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A CATALOG OF THE COLEOPTERA OF AMERICA NORTH OF MEXICO

FAMILY: PLATYPODIDAE

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FAMILIES OF COLEOPTERA IN AMERICA NORTH OF MEXICO

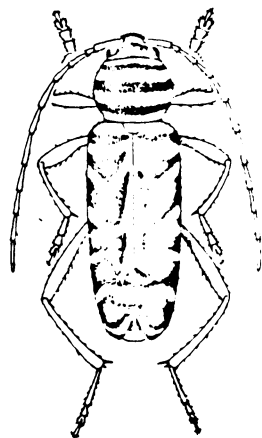
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¹ Missing numbers are those assigned in the computer program to families not found in the United States and Canada.

A CATALOG OF THE COLEOPTERA OF AMERICA NORTH OF MEXICO

FAMILY: PLATYPODIDAE

BY
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BRIGHAM YOUNG UNIVERSITY
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UNITED STATES
DEPARTMENT OF
AGRICULTURE

AGRICULTURE
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FOREWORD

For the user of scientific names, an up-to-date taxonomic catalog providing currently accepted names and pertinent bibliographic and distributional data is an indispensable tool. Although taxonomic literature is constantly changing to reflect current work, the traditional published taxonomic catalog remains static with updating left to the individual user until it is revised. Production of catalogs in the past has been laborious with long printing delays resulting in data that are obsolete before being published. However, the computer now provides the capability of storing, updating, and retrieving taxonomic data; rapid publication through computer-driven type-setting machinery; and a greater degree of currentness and flexibility.

All 119 fascicles in this catalog of the beetles of America north of Mexico are produced by an original suite of computer programs, designed and written during a pilot project involving personnel of the Systematic Entomology Laboratory and the Communications and Data Services Division, Science and Education Administration.

The published data are stored on computer tape, are updated periodically to reflect taxonomic progress in this family, and are available in a data base for computer searching.



T. W. Edminster, Deputy Director
Agricultural Research
Science and Education Administration

PREFACE

The Coleoptera, or beetles, are represented in the world by about 220,000 described species, of which about 24,000 occur in the United States and Canada. A comprehensive taxonomic catalog of beetles for this area has not been available except the series of world-based "Coleopterorum Catalogus" volumes (1909–present, Junk, Berlin). The Leng "Catalogue of the Coleoptera of America North of Mexico" (J. D. Sherman, Jr., Mt. Vernon, NY), which was published in 1920 with supplements to the end of 1947, is a checklist. However, it has served professional and amateur alike for nearly 60 years as the principal source of scientific names of beetles. Since 1947, many new taxa have been described and many changes in status and nomenclature have appeared in numerous scattered publications, but little effort has been made to summarize these changes.

This catalog will supplant the Leng catalog and supply additional essential information. It is produced by an original suite of storage, retrieval, and printing programs written especially for automated taxonomic catalogs.

The catalog for each family is published as a separate fascicle with its introductory text, bibliography, and index. Each family is numbered as listed, but the order of issuance of fascicles is not necessarily in numerical sequence. The publishing of separate fascicles makes data available shortly after they are assembled. Computer tapes for each fascicle are maintained for updating and necessary reprinting.

The information on each family is the responsibility of the respective author or authors. The editors modify it only to correct obvious errors and to make it conform to the requirements of the computer programs.

No original proposal for a new name, taxon, status, or classification is given, such data having been previously published, but new host and distributional data are often listed. The rules of "The International Code of Zoological Nomenclature" are followed.

The geographic scope of this catalog includes the continental United States, Canada, Alaska, Greenland, and the associated continental islands. Names of taxa found only in other regions are excluded. If the range of a species extends outside these geographic limits, this fact is indicated. Inside the back cover is a map of the 12 faunal regions based on historical and faunal criteria to simplify distribution recordings. Two-letter Postal Service style abbreviations are used for States and Provinces, and faunal regions are indicated in each distribution record by a diagonal line between groups of abbreviations.

