Added in 1999 - Deleted in 2002 - Added again in 2003 - Deleted in 2008

Reasons for deletion: Insufficient data was available to conclude about the risks that this oak disease may present for the EPPO region. In particular, no data was available about the susceptibility of European species of oak. In 2008, *R. quercivora* was therefore removed from the EPPO Alert List.

Raffaelea quercivora (a lethal disease of oak in Japan)

Why	This disease came to our attention as high mortality of <i>Ouercus</i> was reported in
wity	lange It was included on the EDDO Alort List in 1000 as 'fungal oak disease' and
	doloted in 2002 as no new information was available. However, because and
	nessible causal agent has been identified (Daffaelea guergivera sp. nev.) and a
	bigh mortality is still observed in Japan, the EDDO Secretariat decided to include
	it again in the Alert List
Whore	In ayan (Henshu, Kuushu)
where	Japan (Honshu, Kyushu).
On which plants	<i>Q. serrata</i> and <i>Q. crispula</i> .
Damage	Since 1980, massive mortality of oak trees (more than 200,000 per year) has been
	observed in western coastal areas of Honsnu. Mortality occurs during summer
	months. Prior to wilting, massive attacks by ambrosia beetles (Platypus
	quercivorus - Coleoptera: Platypodidae) and xylem discoloration are observed.
	Recent studies have shown that the cause of oak tree mortality is the blockage of
	the ascent of xylem sap induced by the fungus which is transmitted by the insect
	P. quercivorus.
	Images can be viewed on the Internet at:
	<u>http://cse.ffpri.affrc.go.jp/keiko/hp/oak.html</u>
	http://cse.ffpri.affrc.go.jp/keiko/hp/oakwilting-overview.html
Possible identity	Raffaelea quercivora sp. nov. (an anamorphic Ascomycete) was isolated from
	discoloured sapwood, necrotic inner bark, beetle body surfaces and galleries.
	Inoculation tests confirmed its pathogenicity to <i>Q. acutissima</i> and <i>Q. crispula</i> .
Pathway	Unknown (plants for planting? wood?).
Possible risks	Oaks are important forest and amenity trees in the EPPO region. Although a
	putative causal agent has been identified data is still lacking on the etiology of
	this disease (as several factors might be included, climatic factors, insects,
	fungus). Data is also needed on the susceptibility of European oaks.
Source(s)	Ito, S.; Murata, M.; Yamada, T. (2003) Massive mortality of Fagaceous trees in Japan. Abstract of a
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	auercivorus (Coleoptera: Platypodidae). Applied Entomology and Zoology 41(1), 123-128.
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	(Murayama) (Coleoptera: Platypodidae) and the associated fungus: aim is to clarify the damage
	Kuroda K (1998) Determinant factor of oak mortality in Japan xylem discoloration and dysfunction
	associated with beetle invasion and fungal infection. Abstracts of papers presented at the 7th
	International Congress of Plant Pathology, Edinburgh, GB, 1998-08-09/16 (Abst. 3.7.16).
	Kuroda K (2001) Responses of <i>Quercus</i> sapwood to infection with the pathogenic fungus of a new wilt
	disease vectored by the ambrosia beetle Platypus quercivorus. Journal of wood science 41, 425-
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	Fagaceae species inoculated with Raffaelea quercivora. Forest Pathology 37(2), 73-79.
	INTERNET (last retrieved on 2007-04).
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	http://www.aphis.usda.gov/plant_health/plant_pest_info/pest_detection/downloads/pra/pquerciv
	<u>oruspra.pdf</u>
	lokyo University Forests website

Defence responses of oak sapwood in relation to wilt of oak trees in Japan by Yamada T & Ichihara
Y. http://www.uf.a.u-tokyo.ac.jp/research/yamada/nz.pdfEPPO RS 99/027, 2003/067, 2007/070
Panel review date2007-03Entry date 1999-02 (deleted in 2002, added again in

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