

OR/19/054 Appendix 2 - Plant data

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Gareth Farr¹, Jonathan Graham², Andy Marriott¹ & Elliott Hamilton¹. 2019. Survey of selected tufa forming sites in Staffordshire, UK. *British Geological Survey Internal Report*, OR/19/054.

1 *British Geological Survey*

2 *Fenland Botanical Surveys*

17/06/2019 - 18/06/2019

Stanton Pastures (Stanton Pastures & Cuckoocliff SSSI), NW of Stanton

SK1198246962 tuferous spring head in open field

Briza media

Bryum pseudotriquetrum

Calliergonella cuspidata

Caltha palustris

Cardamine pratense

Carex echinata

Carex panicea

Chara vulgaris

small plants on top of domed tufa spring head

Cirsium palustre

Ctenidium molluscum

Dactylorhiza fuschsii

Eleocharis uniglumis

Epilobium parviflorum

Eriophorum angustifolium

Festuca rubra ssp. rubra

Holcus lanatus

Juncus articulatus

Juncus inflexus

Linum catharticum

Lotus pedunculatus

Mentha aquatica

Myosotis laxa ssp. caespitosa

Palustriella falcata

Pedicularis sylvestris

Philonotis calcarea

lvs to 2.5 mm long, moderately to strongly falcate
flowering

Pinguicula vulgaris

Plagiomnium elatum

lvs strongly decurrent, cells 20-30 um wide

Polygala vulgaris

Potentilla erecta

Ranunculus acris

Scorpidium cossonii cells 60–80 um long, cell ends shortly tapered
Silene flos-cuculi
Succisa pratensis
Triglochin palustre

Limestone Hill area, E of Stanton

SK1381646140 wooded valley with waterfall and adjoining seepages with tufa (Ordley Brook)

Acer pseudoplatanus
Argemone nemorosa
Ajuga reptans flowering
Allium ursinum
Alnus glutinosa
Amblystegium serpens
Anthriscus sylvestris
Asplenium scolopendrium surprisingly local
Atrichum undulatum
Brachythecium rivulare seepages and stones at margins of Ordley Brook
Brachythecium rutabulum
Cardamine flexuosa margins of Ordley Brook
Carex sylvatica
Chrysosplenium oppositifolium
Circaea lutetiana local
Conocephalum conicum
Conopodium majus
Corylus avellana
Cratoneuron filicinum seepages and stones at margins of Ordley Brook
Deschampsia cespitosa
Dichodontium cf pellucidum localised non fertile stands on stones in Ordley Brook
Dryopteris dilatata
Dryopteris filix-mas
Eucladium verticillatum forming dominant stands on shaded rock faces below waterfall with tufa
Filipendula ulmaria
Fissidens bryoides steep soil banks
Fissidens cf crassipes localised non fertile plants on stones in Ordley Brook with *Platyhypnidium ripariodes* (If cells average 12 um)
Fissidens taxifolius steep soil banks
Fraxinus excelsior
Galium aparine
Geum urbanum
Hedera helix ssp. helix
Hyacinthoides non-scripta steep soil banks and base of older alders

<i>Hypnum cupressiforme</i>	epiphyte
<i>Ilex aquifolium</i>	
<i>Kindbergia praelonga</i>	
<i>Lamiastrum galeobdolon</i>	flowering
<i>Mercurialis perennis</i>	
<i>Metzgeria furcata</i>	epiphyte on hazel
<i>Mnium hornum</i>	local on steep soil banks above waterfall
<i>Nasturtium officinale sensu lato</i>	margins of Ordley Brook
<i>Oxalis acetosella</i>	
<i>Palustriella commutata</i>	
<i>Pellia endiviifolia</i>	
<i>Plagiochila porelloides</i>	local on steep soil banks above waterfall
<i>Plagiomnium undulatum</i>	
<i>Plagiothecium nemorale</i>	steep soil banks and base of older alder [checked microscopically]
<i>Platyhypnidium ripariodes</i>	stones in Ordley Brook
<i>Pohlia melanodon</i>	local on steep soil banks with seepages
<i>Rhizomnium punctatum</i>	stones Ordley Brook
<i>Rubus fruticosus agg.</i>	
<i>Rumex sanguineus</i>	
<i>Sanicula europaea</i>	
<i>Stellaria holostea</i>	
<i>Taraxacum sp.</i>	
<i>Thamnobryum alopecurum</i>	
<i>Thuidium tamariscinum</i>	
<i>Veronica chamaedrys</i>	flowering
<i>Veronica montana</i>	flowering
<i>Viburnum opulus</i>	
<i>Viola riviniana</i>	plants with capsules

Kirksteads Brook, NE of Butterton

SK0908056817 lightly wooded brook with series of tufa barrages

<i>Allium ursinum</i>	
<i>Angelica sylvestris</i>	
<i>Anthriscus sylvestris</i>	
<i>Brachythecium rivulare</i>	
<i>Brachythecium rutabulum</i>	tree base
<i>Cardamine flexuosa</i>	
<i>Chrysosplenium oppositifolium</i>	
<i>Corylus avellana</i>	
<i>Crataegus monogyna</i>	
<i>Cratoneuron filicinum</i>	

