

MOSQUITONET INSECTICIDE RESISTANCE SPREADSHEET USER'S GUIDE VERSION 1.5.2



CENTERS FOR DISEASE CONTROL AND PREVENTION
DIVISION OF VECTOR-BORNE DISEASES



Centers for Disease Control and Prevention
CDC 24/7: Saving Lives, Protecting People™

FEBRUARY 17, 2017

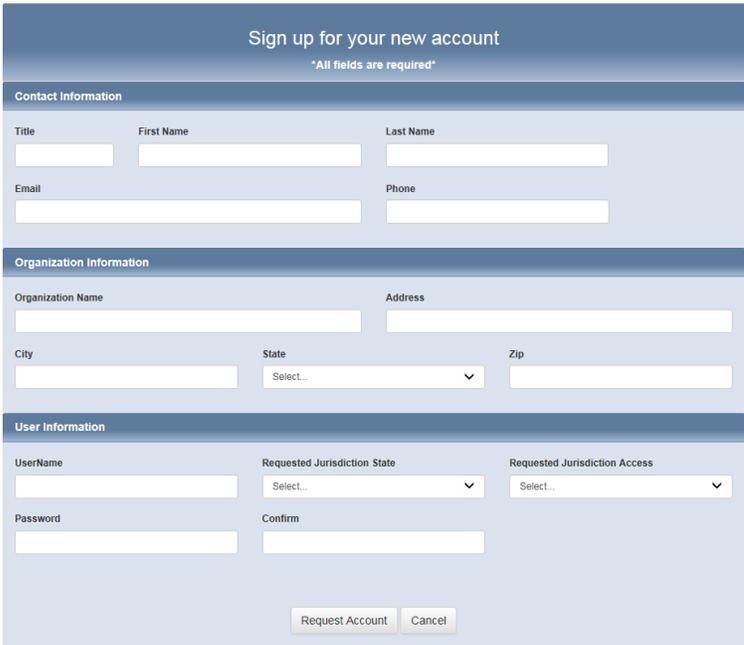
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GETTING STARTED

Set up an account on the MosquitoNET website: <https://wwwn.cdc.gov/Arbonet/MosquitoNET/>. You will be prompted to set up a user name and password, along with contact information and organization information. You will also be prompted for a jurisdiction state and which jurisdiction you want access to. Once you select "Request Account," your information will be sent to CDC for approval. In order to obtain approval, the requested jurisdiction state must have notified CDC that you will be a user for that particular jurisdiction. When your account has been approved, you will receive an e-mail. After receiving this email, you can access the website using the username and password you created. Note that:

- After three failed login attempts, your account will be locked.
- If you do not remember your password, use the "Reset your password" link on the login screen. You will need your user name to do this. If you do not remember your user name, please contact us at mosquito@cdc.gov.



The screenshot shows the "Sign up for your new account" form on the MosquitoNET website. The form is titled "Sign up for your new account" and includes a note: "*All fields are required*". The form is divided into three main sections: Contact Information, Organization Information, and User Information. At the top left of the page, there is a header "MOSQUITONET ONLINE V1.0.1" with a small mosquito icon.

Contact Information

Title First Name Last Name

Email Phone

Organization Information

Organization Name Address

City State Zip

User Information

UserName Requested Jurisdiction State Requested Jurisdiction Access

Password Confirm

If you are having any technical problems or if you have questions about data entry, please contact us by email: mosquito@cdc.gov.

Downloading Spreadsheets

The MosquitoNET database allows for you to add, export and edit mosquito surveillance and insecticide resistance records for locations in the United States and its jurisdictions. When you login, you will be taken to the home page. From the home page, a download link for the insecticide resistance template spreadsheet is provided. To download, click "Download Mosquito Resistance Template," and select the location in your computer's file system where you want to save the spreadsheet.

If you are having any technical problems or if you have questions about data entry, please contact us by email: mosquito@cdc.gov.

