

## ADDENDUM

**WESTERN GALL RUST — A THREAT  
TO *PINUS RADIATA* IN NEW ZEALAND***New Zealand Journal of Forestry Science* 37(2): 143–152.

TOD D. RAMSFIELD,

Ensis, Private Bag 3020, Rotorua, New Zealand

DARREN J. KRITICOS,

Ensis, Yarralumla, ACT, Australia

DETLEV R. VOGLER,

USDA Forest Service, Pacific Southwest Research Station,  
Institute of Forest Genetics, Placerville, California, USA

and BRIAN W. GEILS

USDA Forest Service, Rocky Mountain Research Station,  
Flagstaff, Arizona, USA

(Received for publication 1 October 2007)

Our article contained the statement, “The history of early *P. radiata* establishment in New Zealand is not known (Maddern Harris 1991)”. In fact, the early history of *P. radiata* in New Zealand is quite well known and has been documented by Shepherd (1990a, b). Shepherd suggested that *P. radiata* was first cultivated in England in 1833 after the importation of seeds and specimens from California by botanist David Douglas. Seed was again imported into England from California by William Lobb, on behalf of James Veitch, in 1850–51 and again in 1854–57. A number of *P. radiata* importations into New Zealand have been documented. Initially, from 1859, they were on a specimen-tree scale, from England or Australia, sometimes involving live plants, but primarily seed. The first record of seed importation directly from California is 1865. By the late 1860s the scale of importations was increasing to significant seedlots. In particular, Sir James Hector, director of the New Zealand Geological Survey, director of the Colonial Museum, and manager of the Wellington Botanic Garden, played a key role in the distribution of 56 pounds of *P. radiata* seed throughout New Zealand between the years 1870 and 1885. Other seed importations are known, with hints of yet other significant but unconfirmed importations. Given that cones can be produced before age 10, and

cumulative crops of seed can be collected with the closed cones, it is probable that New Zealand was self-sufficient for seed by the 1880s.

#### REFERENCES

- MADDERN HARRIS, J. 1991: Radiata pine in New Zealand. Pp. 1-1 – 1-7 in Kininmonth, J.A.; Whitehouse, J.J. (Ed.) "Properties and Uses of New Zealand Radiata Pine", Volume 1. New Zealand Ministry of Forestry, Rotorua.
- SHEPHERD, R.W. 1990a: Early importations of *Pinus radiata* to New Zealand and distribution in Canterbury to 1885: Implications for the genetic makeup of *Pinus radiata* stocks. Part I. *Horticulture in New Zealand 1(1)*: 33–38.
- 1990b: Early importations of *Pinus radiata* to New Zealand and distribution in Canterbury to 1885: Implications for the genetic makeup of *Pinus radiata* stocks. Part II. *Horticulture in New Zealand 1(2)*: 28–35.