

Using QPweb (Quantitative Parasitology)

1. Download following trial files from the audiseco repository on Github:

https://raw.githubusercontent.com/anyadoc/audiseco/main/pond1_trial.csv

https://raw.githubusercontent.com/anyadoc/audiseco/main/pond2_trial.csv


2. Link: <http://www.zoologia.hu/qp/qp.html>
3. Select QPweb

⚠ Not secure zoologia.hu/qp/qp.html

Quantitative Parasitology on the Web (QPweb)

This interactive web surface provides statistical tools to analyze and compare the highly aggregated (right-skewed) frequency distributions exhibited by parasites. Some other tools, like estimation of true species richness and sex-ratios are also available.


A former version of this software, QP3.0, is bit outdated and it comes with fewer functions. You can still download it below, although we recommend you to abandon it and switch to QPweb very soon.


 Select QPweb

Quantitative Parasitology 3.0


This software provides statistical tools to analyze and compare the highly aggregated (right-skewed) frequency distributions exhibited by parasites. However, it can handle only monotypic (single species) infections.

WARNING! This software is not up to date, and we recommend using it only as a secondary choice. Also, this version's "aggregation indices" module does not work under Win10, only under former versions of Windows (like Win7).

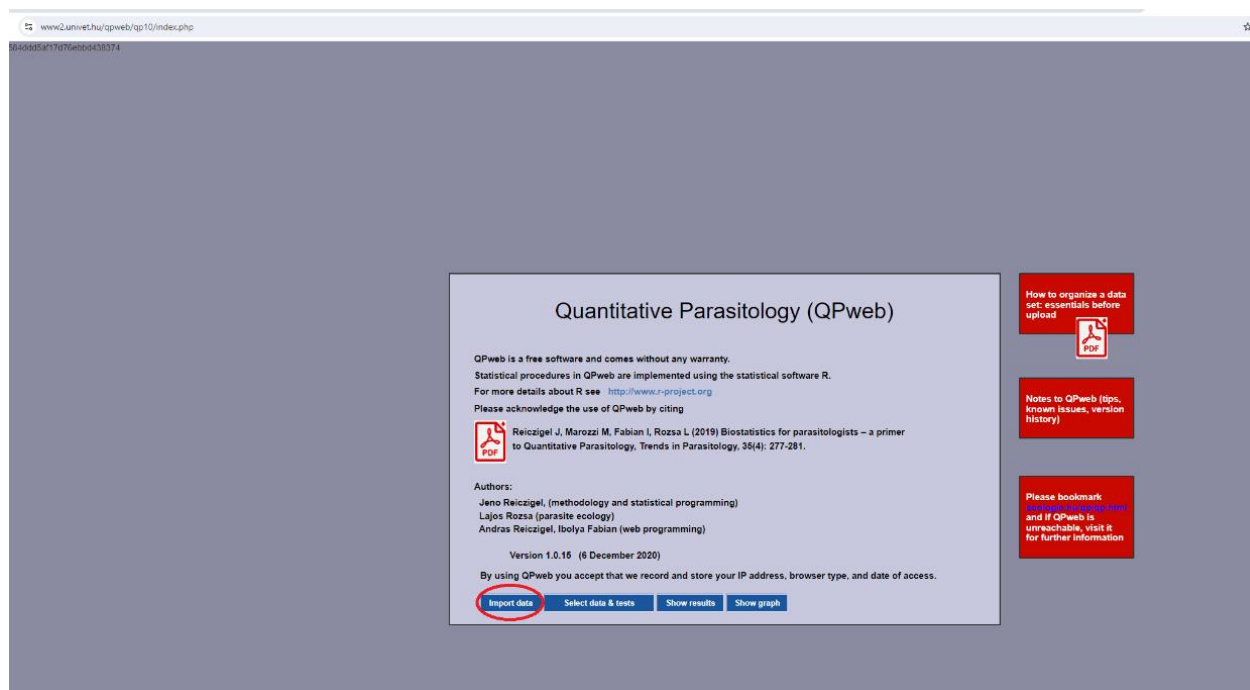
QP3.0 download: 

Find a brief guide here: 

