AGROMYZIDAE NEWSLETTER

LATEST NEWS FROM THE NATIONAL AGROMYZIDAE RECORDING SCHEME

A SUMMARY OF 2018

A BRIEF UPDATE

THE SECOND YEAR

It is now two years since the National Agromyzidae Recording Scheme (NRS) was launched and it is hoped that everyone who has and still does contribute to the scheme is benefitting from its existence!

At present, there are 31,932 records in the NRS Database, covering 326 species, which represents 80% of the species known in the UK.

Historical records are still be sourced and it is hoped that during the upcoming year, data from Kenneth Spencer's collection at NHM London will be extracted and added to the NRS database, which will almost certainly account for the missing 20% of species.

During 2018, the NRS ran a mini citizen science project which attempted to ascertain the true distribution status of the Hogweed miners *Phytomyza pastinacae* and *Phytomyza spondylii*. Several people participated, although success in rearing adult males, unfortunately, was rather poor. Their larval mines were also rather thin on the ground during the year, possibly due to the heat wave during the summer.

Despite the limited amount of specimens, the project was made worthwhile by one adult alone, with *Phytomyza pastinacae* been reared from mines collected in Northern Ireland, which represented the first confirmed occurrence of the species there.

It is hoped that the project will continue in 2019 and that conditions allow a much better year for the species.

Unfortunately, the NRS newsletter was limited to just four editions (excluding this current edition). However, hopefully more will be produced next year, especially during the more productive leaf-mining months.

Feedback and the comments received have been very positive but please do get in touch if you have any suggestions in terms of improvements or aspects of the NRS you would like to be addressed!

SUMMARY OF IRECORD DATA

MONTHLY BREAKDWON OF IRECORD RECORDS

During the past twelve months, the following 'accepted' records were submitted via iRecord;

Month	2017-18	2016-17
December '17	82	171
January '18	132	130
February	128	139
March	142	105
April	111	102
Мау	178	134
June	366	106
July	277	172
August	360	168
September	269	241
October	284	347
November	203	169
TOTAL	<u>2,532</u>	<u>1,984</u>

The amount of records received during the summer was mightily impressive, in spite of the prolonged period of hot weather!

Compared to the NRS's first year, 'accepted' records have increased by 25%, which is a superb achievement - every record really does help increase our knowledge and understanding of the Agromyzidae.

Many records, unfortunately, had to be rejected for not been supported by a photo. This stipulation is still met with some resistance at times, however, by having this requirement in place, it has ensured that the NRS Database is as accurate as possible.

Later in the newsletter, the number and actual species recorded will be discussed.

A very big thank you to everyone who has contributed to the totals above, hopefully 2019 will yield even more records, could 3,000 be achieved!?

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During the year, 163 recorders submitted records via iRecord, compared to 149 recorders during the NRS's first year. The list below lists all contributors and the number of records contributed:

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	Helen Bell	10	John Adams	3

Ian Andrews

Mike Lush

John O Boyle	3	James Harding-Morris	1
Jon Mortin	3	Jim Cresswell	1
Keith Kerr	3	John Pitts	1
Laura Moss	3	John Robbins	1
Mary Harris	3	Kate Nightingale	1
Natalie Harmsworth	3	Lesley Cannon	1
Nigel Gilligan	3	Louis Driver	1
Patrick Bonham	3	Maggie Frankum	1
Pauline Campbell	3	Mark Pollitt	1
Robert Jaques	3	Martin Tordoff	1
Sabina George	3	Michael Southall	1
Stephen Plummer	3	Michael Woods	1
Alex Whitlock	2	Mike Higgott	1
Alice Parfitt	2	Neil Gregory	1
Ann Smith	2	Nick Wood	1
Barrie Hamill	2	Paul Bowyer	1
Brad Scott	2	Paul Parsons	1
Elaine Wright	2	Paul Seligman	1
Ellen Wilson	2	Pembrokeshire Recording	1
John Showers	2	Group Deter Deserver	4
Julian Small	2	Peter Pearson	1
Liam Crowley	2	Peter Sturgess	1
Ted Gaten	2	R Zloch	1
A M George	1	Ray Pearce	1
Adam Rowe	1	Rebecca Davies	1
Alan Skeates	1	Reuben Nebbett-Blades	1
Alan Smith	1	Richard Wilson	1
Amanda Barbara	1	Rob Dixon	1
Amy Hicks	1	Robert Pennington	1
Antony Wren	1	Sam Buckland	1
Bob Foreman	1	Shirley Millar	1
Ceri Watkins	1	Stephen Hewitt	1
Chris Jones	1	Stephen Weeks	1
Chris Shortall	1	Steve Garland	1
Cliff Henry	1	Steve Hughes	1
L David Basham	1	Steve Mathers	1
David Turner	1	Toby Edwards	1
Fred Bennett	1	A massive thank you to every single	person and group
Graham Bell	1	who has and continues to contribute	
Graham Wenman	1	iRecord. <i>Every</i> record really does he greater understanding in terms of the	
Harry Witts	1	distribution trends, along with the lar	
Helen Ikin; Steve Woodward	1	Agromyzidae.	
Imogen Cavadino	1	The supporting images you include a	

