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Entomological Society of America Proposal Form for New Common Name or Change of ESA-Approved Common Name

Complete this form and e-mail to pubs@entsoc.org.

Submissions will not be considered unless this form is filled out completely.

The proposer is expected to be familiar with the rules, recommendations, and procedures outlined in the "Use and Submission of Common Names" on the ESA website at <https://www.entsoc.org/pubs/use-and-submission-common-names>.

1. Proposed new common name:

Elm zigzag sawfly

2. Previously approved common name (if any):

None

3. Scientific name (genus, species, author): *Aproceros leucopoda* Takeuchi

Order: Hymenoptera

Family: Argidae

Supporting Information



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4. Please provide a clear and convincing explanation for why a common name is needed, possibly including but not limited to the taxon's economic, ecological, or medical importance, striking appearance, abundance, or conservation status:

Aproceros leucopoda is an introduced sawfly from eastern Asia that has been introduced to Europe and North America. It is known to feed on plants in the genus *Ulmus* (Ulmaceae), or elms, causing defoliation by the larval stage. Larvae can cause severe defoliation of host trees, which can imperil already threatened elms (*Ulmus* spp.). Native elms faced a severe decline in Dutch Elm Disease, and few native elms persist. *Defoliation by A. leucopoda could further weaken Dutch elm disease-infected trees or at the very least, present an additional threat for remaining elms.*

A clear common name for this pest will help facilitate easy recognition and reporting of this new introduced species into North America. The distinctive feeding pattern coupled with the host allows researchers, citizen scientists, and the general public to reasonably identify this pest's presence on its host. Accurate detection of this pest can facilitate appropriate treatments. Mechanical and chemical treatments have been shown to be effective in controlling larva.

I propose "elm zigzag sawfly" as a common name for *Aproceros leucopoda*.

5. Stage or characteristic to which the proposed common name refers.

(If the description involves a physical feature, it is strongly encouraged that an image of the organism be provided with this submission.)

The name derives from the characteristic feeding pattern the immature stages leave on leaves. The larvae leave zigzag, or serpentine, chewed out pathways in leaf tissue of elms. Often these feeding pathways are confined between leaf veins in younger instars. Below are images that illustrate the distinctive feeding damage and reason for the suggested common name.



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Figure 1 Kelly Oten, NC State University



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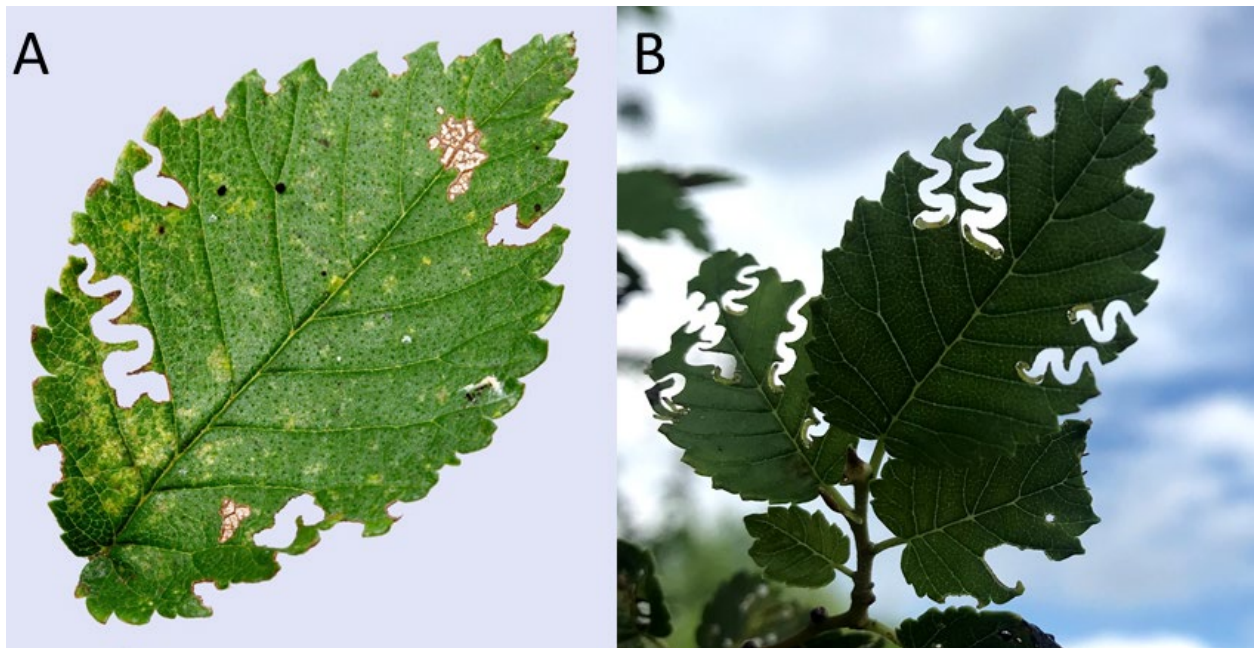


Figure 2 Photos by Matt Bertone, North Carolina State University, and Eric Day, Virginia Tech .



