. caesius x idaeus* (*R. x pseudoidaeus* (Weihe) Lej.)**

One plant in division M, Bookham C (KWP det. ACL in LN for '84, p.125).

APPENDIX

As matters stand at present, 129 of the species currently on the British List are thus accepted as reliably recorded for Surrey. Of these, 12 are naturalised escapes. The Surrey total compares not unfavourably with the 150 recorded for the considerably larger county of Hampshire next door, which has the added advantage of lying sufficiently further west to receive more species from that quarter. Dorset, a better comparison in terms of size, and Wiltshire, a larger county but poor in ground suitable for brambles, have totals of 101 and 102 respectively.

The Surrey total, however, is abnormally inflated slightly as a result of Watson having bestowed names on four brambles that are apparently peculiar to the county (*R. crespigaynus*, *R. permundus*, *R. iodnephes*, *R. putneiensis*) and thus too restricted in range to qualify for description according to present-day criteria. For there are such an unmanageably large number of distinct entities in Europe that potentially could receive names that the convention has been adopted by *Rubus* specialists of describing only ones with a 'regional' distribution as opposed to a merely 'local' one. British botanists tend to follow Edees interpretation of 'regional' as occurrence in a minimum of four 10km squares or at least two vice-counties.

This code of restraint still leaves it desirable to append to county lists some mention of the more widespread species that either fail to qualify for a name (at any rate on present knowledge) or, if they do qualify – as in the case of at least the first two below – have yet to receive one:-

'*R. lapeyrousianus*' sensu Wats. – a very distinct woodland bramble abundant in one district in N. Hampshire and known from several places in N.W. Surrey and (CEB '03: SLBI det. A) Tooting Common in S. London. In five vcc altogether.

'*R. orbifolius*' sensu Wats. – a widespread Sussex Weald bramble known from five Surrey localities: Ashted Forest, several bushes (WCRW '38: NWM); Effingham C (CA '40: CGE); top of Holmbury Hill at TQ104 430 (JEW '53: CGE det. M; BAM '62: CGE)

'Hants and Surrey *nonensis*' – Redroad, Chobham Ridges (ESE '69: NMW det. A; SFC mtg. '97:BM). Locally plentiful in the N.E. New Forest with an outlier close to Surrey at Fleet Pond.

'False *crespignyanus*' (*R. sanguineosepalus* Miles MS) – locally abundant in a once-continuous belt of woodland fringing London in the N.E. of the county. Discovered by E.C. de Crespigny in 1872 at Croham Hurst and intended by Watson to be named after him (but he inadvertently collected as the holotype a specimen of the different bramble that accordingly has to be known as *R. crespignyanus* instead).

'*R. perplexus*' sensu Wats. – locally plentiful at Ranmore C, Dorking, much collected since its discovery by Avery in 1947.

'*R. fuscoater*' sensu Wats., pp – a showy plant with reddish floral organs and collected from the golf course edge near Colley Hill at TQ236 526 (CA '33: CGE; et al.) and recorded also from nearby Banstead Heath as well as by the Basingstoke Canal nr. Brookwood.

'*R. billotii*' sensu Wats. – in woods around Selsdon and Farleigh (abundant in Frith Wood). Apparently also by Guildford at Newlands Corner (WCRW '38: CGE, K) and on the crest of the downs above Albury (CA & WCRW '50: CGE)

'*R. pseudobellardii*' sensu Wats. – in some quantity in Coombe Wood, Kingston (WCRW '34: BM etc.), reappearing on adjoining Wimbledon C between the Beverley Brook and the Kingston bypass (CA '39, '53:SLBI). Watson identified this with a bramble he knew at Buckhurst Park in E. Sussex, whence he suggested it had be brought.

'False *consobrinus*' – an "infrequent" plant of the Tunbridge Wells area and elsewhere in Kent which spills into Surrey in The Chart, Limpsfield, nr. The church (WCRW in K & L).

'*R. vulgaris*' sensu Wats., pp. – a bramble on Littleworth C at TQ148 652 (BAM '61: CGE) is the same as one collected from several localities on N. Kent. The name was mostly misapplied by Watson to forms of *R. milfordensis*.

(Descriptions of most of these plants can be found in Watson's 1958 monograph)

David E. Allen July 2001