The supporting images you include also help other recorders with making determinations, something which has been mentioned by many of the people just starting out in recording Agromyzidae. Almost every recorder who submits records are keen amateur naturalists, with a passion for enhancing their knowledge, whilst at the same time, providing extremely valuable data.

During its first two years, the NRS has received over 4,500 records from iRecord users, which is more than the number of records held within iRecord between its launch in 2012 and 2016. It just shows that by increasing awareness and having a point of contact for recorders who may require assistance, it can really help generate interest in an otherwise rather quite niche family of flies.

Graham Moates, who had never looked at a leaf-mine until 2017, writes;

"I was first introduced to leaf-miners on a churchyard survey in August 2017 by local naturalist and friend, James Emerson. Since this time – inspired by the newly launched Agromyzidae NRS - searching for leaf-mines of both micro-moths and Agromyzidae has become a regular pastime.

My preference has always been for lesser surveyed species groups in areas which are under-recorded. Fortunately, there are many such areas in Norfolk away from the North Norfolk coast and Broads and searching for leaf-mines can literally be undertaken anywhere starting with one's own garden.

Most of my records tend to come from within Norfolk and north Suffolk although I have also managed to get a few records on various trips from Scotland, Northern Ireland and Wales.

The online resources for leaf-mines as well as guidance and prompt verification from the Scheme Organiser are excellent. As a relative newcomer to Agromyzidae, the requirement to submit photos adds to confidence in the record both for myself as a recorder and other data users. Since the start of the NRS, I have managed to submit over 400 accepted Agromyzid records across 47 species.

Looking forward, I hope to find some species, such as *Phytomyza conyzae* and *Chromatomyia scolopendri*, which have so far eluded me and enter the world of rearing and dissection".



Agromyza nigrescens; a late larval record © Graham Moates

Another newcomer to the world of Agromyzidae is Aideen O'Doherty, from Northern Ireland, who writes;

"Up until a few weeks ago I worked in the Stormont Estate in Belfast, Northern Ireland. I have had a casual interest in native plants for some time, and having found Broad-leaved Helleborine (Epipactis Helleborine) beside where I park my car on the estate and having then come across CeDAR's online recording portal which feeds into iRecord in an attempt to log it, I started recording plants I saw on the estate to improve my botany. Fungi are quite numerous on the estate, which is fine in the colder months, but what's a girl to record in the summer once she has done most of the plants, or if the bigger fungi are heavily delayed by hot weather as they were this year?

CeDAR is the Northern Ireland Local Environmental Records Centre. They posted a suggestion to record *Phytomyza Ilicis* on Twitter at the end of 2016. I found one soon enough. Barry then confirmed my record and I became aware of his newsletters.

I noticed pretty early on that there was precious little in terms of Agro records on CeDAR/iRecord, the NBN or Biodiversity Ireland for Ireland as a whole, so I thought it might be useful to try to record these more. I've been able to provide a good geographical spread this year because I've been on quite a few Northern Ireland Fungus Group Forays, visiting quite a spread of locations across NI.

The newsletters and Barry's promptness and patience in confirming (or indeed refusing) records have helped me to learn. As I worked on the estate, the fact that he checked in so regularly has made it possible for me to revisit mines where I have not managed to capture some key features initially. I have often found things for the first time the day after he mentions them on Twitter.