Welcome to the CDC MosquitoNET online application

MosquitoNET Data Tools

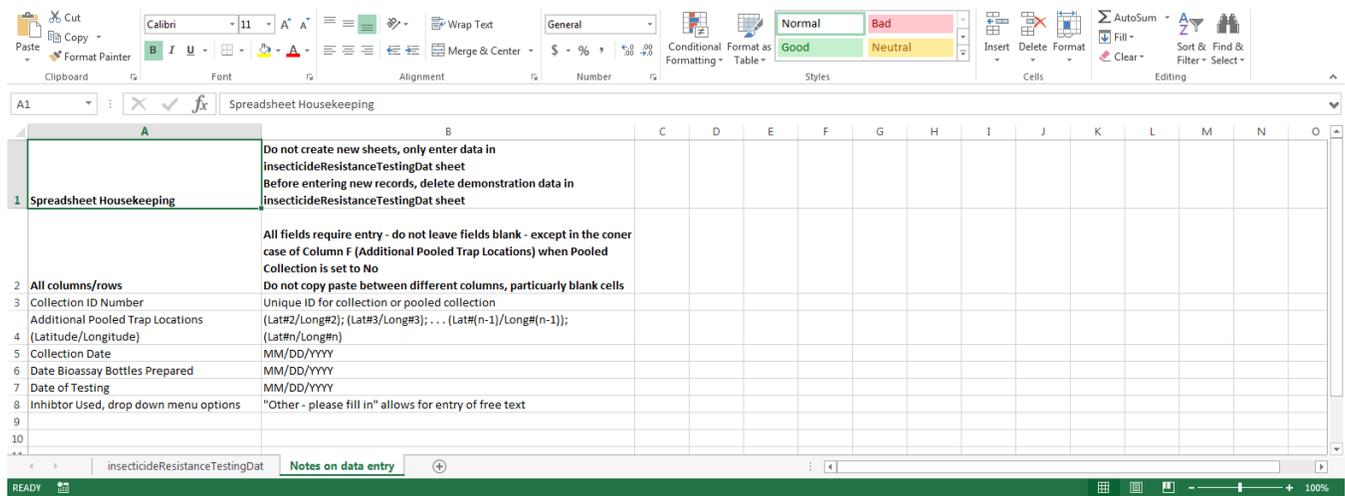
- View/Add/Edit MosquitoNET Data
- Download Mosquito Resistance Template
- Download Mosquito Surveillance Template
- Upload MosquitoNET Data

Profile and Reference Tools

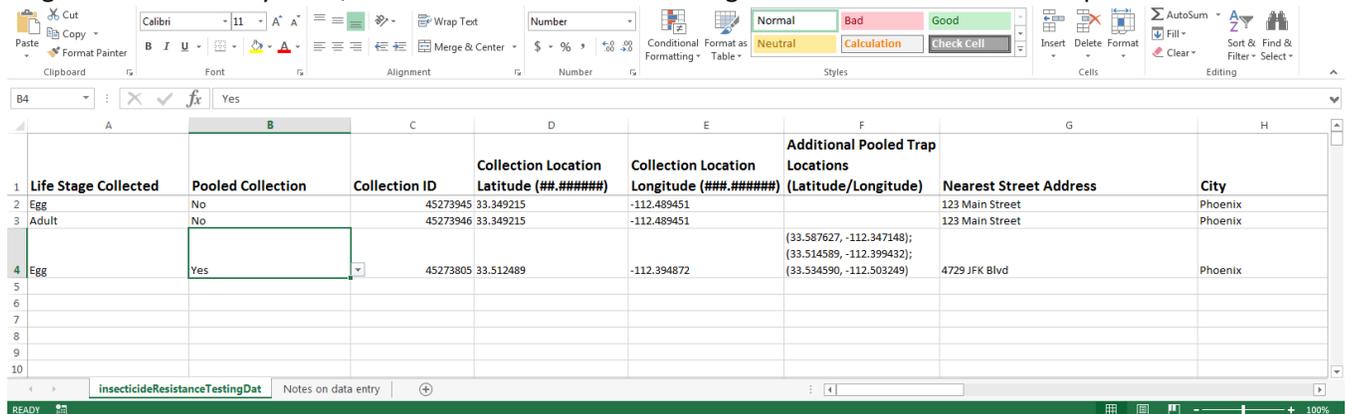
- Download XLSX Schema Description
- Download XLSX Lookups
- Download Web User Guide
- Update my Password
- Update my Profile
- Logout

Entering Data for the First Time

When opening the spreadsheet for the first time, a few quick notes on data entry are displayed.



To get to the data entry sheet, click “insecticideResistanceTestingDat” in the bottom left of the spreadsheet.



In this sheet, some demonstration data will be pre-populated to illustrate correct data entry. After gaining familiarity with the fields, **PLEASE DELETE THE PRE-POPULATED RECORDS ON THE TOP ROWS BEFORE ENTERING NEW RECORDS.**

If you are having any technical problems or if you have questions about data entry, please contact us by email: mosquito@cdc.gov.

The accepted entries for each field are discussed in the field definitions section of this document. Best practices for data entry in the spreadsheet are:

- Enter all data in the insecticideResistanceTestingDat sheet, do not create new sheets in the excel file.
- Fill out columns left to right. Several dropdowns are populated based on data in columns to their left.
- **DELETE THE PRE-POPULATED RECORDS ON THE TOP ROWS BEFORE ENTERING NEW RECORDS.**
- Copy/pasting within the same column, or an entire row for quick data entry is encouraged. However, **DO NOT COPY/PASTE BETWEEN COLUMNS, EVEN BLANK CELLS. THIS WILL BREAK THE SPREADSHEET'S BUILT-IN VALIDATION.**
- **DATA ENTRY IN EACH COLUMN IS REQUIRED.** The only exception to this being that Additional Pooled Trap Locations should be left blank when the value for Pooled Collection is No.

