

# AGROMYZIDAE NEWSLETTER

## LATEST NEWS FROM THE NATIONAL AGROMYZIDAE RECORDING SCHEME

### A SUMMARY OF 2021

#### A BRIEF UPDATE

##### FIVE YEARS ON.....

It is now five 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 finding it a useful and valuable resource.

At present, there are 51,727 records in the NRS Database, covering 387 species, which represents 92% of the species known in the UK (420). Since the scheme was launched, there have been 22 species added to the British list, including one species new to science discovered by a regular contributor to the scheme, so there is still so much out there to discover!

February saw the launch of the schemes [website](#), which after a long time in the making, seems to be providing a valuable resource for anyone interested in Agromyzidae.

One of the key features of the site is that distribution maps and the phenology charts are updated as and when records are received, meaning the website is as close to 'real time' as possible.

The host plant checklist is also updated when necessary, with the species recording grades been amended as and when new knowledge comes to light. The website continually has content added, chiefly images of leaf mines, adults and male genitalia

Although initial feedback was extremely positive when the website was launched, now folk have had more time to use it, any feedback and/or suggestions would be welcomed.

Thanks must go to the Scratchpads team at NHM London for all their help past and present with ensuring the website operates smoothly.

#### SUMMARY OF IRECORD DATA

##### MONTHLY BREAKDOWN OF IRECORD RECORDS

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

Month	2020-21	2019-20
December '20	188	70
January '21	164	125
February	150	84
March	143	60
April	119	43
May	128	162
June	185	301
July	287	384
August	330	230
September	639	295
October	847	292
November	262	175
<b>TOTAL</b>	<b><u>3,442</u></b>	<b><u>2,221</u></b>

The large increase in records for September and October is the result of data from iNaturalist been imported into iRecord.

Over 3,000 records within iNaturalist were examined, with only correct, supported by a photo, entries been made 'research grade', leading to them been imported into iRecord.

Excluding iNaturalist data, records received and accepted via iRecord for the year totaled 2,733 – an increase of 23% compared to the previous year.

Despite the very cold spring we encountered, records for January to April exceeded those of the previous year. Records dropped slightly during the summer but picked up again in the autumn.

Thankfully, unlike previous years, there was not too many records that had to be rejected for not been supported by a photo – many thanks for your cooperation!

As always, a very big thank you to everyone who has contributed during the year, your records really are making our understanding of Agromyzidae much greater!

## THE SPECIES.....

### IRECORD SPECIES RECORDED IN 2020-21

At present, there are **420** species of Agromyzidae which have been recorded in the UK.

In 2020/21, **148** (2019-20: 137) species were recorded via iRecord which represents 35.2% of the total UK species. Here's a breakdown of all the species recorded and the number of records;

SPECIES	TOTAL
<i>Phytomyza ilicis</i>	993
<i>Phytomyza ranunculi</i>	159
<i>Phytomyza chaerophylli</i>	130
<i>Phytomyza lappae</i>	116
<i>Phytoliriomyza melampyga</i>	110
<i>Cerodontha iridis</i>	107
<i>Chromatomyia primulae</i>	101
<i>Phytomyza agromyzina</i>	94
<i>Cerodontha iraeos</i>	83
<i>Chromatomyia aprilina</i>	80
<i>Agromyza nana</i>	77
<i>Agromyza anthracina</i>	74
<i>Phytomyza minuscula</i>	69
<i>Chromatomyia scolopendri</i>	66
<i>Amauromyza labiatarum</i>	64
<i>Aulagromyza heringii</i>	62
<i>Liriomyza amoena</i>	57
<i>Amauromyza verbasci</i>	49
<i>Liriomyza eupatorii</i>	48
<i>Amauromyza flavifrons</i>	44
<i>Chromatomyia loniceriae</i>	33
<i>Agromyza alnivora</i>	32
<i>Agromyza flaviceps</i>	30
<i>Liriomyza strigata</i>	30

