



## 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](mailto: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): [larger Mexican pine beetle](#)

1b. Proposed new common name in French (optional): [None](#)

2. Previously approved ESA common name (if any): [Mexican pine beetle](#).

However, among forest entomologists, the common name “Mexican pine beetle” is normally used for *Dendroctonus mexicanus* an insect native to Mexico but discovered for the first time in the Chiricahua Mountains of Arizona in 2002 (Moser et al 2005, USDA Forest Service 2002, 2003).

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 approximatus Dietz, 1890](#)

Order: [Coleoptera](#)

Family: [Scolytidae](#)

Subfamily: [Scolytidae](#)

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).

[Due to a misidentification of the type species of \*Dendroctonus parallelocollis\*, most of the literature prior to 1969 refers to this insect as \*D. parallelocollis\* \(Wood 1982\).](#)

### Supporting Information

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

[Dendroctonus approximatus](#) has been referred to in the literature under several common names, none of which have been accepted as an “official” common name by the ESA. Keene (1952) refers to this species as “Colorado pine beetle,” probably because the type species of this insect was collected in Colorado (Dietz 1890). Furniss and Carolin (1977) refer to *D. approximatus*, as “larger Mexican pine beetle.” This book is widely used by forest entomologists with a

revised/updated version to be published in the near future. The common name “larger Mexican pine beetle” is also used in a publication issued by the Cooperative Extension Service of the University of Arizona (DeGomez and Young 2002).

The name “southwestern pine beetle” has recently been proposed for this species. However, this name refers to only a portion of this insect’s natural range (southwestern USA). Moreover, the common name “southwestern pine beetle” was used in reference to *Dendroctonus barberi*, (Keene 1952), which is now a synonym of the western pine beetle, *D. brevicomis* (Wood 1963). Assigning the common name “southwestern pine beetle” to *D. approximatus* could result in some confusion.

The currently approved ESA common name “Mexican pine beetle” has not been used in reference to *Dendroctonus approximatus* in the literature. However, several websites (listed below) refer to *D. approximatus* as the “Mexican pine beetle.”

University of Michigan, Museum of Zoology, Biodiversity web

[http://animaldiversity.ummz.umich.edu/site/accounts/classification/Dendroctonus\\_approximatus.html](http://animaldiversity.ummz.umich.edu/site/accounts/classification/Dendroctonus_approximatus.html)

Check list of insects and mites

[http://www.na.fs.fed.us/spfo/pubs/silvics\\_manual/volume\\_1/checklist\\_of/insects\\_and\\_mites.htm](http://www.na.fs.fed.us/spfo/pubs/silvics_manual/volume_1/checklist_of/insects_and_mites.htm)

ITIS Standard Report

[http://www.itis.usda.gov/servlet/SingleRpt/SingleRpt?search\\_topic=TSN&search\\_value=114910](http://www.itis.usda.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=114910)

Although this insect is of relatively minor economic importance, it is a representative of the most economically important genus of North American bark beetles. It attacks the base of trees infested by other species of *Dendroctonus* (e.g. *D. ponderosae*, *D. adjunctus*, *D. brevicomis*) and species of ips engraver beetles (*Ips* spp.) (Furniss and Carolin 1977).

An accompanying proposal is being prepared to assign the common name “smaller Mexican pine beetle” to the related species *Dendroctonus mexicanus*, which has recently been detected in southeastern AZ (Moser et al. 2005).

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

Proposed common name refers to the adult stage. The term “larger” refers to its size in relation to two other species of *Dendroctonus*: *D. adjunctus* and *D. mexicanus* found in the SW US and Mexico. Lengths of *Dendroctonus approximatus* in relation to closely related species indigenous to the U.S., Mexico and portions of Central America are as follows (Wood 1982):

larger Mexican pine beetle  
1004b-10-06

*Dendroctonus approximatus*

12/12/2006

*D. approximatus* – 4.5-7.0 mm

*D. mexicanus* – 2.4-3.7 mm

*D. frontalis* – 2.2 –3.2 mm

*D. adjunctus* – 3.0-5.5 mm

Although “Mexican” refers to its widespread occurrence in Mexico, the word is being retained to minimize confusion with its current common name as ‘Mexican pine beetle’.