I seem to find *Phytomyza marginella* quite a lot compared to recorders in Britain, which has led me to wonder if it might be more frequent here? I've found a few things that are new for Ireland or NI but, as there are so few recorders of diptera here, it was always going to be on the cards with the right kind of resources.

The requirement of the scheme to post a photo is, of itself, gradually bringing into existence an id resource that I have found highly valuable.

I've just moved to the Northern Ireland Department of Finance. Its office is on some reclaimed land in the Belfast Harbour Estate. I walked out for my first lunchtime walk on my first day and was greeted, within 100m of the office, by *Aulagromyza heringii* and *Agromyza alnivora*. Not bad eh!".

VC

County

No. of

records

-

Records are received from all over the UK via iRecord, with the following records received per VC during 2018;

	0 (41 42	Glamorganshire Breconshire
VC	County	No. of records	43	Radnorshire
			44	Carmarthenshire
1	West Cornwall with Scilly	7	45	Pembrokeshire
2	East Cornwall	6	40 46	Cardiganshire
3	South Devon	9	40 47	Montgomeryshire
4	North Devon	6	48	Merionethshire
5	South Somerset	34	40 49	Caernarvonshire
6	North Somerset	27	49 50	Denbighshire
7	North Wiltshire	-	51	Flintshire
8	South Wiltshire	1	52	Anglesey
9	Dorset	4	53	South Lincolnshire
10	Isle of Wight	11	54	North Lincolnshire
11	South Hampshire	18	55	Leicestershire (with Rutland
12	North Hampshire	33	56	Nottinghamshire
13	West Sussex	29	57	Derbyshire
14	East Sussex	25	58	Cheshire
15	East Kent	15	59	South Lancashire
16	West Kent	23	60	West Lancashire
17	Surrey	46	61	South-east Yorkshire
18	South Essex	3	62	North-east Yorkshire
19	North Essex	9	63	South-west Yorkshire
20	Hertfordshire	51	64	Mid-west Yorkshire
21	Middlesex	12	65	North-west Yorkshire
22	Berkshire	49	66	
23	Oxfordshire	53	67	County Durham South Northumberland
24	Buckinghamshire	69	68	North Northumberland
25	East Suffolk	19		
26	West Suffolk	42	69 70	Westmorland (with Furness Cumberland
27	East Norfolk	381	70 71	
28	West Norfolk	92		Isle of Man
29	Cambridgeshire	23	72 72	Dumfriesshire
30	Bedfordshire	99	73 75	Kirkudbrightshire
31	Huntingdonshire	3	75	Ayrshire
32	Northamptonshire	11	76 77	Renfrewshire
33	East Gloucestershire	113	77	Lanarkshire
34	West Gloucestershire	7	80	Roxburghshire
35	Monmouthshire	13	81	Berwickshire
36	Herefordshire	22	82	East Lothian
37	Worcestershire	11	83	Midlothian
38	Warwickshire	14	84 85	Linlithgow
39	Staffordshire	13	85	Fifeshire
40	Shropshire	70	86	Stirlingshire

87	West Perthshire	5
92	South Aberdeenshire	1
96	East Inverness-shire	1
100	Clyde Isles	1
103	Mid Ebudes	2
106	East Ross & Cromarty	1
108	West Sutherland	1
111	Orkney	21
H33	Fermanagh	8
H36	Tyrone	10
H37	Armagh	22
H38	Down	137
H39	Antrim	73
H40	Londonderry	12
	•	

The NRS does not hold any records for the following VC's;

VC County

i.

74	Wigtownshire
78	Peeblesshire
79	Selkirkshire
88	Mid Perthshire
89	East Perthshire
93	N. Aberdeenshire
94	Banffshire
95	Moray
97	W. Inverness-shire
98	Argyllshire
99	Dunbartonshire
101	Kintyre
102	South Ebudes
104	North Ebudes
105	W. Ross & Cromarty
109	Caithness

THE SPECIES......

IRECORD SPECIES RECORDED

At present, there are around 400 species of *Agromyzidae* which have been recorded in the UK, not all of which are actual leaf-miners.