6. Distribution (include references):

East Asia (China and Japan), Central Europe, England, France, Russia, Kazakhstan, United States of America (Virginia, North Carolina) (other unpublished east coast states in a manuscript in press), Canada (Quebec)

Blank, S. M., T. Köhler, T. Pfannenstill, N. Neuenfeldt, B. Zimmer, E. Jansen, A. Taeger, A.D. Liston. 2014. Zig-zagging across Central Europe: recent range extension, dispersal seed and larval hosts of *Aproceros leucopoda* (Hymenoptera, Argidae) in Germany. *J. Hymenopt. Res.* 41: 57-74. **[Germany, Belgium, Netherlands].**

Blank, S. M., H. Hara, J. Mikulás, G. Csóka, C. Ciornei, R. Constantineanu, I. Constantineanu, L. Roller, E. Altenhofer, T. Huflejt, and G. Véték. 2010. *Aproceros leucopoda* (Hymenoptera, Argidae): An East Asian pest of elms (*Ulmus* spp.) invading Europe. *European Journal of Entomology* 107: 357–367. **[Austria, Poland, Romania, Slovakia, and the Ukraine]**

Artokhin, K. S., P. K. Ignatova, and E. N. Terskov. 2012. New insects including invasive species for the fauna of Rostov Region (Russia). *Caucasian Entomological Bulletin* 8: 199-202. **[Russia]**

Ashikbayev, N. Z., N. S. Mukhamadiyev, G. Z. Mengdibayeva, M. B. Temirzhanov, and N. K. Kuanyshbaev. 2018. Development of forest entomology in Kazakhstan. *In* The International Scientific and Practical Conference “Actual problems of sustainable development in forestry complex” dedicated to the 70th anniversary of higher forest education in Kazakhstan. Volume 2. *Edited by* T. I. Espolov, K. M. Tireuov, E. I. Islamov, S. B. Baizakov, K. T. Abayeva, E. Z. Kentbaev, and B. A. Kentbaeva. Aitumar Publishing, Almaty, Kazakhstan. Pp. 42–47. **[Kazakhstan]**

Zandigiacomo, P., E. Cargnus, and A. Villani. 2011. First record of the invasive sawfly *Aproceros leucopoda* infesting elms in Italy. *Bull. Insectology* 64: 145-149. **[Italy]**

[https://content.ces.ncsu.edu/elm-zigzag-sawfly#:~:text=The%20elm%20zigzag%20sawfly%20\(Argidae,and%20North%20Carolina%20\(2022\)](https://content.ces.ncsu.edu/elm-zigzag-sawfly#:~:text=The%20elm%20zigzag%20sawfly%20(Argidae,and%20North%20Carolina%20(2022))
[United States: Virginia, North Carolina]

<https://www.dec.ny.gov/press/126222.html> **[United States: New York]**

Hogue, A. 2020. [Photograph submitted to iNaturalist]. Available from <https://inaturalist.ca/observations/54944998> [accessed 27 September 2022]. **[Canada, Quebec]**

Martel, V., O. Morin, S. Monckton, C. Eiseman, C. Béliveau, M. Cusson, and S. Blank. 2021. Elm zigzag sawfly, *Aproceros leucopoda* (Hymenoptera: Argidae), recorded for the first time in North America through community science. *Can. Entomol.* 154(1): E1. **[Canada, Quebec]**



7. Principal hosts (include references):

This species feeds on a variety of species in the genus *Ulmus*. (Rosales: Ulmaceae). It has been shown to feed and thrive on the following *Ulmus* species: *U. americana*, *U. castaneifolia*, *U. davidiana*, *U. hollandica*, *U. laciniata*, *U. laevis*, *U. lamellose*, *U. rubra*, *U. glaucesens*, *U. alata*, *U. pumila*, *U. parvifolia*, *U. procera*, *Ulmus minor*, *Ulmus glabra*, *Ulmus minor* "Atinia". Testing on non *Ulmus* species resulted in failure to thrive on *Zelkova serrata* and *Hemiptelea davidii* (Ulmaceae) (Papp 2018).