<i>Phytomyza hellebori</i>	30
<i>Cerodontha denticornis</i>	29
<i>Aulagromyza tremulae</i>	28
<i>Chromatomyia horticola</i>	25
<i>Phytomyza aquilegiae</i>	25
<i>Agromyza alnibetulae</i>	24
<i>Liriomyza congesta</i>	24
<i>Phytomyza ranunculivora</i>	24
<i>Phytomyza glechomae</i>	23
<i>Chromatomyia ramosa</i>	22
<i>Phytomyza angelicae</i>	22
<i>Aulagromyza populicola</i>	21
<i>Phytomyza astrantiae</i>	18
<i>Phytomyza conyzae</i>	15
<i>Aulagromyza luteoscutellata</i>	14
<i>Calycomyza artemisiae</i>	13
<i>Liriomyza pisivora</i>	13
<i>Phytomyza brunnipis</i>	13
<i>Phytomyza cytisi</i>	13
<i>Liriomyza pusilla</i>	12
<i>Agromyza dipsaci</i>	11
<i>Aulagromyza populi</i>	11
<i>Phytomyza crassiseta</i>	11
<i>Phytomyza plantaginis</i>	11
<i>Agromyza varicornis</i>	10
<i>Aulagromyza tridentata</i>	9
<i>Agromyza demeijerei</i>	8
<i>Chromatomyia milii</i>	8
<i>Liriomyza cicerina</i>	8
<i>Phytomyza tussilaginis</i>	8
<i>Agromyza albitarsis</i>	7
<i>Agromyza filipendulae</i>	7
<i>Agromyza idaeiana</i>	7
<i>Amauromyza morionella</i>	7
<i>Chromatomyia nigra</i>	7
<i>Liriomyza sonchi</i>	7
<i>Phytomyza marginella</i>	7
<i>Melanagromyza angeliciphaga</i>	6
<i>Galiomyza morio</i>	5
<i>Melanagromyza lappae</i>	5
<i>Melanagromyza moatesi</i>	5
<i>Nemorimyza posticata</i>	5
<i>Phytomyza fallaciosa</i>	5

<i>Agromyza johannae</i>	4	<i>Agromyza cinerascens</i>	1
<i>Chromatomyia syngenesiae</i>	4	<i>Agromyza mobilis</i>	1
<i>Liriomyza pascuum</i>	4	<i>Agromyza myosotidis</i>	1
<i>Liriomyza taraxaci</i>	4	<i>Agromyza rondensis</i>	1
<i>Ophiomyia aquilegiana</i>	4	<i>Agromyza vicifoliae</i>	1
<i>Phytomyza autumnalis</i>	4	<i>Amauromyza luteiceps</i>	1
<i>Phytomyza flavicornis</i>	4	<i>Aulagromyza discrepans</i>	1
<i>Amauromyza monfalconensis</i>	3	<i>Aulagromyza orphana</i>	1
<i>Aulagromyza fulvicornis</i>	3	<i>Cerodontha angulata</i>	1
<i>Cerodontha capitata</i>	3	<i>Cerodontha bimaculata</i>	1
<i>Cerodontha phragmitidis</i>	3	<i>Cerodontha crassiseta</i>	1
<i>Melanagromyza aeneoventris</i>	3	<i>Cerodontha fulvipes</i>	1
<i>Melanagromyza eupatorii</i>	3	<i>Cerodontha morosa</i>	1
<i>Napomyza carotae</i>	3	<i>Cerodontha muscina</i>	1
<i>Napomyza lateralis</i>	3	<i>Chromatomyia centaurii</i>	1
<i>Phytomyza eupatorii</i>	3	<i>Phytomyza paraciliata</i>	1
<i>Phytomyza gymnostoma</i>	3	<i>Galiomyza violiphaga</i>	1
<i>Phytomyza petoei</i>	3	<i>Liriomyza angulicornis</i>	1
<i>Phytomyza phillyreae</i>	3	<i>Liriomyza centaureae</i>	1
<i>Phytomyza spinaciae</i>	3	<i>Liriomyza ptarmicae</i>	1
<i>Phytomyza stolonigena</i>	3	<i>Melanagromyza galegae</i>	1
<i>Agromyza abiens</i>	2	<i>Metopomyza flavonotata</i>	1
<i>Agromyza nigrescens</i>	2	<i>Napomyza nigriceps</i>	1
<i>Agromyza pseudoreptans</i>	2	<i>Ophiomyia maura</i>	1
<i>Agromyza viciae</i>	2	<i>Ophiomyia melandricaulis</i>	1
<i>Aulagromyza hendeliana</i>	2	<i>Ophiomyia pulicaria</i>	1
<i>Cerodontha caricicola</i>	2	<i>Phytoliriomyza perpusilla</i>	1
<i>Cerodontha lateralis</i>	2	<i>Phytomyza albipennis</i>	1
<i>Cerodontha luctuosa</i>	2	<i>Phytomyza cirsii</i>	1
<i>Cerodontha silvatica</i>	2	<i>Phytomyza continua</i>	1
<i>Chromatomyia periclymeni</i>	2	<i>Phytomyza evanescens</i>	1
<i>Liriomyza orbona</i>	2	<i>Phytomyza myosotica</i>	1
<i>Liriomyza richteri</i>	2	<i>Phytomyza pastinacae</i>	1
<i>Liriomyza valerianae</i>	2	<i>Phytomyza pullula</i>	1
<i>Melanagromyza aenea</i>	2	<i>Phytomyza rufipes</i>	1
<i>Ophiomyia heringi</i>	2	<i>Phytomyza spondylii</i>	1
<i>Phytomyza bipunctata</i>	2	<i>Phytomyza wahlgreni</i>	1
<i>Phytomyza calthophila</i>	2	<i>Pseudonapomyza europaea</i>	1
<i>Phytomyza hendeli</i>	2		
<i>Phytomyza heracleana</i>	2		
<i>Phytomyza origani</i>	2		
<i>Phytomyza pimpinellae</i>	2		
<i>Agromyza audcenti</i>	1		