For pooled collections, enter the latitude and longitude of one of the locations in the pool in the Collection Location Latitude and Collection Location Longitude fields respectively. Enter the rest of the locations used for pooling as a latitude-longitude pair in the Additional Pooled Trap Locations section. Please try to enter a street address which best represents the center of the pooling area. Row 4 of the pre-populated demonstration data gives an example of how to enter a pooled collection record.

FIELD DEFINITIONS

Each row in the spreadsheet should have entries for the 25 columns defined across the header. This section provides the accepted and encouraged data for entry in each of these fields. Several of the fields provide a drop down of available options. The list of options that should be included in these drop downs is given in the MosquitoNET XLSX Schema Description Document.

Life Stage Collected – The original life stage collected. Must be selected from drop-down list of available options.

Pooled Collection – An indicator whether the mosquito collection tested is pooled from multiple geographic collection locations. The drop-down list provides the option to select Yes or No.

Collection ID – A unique identifier for the collection. Free text entry is accepted.

Collection Location Latitude – GPS Latitude of the location where the original collection was made. Decimal entries between -14.500000° and 49.500000° with six digits after the decimal point are accepted.

Collection Location Longitude – GPS Longitude of the location where the original collection was made. Decimal entries between -64.000000° and -180.000000° or between 144.000000° and 180.000000° with six digits after the decimal point are accepted.

Additional Pooled Trap Locations – Any additional GPS Latitude/Longitude pairs used in mosquito pool. Leave this field blank if the test was not done on a pooled collection. Encouraged format is: (Lat#2, Long#2); (Lat#3, Long#3); . . . (Lat#(n-1),Long#(n-1)); (Lat#n, Long#n).

Nearest Street Address – The nearest street address to the collection location. Free text entry is accepted.

City – The city where the collection site is located. Free text entry is accepted.

State – The two character State code for the state where the collection site is located. Must be selected from drop-down list of available options.

County – The County where the collection site is located. A drop-down list of counties is provided based upon the entry in the state field. The entry for County must be one of the options in the drop-down list.

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Collection Date – The date that the original collection was made. Accepted entries are in any of the following formats: MM/DD/YYYY, MM/DD/YY, MM-DD-YYYY, MM-DD-YY. Dates must be after the start of 2016 and not in the future.

Genus – The genus of the mosquitoes tested. Must be selected from drop-down list of available options.

Species – The species of the mosquitoes tested. A drop-down list is populated based on the selected Genus. Must be selected from this drop-down list.

Mosquito Generation Tested – The generation of the mosquitoes from this collection that underwent testing. Must be selected from drop-down list of available options.

Date Bioassay Bottles Prepared – The date that the bioassay bottles were prepared for testing. Accepted entries are in any of the following formats: MM/DD/YYYY, MM/DD/YY, MM-DD-YYYY, MM-DD-YY. Dates must be after the start of 2016 and not in the future.

Date of Testing – The date on which the insecticide resistance testing occurred. Accepted entries are in any of the following formats: MM/DD/YYYY, MM/DD/YY, MM-DD-YYYY, MM-DD-YY. Dates must be no earlier than Collection Date and not in the future.

Time Between Bioassay Preparation and Testing – The duration of time that passed between preparing the bioassay bottle and beginning the test. Must be selected from drop-down list of provided options.

Active Ingredient Tested – The insecticide active ingredient tested. Must be selected from drop-down list of available options.

Concentration Tested – The concentration of active ingredient tested, in units of µg/bottle. Accepted entries are decimal values with two digits after the decimal point.

Inhibitor Used – The inhibitor used in this test. Must be selected from drop-down list of available options.

Diagnostic Time – The diagnostic time in minutes used for this test. Accepted values are integers between 0 and 120.

of Mosquitoes Tested – The number of mosquitoes used in this test. Accepted values are positive integers.

Percent Mortality at Diagnostic Time – Percent of mosquitoes tested that reached mortality at the diagnostic time. Accepted entries are decimal values between 0 and 100 with two digits after the decimal point.

Number of Minutes Bioassay Test Run – The length of time in minutes that the bioassay test was run. Accepted values are integers between 0 and 120.

Percent Mortality at End of Bioassay Test – Percent of mosquitoes tested that reached mortality at the end of the test. Accepted entries are decimal values between 0 and 100 with two digits after the decimal point.