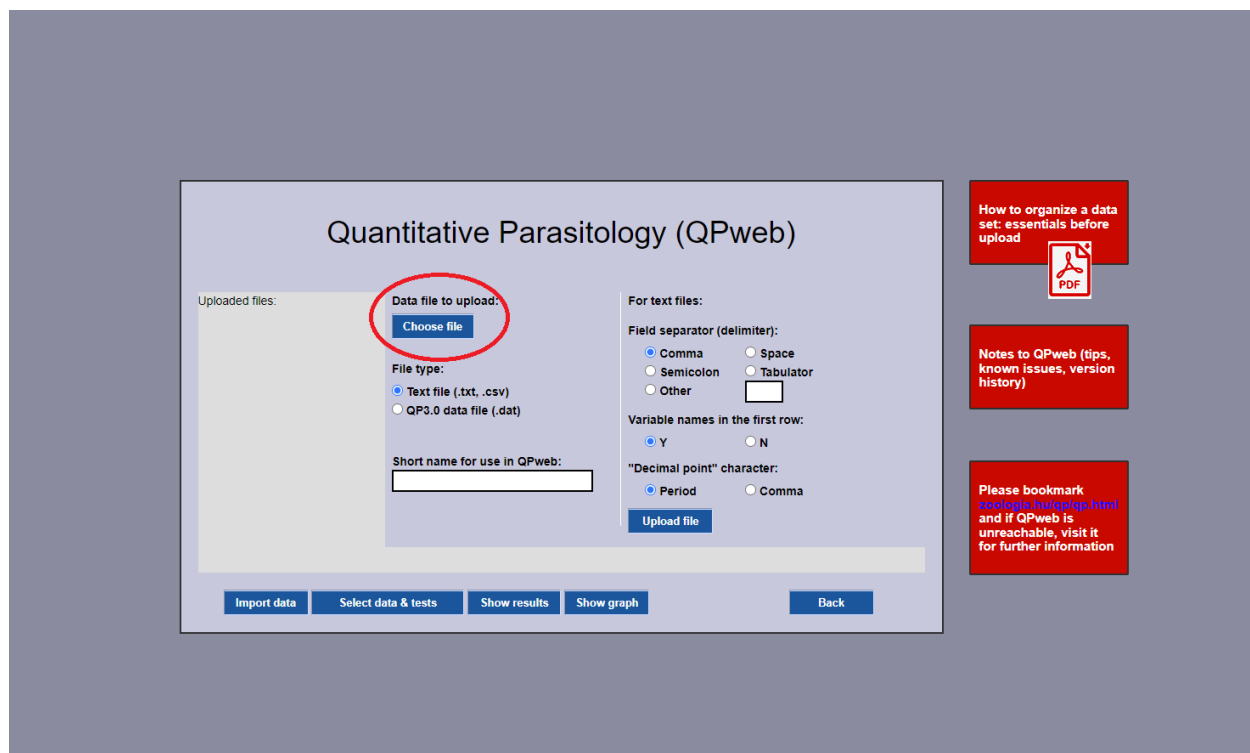
All versions of Quantitative Parasitology are free for distribution and use in education and science. However, we ask users to acknowledge our biostatistical research and development efforts by citing our recent review:

 Reiczigél J, Marozzi M, Fábián I, Rózsa L 2019.
Biostatistics for parasitologists – a primer to Quantitative Parasitology.
Trends in Parasitology 35 (4): 277-281.

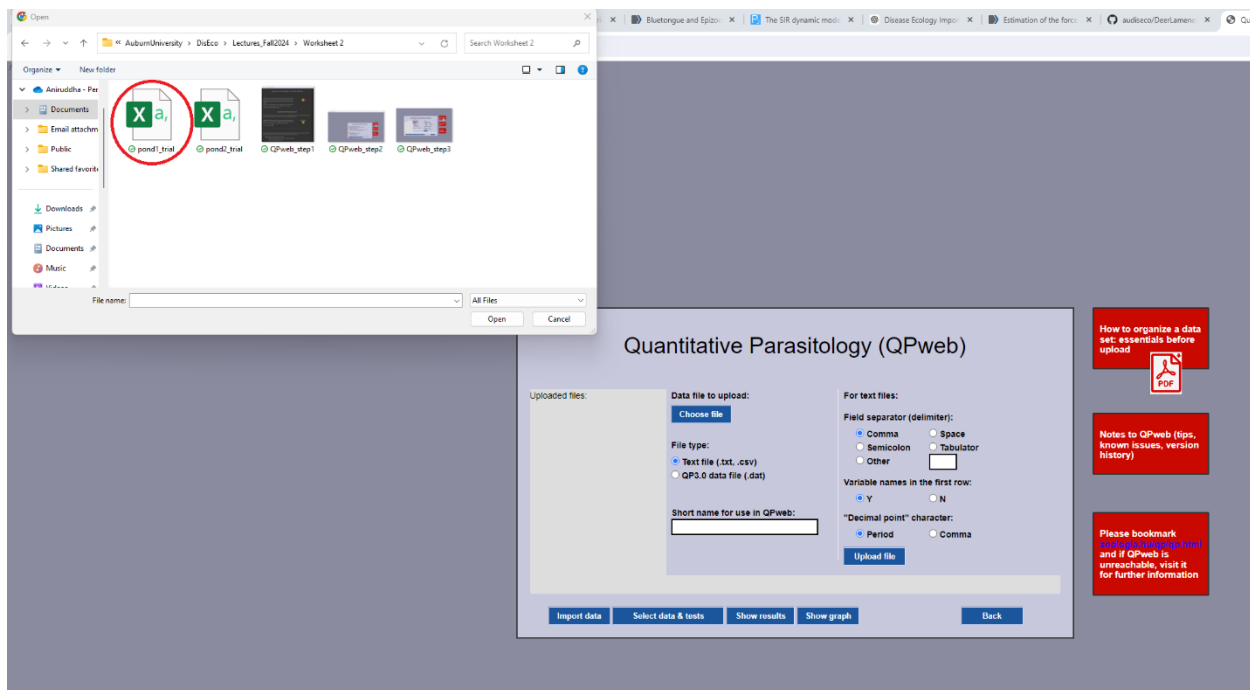
4. Click on 'Import data'



