

# Package ‘labelR’

January 23, 2024

**Title** Automate the Production of Custom Labels, Badges, Certificates,  
and Other Documents

**Version** 0.1.2

**Description** Create custom labels, badges, certificates  
and other documents. Automate the production of potentially large  
numbers of accreditation badges, attendance and participation certificates,  
herbarium and collection labels, etc. Documents are generated in PDF format,  
which requires a working installation of 'LaTeX', such as 'TinyTeX'.

**License** MIT + file LICENSE

**Encoding** UTF-8

**RoxygenNote** 7.2.3

**URL** <https://github.com/EcologyR/labelR/>,  
<https://ecologyr.github.io/labelR/>

**BugReports** <https://github.com/EcologyR/labelR/issues/>

**Depends** R (>= 3.5.0)

**LazyData** true

**Suggests** testthat (>= 3.0.0)

**Config/testthat/edition** 3

**Imports** rmarkdown

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**R topics documented:**

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attendance.table	<i>attendance.table</i>
------------------	-------------------------

---

**Description**

Example data to create attendance certificates

**Usage**

attendance.table

**Format**

An object of class `data.frame` with 4 rows and 1 columns.

**Details**

A data frame with the name of attendees

```

Names
Harry Potter
Hermione Granger
Neville Longbottom
Ginny Weasley

```

---

badges.table	<i>badges.table</i>
--------------	---------------------

---

**Description**

Example data to create identification badges

**Usage**

badges.table

**Format**

An object of class `data.frame` with 8 rows and 2 columns.

**Details**

List	Affiliation
Cornelius Fudge	Ministry of Magic
Rita Skeeter	The Daily Prophet
Bartemius Crouch	Magic Security Department, Ministry of Magic
Newt Scamander	Department of Magizoology (Ministry of Magic)
Garrick Ollivander	Ollivander's Wand Shop in Diagon Alley
Lily Potter	Gryffindor House (Hogwarts S.W.W.)
Peter Pettigrew	Gryffindor House (Hogwarts S.W.W.)
Sirius Black	Azkaban prisoner

---

collection.table	<i>collection.table</i>
------------------	-------------------------

---

**Description**

Example data to create collection labels

**Usage**

collection.table

**Format**

An object of class `data.frame` with 40 rows and 8 columns.

**Details**

field1	field2	field3	field4	field5
Bombus terrestris subsp. glumbumble	Apidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Item 1
Bombus terrestris subsp. glumbumble	Apidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Item 2

Bombus terrestris subsp. glumbumble	Apidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Bombus terrestris subsp. glumbumble	Apidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Amata huebneri	Erebidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Amata huebneri	Erebidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Amata huebneri	Erebidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Amata huebneri	Erebidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Arion hortensis	Arionidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Arion hortensis	Arionidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/11/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Trogssionis sp. 1	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trogssionis sp. 2	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trogssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trogssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Bombus terrestris subsp. glumbumble	Apidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Bombus terrestris subsp. glumbumble	Apidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Bombus terrestris subsp. glumbumble	Apidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Bombus terrestris subsp. glumbumble	Apidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Amata huebneri	Erebidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Amata huebneri	Erebidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Amata huebneri	Erebidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Amata huebneri	Erebidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Arion hortensis	Arionidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Arion hortensis	Arionidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/11/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Trogssionis sp. 1	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trogssionis sp. 2	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trogssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trogssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite

---

create\_attendance\_certificate

*Create certificate of attendance*

---

**Description**

Create certificate of attendance (1 certificate per DIN-A4 page)

**Usage**

```
create_attendance_certificate(
  data = NULL,
  path = NULL,
  filename = NULL,
  language = c("English", "Spanish"),
  name.column = NULL,
  type = "",
  title = "",
  date = "",
  hours = "",
  freetext = "",
  signer = "",
  signer.role = "",
  signature.pic = NULL,
  lpic = NULL,
  rpil = NULL,
  keep.files = FALSE,
  template = NULL
)
```

**Arguments**

<code>data</code>	a data frame containing attendees' names (in <code>name.column</code> )
<code>path</code>	Character. Path to folder where the PDF certificates will be saved.
<code>filename</code>	Character. Filename of the pdf. If NULL, default is "Attendance" for English, "Asistencia" for Spanish.
<code>language</code>	Character. Select 'English' or 'Spanish'.
<code>name.column</code>	Character. Name of the column in data storing attendees' name.
<code>type</code>	Character (optional). Type of event (conference, workshop, seminar...)
<code>title</code>	Character. Title of the event
<code>date</code>	Date of the event
<code>hours</code>	Number of hours the event has lasted
<code>freetext</code>	Character (optional). Free text to insert between the event title and date. Can include LaTeX commands (see examples).
<code>signer</code>	Character. Person who signs the certificate
<code>signer.role</code>	Character. Signer's role or position
<code>signature.pic</code>	Character (optional). Path to a PNG image to appear in the bottom, above signer's name.
<code>lpic</code>	Character (optional). Path to a PNG image to appear in the top-left.