Deschampsia cespitosa
Dryopteris filix-mas
Epilobium hirsutum
Filipendula ulmaria
Fraxinus excelsior
Galium odoratum
Galium aparine
Geranium robertianum
Geum rivulare flowering
Geum urbanum
Hypnum cupressiforme
Lunularia cruciata
Mercurialis perennis
Mnium hornum tree base
Myosotis scorpioides
Pellia endiviifolia frequently on tufa barrages
Platyhypnidium ripariodes frequently on tufa barrages
Poa trivialis
Ranunculus acris
Rumex sanguineus
Stellaria holostea
Thamnobryum alopecurum
Thuidium tamariscinum
Ulmus glabra
Urtica dioica
Valeriana officinalis
Vaucheria sp. on tufa barrages
Veronica chamaedrys
Vicia sepium

Trickle Ridge (RSPB Booth's Wood & SCC Dale Sprink SSSI), NW of Froghall

SK0069248260 tufa seepage in woodland with large tufa block "Trickle Ridge"

Acer pseudoplatanus
Allium ursinum
Alnus glutinosa
Amblystegium serpens
Asplenium scolopendrium
Brachythecium rivulare
Brachythecium rutabulum
Cardamine flexuosa
Carex pendula local
Chrysosplenium
oppositifolium

<i>Conocephalum conicum</i>	
<i>Conocephalum salebrosum</i>	local part of site only by footpath
<i>Crataegus monogyna</i>	
<i>Cratoneuron filicinum</i>	mainly on logs at top of seepage
<i>Deschampsia cespitosa</i>	
<i>Dryopteris dilatata</i>	
<i>Eucladium verticillatum</i>	(localised patches on tufa block)
<i>Eurhynchium stratum</i>	
<i>Fissidens cf bryoides</i>	steep soil bank
<i>Fissidens taxifolius</i>	steep soil bank
<i>Fraxinus excelsior</i>	
<i>Geranium robertianum</i>	
<i>Hedera helix ssp. helix</i>	
<i>Ilex aquifolium</i>	
<i>Kindbergia praelonga</i>	
<i>Melica uniflora</i>	local at lower part of site
<i>Mnium hornum</i>	steep soil bank and tree roots
<i>Oxalis acetosella</i>	
<i>Oxyrrhynchium hians</i>	
<i>Palustriella commutata</i>	dominating large part of site
<i>Pellia endiviifolia</i>	
<i>Plagiomnium undulatum</i>	
<i>Plagiothecium nemorale</i>	tree roots
<i>Rhizomnium punctatum</i>	
<i>Ulmus glabra</i>	
<i>Urtica dioica</i>	

Emerald Cave (RSPB Booth's Wood & SCC Dale Sprink SSSI), NW of Froghall

SK0050748425 tufa seepage in woodland with localised tufa domes

<i>Acer pseudoplatanus</i>	
<i>Allium ursinum</i>	
<i>Alnus glutinosa</i>	
<i>Angelica sylvestris</i>	
<i>Asplenium scolopendrium</i>	
<i>Brachythecium rivulare</i>	
<i>Cardamine flexuosa</i>	
<i>Carex pendula</i>	locally dominant
<i>Chrysosplenium oppositifolium</i>	
<i>Conocephalum conicum</i>	outflow adjoining footpath
<i>Cratoneuron filicinum</i>	
<i>Deschampsia cespitosa</i>	
<i>Dryopteris dilatata</i>	

<i>Dryopteris filix-mas</i>	
<i>Epilobium hirsutum</i>	lower part of site close to footpath
<i>Epilobium parviflorum</i>	lower part of site close to footpath
<i>Epilobium sp.</i>	lower part of site close to footpath
<i>Filipendula ulmaria</i>	lower part of site close to footpath
<i>Fraxinus excelsior</i>	
<i>Frullania dilatata</i>	epiphyte
<i>Galium aparine</i>	
<i>Geranium robertianum</i>	
<i>Heracleum sphondylium</i>	
<i>Hypnum cupressiforme</i>	epiphyte
<i>Impatiens glandulifera</i>	
<i>Kindbergia praelonga</i>	tree bases
<i>Lamiastrum galeobdolon</i>	
<i>Lophocolea bidentata</i>	
<i>Lophocolea heterophylla</i>	alder trunk
<i>Mercurialis perennis</i>	
<i>Metzgeria fruticulosa</i>	epiphyte
<i>Mnium hornum</i>	tree bases
<i>Orthotrichum affine</i>	epiphyte
<i>Oxyrrhynchium hians</i>	
<i>Palustriella commutata</i>	
<i>Pellia endiviifolia</i>	
<i>Plagiomnium undulatum</i>	
<i>Platyhypnidium ripariodes</i>	outflow adjoining footpath
<i>Poa trivialis</i>	
<i>Ranunculus repens</i>	
<i>Rumex sanguineus</i>	
<i>Salix cinerea</i>	lower part of site close to footpath
<i>Solanum dulcamara</i>	lower part of site close to footpath
<i>Thamnobryum alopecurum</i>	
<i>Ulota bruchii</i>	epiphyte
<i>Urtica dioica</i>	
<i>Zygodon viridissimus</i>	epiphyte