Species new to Britain are frequently added to the British list and one such species will be discussed later in the newsletter.

It is no surprise that the Holly leaf miner, *Phytomyza ilicis*, is still the most recorded species, however, it only made up 30% of the total number of records received (2017: 43%).

During the year, 123 species were recorded by iRecord users, compared to the 125 in the previous year;

Species	No. of records
Phytomyza ilicis	769
Phytomyza ranunculi	151
Agromyza anthracina	98
Phytomyza agromyzina	91
Phytomyza chaerophylli	82
Agromyza alnivora	72
Liriomyza amoena	60
Phytomyza lappae	57
Phytomyza glechomae	50
Phytomyza minuscula	48
Phytoliriomyza melampyga	47
Agromyza nana	44
Liriomyza eupatorii	41
Chromatomyia aprilina	39
Chromatomyia primulae	39
Agromyza idaeiana	38
Phytomyza astrantiae	34
Chromatomyia lonicerae	31
Phytomyza cytisi	29
Aulagromyza luteoscutellata	26
Aulagromyza tremulae	26
Agromyza alnibetulae	25
Agromyza flaviceps	25
Amauromyza flavifrons	25
Chromatomyia scolopendri	25
Phytomyza hellebori	24
Amauromyza verbasci	23
Amauromyza labiatarum	21
Liriomyza pusilla	21
Liriomyza strigata	21
Cerodontha iridis	19
Phytomyza aquilegiae	19
Phytomyza leucanthemi	19
Cerodontha iraeos	18
Aulagromyza populicola	16
Chromatomyia milii	15
Agromyza demeijerei	14

Agromyza nigrescens	14	Phytomyza crassiseta	2
Phytomyza ranunculivora	14	Phytomyza hendeli	2
Agromyza dipsaci	13	Phytomyza obscurella	2
Aulagromyza heringii	13	Agromyza flavipennis	1
Liriomyza congesta	13	Agromyza frontella	1
Agromyza sulfuriceps	12	Agromyza igniceps	1
Phytomyza marginella	12	Agromyza lithospermi	1
Liriomyza pascuum	11	Agromyza myosotidis	1
Amauromyza morionella	10	Agromyza nigrociliata	1
Aulagromyza tridentata	10	Agromyza viciae	1
Phytomyza krygeri	10	Agromyza vicifoliae	1
Calycomyza artemisiae	9	Aulagromyza cornigera	1
Chromatomyia nigra	9	Aulagromyza fulvicornis	1
Phytomyza conyzae	9	Aulagromyza hendeliana	1
Chromatomyia horticola	8	Aulagromyza orphana	1
Phytomyza plantaginis	8	Aulagromyza similis	1
Agromyza filipendulae	7	Cerodontha biseta	1
Chromatomyia ramosa	7	Cerodontha capitata	1
Phytomyza angelicae	7	Cerodontha lateralis	1
Phytomyza heracleana	7	Cerodontha phragmitidis	1
Phytomyza petoei	6	Chromatomyia blackstoniae	1
Liriomyza flaveola	5	Chromatomyia periclymeni	1
Nemorimyza posticata	5	Galiomyza morio	1
Phytomyza angelicastri	5	Galiomyza violiphaga	1
Phytomyza tetrasticha	5	Liriomyza cicerina	1
Agromyza johannae	4	Liriomyza orbona	1
Liriomyza puella	4	Liriomyza taraxaci	1
Liriomyza sonchi	4	Napomyza lateralis	1
Phytomyza bipunctata	4	Ophiomyia maura	1
Phytomyza eupatorii	4	Ophiomyia pulicaria	1
Phytomyza tussilaginis	4	Phytomyza aconiti	1
Agromyza albitarsis	3	Phytomyza fallaciosa	1
Calycomyza humeralis	3	Phytomyza flavicornis	1
Chromatomyia asteris	3	Phytomyza origani	1
Chromatomyia syngenesiae	3	Phytomyza pastinacae	1
Phytomyza brunnipes	3	Phytomyza pullula	1
Agromyza abiens	2	Phytomyza rufipes	1
Agromyza mobilis	2	Phytomyza solidaginis	1
Aulagromyza populi	2	Phytomyza spinaciae	1
Cerodontha denticornis	2	Phytomyza tanaceti	1
Cerodontha fulvipes	2	Phytomyza vitalbae	1
Cerodontha muscina	2	Phytomyza wahlgreni	1
Liriomyza pisivora	2	One species which is not in the ab	ove list is
Phytomyza artemisivora	2	Phytomyza phillyreae, which was list by Andy & Melissa Banthorpe i	added to t

