

Recent Publications by George P. Markin, Ph.D.

- Gardner, D. E.; Markin, G. P.; Hodges, C. C., Jr. 1988. Survey for potential biological control agents for *Myrica faya* in the Azores and Madeira. Technical Report 63. Honolulu, HI: University of Hawaii, Cooperative National Park Resources Studies Unit. 18 p.
- Markin, G. P.; Dekker, L. A.; Lapp, J. A.; Nagata, R. F. 1988. Distribution of gorse (*Ulex europaeus* L.), a noxious weed in Hawai'i. Newsletter Hawaiian Botanical Society. 27(3): 110-117
- Markin, G. P. 1989. Alien plant management by biological control. In: Stone, C. P.; Stone, D. B., eds. Conservation Biology in Hawai'i. Honolulu, HI: University of Hawaii Press: 70-73.
- Markin, G. P.; Nagata, R. F. 1989. Host preference and potential climatic range of *Cyanotricha necyria* (Lepidoptera: Diptidae), a potential biological control agent of the weed *Passiflora mollissima* in Hawaiian forests. Technical Report 67. Honolulu, HI: University of Hawaii, Cooperative National Park Resources Studies Unit. 35 p.
- Markin, G. P.; Nagata, R. F.; Taniguchi, G. 1989. Biology and behavior of the South American moth, *Cyanotricha necyria* (Felder and Rogenhofer) (Lepidoptera: Notodontidae), a potential biocontrol agent in Hawaii of the forest weed, *Passiflora mollissima* (HBK) Bailey. Proceedings, Hawaiian Entomological Society. 29: 115-123.
- Markin, G. P.; Yoshioka, E. R. 1989. Present status of biological control of the weed gorse (*Ulex europaeus* L.) in Hawaii. In: Delfosse, E. S., ed. Proceedings: VII symposium on biological control of weeds; 1988 March 6-11; Rome, Italy. Ist. Sper. Patol. Veg. (MAF): 357-362.
- Markin, G. P. 1991. Status of biological control in vegetation management in forestry an overview. Proceedings: 12th annual forest vegetation management conference; 1991 May 14-16; Redding, CA: 140-153.
- Yoshioka, E. R.; Markin, G. P. 1991. Effects of biological control of Christmas berry (*Schinus terebinthifolius*) in Hawaii. In: Center, T. D.; Doren, R. F.; Hofstettler, R. L.; Myers, R. L.; Whitetaker, L. D., eds. Proceedings: symposium on exotic pest plants; 1988 November 2-4; Miami, FL. Technical Report NPS/NREVER/NRTR-91/06. Washington, D.C.: U.S. Department of Interior, National Park Service: 377-387.
- Yoshioka, E. R.; Isherwood, M. O.; Markin, G. P. 1991. Progress of biological control of gorse in Hawaii. Proceedings: Western Society Weed Science; 1991 March 12-14. 44: 75-78.

- Markin, G. P. 1991. Insect survey for potential biological control agents of *Myrica faya* in the Azores and Madeira Islands, Portugal, 1988. Technical Report 75. Honolulu, HI: University of Hawaii, Cooperative National Park Resources Studies Unit. 26 p.
- Markin, G. P.; Yoshioka, E. R. 1992. Evaluating proposed biological control programs for introduced plants. In: Stone, C. P.; Smith, C. W.; Tunison, J. T., eds. Alien plant invasions in native ecosystems of Hawai'i. Honolulu, HI: University of Hawaii Press: 757-778.
- Markin, G. P.; Lai, P. Y.; Funasaki, G. Y. 1992. Status of biological control of weeds in Hawaii and implications for managing native ecosystems. In: Stone, C. P.; Smith, C. W.; Tunison, J. T., eds. Alien plant invasions in native ecosystems of Hawai'i. Honolulu, HI: University of Hawaii Press: 460-482.
- Markin, G. P.; Nagata, R. F.; Gardner, D. E. 1992. Biological control of introduced weeds of native Hawaiian forests. Proceedings of the session on tropical forestry for people of the Pacific, XVII Pacific Science Congress; 1991 May 27-28; Honolulu, HI. Gen. Tech. Rep. PSW-GTR-129. Berkeley, CA: U.S. Department of Agriculture, Forest Service: 84-88.
- Markin, G. P. 1992. Effects of exotic weeds on the Hawaiian wilderness areas. Proceedings: 1992 Society of American Foresters National Convention; 1992 October 25-27; Richmond, VA. Bethesda, MD: Society of American Foresters: 215-220.
- Norambuena, H. M.; Markin, G. P.; Gardner, D. E.; Galdames, R. G. 1992. Estudios de especificidad del hongo *Phragmidium violaceum* (Schultz) inter sobre *Rubus presentes* en Hawaii. *Agro Sur* 20: 117-123.
- Markin, G. P.; Gardner, D. E.; Norambuena, H. M.; Galdames, R. G. 1993. Evaluation of the rust fungus *Phragmidium violaceum* in Chile for the biocontrol of prickly Florida blackberry (*Rubus argutus*) in Hawai'i. *Newsletter of the Hawaiian Botanical Society*: 32(4): 62-65.
- Markin, G. P.; Gardner, D. E. 1993. Status of biological control in vegetation management in forestry. *Canadian Journal of Forest Research*. 23(10): 2023-2031.
- Markin, G. P.; Yoshioka, E. R.; Brown, R. E. 1995. Gorse. In: Nechols, J. R.; Andres, L. A.; Beardsley, J. W.; Goeden, R. D.; Jackson, C. G., eds. Biological control in the western United States. Publication 3361. Oakland, CA: University of California, Division of Agriculture and Natural Resources: 299-302.