It is not the purpose of this catalog to present a complete scheme of higher classification within the order. The familial makeup is somewhat intermediate between that of R. H. Arnett in "The Beetles of the United States" (1960–62, Catholic University Press, Washington, DC) and that of R. A. Crowson in "The Natural Classification of the Families of Coleoptera" (1967, Biddles Ltd., Guildford, England). Modifications of these two systems are largely those advocated by J. F. Lawrence based in part on suggestions by taxonomic specialists for certain families.

Generic groups and higher categories within the family are arranged phylogenetically as indicated by the author of the particular fascicle, and species group names with their respective synonyms are arranged alphabetically.

Names referable to incertae sedis and nomen dubium are listed separately at the end of the nearest applicable taxon with notations as to their status.

Each available name is followed by its author, date proposed, and page number referring to the complete bibliographic citation containing the original description. Following each generic name are

the type-species and method of its designation, necessary explanatory notes, and pertinent references on immature stages, taxonomy, redescription, ecology, and keys. After the specific name entry are the original genus (if different from the present placement), type-locality, geographical distribution by State, Province, and broad extralimital units, explanatory notes, pertinent references to immature stages, taxonomy, redescription, and ecology, depository of type-specimen and its sex, and hosts.

In addition to the list under the map of faunal regions (inside back cover), the following abbreviations are used in this catalog:

ABBREVIATIONS, GENERAL

Amer. Bor.—America Borealis
 Amer. Sept.—America Septentrionalis
 Autom.—Automatic
 C. Amer.—Central America
 Co.—County
 Cosmop.—Cosmopolitan
 Design.—Designated
 F.—Female
 Holarc.—Holarctic
 Isl.—Island
 M.—Male
 Mex.—Mexico
 Monot.—Monotypy

Mus.—Museum
 N. Amer.—North America
 Orig. des.—Original designation
 Preocc.—Preoccupied
 S. Amer.—South America
 Sp.—Species
 Subseq. monot.—Subsequent monotypy
 Subsp.—Subspecies
 Taut.—Tautonymy
 Univ.—University
 USA—United States of America
 Var.—Variety
 W. Ind.—West Indies

MUSEUMS IN THE CONTINENTAL UNITED STATES AND CANADA ¹

AMNH—American Museum of Natural History, New York
 ANSP—Academy of Natural Sciences, Philadelphia, PA
 BYUC—Brigham Young University, Provo, UT
 CASC—California Academy of Sciences, San Francisco
 CISC—University of California, Berkeley
 CNCI—Canadian National Collections, Ottawa
 CSLB—Long Beach State College, CA
 CUIC—Cornell University, Ithaca, NY
 CWOB—C. W. O'Brien Collection, Tallahassee, FL
 DHKC—D. H. Kistner Collection, Chico State College, CA
 ELSC—E. L. Sleeper Collection, Long Beach State College, CA
 FMNH—Field Museum of Natural History, Chicago, IL

FSCA—Florida State Collection, Gainesville
 HAHC—H. & A. Howden Collection, Ottawa, Canada
 ICCM—Carnegie Museum, Pittsburgh, PA
 INHS—Illinois Natural History Survey, Urbana
 JGEC—J. G. Edwards Collection, San Jose, CA
 KMFC—K. M. Fender Collection, McMinnville, OR
 KSUC—Kansas State University, Manhattan
 LACM—Los Angeles County Museum, CA
 LSUC—Louisiana State University, Baton Rouge
 MCZC—Museum of Comparative Zoology, Harvard University, Cambridge, MA
 MSUC—Michigan State University, East Lansing
 NCSM—North Carolina State University, Raleigh
 NYSM—New York State Museum, Albany
 OSEC—Oklahoma State University, Stillwater
 OSUC—Ohio State University, Columbus
 OSUO—Oregon State University, Corvallis

¹ Abbreviations for U.S. and Canadian museums abridged from Arnett, R. H., Jr., and Samuelson, G. A., 1969, "Directory of Coleoptera Collections of North America (Canada Through Panama)," Cushing-Malloy, Ann Arbor, MI, 123 pp.