## WINNER &amp; LOSERS

## CHANGES IN SPECIES RECORDED IN 2020-21

Fluctuations in numbers is to be expected and it is hard to be sure if changes are due to genuine rises or falls in abundance or whether an increase in awareness is the cause (or a combination of the two) or an increase/decrease in the number of recorders and their efforts.

Two species which have seen their number of records increase significantly in 2020-21 compared to 2019-2020 are *Cerodontha iraeos* (up 81%) and *Cerodontha iridis* (up 196%).

Species which fared much worse in 2020-21 compared to 2019-20 include *Aulagromyza tridentata* (down 64%), *Chromatomyia periclymeni* (down 83%) and *Phytomyza glechomae* (down 53%).

There are several species, such as *Phytomyza paraciliata* and *Phytomyza wahlgreni*, which previously had not been recorded within iRecord before; this is owing to recorders sending in material (puparia or collected/reared adults) which are then determined by way of examination of the male genitalia. The NRS is always happy to receive specimens for determination or puparia to rear.

With regards to rearing, this is something which the NRS really encourages recorders to undertake as it often provides surprising results; recently, a regular contributor to the scheme decided to have a go and within their first batch of reared material, a parasitoid new to the UK was present!

## RECORDING EFFORT: IRECORD RECORDERS

## INDIVIDUAL RECORDERS

Accepted records submitted to iRecord were received from 368 recorders in 2020-21 (184 in 2019/20 and 140 recorders in 2018/19); the large increase is partly due to iNaturalist records been part of the dataset. Many thanks indeed to every recorder for submitting records to the scheme – whether you submitted just one single record or over a hundred, each record is just as valuable.

Below is a list of contributors during the year. Names within iNaturalist are, unfortunately, often just a pseudonym so these are not included;

RECORDER	No. of records
Stephen James McWilliam	414
Day, John	297
Homan, Robert	281
Banthorpe, Andy & Melissa	136
Thomas, Sam	92
Parker, Adam	66
Hodge, Tim	65
Calow, Graham	62
Vaughan, Howard	58
Newton, Sam	53
O'Doherty, Aideen	52
Buckton, Sam	51
Irving, Annie	51
Moates, Graham	63
Bell, Melinda	45
Emerson, James	40
Davis, Tony	39
Gibson, Seth	38
Rylands, Kevin	37
Ames, Matthew	36
Davis, Graeme	35
Moss, Laura	35
Nicholls, David	34
Susan Marley	34
Wilson, Mark	33
Mullen, Ben	31
Davidson, Richard	30
Amanda Cogan Barber	29
Graves, Hazel	25
Shillaker, Richard	24
Timms, Sue	23
Calum McLennan	21
Mabbett, Craig	21
Monteith, Rodney	21
Watkeys, Graham	21
Gray, Martin	20
Warrington, Lynn	20
John P	19
A Emmerson	17

