

A Bibliography of *Ceuthorhynchidius Horridus* (Panzer) (= *Trichosirocalus Horridus* (Panzer)), an Introduced Weevil for the Biological Control of *Carduus* Thistles†

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A Bibliography of *Ceuthorhynchidius Horridus* (Panzer) (= *Trichosirocalus Horridus* (Panzer)), an Introduced Weevil for the Biological Control of *Carduus* Thistles†

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Interest in *Ceuthorhynchidius horridus* (Panzer) has increased in the past decade because of its potential as a biological control agent for *Carduus* thistles. *C. horridus* was imported from Europe on the recommendation of Frick (1969), and underwent host specificity tests (Ward et al. 1974, Kok 1975) and basic biology studies (Kok et al. 1975) prior to official approval for its release in Virginia in 1974. Establishment of this weevil (Kok and Trumble 1979), its life history in Virginia (Trumble and Kok 1979), and incorporation of this species into an integrated pest management program for musk thistle (*Carduus nutans* L.) and plumeless thistle (*C. acanthoides*) (Trumble and Kok 1980a) have recently been reported.

Ceuthorhynchidius has been the subject of considerable interest for over 100 years. Jacquelin du Val erected the genus *Ceuthorhynchidius* in 1854, but *C. horridus* was subsequently placed in a related genus, *Ceuthorhynchus* (Bedel 1887). Unfortunately, when Schultz (1906) corrected this error and placed *C. horridus* in the genus *Ceuthorhynchidius*, the genus name was misspelled as *Ceuthorrhynchidius*. The double and single 'r' spellings of *Ceuthorhynchidius* have occurred in the literature ever since (Hoffman 1954, Dieckmann 1972, Trumble 1977, Boldt 1978). Additionally, repeated splitting and synonymy within the genus (Schultz 1902, 1906, Heyden et al. 1906, Wagner 1944) have effectively left without a genus name those species with six visible antennal segments, erect bristles, and brown coloring (Colonnelli 1979). Colonnelli (1979) has proposed the generic name *Trichosirocalus* for those species which can be grouped on the basis of these characteristics. We support the creation of this new genus, and believe that a new generic name will reduce the current confusion surrounding the scientific name of *C. horridus*.

The purpose of this manuscript is to provide an up to date reference list for research scientists interested in the biology and/or systematics of *C. horridus*. The reference list includes proceedings, technical, and popular articles. Also, several manuscripts dealing with the taxonomic position of the genus *Ceuthorhynchidius* with respect to related taxa have been listed which do not specifically mention *C. horridus* (du Val 1854, Wagner 1944, Colonnelli 1979). Only selected USDA/SEA reports have been cited; USDA quarterly reports have not been included. Wherever applicable, exact pages dealing with *C. horridus* have been cited to reduce acquisition costs. The literature has been categorized into major interest areas in Table 1. All references except those

followed by an asterisk (*) are on file in the Entomology Departments at Virginia Polytechnic Institute and State University and University of California, Riverside.

Table 1.—A categorized bibliography for *C. horridus*.*

Category	Biologically Oriented Papers	Systematically Oriented Papers
Detailed biology or description	21,43,58,75,78,79,84	1,32,33,52,69
Partial biology or description	7,9,15,36,41,42,57,61,65,76,77	3,14,20,23,27,44,46,54,55,56,63
With keys separating <i>C. horridus</i> from related spp.	—	1,4,14,18,20,32,33,34,44,54,55,56,70,71
Foreign exploration for <i>C. horridus</i>	7,9,16,25,65,66,87	—
Host specificity of <i>C. horridus</i>	16,36,83,85	—
Release and establishment for biocontrol	38,39,41,42,79,80	—
Mention only	5,8,10,19,22,26,28,29,37,40,48,50,59,73,81,87	2,6,11,13,24,30,35,45,47,49,51,53,60,62,64,67

* References not seen by author: 31,68,72,74; references 12,17, and 82 do not specifically mention *C. horridus*, but describe the genus. Numbers refer to references listed in the References Cited section.

Bibliographic sources included Zoological Record, Bibliography of Agriculture, a computer search (DIALOG) of Biological Abstracts and references in the National Agricultural Library, and the literature citations of accumulated papers, technical reports, and popular articles.

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