



ORGANISATION EUROPEENNE  
ET MEDITERRANEENNE  
POUR LA PROTECTION DES PLANTES

EUROPEAN AND MEDITERRANEAN  
PLANT PROTECTION  
ORGANIZATION

# EPPPO Reporting Service

No. 7 PARIS, 2007-07-01

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2007/124 A review of Plum pox virus

At the initiative of Drs Capote, Cambra, and Llácer from IVIA Valencia (ES), a review of *Plum pox virus* (*Potyvirus*, PPV - EPPO A2 List) was published in the *Bulletin OEPP/EPPO Bulletin*. It includes a large number of papers written by PPV experts on the following topics: geographical distribution, host plants and symptomatology, genetics, diagnostics, epidemiology, control, breeding, plant-virus interactions. The EPPO Secretariat has extracted below some detailed information.

- PPV strains

According to their serological and molecular properties, PPV isolates have now been grouped into 6 types or strains (the main ones being M and D):

- PPV-D (Dideron)
- PPV-M (Marcus)
- PPV-EA (El Amar)
- PPV-C (Cherry)
- PPV-W (Winona) - these isolates were found in Canada and found distinct from all other known strains. Because all infected trees have been removed, these strains are no longer found in the field.
- PPV-Rec (recombinant between D and M strains).

- Geographical distribution

PPV was first described in Bulgaria in 1932, although the disease had been observed earlier (as early as 1917-1918). It progressively spread to a large part of Europe, around the Mediterranean Basin and reached the Near East. More recently, it was found in the Americas and in Asia. Detailed information is provided in this review about the countries listed below. In addition, it can be noted that PPV is reported for the first time from Pakistan and that recent surveys have confirmed that PPV is still absent from Finland, Lebanon, Australia, and New Zealand.

EPPO region: Albania (PPV-D, PPV-M, PPV-Rec), Bosnia and Herzegovina (PPV-D, PPV-M, PPV-Rec), Bulgaria (PPV-D, PPV-M), Croatia (PPV-D, PPV-M), Czech Republic (PPV-D, PPV-M, PPV-Rec), Egypt (PPV-EA), France (PPV-D, PPV-M), Germany (PPV-D, PPV-M, probably also PPV-Rec), Greece (PPV-D, PPV-M), Hungary (PPV-D, PPV-M, PPV-C), Italy (PPV-D, PPV-M, PPV-Rec, PPV-C no longer found), Lithuania (PPV-D), Moldova (PPV-C), Netherlands, Norway (PPV-D), Poland (PPV-D, PPV-M), Romania (PPV-D, PPV-M, PPV-C, PPV-Rec), Russia, Serbia (PPV-D, PPV-M, PPV-Rec), Slovakia (PPV-D, PPV-M, PPV-Rec), Slovenia (PPV-D, PPV-M), Spain (PPV-D, PPV-M was eradicated), Switzerland, Tunisia (PPV-D), Turkey (PPV-D, PPV-M), Ukraine, United Kingdom (PPV-D).

Africa: Egypt (PPV-EA), Tunisia (PPV-D).

Asia: China (Hunan Province but no other data has been obtained since 2003), Iran, Kazakhstan (PPV-D), Pakistan (PPV-D, PPV-Rec; see also EPPO RS 2007/126), Syria (PPV-D, PPV-M).

North America: Canada (Ontario, but eradicated from Nova Scotia; PPV-D, PPV-W eradicated), USA (Michigan, New York, Pennsylvania; PPV-D).

South America: Argentina (PPV-D), Chile (Metropolitan and VI Region; PPV-D).

- New or confirmed hosts

The following plants have now been confirmed as host plants of PPV. However, the importance of herbaceous plants in the epidemiology of PPV is still being debated.

*Ajuga genevensis*, *Capsella bursa pastoris*, *Cichorium* sp. *Cirsium arvense*, *Clematis* sp. *Convolvulus arvensis*, *Euonymus europaea*, *Lactuca serriola*, *Ligustrum vulgare*, *Lythospermum arvensis*, *Prunus cerasifera*, *P. japonica*, *P. mandshurica*, *P. mexicana*, *P. persica* f. *atropurpurea*, *P. serotina*, *P. spinosa*, *P. blireana*, *Rorippa sylvestris*, *Rumex crispus*, *Taraxacum officinale*, *Veronica hederifolia*.

Source: Capote N, Cambra M, Llácer G, Petter F, Platts LG, Roy AS, Smith IM (eds) (2006) A review of *Plum pox virus*. *Bulletin OEPP/EPPO Bulletin* 36(2), 201-349.

Additional key words: new records, detailed records, host plants

Computer codes: PPV000

### 2007/125 First report of *Plum pox virus* in Montenegro

In Montenegro, studies on the presence of *Plum pox virus* (*Potyvirus*, PPV - EPPO A2 List) were conducted in 2006, in both extensive and intensive plum orchards (*Prunus domestica*) near Nikšić (west of the country). Mild to severe symptoms were observed in 15 orchards, usually on a few trees only. In total, 19 samples were collected and tested (ELISA and molecular tests). Results showed the presence of PPV-D, PPV-M and PPV-Rec. This is the first published report confirming the occurrence of PPV in Montenegro.

The situation of *Plum pox virus* in Montenegro can be described as follows: Present, its occurrence was confirmed in 2007. PPV-M, PPV-D and PPV-Rec were detected.

Source: Viršček Marn M, Mavrič Pleško I, Zindović J (2007) The discovery and characterization of *Plum pox virus* (PPV) isolates in Montenegro. *New Disease Reports* volume 15 (February - July 2007).  
<http://www.bspp.org.uk/ndr/july2007/2007-59.asp>

Additional key words: new record

Computer codes: PPV000, ME

### 2007/126 First finding of *Plum pox virus* in Pakistan

In Pakistan, several apricot trees (*Prunus armeniaca*) showing virus symptoms were observed in a small orchard in the Baltistan District (north of Pakistan) located at an altitude of 2400 m. Dried leaf samples taken from one symptomatic tree were tested (ELISA) for the presence of *Plum pox virus* (*Potyvirus*, PPV - EPPO A2 List) and gave positive results. Molecular studies showed that two different PPV isolates were present: PPV-D and PPV-Rec. Further studies are needed to better understand the situation of PPV in Pakistan, but this is the first indication that PPV occurs in this country.

The situation of *Plum pox virus* in Pakistan can be described as follows: Probably present, first detected in 2006 in 1 tree, Baltistan District (north), confirmation studies are needed.

Source: Kollerová E, Nováková S, Šubr Z, Glasa M (2006) *Plum pox virus* mixed infection detected on apricot in Pakistan. *Plant Disease* 90(8), p 1108.

Additional key words: new record

Computer codes: PPV000, PK









