PMNH—Peabody Museum, Yale University, New Haven, CT
 PSUC—Pennsylvania State Museum, University Park
 PURC—Purdue University, West Lafayette, IN
 RUIC—Rutgers University, New Brunswick, NJ
 SEMC—Snow Museum, University of Kansas, Lawrence
 SJSC—San Jose State College, CA
 SLWC—S. L. Wood Collection, Provo, UT

SMSH—Stovall Collection, University of Oklahoma, Norman
 TAMU—Texas A. & M. University, College Station
 UCDC—University of California, Davis
 UMMZ—University of Michigan, Ann Arbor
 UMRM—University of Missouri, Columbia
 USNM—U.S. National Museum of Natural History, Washington, DC
 WSUC—Washington State University, Pullman

MUSEUMS IN FOREIGN COUNTRIES

BMNH—British Museum (Natural History), London
 BPBM—Bernice P. Bishop Museum, Honolulu
 GUHC—Glasgow University, Hunterian College, Scotland
 HMOX—Hope Museum, Oxford, England
 HNHM—Hungarian Natural History Museum, Budapest
 IPZE—Institut Pflanzenschutzforschung Zweigstelle, Eberswalde, East Germany
 IRSB—Institut Royal Sciences Belgique, Brussels
 MFNB—Museum für Naturkunde (Humboldt), Berlin
 MGFT—Museum G. Frey, Tutzing, Munich, West Germany
 MHNL—Museum d'Histoire Naturelle, Lyon, France
 MNHP—Museum National d'Histoire Naturelle, Paris
 MNSL—Museum of Natural Sciences, Leipzig, East Germany
 MZBS—Museum Zoologia, Barcelona, Spain

NHRS—Naturhistoriske Riksmuseet, Stockholm
 NMPC—Narodni Museum, Prague, Czechoslovakia
 SCUT—Spinola College, University of Turin, Italy
 SMTD—Staatliches Museum für Tierkunde, Dresden, East Germany
 UNAM—Universidad Nacional Autonoma, Mexico City
 UZMC—University Zoological Museum, Copenhagen, Denmark
 UZMH—University Zoological Museum, Helsinki, Finland
 ZMAS—Zoological Museum, Academy of Sciences, Leningrad
 ZMPA—Zoological Museum, Polish Academy of Sciences, Warsaw
 ZMUL—Zoological Museum, University of Lund, Sweden
 ZMUM—Zoological Museum, University of Moscow
 ZSBS—Zoologische Sammlung Bayerischen Staates, Munich, West Germany

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We thank the following members of the Communications and Data Services Division, SEA: Sandra Strauss and Marianne Kingston for designing and writing the computer programs, and Margaret Seldin for developing the editing system.

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Family PLATYPODIDAE

By Stephen L. Wood

These monogamous beetles infest the dying wood of unthrifty, broken, or recently cut trees. The male bores an entrance tunnel through the bark and a short distance into the wood. When a female approaches the entrance hole and identifies herself through tactile or audible means, the male backs out of the tunnel to admit her. Ordinarily mating occurs when the male is on the surface of the bark and the female has the tip of her abdomen protruding from the tunnel. The male then follows the female into the tunnel. After the female has inoculated the gallery walls with spores of the ambrosial fungus she extends the brood tunnel and deposits eggs in the tunnel. The male removes the frass resulting from her activity and guards the entrance hole. The larvae develop in the parental galleries where they feed upon spores of the ambrosial fungus. In many species the mature larvae construct individual pupation chambers as short branches of the parental tunnel. Young adults emerge from the parental entrance hole. One to several generations are produced each year. More than 95 percent of the 1000 known species occur only in tropical areas. A majority of the species are attracted to light.

Subfamily PLATYPODINAE

Tribe PLATYPODINI

Genus PLATYPUS Herbst

Platypus Herbst, 1793: 128. Type-species: *Bostrichus cylindrus* Fabricius (monot.).

Cylindra Illiger, 1825: 87. Type-species: *Cylindra platypus* Illiger (monot.) = *cylindrus* (Fabricius).

Stenoplatypus Strohmeier, 1914: 35. Type-species: Not yet designated.

Platypinus Schedl, 1939: 397. Type-species: Not yet designated.

Platyscapus Schedl, 1939: 397 (preoccupied *Hustache*, 1921). Type-species: Not yet designated.