Dale Sprink (RSPB Booth's Wood & SCC (now RSPB) Dale Sprink SSSI), NW of Froghall

SK0008848546 wooded seepage with small amounts of tufa

Alnus glutinosa
Brachythecium rivulare
Caltha palustris
Chrysosplenium oppositifolium
Claytonia siberica

Cratoneuron filicinum associated with active tufa formation
Heracleum sphondylium
Impatiens glandulifera
Salix cinerea

“The Petrifications”, Cotwalton Drumble, W of Cotwalton

SSJ9209634761 steep sided wooded valley with shallow waterfalls & tufa

Acer pseudoplatanus
Alliaria petiolata
Allium ursinum
Alnus glutinosa
Amblystegium serpens
Anemone nemorosa
Angelica sylvestris
Apium nodiflorum local beside stream
Asplenium scolopendrium
Athyrium filix-femina
Atrichum undulatum
Brachythecium rivulare seepages and on rock at margins of stream) [checked microscopically]
Brachythecium rutabulum (mainly on tree trunks)
Cardamine flexuosa
Carex remota
Carex sylvatica
Chrysosplenium oppositifolium
Circaea lutetiana
Conocephalum conicum locally dominant stands on shaded vertical rock faces with tufa beside stream
Conocephalum salebrosum
Corylus avellana
Cratoneuron filicinum
Deschampsia cespitosa
Dicranella heteromalla vertical soil bank in one place with *Pseudotaxiphyllum elegans*
Dryopteris borrieri
Dryopteris dilatata
Dryopteris filix-mas
Eucladium verticillatum dominant stands on shaded vertical rock faces with tufa beside stream
Eurhynchium striatum
Fagus sylvaticus local
Filipendula ulmaria
Fissidens taxifolius shaded soil bank beside stream

<i>Fraxinus excelsior</i>	
<i>Galium aparine</i>	
<i>Galium odoratum</i>	local beside stream
<i>Geranium robertianum</i>	
<i>Geum urbanum</i>	
<i>Hedera helix ssp. helix</i>	
<i>Hyacinthoides non-scripta</i>	
<i>Hypnum cupressiforme</i>	epiphyte
<i>Ilex aquifolium</i>	
<i>Isothecium myosuroides</i>	epiphyte on old hazel
<i>Kindbergia praelonga</i>	shaded soil bank beside stream
<i>Lamiastrum galeobdolon</i>	
<i>Lonicera periclymenum</i>	
<i>Lophocolea bidentata</i>	shaded soil bank beside stream
<i>Lophocolea heterophylla</i>	shaded log beside stream
<i>Lunularia cruciata</i>	rocks at margins of stream
<i>Luzula sylvatica</i>	3 plants in one place
<i>Melica uniflora</i>	local beside stream
<i>Mercurialis perennis</i>	
<i>Metzgeria fruticulosa</i>	epiphyte
<i>Metzgeria furcata</i>	epiphyte
<i>Mnium hornum</i>	shaded soil bank beside stream
<i>Moehringia trinervia</i>	local beside stream
<i>Nasturtium officinale sensu lato</i>	local beside stream
<i>Orthotrichum affine</i>	epiphyte on old hazel
<i>Oxalis acetosella</i>	local beside stream
<i>Oxyrrhynchium hians</i>	shaded soil bank beside stream
<i>Palustriella commutata</i>	
<i>Pellia endiviifolia</i>	
<i>Petasites hybridus</i>	
<i>Plagiochila asplenioides</i>	soil bank at base of old alder
<i>Plagiochila porelloides</i>	shaded soil bank beside stream
<i>Plagiomnium rostratum</i>	non fertile stands beside small waterfall) [checked microscopically — cells not porose]
<i>Platyhypnidium ripariodes</i>	rock bed of stream
<i>Poa trivialis</i>	
<i>Polypodium vulgare</i>	local on fallen trees beside stream) [checked microscopically] (annulus cells 16-21)
<i>Polystichum aculeatum</i>	
<i>Polystichum setiferum</i>	
<i>Primula vulgaris</i>	local
<i>Pseudotaxiphyllum elegans</i>	vertical soil bank in one place with <i>Dicranella heteromalla</i>
<i>Quercus robur</i>	
<i>Ranunculus acris</i>	local beside stream

Ranunculus repens
Rhizomnium punctatum
Rhynchosygium confertum on wooden footbridge, fruiting
Rosa canina agg.
Rubus fruticosus agg.
Rumex sanguineus
Silene dioica
Stellaria holostea local beside stream
Ulmus glabra
Ulota bruchii epiphyte
Urtica dioica
Valeriana officinalis local beside stream
Vaucheria sp. non fertile stands on dripping rock outcrops with tufa
Veronica beccabunga local beside stream
Veronica montana flowering
Viburnum opulus

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