Spongy Moth Trap Installation Instructions

STEP 1: GETTING YOUR TRAP READY

Video of instructions available at: https://www.jameslab.ca/spongy-moth-2023

1. **Program duration:** June – September, depending on the predicted flight period for your site. (See page 6). Please install your trap before the set-up date indicated on page 7 below.
2. **Trap Assembly:** Prepare your trap (pg. 4-5).
3. **Participant information:** Fill out the 'Contact Information' sheet (pg. 7).
4. **Hanging your trap:** Choose a location that is convenient for you. It may be desirable to hang it in an area not accessible to the public. Ideally, this would be on a branch of an oak tree (preferred host) (pg. 4). Once the trap is hung you do not have to do anything. Simply wait until the end of the predicted flight period and empty the trap as described below.

STEP 2: EMPTYING YOUR TRAP

Video of instructions available at: https://www.jameslab.ca/spongy-moth-2023

1. **Collection:** You only need to empty the trap once at the end of the flight period (see pg. 6). If there are moths in your trap at the end of the flight period, place them in the paper bag provided. Before placing the moths in the bag, please clearly fill in the label on the paper bag. Add the desiccant pack to the bag and seal it closed with the provided sticker.
2. **Reporting:** Once you have finished checking your trap, if you feel so inclined, we encourage you to count your moths and include the number included on the paper bag. Even if no moths were captured, please return the empty bag. Zero count help us to understand where SM populations are low or non-existent and will help us to guide future sampling efforts.
3. Remove and discard the pheromone lure and insecticidal strip in the garbage.

STEP 3: SENDING YOUR SAMPLES BACK TO US

Video of instructions available at: https://www.jameslab.ca/spongy-moth-2023

1. In the pre-labelled mailing envelope add:
    - Your 'Contact Information' sheet
    - The labelled paper bag containing desiccant pack and your collected samples
2. Drop off your pre-labelled mailing envelope at your nearest post office.

STEP 4: STORING YOUR TRAP

We plan on repeating this collection again in two years.

1. If you are interested in participating in the next collection round ☺:

- Wash your trap with warm soapy water and store in a cool and dry place until next collection year (we will send you a refill kit in June of that year).

2. If you are not able to participate again:
    - We will cover the return mailing costs for your kit. All you have to do is put everything (including trap, data sheets, and samples) into the original box and put the return address sticker on the outside.
    - Drop this off at the nearest Canada Post and use a Cash On Delivery (COD) method, which will be refunded to you by Canada Post once we receive the samples.

Important Notes:

- Every trap counts, whether it is full of moths or completely empty throughout the season!
- We will not provide your contact information to any outside agency. It will be used only to help us pinpoint where your trap was placed and to contact you about the project.
- If you can't put your trap up this season but have received it, please let us know.
- If you caught zero moths all season, we still want to know! 😊
- Your trap ID number is unique and is found on the trap itself. This number identifies your trap's data, so always make sure to completely fill in your information on the paper bag with the correct trap number.
- Thank you for your help!

For further information, check out our Lab website by scanning the QR Code below:

- A brief description of the spongy moth project will be outlined on the website, as well as our contact information should you have questions or concerns.
- Want something more interactive than photo instruction? **Check out the videos for trap assembly as well moth collection and sample shipping!**

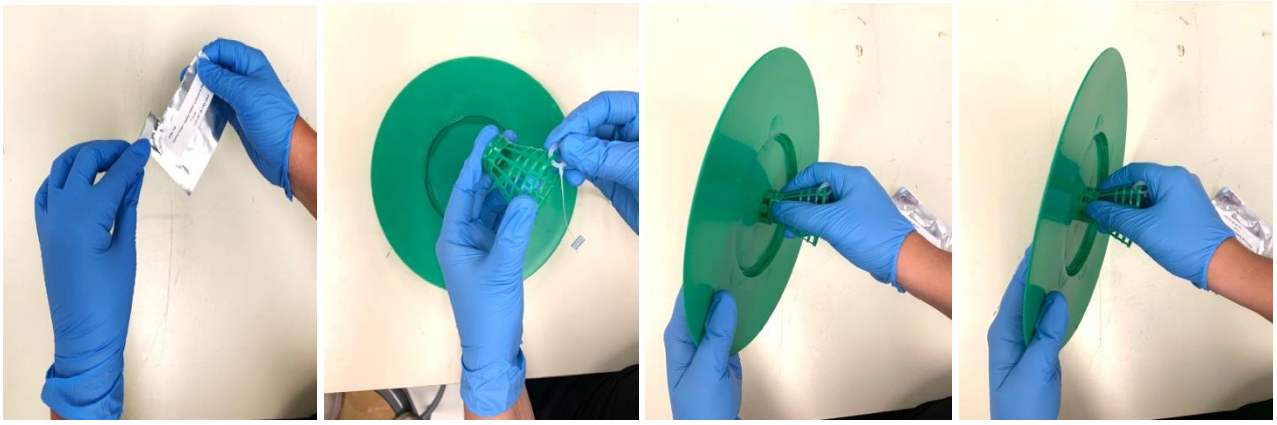
Kit Checklist

FULL KIT	
❑	Contact information sheet
❑	Spongy Moth Trap
❑	Pheromone lure
❑	Insecticidal strip
❑	Gloves
❑	Wooden stick to remove moths
❑	Brown sample bag
❑	Pen
❑	Return envelope (with pre-paid shipping label)
❑	Shoelace
❑	Sticker (to seal brown bag)
❑	Desiccant
❑	Paper clip