UPLOADING DATA

Spreadsheets that have been populated with data can be uploaded to the MosquitoNET database using the same website, username and password from the Getting Started section of this document. To access the Upload page, click on the “UPLOAD” option across the header of the webpage. **UPLOADS ARE NOT CHECKED FOR DUPLICATE RECORDS WITHIN THE DATABASE. PLEASE ONLY UPLOAD DATA ONCE AND THEN REMOVE THOSE RECORDS FROM THE SPREADSHEET BEFORE UPLOADING AGAIN.**

If you are having any technical problems or if you have questions about data entry, please contact us by email: mosquito@cdc.gov.

Upload Data

Upload XLSX File

Test Run
 Email

0.2 MB

surveillance...

RESET

Upload Results

9 Rows Successfully Imported

Test Run: Upload does not transfer data, only tests XLSX for errors.
Email: Emails results of upload to the current user.

To upload, the spreadsheets can either be dragged into the window or an explorer window for selection can be used. After being selected, the spreadsheet undergoes a validation process. During this validation, the selected spreadsheet is double-checked to verify that it adheres to the standards specified in the MosquitoNET XLSX Schema Description Document. If the upload was successful, the green validation box pictured above appears and details how many records were added to the database. If the upload was not successful, a red box detailing the errors in the selected spreadsheet will appear. When errors occur, no data from the spreadsheet is added to the MosquitoNET database. To validate spreadsheets without any records being added to the database, place a check in the test run checkbox. To receive an email with the details of the upload, place a check in the email checkbox. When this checkbox is filled, an email is sent to the email address listed in the user’s profile.

Viewing and Modifying Records in the Database

After being uploaded, the records stored in the database can be viewed by clicking the “RESISTANCE DATA” link beneath “VIEW/ADD/EDIT” in the header of the webpage. In addition to being able to view the records, there is a search box in the upper right of the grid. You can search all records that you have uploaded.

MOSQUITONET ONLINE V1.0.1 
HOME VIEW/ADD/EDIT **UPLOAD** EXPORT LOGOUT

Surveillance
Resistance

+ Add Record
Show 10 rows

Genus	Species	Generation	DatePrepared	DateTested	IngredientTested	Concentration Tested	InhibitorUsed	Th
Aedes	aegypti	F1 - First generation in lab	08-18-2016 4:44 pm	08-19-2016	Naled	5.21	None	20
Aedes	aegypti	F1 - First generation in lab	08-18-2016 4:44 pm	08-19-2016	Naled	5.21	None	20
Aedes	aegypti	F1 - First generation in lab	08-18-2016 4:44 pm	08-19-2016	Naled	5.21	None	20
Aedes	aegypti	F1 - First generation in lab	08-18-2016 4:44 pm	08-19-2016	Naled	5.21	None	20
Aedes	aegypti	F1 - First generation in lab	08-18-2016 4:44 pm	08-19-2016	Naled	5.21	None	20
Aedes	aegypti	F1 - First generation in lab	08-18-2016 4:44 pm	08-19-2016	Naled	5.21	None	20

Showing 1 to 6 of 6 entries

Previous
1
Next

Home | Profile |

If you are having any technical problems or if you have questions about data entry, please contact us by email: mosquito@cdc.gov.

To delete a record, click on the trash can icon in the far left column. To edit a record, click on the row corresponding to that record. The record will open in an editing form that undergoes the same validation as the spreadsheet upload.

Mosquito Resistance Data

Collection Location Information ?

***State** ?

***Nearest Address** ? ***City** ?

***County** ? ***Latitude** ? ***Longitude** ?

Pooled Collection ? **Additional Pooled Traps** ?

Remove

Remove

Remove | Add Another

Collection Information ?

***Collection ID** ? ***Life Stage Collected** ?

***Genus** ? ***Species** ?

***Collection Date** ?
 

Testing Information ?

***Mosquito Generation** ?

***Date Bioassay Bottles Prepared** ? ***Date of Testing** ? ***Time Between Prep and Test**
  

***Active Ingredient** ? ***Concentration Tested (µg/bottle)** ? ***Inhibitor Used** ?

***Diagnostic Time** ? ***# Mosquitoes Tested** ? ***% Mortality at Diagnostic Time** ?

***# Minutes Bioassay Test Run** ? ***% Mortality at End Bioassay Test** ?

APPENDIX A: ADDITIONAL MOSQUITONET DOCUMENTATION

- MosquitoNET XLSX Schema Description Document
- MosquitoNET Insecticide Resistance Spreadsheet User's Guide
- MosquitoNET Web Application User's Guide

DOCUMENT VERSION TRACKING

Version	Date	Action
1.5.1	12/12/2016	Updated document to be 508 compliant.
1.5.2	2/17/2017	Added Alt Text for several screenshots, added Document Version tracking section.