rpic	Character (optional). Path to a PNG image to appear in the top-right.
keep.files	Logical. Keep the RMarkdown template and associated files in the output folder? Default is FALSE.
template	Character (optional) RMarkdown template to use. If not provided, using the default template included in labeler.

### Value

PDF certificates are saved on disk, in the folder defined by path. If keep.files = TRUE, the RMarkdown template and PNG logo files will also appear in the same folder.

### Author(s)

Ignacio Ramos-Gutierrez, Julia G. de Aledo, Francisco Rodriguez-Sanchez

### Examples

```
create_attendance_certificate(
  data = attendance.table,
  path = "labeler_output",
  language = "English",
  name.column = "Names",
  type = "class",
  title = "Potions Class",
  date = "01/01/2021",
  hours = 200,
  freetext = "organised by {\bf Hogwarts School year 1992-1993}",
  signer = "A.P.W.B. Dumbledore",
  signer.role = "School Headmaster",
  lpic = NULL,
  rpic = NULL,
  signature.pic = NULL,
)
```

---

create\_badge

*Create badges*

---

### Description

Create badges (8 badges per DIN-A4 page)

**Usage**

```
create_badge(  
  data = NULL,  
  path = NULL,  
  filename = NULL,  
  event = NULL,  
  name.column = NULL,  
  affiliation.column = NULL,  
  lpic = NULL,  
  rplic = NULL,  
  keep.files = FALSE,  
  template = NULL  
)
```

**Arguments**

data	a data frame including names and (optionally) affiliations.
path	Character. Path to folder where the PDF file will be saved.
filename	Character. Filename of the pdf. If NULL, default is "Badges".
event	Character. Title of the event.
name.column	Character. Name of the column in data storing participants' name.
affiliation.column	Character (optional). Name of the column in data storing participants' affiliation.
lpic	Character (optional) Path to a PNG image to be located in the badge top-left.
rplic	Character (optional) Path to a PNG image to be located in the badge top-right.
keep.files	Logical. Keep the RMarkdown template and associated files in the output folder? Default is FALSE.
template	Character (optional) RMarkdown template to use. If not provided, using the default template included in <code>labeledR</code> .

**Value**

A PDF file named "Badges.pdf" is saved on disk, in the folder defined by `path`. If `keep.files = TRUE`, an RMarkdown and PNG `lpic` and `rplic` files will also appear in the same folder.

**Author(s)**

Ignacio Ramos-Gutierrez, Julia G. de Aledo, Francisco Rodriguez-Sanchez

**Examples**

```
create_badge(  
  data = badges.table,  
  path = "labeledR_output",
```

```
filename = NULL,
event = "INTERNATIONAL CONFERENCE OF MUGGLEOLOGY",
name.column = "List",
affiliation.column = "Affiliation",
lpic = NULL,
rpic = NULL)
```

---

create\_collection\_label

*Create collection labels*

---

### Description

Create collection labels (8 labels per DIN-A4 page)

### Usage

```
create_collection_label(
  data = NULL,
  path = NULL,
  filename = NULL,
  qr = NULL,
  field1.column = NULL,
  field2.column = NULL,
  field3.column = NULL,
  field4.column = NULL,
  field5.column = NULL,
  logo = NULL,
  bgcolor = "D0ECC1",
  textcolor = "1E3F20",
  keep.files = FALSE,
  template = NULL
)
```

### Arguments

data	a data frame. Each row contains the information by species that will appear in the label.
path	Character. Path to folder where the PDF file will be saved.
filename	Character. Filename of the pdf. If NULL, default is "Collection_label".
qr	String. Free text or column of data that specifies the link for the QR code. If the specified value of qr is not a column name of data, all the QRs will be equal, pointing to the same link.
field1.column	Character (optional). Name of the column in data storing the first free text to appear at the top of the label.



field2.column	Character (optional). Name of the column in data storing the second free text to appear below field1.
field3.column	Character (optional). Name of the column in data storing the third free text to appear below field2.
field4.column	Character (optional). Name of the column in data storing the fourth free text to appear below field3.
field5.column	Character (optional). Name of the column in data storing the fifth free text to appear below field4.
logo	Character (optional) Path to a PNG image to be located in the label bottom.
bgcolor	HTML color for label background. Default is D0ECC1
textcolor	HTML color for label text. Default is 1E3F20
keep.files	Logical. Keep the RMarkdown template and associated files in the output folder? Default is FALSE.
template	Character (optional) RMarkdown template to use. If not provided, using the default template included in labeleR.

