

this continent. These should include models that predict the geographic areas where the pest may have the potential to inflict severe economic and environmental damage. Finally, a maximum-security containment facility needs to be dedicated to conduct research on methods of detection and suppression of dangerous alien arthropods.

Clearly, the environmental goodness of fit of the technologies used in eradication programs tends to be progressively improving. Also, economists are steadily improving their methodology to assess the costs and benefits of eradication programs absolutely and relative to other strategic options. Finally, the leaders and managers of eradication programs are becoming more adept at working with the public and in managing risk. For these reasons, I believe that the strategy of eradication will become more acceptable, and that some day our society will be more able to treat the rational aspects separately from the emotional aspects.

References Cited

- Animal and Plant Health Inspection Service.** 1972. The Khapra beetle problem in ships and cargoes. USDA, APHIS CA-82-1-1.
1983. Medfly and the aftermath. Symposium presented at the Entomological Society of America's annual meeting, December 1982. APHIS 81-60.
- Armitage, H. M.** 1955. Fumigation-eradication test on the Khapra beetle. *Down to Earth* 10(4): 2-3.
- Batra, L. R. & W. Klassen [eds.].** 1987. Public perceptions of biotechnology. Agricultural Research Institute, Bethesda, Md.
- Baumhover, A. H.** 1966. Eradication of the screwworm fly—an agent of myiasis. *J. Am. Med. Assoc.* 196: 240-248.
- Benson, R. B.** 1943. Studies in Siricidae, especially of Europe and Southern Asia (Hymenoptera, Symphyta). *Bull. Entomol. Res.* 34(1): 27-51.
1962. Holarctic Sawflies (Hymenoptera: Symphyta). *Bull. Br. Mus. (Nat. Hist.). Entomol.* 12(8): 381-409.
- Bram, R. A.** 1975. Tick-borne livestock diseases and their vectors. 1. The global problem. *World Animal Review* 16. Food & Agriculture Organization, Rome.
- Brindley, T. A. & F. F. Dicke.** 1963. Significant developments in European corn borer research. *Annu. Rev. Entomol.* 8: 155-176.
- Burditt, A. K. & E. J. Harris.** 1976. Tropical fruit flies. In W. Klassen [ed.], *An evaluation of ARS program on alternative methods of insect control.* USDA-ARS.
- Bushland, R. C.** 1985. Eradication program in the southwestern United States, pp. 12-15. In O. H. Graham [ed.], *Symposium on eradication of the screwworm from the United States and Mexico.* Miscellaneous Publication 62, Entomological Society of America, College Park, Md.
- Carlson, G. A. & L. F. Suguiyama.** 1983. Economic evaluation of the boll weevil eradication trial in North Carolina, 1978-80. In R. L. Ridgway, E. P. Lloyd, & W. H. Cross [eds.], *Cotton insect management with special reference to the boll weevil.* USDA Agriculture Handbook 589.
- Cole, T. W. & W. M. MacKellar.** 1956. Cattle tick fever, pp. 310-313. In *Animal diseases, USDA Yearbook of Agriculture, 1956.*
- Committee on Appropriations, U.S. House of Representatives.** 1975. The pilot boll weevil eradication experiment, pp. 775-785. In *Hearings: Agriculture, Environmental and consumer protection appropriations for 1975.* Government Printing Office, Washington, D.C.
- Cotton, R. T.** 1955. The khapra beetle. *Modern Sanitation* 7(5): 26-28, 47-48.
- Council for Agricultural Science and Technology.** 1987. Pests of plants and animals: their introduction and spread. CAST report 112, Ames, Iowa.
- Cox, H.C.** 1978. Eradication of plant pests—pros and cons. *Bull. Entomol. Soc. Am.* 24(1): 35.
- Dreistadt, S.** 1983. Sociopolitical impact: environmental concerns, pp. 36-44. In *Medfly and the aftermath.* Symposium presented at the Entomological Society of America's Annual Meeting, December 1982. USDA, APHIS 81-60.
- Eden, W. C.** 1978. Eradication of plant pests—pro. *Bull. Entomol. Soc. Am.* 24(1): 52-54.
- Entomological Society of America Review Committee.** 1973. The pilot boll weevil eradication experiment. *Bull. Entomol. Soc. Am.* 19: 218-221.
- Forbush, E. H. & C. H. Fernald.** 1896. The gypsy moth, *Porthetria dispar* (Linn.). Wright & Potter, Boston.
- Frankie, G. W., R. Gill, C. S. Koehler, D. Dilly, J. O. Washburn & P. Hamman.** 1982. Some considerations for the eradication and management of introduced insect pests in urban environments, Appendix O, pp. 237-255. In S. L. Battenfield [ed.], *Proceedings of a symposium on the imported fire ant.* USEPA, USDA, APHIS, Washington, D.C.
- Graham, O. H. [ed.].** 1985. *Symposium on eradication of the screwworm from the United States and Mexico.* Miscellaneous Publication 62, Entomological Society of America, College Park, Md.
- Graham, O. H. & J. L. Hourrigan.** 1977. Eradication programs for the arthropod parasites of livestock. *J. Med. Entomol.* 13: 629-658.
- Hardee, D. D. & F. J. Boyd.** 1976. Trapping during the pilot boll weevil eradication experiment, 1971-73, pp. 82-89. In *Boll Weevil Suppression, Management, and Elimination Technology.* (Proceedings of a conference, Feb. 13-15, 1974. Memphis, Tenn.) ARS-S-71. USDA, Washington, D.C.
- Hess, C. E.** 1981. Economic impact of the Mediterranean fruit fly. Mimeograph report, College of Agriculture and Environmental Sciences, University of California, Davis.
- Hightower, B. G., A. L. Adams & D. A. Alley.** 1965. Dispersal of released irradiated laboratory-reared screwworm flies. *J. Econ. Entomol.* 58(2): 373-374.
- Howard, L. O.** 1930. *A history of applied entomology.* Smithsonian Miscellaneous Collections, Vol. 84.
- Isbill, M.** 1957. Industry, government's dovetail effect to stop khapra beetles in the southwest. *Pest Control* 25(4): 18-20, 30.
- Knipling, E. F.** 1966. Some basic principles in insect population suppression. *Bull. Entomol. Soc. Am.* 12(1): 7-15.