Trap Assembly Instructions

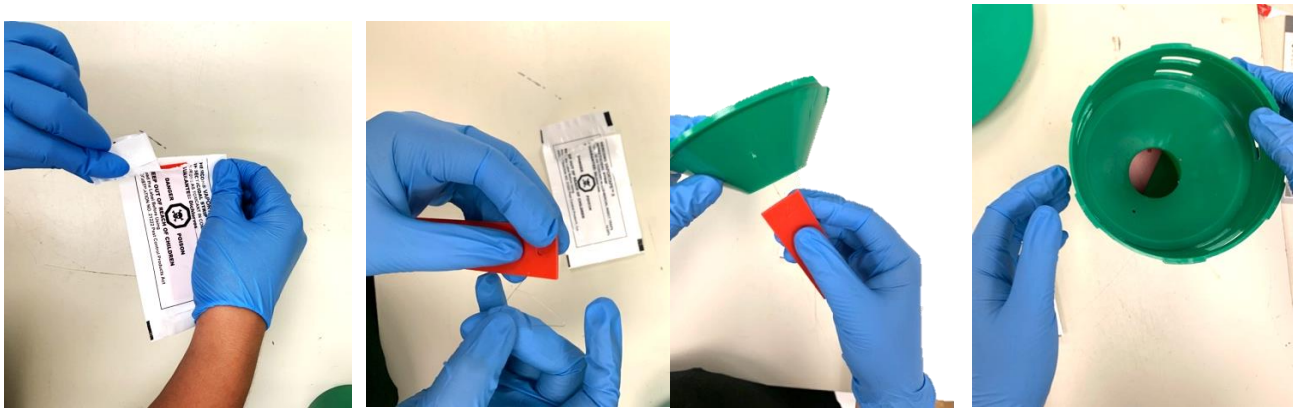
STEP 1: PHEROMONE LURE

With gloves, open the pheromone lure and hook the pheromone lure to the lure basket. Snap the lure basket onto the lid of the trap, you should hear a click. Do not touch the pheromone with bare hands as it can decrease the lure's effectiveness.



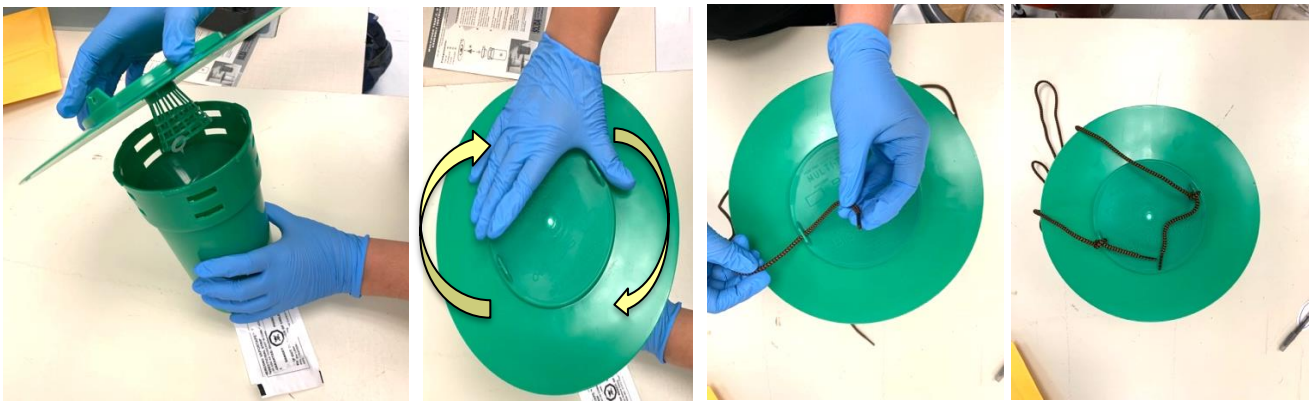
STEP 2: INSECTICIAL STRIP

Next, still wearing your gloves, open the insecticidal strip and place the insecticidal strip on the paper clip at the base of the funnel. Lower the funnel carefully into the trap base. You can take your gloves off and throw them out now!