Platyscapulus Schedl, 1957: 125 (replacement name *Platyscapus* Schedl). Type-species: Not yet designated.

Costaroplatus Nunberg, 1963: 109. Type-species: *Costaroplatus shenefelti* Nunberg (monot.).

abietis Wood, 1958: 39. UT: Oak Creek Canyon, Millard Co.; UT/ AZ NM.

Host: *Abies concolor*.

compositus Say, 1824: 324. MO; MO IL/ NY DE WV VA/ TX/ LA MS AL GA SC NC FL/ Mex., C.Amer., S.Amer., Old World.

tremiferus Chapuis, 1865: 174 (lectotype not designated). LA, TX.

perfossus Chapuis, 1865: 176. LA.

rudifrons Chapuis, 1865: 176. Mex: Teapa, Tabasco.

rugosus Chapuis, 1865: 176 (lectotype not designated). LA, TX.

subcavifrons Chapuis, 1865: 177. Brazil: Rio de Janeiro.

diegensis Schaufuss, 1897: 222. Madagascar.

foraminosus Schedl, 1933: 400. Brazil: Rio de Janeiro.

Host: Hardwood trees.

flavicornis (Fabricius), 1776: 211 (*Bostrichus*). AMER. BOR.; NJ VA/ LA MS AL GA SC FL.

HOST: *Pinus* spp.

parallelus (Fabricius), 1801: 384 (*Bostrichus*). BRITISH GUIANA: Essequibo; CA/ TX/ FL/ Mex., C.Amer., S.Amer., W.Ind., Old World.

linearis Stephens, 1835: 419. England: Sydenham.

poeyi Guérin-Meneville, 1838: 183. Cuba.

subcostatus Jacquelin-Duval, 1857: 238. Cuba.

dejeani Chapuis, 1865: 186 (lectotype not designated). Brazil and Guyanne.

marseuli Chapuis, 1865: 188. Brazil: Santa Catarina.

proximus Chapuis, 1865: 188. Brazil.

compressus Chapuis, 1865: 191. Venezuela: Caracas.

regularis Chapuis, 1865: 192. Brazil.

rugulosus Chapuis, 1865: 192 (lectotype not designated). Mex: Toxpam and Teapa.

reticulatus Chapuis, 1865: 194. Mex: Teapa, Tabasco.

rotundatus Chapuis, 1865: 195. Mex: Izabal.

kraatzi Chapuis, 1865: 196 (lectotype not designated). Colombia and Brazil.

lebasi Chapuis, 1865: 197. Colombia: Carthagene.

emarginatus Chapuis, 1865: 199. Mex: Toxpam.

punctulatus Chapuis, 1865: 199. TX.

subaequalis Chapuis, 1865: 200. Colombia.

wesmaeli Chapuis, 1865: 201. Argentina: Buenos Aires.

oblongus Chapuis, 1865: 203. Venezuela: Cumana.

difficilis Chapuis, 1865: 204 (lectotype not designated). Brazil and Guyanne.

praeivius Chapuis, 1865: 205. Colombia.

maeklini Chapuis, 1865: 207 (lectotype not designated). Colombia and Brazil.

erichsoni Chapuis, 1865: 211. W. Ind: St. Thomas Isl.

laevicollis Chapuis, 1865: 212. W. Ind: Guadeloupe Isl.

congoanus Duvivier, 1891: 363 (lectotype not designated). Congo: Matadi and Ibembo.

triquetrus Brethes, 1909: 226. Argentina: Chaco.

mattai Brethes, 1919: 26. Brazil: Manaos.

HOST: Hardwood trees.

pini Hopkins, 1905: 71. MEX: Chalco; AZ NM/ Mex., C.Amer.

quadridens Schedl, 1937: 38 (lectotype not designated). MEX: Sierra de Durango and Camelas, Durango.

TYPE DEPOSITORY: Synt: Berl. Mus., Schedl.

HOST: *Pinus* spp.

quadridentatus (Olivier), 1795: 5 (*Scolytus*). AMER. SEPT.; WV VA/ TX/ LA MS AL TN GA.

blanchardi Chapuis, 1865: 185. TX.

disciporus Chapuis, 1865: 219. TN.

