



ENTOMOLOGICAL SOCIETY OF AMERICA

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Proposal Form for new Common Name or Change of ESA-Approved Common Name

Complete this form and send or e-mail to the above address.

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 and with the discussion by A.B. Gurney, 1953, *Journal of Economic Entomology* 46:207-211.

December 12, 2006

Esteemed ESA Common Names Committee members,

As the Chair for the Western Forest Insect Work Conference (WFIWC) Common Names Committee (CNC), I am pleased to present the following insect for your consideration. This proposal is part of our project to formalize common names of insects not yet recognized by ESA but found in the important publication [Western Forest Insects](#).

Our committee also works with the Entomological Society of Canada and so you will find entries in our form that are in addition to those you require (any numbers accompanied by a letter). All ESA questions are numbered and worded as found on your form.

If you have any questions or concerns about this or other submissions from our organization, please feel free to contact me.

Sincerely,

/s/ Brytten Steed

Brytten Steed
WFIWC-CNC Chair
bsteed@fs.fed.us

WFIWC Proposal Form for New Common Name or Change of ESA or ESC-Approved Common Name

The proposer is expected to be familiar with the rules, recommendations, and procedures outlined in the introduction to the current list of names and with the discussion by A.B. Gurney, 1953, *Journal of Economic Entomology* 46:207–211.

NOTE: SUBMISSIONS WILL NOT BE CONSIDERED UNLESS THIS FORM IS FILLED OUT COMPLETELY.

I ask that the WFIWC Standing Committee on Common Names of Insects facilitate the submission of the following common name or name change to ESA and ESC.

1. Proposed new common name (English): *smaller Mexican pine beetle*

1b. Proposed new common name in French (optional): *None*

2. Previously approved ESA common name (if any): *None*

Dendroctonus approximatus Dietz is listed by the ESA as the 'Mexican pine beetle' and US entomologists occasionally use that name. However, this common name is more appropriate and more commonly used for *D.mexicanus* (USDA Forest Service 2002, 2003). Thus, this proposal for the new common name is being submitted concurrently with the proposal to change the common name for *D. approximatus* to 'larger Mexican pine beetle'.

2b. Previously approved English ESC common name (if any): *None*

2c. Previously approved French ESC common name (if any)-include direct translation to English: *None*

3. Scientific name (genus, species, author): *Dendroctonus mexicanus* Hopkins

Order: *Coleoptera*

Family: *Curculionidae*

Subfamily: *Scolytinae*

3b. List important previous scientific names (esp. note if this scientific name is different from that noted in Western Forest Insects or in the literature cited).

None

(this insect is not listed in Western Forest Insects [Furniss and Carolin 1977])

Supporting Information:

4. Reasons supporting the need for the proposed new or changed common name:

This beetle has recently been collected in the United States of America; removed from from trees and traps on the Coronado National Forest in the Chiricahua Mountains in southeastern Arizona. This insect is native to Mexico but discovered for the first time in the Chiricahua Mountains of Arizona in 2002 (USDA Forest Service 2002, 2003). It has probably been present in that location for years but identified as the similar species *Dendroctonus frontalis* (southern pine beetle). Until recently, dissection was necessary to distinguish between the two species.

This is not an important species in the western United States since it is very localized. Only one outbreak in combination with southern pine beetle has been documented. However, in Mexico, this species can cause significant damage.

Dendroctonus approximatus Dietz currently holds the official common name of 'Mexican pine beetle'. However, this name is more appropriate for *D. mexicanus* which is also called the 'Mexican pine beetle'. Thus, *D. approximatus* also requires a common name change to mitigate confusion; applications are being submitted concurrently for these two species.

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

- Proposed common name refers to the adult stage.
- The term 'Mexican' refers to its range; its range was believed to be limited to Mexico. It was not believed to extend into the United States until it was collected in southeastern AZ.
- The common name 'smaller mexican pine beetle' would fit well with its scientific name, *D. mexicanus*.
- The term 'smaller' refers to the smaller size relative to *D. approximatus*. Lengths of *Dendroctonus mexicanus* in relation to closely related species indigenous to the U.S., Mexico and portions of Central America are as follows (Wood 1982):

D. approximatus – 4.5-7.0 mm

D. mexicanus – 2.4-3.7 mm

D. frontalis – 2.2 –3.2 mm (southern pine beetle)

D. adjunctus – 3.0-5.5 mm (roundheaded pine beetle)

6. Distribution (include citations):

US – Arizona, Chiricahua Mountains of southeastern AZ (USDA Forest Service 2002, 2003).

Mexico- *D. mexicanus* is widely distributed in Mexico from the northern state of Sonora to the southern state of Chiapas (Cibrian et al., 1995)

From Mexico to Honduras (Wood 1982)

7. Principal hosts (include citations):

Mexico – *Pinus ayacahuite*, *P. arizonica*, *P. cembroides*, *P. chihuahuana*, *P. cooperi*, *P. douglasiana*, *P. durangensis*, *P. engelmannii*, *P. gregii*, *P. hartwegii*, *P. herrerae*, *P. lawsoni*, *P. leiophylla*, *P. maximinoi*, *P. michoacana*, *P. montezumae*, *P. patula*, *P. pinceana*, *P. pseudostrobus*, *P. rudis*, *P. teocote* (in Mexico - Cibrian Tovar et al. 1995)

Pinus ayacahuite, *P. lawsoni*, *P. leiophylla*, *P. montezumae*, *P. oocarpa*, *P. ponderosa*, *P. pseudostrobus*, *P. rudis*, *P. teocote*, (Wood 1982).