- Markin, G. P.; Burkhart, R. M. 1995. Clidemia (Koster's curse). In: Nechols, J. R.; Andres, L. A.; Beardsley, J. W.; Goeden, R. D.; Jackson, C. G., eds. Biological control in the western United States. Publication 3361. Oakland, CA: University of California, Division of Agriculture and Natural Resources: 306-308. (Junior author did the foreign exploration to find and test the biocontrol agents. I was involved in the actual release and monitoring, and I wrote the paper.)
- Markin, G. P.; Pemberton, R. W. 1995. Banana poka. In: Nechols, J. R.; Andres, L. A.; Beardsley, J. W.; Goeden, R. D.; Jackson, C. G., eds. Biological control in the western United States. Publication 3361. Oakland, CA: University of California, Division of Agriculture and Natural Resources: 309-311.
- Lutzow-Felling, C. J.; Gardner, D. E.; Markin, G. P.; Smith, C. W. 1995. *Myrica faya*: review of the biology, ecology, distribution, and control, including an annotated bibliography. Technical Report 94. Honolulu, HI: University of Hawaii, Cooperative National Park Resources Studies Unit. 114 p.
- Campbell, C. L.; Markin, G. P.; Johnson, M. W. 1993. Fate of *Cyanotricha necyria* (Lepidoptera: Notodontidae) and *Pyrausta perelegans* (Lepidoptera: Pyralidae) released for biological control of banana poka (*Passiflora mollissima*) on the island of Hawai'i. Proceedings of the Hawaiian Entomological Society. 32: 123-130.
- Yoshioka, E. R.; Markin, G. P. 1993. Outbreak of *Achaea janata* (Linnaeus) (Lepidoptera: Noctuidae) on Christmas berry in Hawai'i. Proceedings of the Hawaiian Entomological Society. 32: 153-155.
- Gardner, D. E.; Smith, C. W.; Markin, G. P. 1995. Biological control of alien plants in natural areas of Hawaii. In: Delfosse, E. S., Scott, R. R., eds. Proceedings: eighth international symposium on biological control of weeds; 1992 February 2-7; Canterbury, New Zealand. Melbourne, Australia: DSIR/CSIRO: 35-40.
- Markin, G. P.; Nagata, R. F. 1995. Failure in Hawaii of the sawfly, *Priophorus morio* (Hymenoptera: Tenthredinidae), a biological control agent for *Rubus argutus*, due to a virus. In: Delfosse, E. S.; Scott, R. R., eds. Proceedings: eighth international symposium on biological control of weeds; 1992 February 2-7; Canterbury, New Zealand. Melbourne, Australia: DSIR/CSIRO: 309-312.
- Markin, G. P.; Yoshioka, E. R.; Conant, P. 1996. Biological control of gorse in Hawaii. In: Moran, V. C.; Hoffmann, H. J., eds. Proceedings: IX international symposium on biological control of weeds; 1996 January 19-26; Stellenbosch, South Africa. Stellenbosch, South Africa: University of Capetown: 371-375.
- Markin, G. P.; Silva, L.; Aguiar, A. M. F. 1995. The insect fauna associated with the tree *Myrica faya* (Myricaceae) in the Macaronesia Islands and on mainland Portugal. Bol. Mus. Mun. Funchal. Supl. no. 4: 411-420.