Supporting Publication:

Vétek, G., K. Csávás, J. Fail, and M. Ladányi. 2022. Host plant range of *Aproceros leucopoda* is limited within Ulmaceae. *Agric. For. Entomol.* 24: 1-7.

Blank, S. M., T. Köhler, T. Pfannenstill, N. Neuenfeldt, B. Zimmer, E. Jansen, A. Taeger, A.D. Liston. 2014. Zig-zagging across Central Europe: recent range extension, dispersal seed and larval hosts of *Aproceros leucopoda* (Hymenoptera, Argidae) in Germany. *J. Hymenopt. Res.* 41: 57-74.

Alejandro I Del Pozo-Valdivia, Devin Calpo, Mark Sutphin, Effect of Afidopyropen and Dinotefuran on Elm Zigzag Sawfly Control, 2021, *Arthropod Management Tests*, Volume 47, Issue 1, 2022, tsac122, <https://doi.org/10.1093/amt/tsac122>

Papp, V., 2018. The lifestyle of the invasive zigzag elm sawfly (*Aproceros leucopoda* Takeuchi, 1939). Hungary: Szent István University.

<https://directree.org/elm-zig-zag-sawfly/> [United Kingdom Records]

<https://www.woodlandtrust.org.uk/trees-woods-and-wildlife/tree-pests-and-diseases/key-tree-pests-and-diseases/elm-zig-zag-sawfly/> [United Kingdom Records]

<https://www.cabidigitallibrary.org/doi/10.1079/cabicompndium.118020#0360aeee-5de4-460d-81e7-053383579406>

8. Please provide multiple references indicating clearly that the proposed name is already established and ideally widespread in use. If the name has been newly coined for purposes of this application, please state so:

In digital media:

Science Daily: https://www.youtube.com/watch?v=hwSKapRgt_k

Simply Science (a Canadian call to action to report the insect):
https://www.youtube.com/watch?v=GeJiruVv9_Q



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Asheville, NC Press announcement: <https://www.asheville.com/news/2022/12/elm-zigzag-sawfly-becomes-newest-invasive-species-in-north-carolina/>

News Center Maine: <https://www.newscentermaine.com/article/sports/outdoors/be-on-the-lookout-for-this-potentially-destructive-insect-elm-zigzag-sawfly-in-maine/97-b192c8a7-ed9c-4efb-b83a-9addab44e028>

In title of:

Del Pozo-Valdivia, A. I., D. Calpo, and M. Sutphin. 2022. Effect of afidopyropen and dinotefuran on elm zigzag sawfly control. *Arthropod. Manag. Tests* (in press).

Martynoz, V. V., and T. V. Nikulina. 2017. Population surge of zigzag elm sawfly (*Aproceros leucopoda* (Takeuchi, 1939): Hymenoptera: Argidae) in the Northern Ciz-Azov Region. *Russ. J. Biol. Invasions* 8: 25-34.

In Canadian Pest Alert

<https://www.invasivespeciescentre.ca/invasive-species/meet-the-species/invasive-insects/elm-zigzag-sawfly/>

In United Kingdom Pest Alert

<https://www.forestresearch.gov.uk/tools-and-resources/fthr/pest-and-disease-resources/elm-zigzag-sawfly-aproceros-leucopoda/>

In North Carolina Extension Announcement

<https://forestry.ces.ncsu.edu/2022/09/elm-zigzag-sawfly-found-in-nc-for-the-first-time/>

In New York Pest Alert

<https://branchingout.cornell.edu/pest-updates/pest-alert-elm-zigzag-sawfly/>

Bugguide:

<https://bugguide.net/node/view/1962502> - Elm zigzag sawfly



9. Please identify any common names in use, including those used by indigenous peoples in the insect's area of origin, that have been applied to this taxon, other than the one herein proposed, with references. Please justify why each alternate name is inadequate:

Croatia Brijestova osa listarica Elm Leaf Wasp

There are multiple wasps that use elms as a host as is not as specific on what kind of wasp.

German Japanische Ulmenblattwespe Japanese elm Sawfly

It is found natively in other areas than Japan, and geographic names are discouraged.

German Zickzack-Blattwespe Zigzag Sawfly

Does not indicate which host is preferred or used.

Hungarian Kanyargós szillevéldarázs Twisted Leaf Wasp

Twisted Leaf is evocative of the feeding damage from the immature stages, but less distinctive.

Netherlands Iepenzigzagbladwesp Elm zigzag Sawfly

The same as our proposed common name.