### Value

A PDF file named "Collection\_label.pdf" is saved on disk, in the folder defined by path. If keep.files = TRUE, an RMarkdown and PNG logo files will also appear in the same folder.

### Author(s)

Ignacio Ramos-Gutierrez, Julia G. de Aledo, Francisco Rodriguez-Sanchez

### Examples

```
create_collection_label(  
  data = collection.table,  
  path = "labeler_output",  
  qr = "QR_code",  
  field1.column = "field1",  
  field2.column = "field2",  
  field3.column = "field3",  
  field4.column = "field6",  
  field5.column = "field7"  
)
```

---

`create_herbarium_label`*Create herbarium labels*

---

**Description**

Create herbarium labels (4 labels per DIN-A4 page)

**Usage**

```
create_herbarium_label(  
  data = data,  
  path = NULL,  
  filename = NULL,  
  title = NULL,  
  subtitle = NULL,  
  qr = NULL,  
  family.column = NULL,  
  taxon.column = NULL,  
  author.column = NULL,  
  det.column = NULL,  
  date.det.column = NULL,  
  location.column = NULL,  
  area.description.column = NULL,  
  latitude.column = NULL,  
  longitude.column = NULL,  
  elevation.column = NULL,  
  field1.column = NULL,  
  field2.column = NULL,  
  field3.column = NULL,  
  collector.column = NULL,  
  collection.column = NULL,  
  assistants.column = NULL,  
  date.column = NULL,  
  keep.files = FALSE,  
  template = NULL  
)
```

**Arguments**

<code>data</code>	a data frame. Each row contains the information by species that will appear in the label.
<code>path</code>	Character. Path to folder where the PDF file will be saved.
<code>filename</code>	Character. Filename of the pdf. If NULL, default is "Herbarium".
<code>title</code>	Main title at the top of the labels. Can be blank if set to NULL.
<code>subtitle</code>	Subtitle at the bottom of the labels. Can be blank if set to NULL.

qr	String. Free text or column of data that specifies the link for the QR code. If the specified value of qr is not a column name of data, all the QRs will be equal, pointing to the same link.
family.column	Character (optional). Name of the column in data storing the family of the taxon.
taxon.column	Character (optional). Name of the column in data storing the taxon name.
author.column	Character (optional). Name of the column in data storing the taxon author.
det.column	Character (optional). Name of the column in data storing the determiner of the voucher.
date.det.column	Character (optional). Name of the column in data storing the date when the voucher was determined.
location.column	Character (optional). Name of the column in data storing where the voucher was collected.
area.description.column	Character (optional). Name of the column in data storing the description of the area.
latitude.column	Character (optional). Name of the column in data storing the latitude where the specimen was collected.
longitude.column	Character (optional). Name of the column in data storing the longitude where the specimen was collected.
elevation.column	Character (optional). Name of the column in data storing the elevation where the specimen was collected.
field1.column	Character (optional). Name of the column in data storing the first free text to appear at the top of the label.
field2.column	Character (optional). Name of the column in data storing the second free text to appear below field1.
field3.column	Character (optional). Name of the column in data storing the second free text to appear below field2.
collector.column	Character (optional). Name of the column in data storing the name of the collector.
collection.column	Character (optional). Name of the column in data storing the voucher's collection number.
assistants.column	Character (optional). Name of the column in data storing the names of the collector's assistants.
date.column	Character (optional). Name of the column in data storing the date when the specimen was collected.
keep.files	Logical. Keep the RMarkdown template and associated files in the output folder? Default is FALSE.

template            Character (optional) RMarkdown template to use. If not provided, using the default template included in labeleR.

### Value

A pdf file with four herbarium labels per page within an 'output' folder.