Norman, Simon	17	Hillman, Peter	6
Martin, John P	16	Hind, Steve	6
Smith, Peter	16	Plummer, Stephen	6
Barron, Philip	14	Seligman, Paul	6
Ben Deed	14	Watchorn, Andrew	6
Barton, Ian	13	Andy Slater	5
Andy Thomas	12	Blyton, Daniel	5
Jon Mortin	12	Brighton, Phil	5
Parkerson, Louis	12	Clarke, Peter	5
Salter, Alan	11	Cooper, Leonard	5
Sam Rees	11	Fletcher, Neil	5
Tordoff, George	11	Gould, David	5
Gallis, Steve	10	Hall, Peter	5
Kevin Rylands	10	Hewitt, Josie	5
LERN	10	Ian Andrews	6
Lewis, Ste	10	John Proctor	5
Mortin, Jon	10	Josh Russell	5
Ogden, Peter	10	Marlow, Trisha	5
Oliver Clark	10	McCulloch, James	5
Oscar Hopgood	10	Meadows, Glen	5
Pritchard, Edward	10	Pollitt, Mark	5
Taylor, Sue	10	Skevington, Mark	5
Vickers, Jenny	10	Victoria J. Burton	5
Challinor, Paul	9	Ward, Tim	5
Daniel Cahen	9	Warrington, Stuart	5
Harrow, Matthew	9	Williams, Emma	5
S Rees	9	Andrew Lamb	4
Trunecka, Dennis	9	Bell, Martin	4
Cunningham, Jill	8	Harvey, Martin C.	4
Gregory, Lee	8	Hewitt, Josie & Davis, Tony	4
Law, Andrew	8	Hughes, Simon	4
Lee, Derek	8	Inward, David	4
Paul Bowyer	8	Johnson, Lee	4
Burkinshaw, Tim	7	Kevin Clements	4
Else, Ric	7	Lush, Mike	4
Fox, Joan	7	Maurice Maynard	4
Greenland, Martin	7	Mike Bath	4
Matthew Vosper	7	Parsons, Paul	4
Skotnicki, Andrew	7	Rowe, Adam	4
Dejardin, Andrew	6	Scott Shanks	4
Gray, Stephen	6	Thirlwell, Ian	4
Gregory, Neil	6	Wheeler, Jim	4
Haycock, Annie & Bob	6	Bedford, Hilary	3

Coldwell, J.	3	Rachel Webster	2
Fowler, Keith	3	Richings, Ollie	2
Gaten, Ted	3	Ruth Lawren	2
Godfrey, A.	3	Rutt, Graham	2
Hauke Koch	3	Sirrett, John	2
Iles, Christopher	3	Slater, Andy	2
Lukas Large	3	Stephen Moores	2
Passey, Stephen	3	Steve Orridge	2
Philip Mark Osso	3	van Breda, John	2
Priestley, Steve	3	Wilkinson, Karen	2
Richard Fuller	3	A.J.White	1
Tim Burkinshaw	3	Alan Salter	1
Wall, Mike	3	Alex Wilson	1
Whyte, Mariko	3	Auchterlonie, George	1
Andrew Thomas	2	Batty, Samantha	1
Beaumont, Andreas	2	Bennett, Simon	1
Bell , Helen	2	Blencowe, Michael	1
Burgess, Luke	2	Burns, Moya	1
Cann, Alan	2	Burt, Howard	1
Common, James	2	Burton, Victoria J	1
Davies, Sue	2	Cannon, Lesley	1
Fotheringham, David	2	Chambers, Gavin	1
Giving Nature a Home in Cardiff project	2	Charter, Elizabeth	1
Glanz, Lyn	2	Cheeseman, Adam	1
Griffiths, Chloe	2	Cheesman, Colin	1
Haddow, Malcolm	2	Chris Sherlock	1
Henry, Cliff	2	Clark, Buzz	1
Higgott, Mike	2	Comont, Richard	1
Hotchkiss, Alastair	2	Crellin, Steven	1
Hoy, Rhiannon	2	Daniell Uscombe	1
Jamie Gorzynski	2	David Ashcroft	1
Jeremy Barker	2	David Harbour	1
John Reeves	2	David Hocken	1
Kernohan, Jason	2	Deakins, Bill	1
Le Boutillier, Colin	2	Drewett, John	1
Murdock, Andy	2	Duncan Greenhill	1
Norman, Peter	2	Evans, Dave	1
Notton, David	2	Evans, Lloyd	1
Okon, Tara	2	Evans, Mark	1
Pete Mella	2	Everitt, Jacob	1
Pochin, Christine	2	Fletcher, Charles	1
Pridmore, Tim	2	Fletcher, Trevor	1
Pryke, Linda	2	Foster, Chris	1