One species which is not in the above list is *Phytomyza phillyreae*, which was added to the British list by Andy & Melissa Banthorpe in April 2018. They write;

"Our most exciting Agromyzid find this year came in April. My wife Melissa and I were wandering round the churchyard in Barton-le-Clay, Bedfordshire vc30, on 21st April 2018 when we came across leaf-mines in the leaves of a tree that we did not recognise. They resembled Agromyzid mines so we took two home to work out what we had. Melissa managed to identify the tree as *Phillyrea latifolia*, also known as Mock Privet. This is an evergreen tree native to the Mediterranean area.

With that information I used the Dutch plant parasites website <u>https://bladmineerders.nl</u> to see if I could get an identification for the mine causer. The dichotomous keys took me to Phytomyza phillyreae, a known miner of the tree but not known from northern Europe. I made contact with Barry Warrington straightaway and on his advice returned to site and collected more mines. These were then carefully packaged and posted to him.

Barry processed these leaves, removing the puparia to breed through and the first male emerged on 30th April. Gendet confirmed the id as *Phytomyza phillyreae* and several more emerged over the following few days. Specimens were sent to the Natural History Museum for the national collection.

It would be worth checking other trees of this species in southern England. Mines should be looked for in spring as the mines are made then and the adults emerge soon after. The species is univoltine.

For more information see the following paper in Dipterists Digest Vol25 part 1 August 2018:-Phytomyza phillyreae Hering in Buhr (Diptera, Agromyzidae) new to Britain BARRY P. WARRINGTON and ANDY M. & MELISSA G. BANTHORPE

Thanks to Barry for all his work on this and getting the paper researched, written and published".



Phytomyza phillyreae mine © Barry P Warrington

This record just shows that there is still so much to discover and by getting out there and looking, anyone could make fantastic discoveries like this!

iRecord is an extremely valuable resource and is really helping to put 'dots on maps'. The verification process appears to be well received by most users but please do get in touch if you have any suggestions which you think would improve the process.

The NRS would like to thank Martin Harvey at the Biological Records Centre for all his help during the past twelve months with the issues encountered.

Finally, thank you to all the iRecord users who are providing their data to the NRS.

RECORDS FROM OTHER SOURCES

INDIVIDUALS AND LERC'S

Many records were submitted directly to the NRS by the following;

Andrew Cunningham

Andrew Graham

Alan Outen

Charlie Fletcher

COFNOD

David Gibbs

George Reiss

Graham Featherstone

Greater Manchester Ecology Unit

Highlands Biological Recording Group

Jenny Seawright

John Coldwell

John Drewett

Keith Alexander

Malcolm Storey

Mike Paskin

Paul Cobb

Rob Edmunds

Seth Gibson

Sir Professor Charles Godfray

W Dolling

A massive thank you to all of the above for submitting their records directly to the NRS.

In total, the above contributors added an additional c5,000 records to the national database, with many of these been records of collected and dissected adults.

The thought of collecting, rearing and dissecting adult material still fills many a recorder with fear but if anyone is considering looking at adults, please do get in touch and the NRS will be delighted to help in any way it can.

TARGET SPECIES FOR 2019

NON-LEAF MINING AGROMYZID'S

There are many species of Agromyzidae which do not create leaf-mines but feed in other parts of the plant, such as the roots, seeds and stems.

One genus in particular, *Melanagromyza*, are stemborers and this time of year is an ideal opportunity to look for their puparia in the stems of various plants.

At present, there are only 230 records for this genus in the NRS database, which represents just 0.7% of the total records!

In many cases, rearing of adult material is essential to allow a definite determination, however, this is usually straightforward and really is worth the effort!

The January newsletter will discuss these in more detail, along with several other species to look out for during the upcoming season.



Puparium of Melanagromyza lappae in Burdock stem © Barry P Warrington

WINNERS AND LOSERS

HOW SOME SPECIES FARED.....