### Author(s)

Ignacio Ramos-Gutierrez, Julia G. de Aledo, Francisco Rodriguez-Sanchez

### Examples

```
create_herbarium_label (
  data = herbarium.table,
  path = "labeleR_output",
  title = "Magical flora of the British Isles",
  subtitle = "Project: Eliminating plant blindness in Hogwarts students",
  qr = "QR_code",
  family.column = "Family",
  taxon.column = "Taxon",
  author.column = "Author",
  det.column = "det",
  date.det.column = "Det_date",
  location.column = "Location",
  latitude.column = "Latitude",
  longitude.column = "Longitude",
  elevation.column = "Elevation",
  field1.column = "life_form",
  field3.column = "Height",
  collector.column = "Collector",
  collection.column = "Collection_number",
  assistants.column = "Assistants",
  date.column = "Date"
)
```

---

create\_participation\_certificate  
*Create certificate of participation*

---

### Description

Create certificate of participation (1 certificate per DIN-A4 page)

**Usage**

```

create_participation_certificate(
  data = NULL,
  path = NULL,
  filename = NULL,
  language = c("English", "Spanish"),
  name.column = NULL,
  affiliation.column = NULL,
  comm.type.column = NULL,
  title.column = NULL,
  date.column = NULL,
  type = "",
  event = "",
  freetext = "",
  signer = "",
  signer.role = "",
  signature.pic = NULL,
  lpic = NULL,
  rpil = NULL,
  keep.files = FALSE,
  template = NULL
)

```

**Arguments**

<code>data</code>	A data frame containing participants' names and contributions.
<code>path</code>	path Character. Path to folder where the PDF certificates will be saved.
<code>filename</code>	Character. Filename of the pdf. If NULL, default is "Participation" for English, "Participacion" for Spanish.
<code>language</code>	Character. Select 'English' or 'Spanish'.
<code>name.column</code>	Character. Name of the column in data storing participants' name.
<code>affiliation.column</code>	Character (optional). Name of the column in data storing participants' affiliation
<code>comm.type.column</code>	Character. Name of the column in data reporting participation type (e.g. poster, oral communication, etc)
<code>title.column</code>	Character. Name of the column in data storing the title of the contribution.
<code>date.column</code>	Character. Name of the column in data storing dates of participation.
<code>type</code>	Character (optional). Type of event (conference, workshop, seminar...)
<code>event</code>	Character. Title of the event
<code>freetext</code>	Character (optional). Free text to insert before the date. Can include LaTeX commands (see examples).
<code>signer</code>	Character. Person who signs the certificate
<code>signer.role</code>	Character. Signer's role or position

signature.pic	Character (optional) Path to a PNG image to appear in the bottom, above signer's name.
lpic	Character (optional) Path to a PNG image to appear in the top-left.
rpic	Character (optional) Path to a PNG image to appear in the top-right.
keep.files	Logical. Keep the RMarkdown template and associated files in the output folder? Default is FALSE.
template	Character (optional) RMarkdown template to use. If not provided, using the default template included in labeleR.

**Value**

PDF certificates are saved on disk, in the folder defined by path. If keep.files = TRUE, the RMarkdown template and PNG logo files will also appear in the same folder.

**Author(s)**

Ignacio Ramos-Gutierrez, Julia G. de Aledo, Francisco Rodriguez-Sanchez

**Examples**

```
create_participation_certificate(
  data = participation.table,
  path = "labeler_output",
  language = "Spanish",
  name.column = "Name",
  affiliation.column = "House",
  comm.type.column = "Comm.type",
  title.column = "Title",
  date.column = "Date",
  type = "online seminar",
  event = "Hogwarts School of Witchcraft and Wizardry",
  freetext = "which lasted 2 hours",
  signer = "A.P.W.B. Dumbledore",
  signer.role = "School Headmaster",
  lpic = NULL,
  rpic = NULL,
  signature.pic = NULL
)
```

---

create\_tiny\_label      *Create tiny labels*

---

**Description**

Create tiny labels (16 labels per DIN-A4 page)

**Usage**

```
create_tiny_label(  
  data = NULL,  
  qr = NULL,  
  path = NULL,  
  filename = NULL,  
  field1.column = NULL,  
  field2.column = NULL,  
  field3.column = NULL,  
  field4.column = NULL,  
  field5.column = NULL,  
  keep.files = FALSE,  
  template = NULL  
)
```

**Arguments**

<code>data</code>	a data frame including information of a species
<code>qr</code>	String. Free text or column of data that specifies the link for the QR code. If the specified value of <code>qr</code> is not a column name of <code>data</code> , all the QRs will be equal, pointing to the same link.
<code>path</code>	Character. Path to folder where the PDF file will be saved.
<code>filename</code>	Character. Filename of the pdf. If <code>NULL</code> , default is "Tiny_label".
<code>field1.column</code>	Character (optional). Name of the column in <code>data</code> storing the first free text to appear at the top of the label.
<code>field2.column</code>	Character (optional). Name of the column in <code>data</code> storing the second free text to appear below <code>field1</code> .
<code>field3.column</code>	Character (optional). Name of the column in <code>data</code> storing the third free text to appear below <code>field2</code> .
<code>field4.column</code>	Character (optional). Name of the column in <code>data</code> storing the fourth free text to appear below <code>field3</code> .
<code>field5.column</code>	Character (optional). Name of the column in <code>data</code> storing the fifth free text to appear below <code>field4</code> .
<code>keep.files</code>	Logical. Keep the RMarkdown template and associated files in the output folder? Default is <code>FALSE</code> .
<code>template</code>	Character (optional) RMarkdown template to use. If not provided, using the default template included in <code>labeler</code> .