Furber, Michelle	1	Parfitt, Alice	1
Gamble, Kirsty	1	Paul Donnelly	1
Garland, Steve	1	Pennington, Mike	1
George, Will	1	P Lambler	1
Gordon Lavender	1	Porter, Phillip	1
Hackston, Mike	1	Quentin Groom	1
Hedley, Brian	1	Reynolds, Melanie	1
Hibberd, Gary	1	R H Cooke	1
Hicks, Amy	1	Rich Billington	1
Holden, Mary Ann	1	Richard Weddle	1
Horsfall, Jim	1	Roche, Ray	1
Howdon, David	1	Rooth, Sharon	1
Hubble, Dave	1	Rowan, M	1
J Mark Earlam	1	Rutherford, Harry	1
Jacqueline Worthington	1	Sabiene Cross	1
James Bailey	1	Scarratt, Martin	1
Jason Dombroskie	1	Semper, Alan	1
Jenny Vickers	1	Sheppard, Clive	1
Jewels, Andrew	1	Shortall, Chris	1
J Mayers	1	Shurmer, Mike	1
Joe Carmichael	1	Shuttleworth, Ali	1
John Mulford	1	Simon Rolph	1
John Pilgrim	1	Skingsley, Dave	1
Jones, Richard	1	Slade, David	1
Kee, Ai-Lin	1	Small, Raymond	1
Kerr, Keith	1	Sophie Richards	1
Knight, Wendy	1	Spittle, Darryl	1
Lerpiniere, John	1	Stamp, Michelle	1
Lewis, Mark	1	Still, Liz	1
Lewis, Steven	1	Terry, Steve	1
Macdonald, Peter	1	Thomas, Gerry	1
Marshall, Steve	1	Thomas, Jane	1
Matthew Jones	1	Watson, Hazel	1
Morgan, Trevor	1	Welch, Bill	1
Moverley, Tony	1	Wenman, Graham	1
Myers, Joe	1	Westwood, David	1
Nev Wright	1	Whiffin, Ashleigh	1
Nicky Hodges	1	White, Tony	1
Norton, Tristan	1	Wightman - Smith, Georgie	1
Nowers, Mark	1		
N Sawyer	1		
O'Donnell, Stephen	1		
O'Sullivan, Mark	1		

Several individuals and recording groups submitted data directly into the scheme. Their contributions are not listed above, but many thanks are due to; Andrew Billington, Andrew Cunningham,

Andrew & Janet Graham, David Gibbs, Dorset Ecological Records Centre, Professor Sir Charles Godfray, Highlands Biological Recording Group, Ian Strachan, Ivan Perry, John Coldwell, John Showers, Laurence Clemons, Mike Shurmer, Paul Cobb, Phil Porter, Rob Edmunds and Ryan Mitchell.