HOST: *Quercus* spp.

wilsoni Swaine, 1916: 98. BC: Campbell River; BC WA OR ID/ CA.

HOST: Coniferous trees.

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Names are indexed as follows:

CAPITALS: All names for taxa above the generic level;

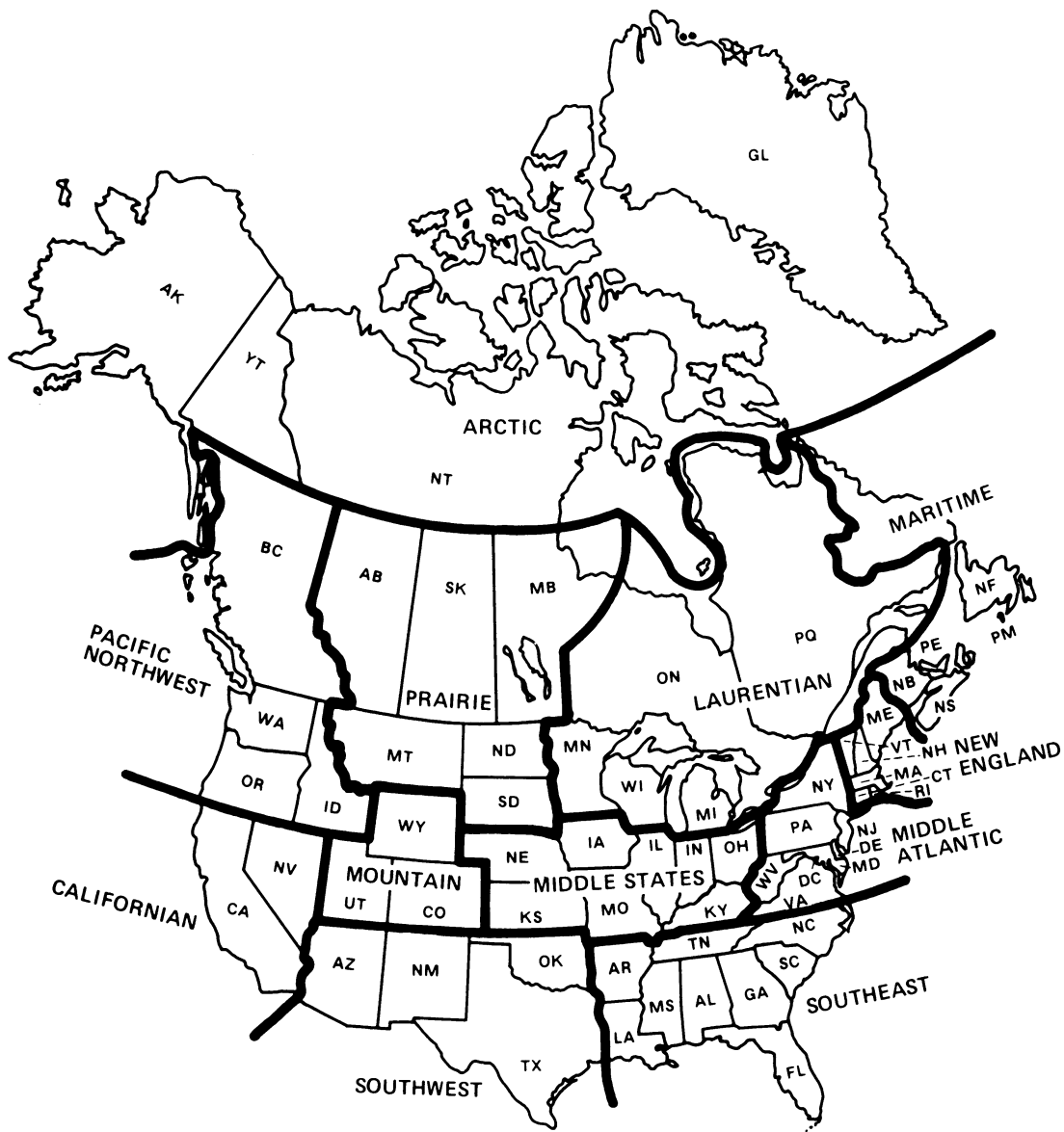
Boldface: Valid generic and subgeneric names;

Roman: Valid specific and subspecific names;

Italic: All invalid names such as synonyms, nomina nuda, and extra-limital taxa even though valid.