**Value**

A PDF file named "Tiny\_label.pdf" is saved on disk, in the folder defined by `path`. If `keep.files = TRUE`, an RMarkdown file will also appear in the same folder.

**Author(s)**

Ignacio Ramos-Gutierrez, Julia G. de Aledo, Francisco Rodriguez-Sanchez

**Examples**

```
create_tiny_label(
  data = tiny.table,
  qr = "QR_code",
  path = "labeler_output",
  field1.column = "field1",
  field2.column = "field2",
  field3.column = "field3",
  field4.column = "field4",
  field5.column = "field5"
)
```

---

herbarium.table      *herbarium.table*

---

**Description**

Example data to create herbarium labels

**Usage**

herbarium.table

**Format**

An object of class `data.frame` with 6 rows and 19 columns.

**Details**

ID	Collector	Collection_number	Assistants	Family	Taxon
1	Hermione Granger	2	Sprout, P., Potter, H., Weasley, R.	SOLANACEAE	Mandragora officinarum
2	Ron Weasley	5	Potter, H.	SALICACEAE	Salix muhammadalii
3	Dobby H.E.	1	Winky H.E.	Zosteraceae	Zostera phycobranche
4	Pomona Sprout	1990-301a	Dumbledore, A.	Suffocaceae	Lucifericaptia obscura
5	Luna Lovegood	5	Xenophilius Lovegood	rosaceae	Prunus zeppelin
6	Algie Longbottom	3	Longbottom, N.	Mimbulaceae	Mimulus mimbletonia

---

participation.table      *participation.table*

---



**Description**

Example data to create participation certificates

**Usage**

participation.table

**Format**

An object of class data.frame with 4 rows and 5 columns.

**Details**

Name	Date	Title	Comm.type
Severus Snape	01/01/1993	Advanced potions with more than six plants	oral communication
Minerva McGonagall	01/01/1994	From cat to ape: transformations in the XX century	poster
Alastor Moody	01/01/1995	Disentangling the three unforgivable curses	poster
Rubeus Hagrid	01/01/1996	Why is your hippogriff not flying? Insights on flight efficiency	oral communication

---

tiny.table                      *tiny.table*

---

**Description**

Example data to create tinylabels

**Usage**

tiny.table

**Format**

An object of class data.frame with 40 rows and 8 columns.

**Details**

field1	field2	field3	field4	field5
Bombus terrestris subsp. glumbumble	Apidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Italy
Bombus terrestris subsp. glumbumble	Apidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Italy
Bombus terrestris subsp. glumbumble	Apidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Italy
Bombus terrestris subsp. glumbumble	Apidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Italy
Amata huebneri	Erebidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Italy
Amata huebneri	Erebidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Italy

Amata huebneri	Erebidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Amata huebneri	Erebidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Arion hortensis	Arionidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Arion hortensis	Arionidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/11/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Trogssionis sp. 1	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trogssionis sp. 2	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trogssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trogssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Bombus terrestris subsp. glumbumble	Apidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Bombus terrestris subsp. glumbumble	Apidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Bombus terrestris subsp. glumbumble	Apidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Bombus terrestris subsp. glumbumble	Apidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Amata huebneri	Erebidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Amata huebneri	Erebidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Amata huebneri	Erebidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Amata huebneri	Erebidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Arion hortensis	Arionidae	01/09/1992	Great Yarmouth, Norwich, United Kingdom	Ite
Arion hortensis	Arionidae	13/11/1992	Cargan, Antrim Glens, Northern Ireland.	Ite
Arion hortensis	Arionidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	05/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	01/09/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/11/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Acromantula gigantea	Macroaranidae	13/12/1992	Hogwarts Gardens, Hogsmeade, Scotland (UK)	Ite
Trogssionis sp. 1	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trogssionis sp. 2	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trogssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite
Trogssionis schetelonica	Canellae	10/5/23	Grazalema mountain range (Cadiz, Spain)	Ite

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