- Markin, G. P.; Yoshioka, E. 1996. The phenology and growth rates of the weed gorse (*Ulex europaeus*) in Hawai'i. Newsletter of the Hawaiian Botanical Society. 35(3-4): 45-50.
- Leen, R.; Markin, G. 1996. Identity, release and establishment of *Caloptilia* nr. *Schinella* (Walsingham) (Gracillariidae) on the island of Hawaii for control of *Myrica faya* Aiton (Myricaceae). Journal of the Lepidopterists' Society. 50(4): 348-351.
- Silva, L.; Markin, G.; Tavares, J. 1995. *Argyresthia atlanticella* Rebel (Insecta: Lepidoptera) an excluded agent for *Myrica faya* Aiton (Myricaceae) biocontrol. Arquipélago: 105-113.
- Coombs, E. M.; Markin, G. P.; Turner, C. E. 1995. Gorse. In: Rees, N. R.; Quimby, P. C., Jr.; Coombs, E. M.; Turner, C. E.; Spencer, N.R.; Knutson, L. V., eds. Biological control of weeds in the West. Bozeman, MT: Western Society of Weed Science: 13 p.
- Markin, G. P. (contributor). 1998. In: Wade, D., ed. Reviewer's manual for the technical advisory group for biological control agents of weeds. Beltsville, MD: U.S. Department of Agriculture, Animal and Plant Health Inspection Service: 1.1-20.1.
- Markin, G. P.; Yoshioka, E. R. 1998. Introduction and establishment of the biological control agent *Apion ulicis* (Forster) (Coleoptera: Apionidae) for control of the weed gorse (*Ulex europaeus* L.) in Hawai'i. Proceedings of the Hawaiian Entomological Society. 33: 35-42.
- Markin, G. P.; Yoshioka, E. R. 1998. Biological control of the horn fly, *Haematobia irritans* L., in Hawai'i (Diptera: Muscidae). Proceedings of the Hawaiian Entomological Society. 33: 43-50.
- Birdsall, J. L.; Markin, G. P. 1997. Safety testing of potential biological control agents of kudzu. Proceedings: eighth annual southern Appalachian man and the biosphere conference; 1997 November 4-7; Gatlinburg, TN: U.S. Department of Interior, Biological Resources Division: 17.
- Markin, G. P.; Miller, J. 1997. Biological control of kudzu (*Pueraria lobata*): a progress report. Proceedings: eighth annual southern Appalachian man and the biosphere conference; 1997 November 4-7; Gatlinburg, TN: U.S. Department of Interior, Biological Resources Division: 41.
- Syrett, P.; Fowler, S. V.; Coombs, E. M.; Hosking, J. R.; Markin, G. P.; Paynter, Q. E.; Sheppard, A. W. 1999. The potential for biological control of Scotch broom (*Cytisus scoparius*) (Fabaceae) and related weedy species. Biocontrol News and Information. 20(1): 17N-34N.

- Markin, G. P., contributor. Hayes, D.; Beard, R.; Lerum, J., comps. 1998. Stemming the invasive tide. Washington, D.C.: U.S. Department of Agriculture, Forest Service. 30 p.
- Markin, G. P. 1998. Biological control of exotic forest weeds. Proceedings: 49th annual western forest insect work conference; 1998 March 2-5; Jackson, WY. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station: 75-76.
- Markin, G. P. 1999. USDA APHIS and its technical advisory group. In: Isaacson, D.; Brookes, M. H., eds. Weed biocontrol: extended abstracts from the 1997 interagency noxious-weed symposium. FHTET-98-12. Morgantown, WV: U.S. Department of Agriculture, Forest Service: 9-10.
- Causton, C. E.; Markin, G. P.; Friesen, R. 2000. Exploratory survey for biological control agents of *Passiflora mollissima* (HBK) Bailey in Venezuela. *Biological Control*. 18: 110-119.
- Redmon, S.; Forrest, T. G.; Markin, G. P. 2000. Biology of *Bruchidius villosus* (Coleoptera: Bruchidae) on Scotch broom in North Carolina. *Florida Entomologist*. 83: 242-53.
- Markin, G. P.; Nagata, R. F. 2000. Host suitability studies of the moth *Pyrausta perelegans* Hampson (Lepidoptera: Pyralidae) as a control agent of the forest weed banana poka, *Passiflora mollissima* (HBK) Bailey in Hawaii. *Proceedings of the Hawaiian Entomological Society*. 34: 169-179.
- Hill, R. L.; Markin, G. P.; Gourlay, A. H.; Fowler, S. V.; Yoshioka, E. 2001. Evaluation, release, and establishment of *Sericothrips staphylinus* Haliday (Thysanoptera: Thripidae) as a biological control agent for gorse, *Ulex europaeus* L. (Fabaceae) in New Zealand and Hawaii. *Biological Control*. 21: 63-74.
- Markin, G. P. 2001. Biology and release of the moth *Caloptilia* sp. nr. *schinella* (Walsingham) (Lepidoptera: Gracilariidae), a biological control agent of the weed firetree (*Myrica faya*) Aiton in Hawai'i. Submitted to *Proceedings of Hawaiian Entomological Society*. 39: 67-77.

