

Biology and management of horseweed (*Conyza canadensis*) and hairy fleabane (*Conyza bonariensis*) in California

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In recent years, increasing populations of horseweed or mare's tail (*Conyza canadensis*) and hairy or flax-leaved fleabane (*Conyza bonariensis*) have been observed in vineyards, orchards, canal banks, and roadsides in California, especially in the Central Valley. Numerous growers, pest control consultants, and managers have complained that the recommended rates of some postemergent herbicides, such as glyphosate, are no longer effective on these weeds. Since glyphosate-resistant biotypes of these species have now been confirmed, alternate integrated techniques need to be employed to effectively manage resistant and non-resistant biotype populations and to prevent the further development of herbicide resistance. A basic understanding of the biology of these weeds is essential to develop an integrated management approach. A full-length article authored by us was recently published by the University of California, Division of Agriculture and Natural Resources Publications. The article contains illustrations, information on the biology and ecology, and lists chemical and non-chemical options for control and management of the two species in cropped and non-crop systems in California. The article can be obtained online for free at: <http://ucanr.org/freepubs/docs/8314.pdf>.