The number of records for a handful of species increased drastically during the period, compared to the previous years figures, whilst naturally, there were also a few losers. It is hard to be sure if these fluctuations are due to genuine rises (or falls) in population or whether an increase in awareness is the cause, or indeed a combination of the two.

The biggest 'winner' during the year was *Aulagromyza tremulae*, a species which mines Aspen, with records increasing by 550%, closely followed by the Laburnum miner *Phytomyza cytisi*, who's records increased by 500%.



Mines of Aulagromyza tremulae © Barry P Warrington

Other species to have had a much better year include *Agromyza nigrescens* († 240%), *Aulagromyza heringii* (†160%), *Aulagromyza populicola* († 400%), *Cerodontha iraeos* († 121%) and *Phytomyza aquilegiae* († 185%).

From the above species, only *Aulagromyza tremulae* and *Aulagromyza heringii* were mentioned as 'species to look out for' by the NRS.

The Agromyzid which fared the worst during 2018 compared to records received for 2017 was *Agromyza ferruginosa*, a miner of Comfrey (*Symphytum*) and Lungwort (*Pulmonaria*), with not a single record been received. *Agromyza alnibetulae* (↓ 24%), *Amauromyza verbasci* (↓ 28%), *Phytomyza conyzae* (↓ 38%) and surprisingly, *Phytomyza ilicis* (↓ 23%) were also poorly recorded during 2018.

Each year that passes will allow a much more accurate understanding in terms of distribution and population trends so please do keep sending in your records, even for good old *Phytomyza ilicis*, as every one is extremely valuable.

The *Provisional Assessment of the Status of Acalyptratae flies in the UK* was published in December 2016, just prior to the NRS been launched.

In the assessment, only two species were accorded conservation status (*Phytoliriomyza ornata* and *Phytomyza orobanchia*), this been due to a lack of available data which permitted distribution and conservation status to be clarified for all species. With the inception of the NRS, hopefully a more detailed assessment can be commissioned in the future.

SOCIAL MEDIA

TWITTER STILL A POPULAR POINT OF CONTACT

Currently, the NRS Twitter account has 378 followers, many of which prefer to contact the NRS via this medium.

During the year, over 400 tweets were sent, covering subjects such as replying to ID queries, advising of species to look out for and answering Vice County record requests. Tweets which highlight specific species to look out for are always popular and often result in a surge in records of that particular species.

Earlier in the year, the NRS made people aware of how to spot the larval signs of *Phytomyza krygeri*, a species which feeds in the seed pods of Columbine (Aquilegia). At the time, there were only three records of this species in the NRS database, yet within a couple of days of posting the message, 11 records were submitted, all being new Vice County records.



Larval signs of Phytomyza krygeri © Barry P Warrington

The same level of response was achieved when the mines of *Liriomyza pusilla* on Daisy were pictured and discussed.



Larval mines of Liriomyza pusilla © Barry P Warrington

In 2019, the NRS will continue to send out messages to make people aware of what to look out for. Hopefully, these will keep resulting in a rush of records for each species covered!

During the year, in total, over 500 ID requests were sent into the NRS, by email or Twitter. All of these were answered extremely promptly, which hopefully was appreciated by all.

Social media was also used to publicise the *Host Plant Genera of the British Agromyzidae* provisional checklist. The checklist has been distributed to over 70 people, ranging from amateur naturalists in Jesmond to Molecular Scientists in Japan.

The checklist will be updated periodically, as new host plants and Agromyzidae species are regularly discovered.

FEEDBACK AND SUGGESTIONS

GET IN TOUCH!

The NRS would love to hear any suggestions you may have; be that relating to the verification process, newsletter ideas or something else.

Unfortunately, the NRS website has not progressed as much as it was hoped, the amount of time needed to work on this is substantial. However, over time, the website will be enhanced and be a valuable resource to those interested in the Agromyzidae.

Finally, as always, a big thank you to everyone who has and continues to contribute to the NRS – keep up the good work folks!

CONTACT

IF YOU HAVE ANY QUESTIONS OR WOULD LIKE TO KNOW MORE ABOUT THE SCHEME, PLEASE DO GET IN TOUCH WITH US;