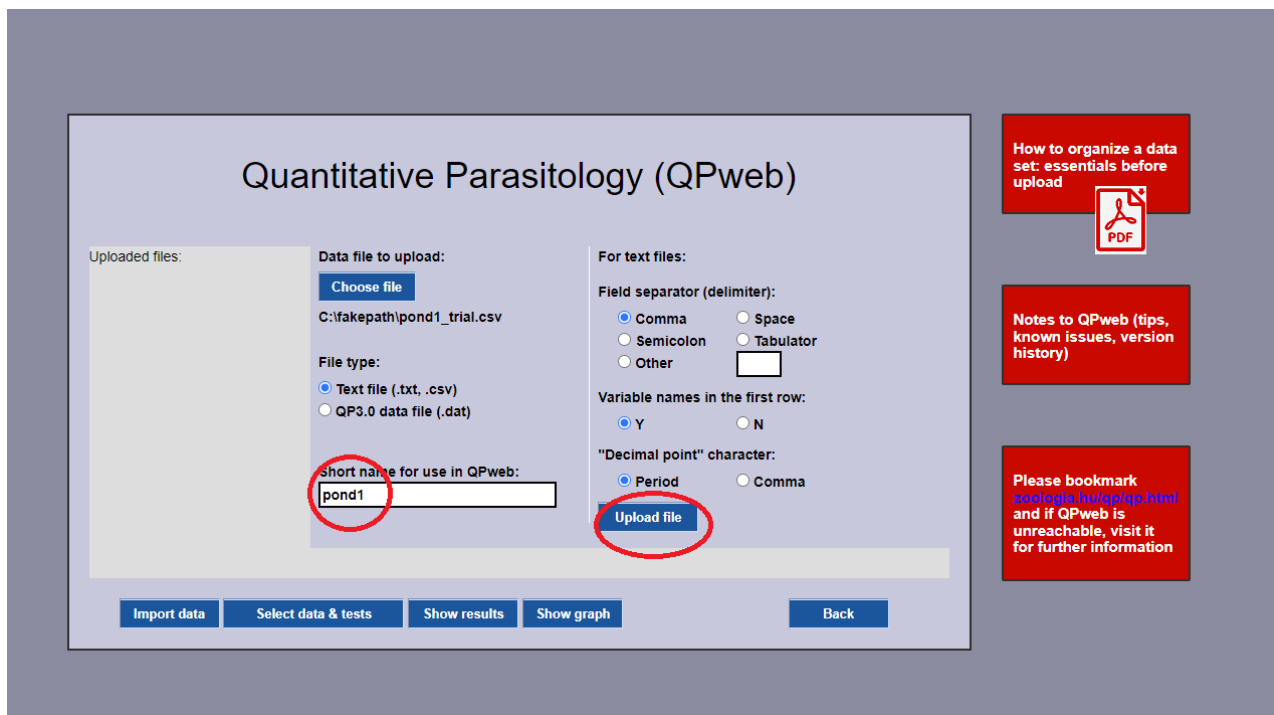
5. Choose file



6. Select the first file



7. Provide a short name for the file and click Upload file



8. Upload the second file

Quantitative Parasitology (QPweb)

Uploaded files:
pond1
pond2

Data file to upload:
Choose file

File type:
☒ Text file (.txt, .csv)
☐ QP3.0 data file (.dat)

Short name for use in QPweb:

For text files:
Field separator (delimiter):
☒ Comma ☐ Space
☐ Semicolon ☐ Tabulator
☐ Other

Variable names in the first row:
☒ Y ☐ N

"Decimal point" character:
☒ Period ☐ Comma

Upload file

Upload successful. You can upload further files too.