Petitions to Release Biological Control Agents

- Markin, G. P. 1987. Request for release of *Cyanotricha necyria* from Volcanoes National Park insect quarantine for biological control of *Passiflora mollissima*. Submitted to Hawaii Department of Agriculture, April 30, 1987. 57 p.

- Markin, G. P.; Lapp, J. A.; Nagata, R. F. 1988. Host suitability of the moth, *Agonopterix ulicetella* (Stainton) (Lepidoptera: Oecophoridae) as a control agent of the weed gorse, *Ulex europaeus* L. in Hawaii. Release request submitted to Hawaii Department of Agriculture, May 26, 1988. 28 p.
- Yoshioka, E. R.; Markin, G. P. 1989. Recommendation for re-release of the gorse biological control agent *Apion scutellare* Kirby in Hawaii. Submitted to Hawaii Department of Agriculture, February 2, 1989. 16 p.
- Markin, G. P.; Brown, R. D. 1989. Petition for introduction and release in the United States of the moth *Agonopterix ulicetella* (Stainton) (Lepidoptera: Oecophoridae) for biological control of gorse (*Ulex europaeus* L., Leguminosae). Submitted to USDA-APHIS, December 15, 1989. 42 p.
- Markin, G. P. 1990. Host suitability studies of the moth *Phyllonorycter myricae* Deschka (Lepidoptera: Gracillariidae) as a control agent of the weed firetree (*Myrica faya*) in Hawaii. Request for release of a biological control agent from quarantine. Submitted to Hawaii Department of Agriculture, April 20, 1990. 40 p.
- Markin, G. P. 1990. Host suitability studies of the gorse thrips *Sericothrips staphylinus* Haliday (Thysanoptera: Thripidae) as a control agent for the weed gorse (*Ulex europaeus* L.) in Hawaii. Submitted to Hawaii Department of Agriculture, October 3, 1990. 21 p.
- Markin, G. P.; Nagata, R. F. 1990. Host suitability studies of the moth *Pyrausta perelegans* (Lepidoptera: Pyralidae) as a control agent of the forest weed banana poka (*Passiflora mollissima*) in Hawaii. Submitted to the Hawaii Department of Agriculture, August 7, 1990. 21 p.
- Markin, G. P.; Yoshioka, E. R. 1993. Host suitability studies of the moth *Pempelia genistella* (Lepidoptera: Pyralidae) as a biological control agent for the weed gorse (*Ulex europaeus* L.) in Hawaii. Submitted to Hawaii Department of Agriculture, May 20, 1993. 14 p.
- Markin, G. P. 1993. A request to release the biological control agent *Urophora stylata* F. (Diptera: Tephritidae) in Hawaii for control of the weed bull thistle (*Cirsium vulgava*) (Sava) Ten. (Asteraceae). Submitted to the Hawaii Department of Agriculture, October 4, 1993. 12 p.
- Friesen, R.; Markin, G. P.; Nagata, R. F. 1994. Host suitability studies of the moth *Josia fluonia* (Lepidoptera: Dioptidae) as a biological control agent for the weed *Passiflora mollissima* in Hawaii's forests. Submitted to the Hawaii Department of Agriculture, January 28, 1994. 30 p.

Conant, R.; Markin, G. P. 1994. Request for approval for release of the gorse spider mite *Tetranychus lintearius* Dufour (Acarina: Tetranychidae) from quarantine for mass propagation and liberation to aid in the control of gorse (*Ulex europaeus*). Submitted to the Hawaii Department of Agriculture, May 18, 1994. 14 p.

Isaacson, D. L.; Markin, G. 1998. A petition to import *Bruchidius villosus* from North Carolina to the western U.S. for biological control of Scotch broom (*Cytisus scoparius*). Submitted to USDA-APHIS, June 22, 1998. 25 p.

Littlefield, J. L.; Birdsall, J.; Helsley, J.; Markin, G. 2000. A petition for the introduction and field release of the *Chondrilla* root moth, *Bradyrrhoa gilveolella* (Treitschke), for the biological control of Rush skeletonweed in North America. Submitted to USDA-APHIS, March 2000. 45 p.