STEP 3: TRAP ASSEMBLY

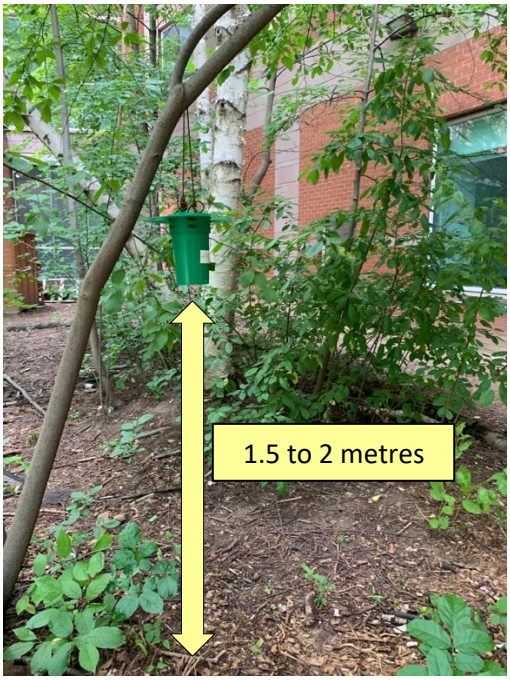
Connect the top part and the bottom part of the trap together with a twist. Thread the shoelace through the hole on the top of the trap, tie a secure double knot. Repeat this with the other hole. (Though pictured, gloves are not required for this step.)



STEP 5: HANGING YOUR TRAP

Hang the trap up in a convenient location, ideally:

- In a wooded area
- On a lower crown tree branch around eye level
- Somewhere you can easily revisit it at the end of the trapping period
- Away from bright lights that might draw away moths during the night



Flight periods and trap timing

Note that flight periods are weather dependent and vary, to ensure adequate samples hang traps as early as possible.

Site	Location	Set-Up	Expected flight period	Tear Down
1	Long Point Conservation Area	July 5	July 12 – July 31, 2023	August 7
2	Komoka Provincial Park	July 3	July 10 – July 28, 2023	August 4
3	Pinehurst Lake Conservation Area	July 12	July 19 –August 8, 2023	August 1
4	Frontenac Provincial Park	July 15	July 22 – August 11, 2023	August 4
5	Morris Tract Provincial Nature Reserve	July 11	July 18 – August 12, 2023	August 19
6	Bon Echo Provincial Park	July 18	July 25 – August 13, 2023	August 20
7	Greenock Swamp Wetland Complex	July 24	July 31 – August 23, 2023	August 16
8	Koffler Scientific Reserve	July 20	July 27 – August 16, 2023	August 23
9	Alexander Stewart Provincial Park	July 25	August 1 – August 21, 2023	August 28
10	High Park	July 15	July 22 – August 12, 2023	August 19
11	Crothers Conservation Area	July 6	July 13 – August 3, 2023	August 10
12	Clappison Woods	June 30	July 7 – July 26, 2023	August 2
13	Dufferin County Forest	July 21	July 28 – August 18, 2023	August 25
14	Iroquois Trail Camp Site/Sager Conservation Area	July 8	July 15 – August 2, 2023	August 9
15	Terra Cotta Conservation Area	July 14	July 21 – August 9, 2023	August 16
16	Moonstone	July 18	July 25 – August 15, 2023	August 22
17	Charleston Lake Provincial Park	July 12	July 19 – August 8, 2023	August 15
18	Pinery Provincial Park	July 4	July 11 – July 29, 2023	August 5
19	Hedley Forest Conservation Area	July 9	July 16 – August 3, 2023	August 10
20	Awenda Provincial Park	July 24	July 31 – August 20, 2023	August 27
21	Short Hills Provincial Park	July 2	July 19 – August 6, 2023	August 13
22	Ganaraska Forest	July 11	July 18 – August 6, 2023	August 13
23	Kawartha Highlands Provincial Park	July 26	August 2 – August 25, 2023	September 1
24	Batchawana Bay Provincial Park	August 17	August 24 – Sept. 18, 2023	September 25
25	Chutes Provincial Park	July 28	August 4 – August 25, 2023	September 1
26	Mississagi Provincial Park	July 23	July 30 – August 19, 2023	August 26
27	Samuel de Champlain Provincial Park	July 26	August 2 – August 27, 2023	September 3
28	Voyageur Provincial Park	July 12	July 19 – August 8, 2023	August 15
29	Bothwell, Ontario	July 14	July 21 – August 8, 2023	August 15
30	University of Montreal	July 4	July 11 – July 29, 2023	August 5
31	Cornell University	July 14	July 21 – August 7, 2023	August 14

Contact Information

Name	
Your Organization	
Trap ID	
Telephone Number	
Email	
Mailing Address	
Trap Address (If different from above)	
Set-up Date	
Tear-down Date	
Do you wish to participate next year?	Yes No (Circle Answer)
General Comments (Feel free to add any questions, concerns, or comments here!)	

(Please mail this sheet and samples back to the James Lab at the University of Toronto)