LITERATURE ON THE DWARF MISTLETOES: DAMAGE AND CONTROL

F. G. Hawksworth and R. F. Scharpf

The literature on the dwarf mistletoes (Arceuthobium spp.) is extensive. For our FAMULUS mistletoe literature retrieval system (Scharpf and others 1976) we have assembled nearly 2,500 references on these serious parasites of coniferous trees. For this literature review, we have selected the most important references dealing with damage and control of the dwarf mistletoes of the United States and Canada.

Details on nomenclature, hosts, and distribution of the dwarf mistletoes are given by Hawksworth and Wiens (1972).

1. ARCEUTHOBIIUM ABIETINUM - Fir dwarf mistletoe.

PRINCIPAL HOSTS: Abies concolor, A. magnifica, A. grandis.

DISTRIBUTION: U.S.: Arizona, California, Nevada, Oregon, Utah, and Washington


2. ARCEUTHOBIIUM AMERICANUM - Lodgepole pine dwarf mistletoe.

PRINCIPAL HOSTS: Pinus contorta, P. banksiana.


DAMAGE: Alexander and others 1976; Baranyay and Safranyik 1970; Dobie and Britneff 1975; Dooling 1974; Hawksworth 1958; Hawksworth and Hinds 1964; Muir 1965; Myers and others 1971; Piirto and others 1974; Roe and Amman 1970; Weir 1961a; Ziegler 1978.


3. ARCEUTHOBIIUM APAHCECUM - Apache dwarf mistletoe.

PRINCIPAL HOST: Pinus strobiformis.


CONTROL: Gottfried and Embry 1977.

4. ARCEUTHOBIIUM BLUMERTI (No common name)

PRINCIPAL HOST: Pinus strobiformis.


DAMAGE: Mathiason 1977.

CONTROL: None.
5. **Arceuthobium Californicum** - Sugar pine dwarf mistletoe.

**Principal Hosts:** *Pinus lambertiana*, *P. monticola*.

**Distribution:** U.S.: California, Oregon.


**Control:** Scharpf and Hawksworth 1968.

6. **Arceuthobium Campylopodum** - Western dwarf mistletoe.

**Principal Hosts:** *Pinus ponderosa* var. *ponderosa*, *P. jeffreyi*.

**Distribution:** U.S.: California, Nevada, Oregon, and Washington.


**Control:** Baranyay and Smith 1972; Childs 1963; Flora 1966a, 1966b; Hallin 1959; Kimme 1957b; Kimme and Graham 1960; Kimme and Mielke 1959; Kingsley 1977; Knutson 1975; Russell 1971; Schwandt 1977; Shea 1964b; Shea and Lewis 1971; Strand and Roth 1976; Weir 1977.

7. **Arceuthobium Cyanocarpum** - Limber pine dwarf mistletoe.

**Principal Hosts:** *Pinus flexilis*, *P. aristata*, *P. albicaulis*.

**Distribution:** U.S.: California, Colorado, Idaho, Montana, Nevada, Utah, and Wyoming.

**Damage:** Chick 1936; Gillman and Bailey 1977; Landis and others 1977; Urban 1968; Williams and others 1972.

**Control:** Urban 1968.

8. **Arceuthobium Divaricatum** - Pinyon dwarf mistletoe.

**Principal Hosts:** *Pinus edulis*, *P. monophylla*.

**Distribution:** U.S.: Arizona, California, Colorado, Nevada, New Mexico, Texas, and Utah.

**Damage:** Hreha 1978; Walters 1976.

**Control:** None.


**Principal Host:** *Pseudotsuga menziesii*.


**Principal Host:** *Pinus chihuahuana*.

**Distribution:** U.S.: Arizona, New Mexico.

**Damage:** Loomis 1972; Walters 1976.

**Control:** Walters 1976.

11. **Arceuthobium Laricis** - Larch dwarf mistletoe.

**Principal Host:** *Larix occidentalis*.


12. **ARCEUTHOBIUM MICROCARPUM** - Western spruce dwarf mistletoe.

**PRINCIPAL HOSTS:** Picea engelmannii, P. pungens.

**DISTRIBUTION:** U.S.: Arizona, New Mexico.


13. **ARCEUTHOBIUM OCCIDENTALE** - Digger pine dwarf mistletoe.

**PRINCIPAL HOSTS:** Pinus sabiniana, P. radiata, P. muricata.

**DISTRIBUTION:** U.S.: California.


CONTROL: Kimmey 1957b.


**PRINCIPAL HOSTS:** Picea mariana, P. glauca.


DAMAGE: Anderson 1949; Anderson and Kaufert 1959; Anderson and Moser 1977; Brower 1960; Doerner 1975; Ostry and Nicholls 1976; Pomerleau 1942.


15. **ARCEUTHOBIUM TSUGENSE** - Hemlock dwarf mistletoe.

**PRINCIPAL HOSTS:** Tsuga heterophylla, T. mertensiana.


16. **ARCEUTHOBIUM VAGINATUM subsp. CRYPTOPODUM** - Southwestern dwarf mistletoe.

**PRINCIPAL HOSTS:** Pinus ponderosa var. scopulorum, P. ponderosa var. arizonica, P. engelmannii.

**DISTRIBUTION:** U.S.: Arizona, Colorado, New Mexico, Texas, and Utah.


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