Parentheses around an author's name indicate that the specific name has been transferred from its original genus. The generic name following the author's name indicates the present placement of the species. Synonyms of species-group names are listed with the original spelling.

<i>abietis</i> Wood, <i>Platypus</i>	1	<i>marseuli</i> Chapuis, <i>Platypus</i>	2
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<i>emarginatus</i> Chapuis, <i>Platypus</i>	2	<i>Platyscapus</i> Schedl.....	1
<i>erichsoni</i> Chapuis, <i>Platypus</i>	2	<i>poeyi</i> Guérin-Meneville, <i>Platypus</i>	2
<i>flavicornis</i> (Fabricius), <i>Platypus</i>	2	<i>praeivius</i> Chapuis, <i>Platypus</i>	2
<i>foraminosus</i> Schedl, <i>Platypus</i>	1	<i>proximus</i> Chapuis, <i>Platypus</i>	2
<i>kraatzi</i> Chapuis, <i>Platypus</i>	2	<i>punctulatus</i> Chapuis, <i>Platypus</i>	2
<i>laevicollis</i> Chapuis, <i>Platypus</i>	2	<i>quadridens</i> Schedl, <i>Platypus</i>	2
<i>lebasii</i> Chapuis, <i>Platypus</i>	2	<i>quadridentatus</i> (Olivier), <i>Platypus</i>	2
<i>linearis</i> Stephens, <i>Platypus</i>	2	<i>regularis</i> Chapuis, <i>Platypus</i>	2
<i>maeklini</i> Chapuis, <i>Platypus</i>	2	<i>reticulatus</i> Chapuis, <i>Platypus</i>	2
		<i>rotundatus</i> Chapuis, <i>Platypus</i>	2
		<i>rudifrons</i> Chapuis, <i>Platypus</i>	1
		<i>rugosus</i> Chapuis, <i>Platypus</i>	1
		<i>rugulosus</i> Chapuis, <i>Platypus</i>	2
		<i>Stenoplatypus</i> Strohmeier.....	1
		<i>subaequalis</i> Chapuis, <i>Platypus</i>	2
		<i>subcavifrons</i> Chapuis, <i>Platypus</i>	1
		<i>subcostatus</i> Jacquelin-Duval, <i>Platypus</i>	2
		<i>tremiferus</i> Chapuis, <i>Platypus</i>	1
		<i>triquetrus</i> Brethes, <i>Platypus</i>	2
		<i>wesmaeli</i> Chapuis, <i>Platypus</i>	2
		<i>wilsoni</i> Swaine, <i>Platypus</i>	2



AB Alberta
 AK Alaska
 AL Alabama
 AR Arkansas
 AZ Arizona
 BC British Columbia
 CA California
 CO Colorado
 CT Connecticut
 DC District of Columbia
 DE Delaware
 FL Florida
 GA Georgia
 GL Greenland
 IA Iowa
 ID Idaho
 IL Illinois
 IN Indiana
 KS Kansas
 KY Kentucky
 LA Louisiana
 MA Massachusetts

MB Manitoba
 MD Maryland
 ME Maine
 MI Michigan
 MN Minnesota
 MO Missouri
 MS Mississippi
 MT Montana
 NB New Brunswick
 NC North Carolina
 ND North Dakota
 NE Nebraska
 NF Newfoundland
 NH New Hampshire
 NJ New Jersey
 NM New Mexico
 NS Nova Scotia
 NT Northwest Territories
 NV Nevada
 NY New York
 OH Ohio
 OK Oklahoma

ON Ontario
 OR Oregon
 PA Pennsylvania
 PE Prince Edward Island
 PM St. Pierre-Miquelon
 PQ Quebec
 RI Rhode Island
 SC South Carolina
 SD South Dakota
 SK Saskatchewan
 TN Tennessee
 TX Texas
 UT Utah
 VA Virginia
 VT Vermont
 WA Washington
 WI Wisconsin
 WV West Virginia
 WY Wyoming
 YT Yukon Territory