Import data

Select data & tests

Show results

Show graph

Back

How to organize a data set: essentials before upload

Notes to QPweb (tips, known issues, version history)

Please bookmark zoologia.hu/qp/qp.html and if QPweb is unreachable, visit it for further information

9. Click 'Select data & tests'

Quantitative Parasitology (QPweb)

Uploaded files:
pond1
pond2

Data file to upload:
Choose file

File type:
☒ Text file (.txt, .csv)
☐ QP3.0 data file (.dat)

Short name for use in QPweb:

For text files:
Field separator (delimiter):
☒ Comma ☐ Space
☐ Semicolon ☐ Tabulator
☐ Other

Variable names in the first row:
☒ Y ☐ N

"Decimal point" character:
☒ Period ☐ Comma

Upload file

Upload successful. You can upload further files too.

Import data

Select data & tests

Show results

Show graph

Back

How to organize a data set: essentials before upload

Notes to QPweb (tips, known issues, version history)

Please bookmark zoologia.hu/qp/qp.html and if QPweb is unreachable, visit it for further information

4

10. Select the 1st file and check the Sterne's method for prevalence; start analysis

Quantitative Parasitology (QPweb)

Select data column(s)

pond1

vertico

pond2

vertico

Press the **CTRL** key to select multiple files

Select procedure(s)

☐ Descriptive statistics

☐ Confidence int. for prevalence (traditional Clopper-Pearson CI)

☐ Confidence int. for prevalence (older's method, shorter CI)

☒ Confidence int. for prevalence (Sterne's method, shorter CI)

Confidence level (%) : 95

☐ Confidence interval for the mean intensity (Bootstrap BCa)

☐ Confidence interval for the median intensity

☐ Confidence interval for the mean abundance (Bootstrap BCa)

☐ Confidence interval for the mean crowding (Bootstrap BCa)

Start analysis

Import data
Select data & tests
Show results
Show graph
Back

How to organize a data set: essentials before upload

Notes to QPweb (tips, known issues, version history)

Please bookmark [zooqin.hu/qp.html](https://doi.org/10.1007/s00180-020-00986-0) and if QPweb is unreachable, visit it for further information

11. Note the prevalence and lower/upper 95% CL

Quantitative Parasitology (QPweb)

<https://doi.org/10.1007/s00180-020-00986-0>

QPweb Mon Sep 9 04:10:28 2024

Exact confidence limits for the prevalence (Sterne's method, new algorithm)

Confidence level = 95%

	N	Infected	Prev.	Lower CL	Upper CL
pond1\$vertico	20	6	0.300	0.140	0.525

For reference:
Klaschka J, Reiczigel J (2020) Computational Statistics,
<https://doi.org/10.1007/s00180-020-00986-0>

Results are preserved here until you close the browser. To save them, copy and paste results from here.

Import data
Select data & tests
Show results
Show graph
Back

How to organize a data set: essentials before upload

Notes to QPweb (tips, known issues, version history)

Please bookmark [zooqin.hu/qp.html](https://doi.org/10.1007/s00180-020-00986-0) and if QPweb is unreachable, visit it for further information

12. Select both files (use the ctrl key to make the selection); check Fisher's exact test for comparing prevalence.

The screenshot shows the QPweb interface with the following elements:

- Select data column(s):** A list box containing 'pond1' and 'pond2'. Below it, 'vertico' is selected for both, with a red circle around the selection and a note: "Select both files by pressing 'ctrl' key".
- Select procedure(s):** A list box with various statistical tests. 'Comparison of prevalences (Fisher's exact test)' is selected with a red circle.
- Start analysis:** A red button at the bottom right of the main panel.
- Buttons:** 'Import data', 'Select data & tests', 'Show results', 'Show graph', and 'Back' are located at the bottom.
- Sidebars:**
 - Top right: "How to organize a data set: essentials before upload" with a PDF icon.
 - Middle right: "Notes to QPweb (tips, known issues, version history)".
 - Bottom right: "Please bookmark [zooenrichingqp.html](\"#\") and if QPweb is unreachable, visit it for further information".

13. Note the p value: p-value less than or equal to 0.05 indicates that the difference is statistically significant and not due to chance.

The screenshot shows the QPweb interface displaying the results of the Fisher's exact test. The results are as follows:

	N	Infected	Non-inf.	Prev. %
pond1\$vertico	20	6	14	30.0
pond2\$vertico	15	1	14	6.7

Two-sided p-value: 0.1987

Results are preserved here until you close the browser. To save them, copy and paste results from here.

The interface includes the same navigation buttons as the previous screenshot: 'Import data', 'Select data & tests', 'Show results', 'Show graph', and 'Back'.