

Geographical dissemination of fireblight disease in Iran

N. HASSANZADEH

Plant Pests & Diseases Research Institute

An ongoing extensive survey of pome fruit orchards is conducted to determine the geographical distribution of fireblight disease in the country. Of two hundred ninety-four orchards and nurseries sampled for *E. amylovora* during 1992-97, ninety-three samples from different hosts/locations were highly infected. Severe outbreaks are observed in several orchards and few nurseries of Tehran and west Azarbaijan provinces. Among the host trees, losses are seen mostly on quince plants. Current official reports indicate a serious and devastating outbreaks in Ghazvin, whereas from west Azarbijan province incidencer of a mild disease has been reported. All isolates of *E. amylovora* strains were similar regarding on biochemical, electrophoretic patterns and serological characteristics.

References

- AFUNIAN, M. R. and H. RAHIMIAN 1995. A new host plant for *Erwinia amylovora*, the causal agent of fireblight in Iran. Proceedings of the 12th Iranian Plant Protection Congress, Karaj, p. 220.
- BEER, S. W. 1979. Fireblight Inoculum: sources and dissemination. EPPO Bull. 9 (1): 13-25.
- BRADBURY, J. F. 1986. Guide to Plant Pathogenic Bacteria. CAB International Mycological Institute Kew, 332 pp.
- BURRILL, T. J. 1878. Pear-Blight. III. State Hort. Soc. Trans. 11: 114-116; 12: 79-81.
- HASSANZADEH, N., Z. ZAKERI and M. MAZAREI 1993. The present status of fireblight in Iran. Proceedings of the 11th. Plant Protection Congresses of Iran, Rasht, p. 223.
- HASSANZADEH, N. 1996. Fireblight disease of pear, apple & quince trees. Technical

issue, No. 1, pp. 18.

LAEMMLI, V. K. 1970. Cleavage of structural proteins during the assembly of the head of bacteriophage T4. *Nature* 227: 680-685.

MAZAREI, M., N. HASSANZADEH and M. R. HAJIMORAD 1993. Serological identification of *E. amylovora*, causal agent of fireblight disease. Proceedings of the 11th. Plant Protection Congress of Iran, Rasht, p. 232.

MAZAREI, M., Z. ZAKERI and N. HASSANZADEH 1994. The status of fireblight disease on pome friuts in west Azarbijan and Ghazvin in 1991-1992 Iran. *J. Plant Path.* No. 30: 25-32. (in Farsi with English summary).

SCHAAD, N. W. (ed.), 1988. *Laboratroy Guide for Identification of Plant Pathogenic Bacteria*. 2nd ed. (amer.) *Phytopathol. Sco.*, St. Paul. MN. USA. 194 p.

ZAKERI, Z. and B. SHARIFNABI, 1991. Fireblight of pear in Karaj. *Proceeding of 10th. Plant Protection Congress of Iran, Kerman*, p. 157.

VAN DER ZWET, T. and H. L. KEIL, 1979. *Fireblight- A Bacterial Disease of Plants*. U.S. Dept. Agri., 200 pp.

Address of author: Dr. N. HASSANZADEH, Plant Pests and Diseases Research Institute, P. O. Box 1454, 19395, Tehran, Iran.