## RECORDING EFFORT: VICE-COUNTIES

### RECORDS PER VICE COUNTY

iRecord records were received from most of the British and Irish vice-counties, with only 19 VC's not having a record (most of which are in the Scottish highlands and islands). A breakdown of the number of records received per VC is as follows;

VC	2020-21	
1	West Cornwall	15
2	East Cornwall	17
3	South Devon	341
4	North Devon	8
5	South Somerset	23
6	North Somerset	43
7	North Wiltshire	40
8	South Wiltshire	5
9	Dorset	9
10	Isle of Wight	18
11	South Hampshire	54
12	North Hampshire	18
13	West Sussex	28
14	East Sussex	26
15	East Kent	13
16	West Kent	70
17	Surrey	44
18	South Essex	15
19	North Essex	9
20	Hertfordshire	56
21	Middlesex	27
22	Berkshire	27
23	Oxfordshire	88
24	Buckinghamshire	33
25	East Suffolk	30
26	West Suffolk	15
27	East Norfolk	150
28	West Norfolk	29

29	Cambridgeshire	36
30	Bedfordshire	117
31	Huntington	9
32	Northamptonshire	9
33	East Gloucestershire	172
34	West Gloucestershire	24
35	Monmouthshire	17
36	Herefordshire	5
37	Worcestershire	34
38	Warwickshire	19
39	Staffordshire	56
40	Shropshire	69
41	Glamorganshire	115
42	Breconshire	48
43	Radnorshire	4
44	Carmarthenshire	30
45	Pembrokeshire	6
46	Cardiganshire	10
47	Montgomeryshire	8
48	Merionethshire	5
49	Caernarvonshire	5
50	Denbighshire	6
51	Flintshire	4
52	Anglesey	21
53	South Lincolnshire	32
54	North Lincolnshire	57
55	Leicestershire	266
56	Nottinghamshire	12
57	Derbyshire	37
58	Cheshire	93
59	South Lancashire	390
60	West Lancashire	29
61	South-east Yorkshire	67
62	North-east Yorkshire	115
63	South-west Yorkshire	15
64	Mid-west Yorkshire	14
65	North-west Yorkshire	5
66	County Durham	13
67	South Northumberland	9
68	North Northumberland	2
69	Westmorland	7
70	Cumberland	13
71	Isle of Man	2



72	Dumfriesshire	3
73	Kirkcudbrightshire	15
74	Wigtownshire	-
75	Ayrshire	3
76	Renfrewshire	1
77	Lanarkshire	6
78	Peeblesshire	-
79	Selkirkshire	-
80	Roxburghshire	1
81	Berwickshire	-
82	East Lothian	1
83	Midlothian	7
84	West Lothian	1
85	Fifeshire	2
86	Stirlingshire	1
87	West Perthshire	-
88	Mid Perthshire	4
89	East Perthshire	2
90	Angus	-
91	Kincardineshire	-
92	South Aberdeenshire	-
93	North Aberdeenshire	-
94	Banffshire	-
95	Moray	2
96	East Inverness-shire	5
97	West Inverness-shire	-
98	Argyll	10
99	Dunbartonshire	1
100	Clyde Isles	-
101	Kintyre	-
102	South Ebudes	-
103	Mid Ebudes	-
104	North Ebudes	31
105	West Ross	3
106	East Ross	-
107	East Sutherland	-
108	West Sutherland	-
109	Caithness	-
110	Outer Hebrides	2
111	Orkney	1
112	Shetland	2
H33	Fermanagh	11

H37	Armagh	1
H38	Down	32
H39	Antrim	34
H40	Londonderry	1

## FIVE YEARS ON.....

### A LOT OF WORK!

The NRS was launched five years ago and although there was already an interest in leaf-mining flies, it seems the inception of the scheme has certainly led to an increase in their popularity amongst recorders. Running the scheme involves a lot of work but the results are certainly worth it. The scheme organiser answered 824 email enquiries (288 in 2020 and 512 in 2019), along with dozens of enquiries via the schemes twitter account.

When the scheme was launched, providing help and assistance was one of the key aims and five years on, it is hoped that recorders appreciate the way the scheme is run in terms of the help it provides.

Finally, as always, a big thank you to everyone who has and continues to contribute to the NRS, you're contributions really are increasing our knowledge and understanding of Agromyzidae. 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;



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