Romania Viespea neagra a ulmului Black Elm Wasp

Feeds on more species of elm than just Black Elm.

Russian восточноазиатского ильмового пилильщика East Asian elm sawfly

Geographic names are discouraged and does not include a descriptive feature comparatively to the zigzag feeding damage.

10. Please identify any other organisms to which your proposed common name could apply, giving careful consideration to closely related taxa. Please justify why the proposed common name is (i) unsuitable for each of those taxa and/or (ii) better suited for the proposed taxon:

Elm Sawfly – This large sawfly in the family Cimbicidae is not known for having a zigzag feeding pattern as a larva. The larva is known for coiling around twigs while feeding or rest, which *Aproceros leucopoda* is not. The sawfly, while noted to defoliate elms, is significantly larger as an adult than *A. leucopoda*.

Other pests of elm with 'elm' in the title include insects in different orders, such as: Elm Leaf aphid, European elm bark beetle, Elm Cockscomb galls, spiny elm caterpillar, elm leaf beetle, woolly elm aphid, and European Elm Scale.



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There are sawflies in the genus *Sterictiphora* (Argidae) that create similar larval mines on, but feed on *Prunus* spp. --- Charles S. Eiseman "On the Distinctive Feeding Pattern of *Sterictiphora* Billberg (Hymenoptera: Argidae) Sawfly Larvae," Proceedings of the Entomological Society of Washington, 117(1), 65-67, (1 January 2015)

11. Please document your efforts to consult with entomologists (including taxonomic specialists), colleagues, or other professionals who work with the taxon as to the suitability and need for the proposed common name. Please note that this is an important element of your proposal; proposals that do not document these steps are less likely to be successful.

Dave Smith (retired, Smithsonian) sawfly world expert:

Hi Lawrence,

“Elm Zigzag Sawfly” sounds good. Nothing can be confused with that. It describes the larval feeding habit and gives the host plant. In Europe they just call it the “Zigzag sawfly.” However, in N. Amer. there are several other sawflies whose larvae feed in a zigzag pattern similar to leucopoda, so adding elm pins it down to one species, *Aproceros leucopoda*.

Hope tis is enough.

Best regards,

Dave

From: Barringer, Lawrence [<mailto:lbarringer@pa.gov>]

Sent: Tuesday, December 06, 2022 1:48 PM

To: Dave Smith

Subject: *Aproceros leucopoda* common name

Hi Dave,

I am putting together the proposal for *Aproceros leucoopda* (Argidae) to have the common name “Elm Zigzag Sawfly” to ESA’s common names committee. On the chance you haven’t heard of the one, the larva leave distinctive feeding patterns on elms, which is the basis for the name, and has been introduced to North America (Canada and several US States). Part of the proposal process is to consult with entomologists on the suitability of the name. I was wondering if you would comment on the proposal? The statement can be brief about suitability and need and you would be referenced in the proposal.

Cheers

LB



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Michael Hutchinson | Entomology Program Manager
Pennsylvania Department of Agriculture

Letter of support for the proposal to designate an official common name of Elm Zigzag Sawfly
for *Aproceros leucopoda* (Hymenoptera: Argidae)

Dear Entomological Society of America Common Names Committee,

Aproceros leucopoda is a sawfly (Hymenoptera: Argidae) native to east Asia that is invasive in Europe and has recently been detected in North America. It was first detected in Europe in 2003 and has since spread rapidly across the continent. The species was later detected in Quebec, Canada in 2020. In the United States, the first detection was in Virginia in 2021, followed by detections in Maryland, New York, North Carolina and Pennsylvania in 2022. Authors in Europe typically use the common name of Elm Zigzag Sawfly and that is the preferred common name recommend by the CABI digital library. Canadian and U.S. authors have also adopted that common name in recent publications and fact sheets. This species is a pest of elms and has not been documented to survive on other hosts in it's native or invaded ranges. To help prevent the introduction of other, non-preferred, common names by the public, extension agents, or authors in future publications, I support the proposal for ESA to adopt Elm Zigzag Sawfly as the approved common name for *Aproceros leucopoda*.

Sincerely,

Michael Hutchinson | Entomology Program Manager
Pennsylvania Department of Agriculture | Bureau of Plant Industry
2301 North Cameron Street | Harrisburg PA 17110
Email: mhutchinso@pa.gov
Phone: 717.772.5229



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Proposed by (your name): Lawrence Barringer

Address: 2301 N. Cameron Street, Harrisburg, PA 17110

E-mail: lbarringer@pa.gov

Phone: 717 772 5228

Date submitted: 1/17/2023

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