6. Distribution (include citations):

US – Arizona, Colorado, New Mexico, Utah

Mexico- Chihuahua, Chiapas, Coahuila, Distrito Federal, Durango, Estado de Mexico, Guerrero, Jalisco, Michoacan, Nuevo Leon, Oaxaca, Queretario, Sonora, Tamaulipas, Tlaxcala, Veracruz, Zacatecas.

Guatemala, Honduras (Cibrian Tovar et al. 1995, Furniss and Carolin 1977, Wood 1982)

7. Principal hosts (include citations):

US – *Pinus ponderosa*, *P. engelmannii*, *P. leiophylla* (Furniss and Carolin 1977, Wood 1982)

Mexico – *Pinus ayacahuite*, *P. chihuahuana*, *P. durangensis*, *P. engelmannii*, *P. hartwegii*, *P. leiophylla*, *P. michoacana*, *P. montezumae*, *P. oocarpa*, *P. patula*, *P. pseudostrobus*, *P. teocote* (Cibrian Tovar et al. 1995, Wood 1982).

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

DeGomez and Young 2002.

Furniss and Carolin 1977

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

Entomological Society of America common names list cites “Mexican pine beetle” as the official common name for *Dendroctonus approximatus*. However, this common name has also been used in reference to *D. mexicanus* (Moser et al. 2005, USDA Forest Service 2002, 2003). In order to clarify this issue and avoid confusion, “larger Mexican pine beetle” is proposed as the official common name for *D. approximatus* and “smaller Mexican pine beetle” is proposed for *D. mexicanus*.

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) In Mexico and Central America, this beetle may go by the common name of ‘escarabajo del pino de Colorado’. However, queries of knowledgeable Mexican contacts (PhD Mexican scientists working with bark beetles) indicate that Mexico does not use official common names and that ‘escarabajo del pino de Colorado’ is definitely not one they would use.

10. Other insects or organisms to which the proposed common name might apply (give scientific name and include citations, if possible): None

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

Cibrián Tovar, D., J.T. Méndez Montiel, R. Campos Bolaños, H.O. Yates III, and J.F. Lara.

1995. Forest Insects of Mexico. Universidad Autónoma Chapingo. Chapingo, Estado de México, México, 453 pp.

DeGomez, T. and D. Young, 2002. Pine bark beetles. University of Arizona, College of Agriculture and Life Sciences. Publication AZ 1300.

Dietz, W.G., 1890. Notes on the species of *Dendroctonus* of boreal America. Trans American Entomological Society 17:27-32

Furniss, R.L. and V.M. Carolin, 1977. Western forest insects. USDA Forest Service, Miscellaneous Publication 1339, 654 pp.

Keene, F.P., 1952. Insect enemies of western forests. USDA, Miscellaneous Publication 273, 280 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 – 2002. 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:

A number of forest entomologists in the U.S. were contacted and asked to provide review comments to this proposal. Most of the following individuals responded:

Ron Billings, Entomologist, Texas Forest Service, College Station, TX

Bobbie Fitzgibbon, Entomologist, USDA Forest Service-FHP, Flagstaff, AZ

Robert Haack, Research Entomologist, USDA Forest Service, E. Lansing, MI

Dan Miller, Research Entomologist, USDA Forest Service, Athens, GA

Jim LaBonte, Insect Program Specialist, Oregon Department of Agriculture, Salem OR

John Moser, Research Entomologist (retired), Pineview NC

Greg Pohl, Insect Identification Officer / Museum Curator, Northern Forestry Centre,  
Canadian Forest Service, Edmonton, Canada

Malcom M. Furniss, Research Professor, University of Idaho, Moscow, ID

Iral Ragenovich, Entomologist, USDA Forest Service, Portland, OR

John McLean, Professor at the University of British Columbia, Vancouver Canada

Lee Humble, Research Entomologist, NRC Canadian Forest Service, Victoria BC, Canada

Lee Pederson, Entomologist, USDA Forest Service-FHP, Coeur d'Alene, ID

Brytten Steed, Entomologist, USDA Forest Service-FHP, 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](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](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 in CABI (Commonwealth Agricultural Bureau International) data base (includes CAB, Tree CD, and Forest Science Abstracts)

Search of www using the Google search engine

List of citations in #10

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

Proposal prepared and submitted to the WFIWC CNC by William M. Ciesla, Forest Health Management International, Fort Collins, CO

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Date:

December 12, 2006