8. Cite references containing previous use of the proposed common name:

(none found)

9. Cite references using English common names (provide names) other than that proposed:

'Mexican pine beetle' is the common name used in the following citations:

USDA Forest Service, 2002;

USDA Forest Service 2003;

Moser et al; in press;

9b. References using common names in a non-English language (give the common name in the non-English language and give the direct translation to English, if possible):

"descortezador mexicano del pino," or "descortezadores de pino en México"; "Mexican bark beetle of pine trees", or bark beetle of pine trees in Mexico (Billings et al., 1996)

10. Other insects or organisms to which the proposed common name might apply (give scientific name and include citations, if possible):

Entomological Society of America common names list (as well as Furniss and Carolin 1977) cites "Mexican pine beetle" as the official common name for *Dendroctonus approximatus*. However, the common name "Mexican pine beetle" is usually used in reference to *D. mexicanus* (USDA Forest Service 2002, 2003).

The name 'Mexican pine beetle' has recently been proposed for this species. However, this is currently the common name for *Dendroctonus approximatus* so we also proposed its concurrent name change to 'southwestern pine beetle. Due to concerns over using 'southwestern pine beetle' and confusion with a complete change from the current 'Mexican pine beetle' it was suggested by several reviewers that *D. approximatus* be called the 'larger Mexican pine beetle' and letting *D. mexicanus* be called the 'smaller Mexican pine beetle'.

10 b. List references cited in questions 6-10:

Billings et al; 1996. Los Escarabajos Descortezadores del Pino, con énfasis en *Dendroctonus frontalis*: Métodos de Control Directo ; Texas A&M University System; Publication 150; 1996. Publicado en 1996 por Texas A&M Printing Center; College Station, Texas.

Cibrián Tovar, D., J.T. Méndez Montiel, R. Campos Bolaños, H.O. Yates III, and J.F. Lara. 1995. Forest Insects of México. Universidad Autónoma Chapingo. Chapingo, Estado de México, México, 453 pp.

Furniss, R.L. and V.M. Carolin, 1977 reprinted in 1992. Western Forest Insects. USDA Forest Service, Miscellaneous Publication 1339, 654 pp.

Moser, J.C., B. A. Fitzgibbon and K.D. Klepzig, 2005. The Mexican pine beetle, *Dendroctonus mexicanus*: first recorded in the United States and co-occurrence with southern pine beetle, *Dendroctonus frontalis* (Coleoptera: Scolytidae or Curculionidae: Scolytinae) Entomological News 116(4): 235-243.

USDA Forest Service 2002. Forest insect and disease conditions in the Southwestern Region – 2002. Southwestern Region, Albuquerque, NM, 17 pp.

USDA Forest Service 2003. Forest insect and disease conditions in the Southwestern Region – 2003. Southwestern Region, Albuquerque, NM.

Wood, S.L. 1982. The bark and ambrosia beetles of North and Central America (Coleoptera: Scolytidae), a taxonomic monograph. Great Basin Naturalist Memoirs 6, 1359 pp.

11. Steps you have taken to consult with other workers who are familiar with the insect or organism as to suitability of and need for the proposed common name:

The following people have been consulted and provided feedback on this application:

- John Moser, Research Entomologist (retired), Pineville, LA
- William M. Ciesla, Forest Health Management International, Fort Collins, CO
- Robert Haack, Research Entomologist, USDA Forest Service, E. Lansing, MI
- Dan Miller, Research Entomologist, USDA Forest Service, Athens, GA
- Malcom M. Furniss, Research Professor, University of Idaho, Moscow, ID
- Jim LaBonte, Insect Program Specialist, Oregon Dept. of Ag., Salem OR
- Ron Billings, Texas Forest Service, College Station, Texas
- Lee Humble, Research Entomologist, Canadian Forest Service, Victoria BC Canada
- John McLean, Professor at the University of British Columbia, Vancouver Canada
- Greg Pohl, Insect Identification Officer/Museum Curator, Canadian Forest Service, Edmonton, Canada

smaller Mexican pine beetle
1005b-10-06

Dendroctonus mexicanus

12/12/2006

- Iral Ragenovich, USDA Forest Service- Forest Health Protection, Portland, OR
- Lee Pederson, Entomologist, USDA Forest Service- Forest Health Protection, Coeur d'Alene, ID
- Brytten Steed, Forest Entomologist, Forest Service-Forest Health Protection, Ogden UT

11b. What type of literature searches/checks did you conduct (e.g. CABI, ESA and ESC web pages, USDA FS library, formal library search engine-list, etc.)

Search on ESA Common Names site (http://www.entsoc.org/Pubs/Books/Common_Names/search.asp) to determine if this species had a common name, if the common name belonged to another species.

Review of the ESC Common Names publication (pdf at http://www.esc-sec.org/common_names_2005.pdf) to determine if this species had a common name in either English or French, or if the English common name proposed belonged to another species.

Search of British Museum of Natural History website (<http://www.nhm.ac.uk/nature-online/biodiversity/nature-navigator/>)

Literature searches included CABI databases (Crop Protection Compendium, 2004 by the Commonwealth Agricultural Bureau International - includes CAB abstracts, Tree CD, and Forest Science Abstracts), AGRICOLA, Biological Abstracts, and EPPO (European Plant Protection Organization). No additional names appeared.

Search of www using the Google search engine

ALSO: List of citations in #10

12. Proposed by): Western Forest Insect Work Conference group (WFIWC), Common Names Committee (CNC) Chair – Brytten Steed

Proposal prepared and submitted to the WFIWC CNC by Bobbe Fitzgibbon, Entomologist, USDA Forest Service-Forest Health Protection, Flagstaff, AZ

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Date: December 12, 2006