

International Society for Horticultural Science

The world's leading independent organization of horticultural scientists

[Apply for membership](#)
[Manage/Renew your membership](#)
[Science](#) [Calendar](#) [Publications](#) [Membership](#) [About us](#) [Contact](#) [News](#)
[LOG IN](#)

Home » Acta Horticulturae » Acta Horticulturae 962

IDENTIFICATION AND EPIDEMIOLOGY OF *CANDIDATUS* PHYTOPLASMA PRUNORUM IN SPANISH PEACH ORCHARDS. SUSCEPTIBILITY OF DIFFERENT ROOTSTOCKS TO THE DISEASE

Sélectionner une langue | ▼

Authors

A. Batlle, J. Sabaté, I. Iglesias, A. Laviña

Abstract

The European stone fruit yellows disease caused by *Candidatus* Phytoplasma prunorum was identified in peach and nectarine Spanish orchards. The incidence of the disease in the affected plots ranked between 5 and 25%. The main symptoms observed were chlorosis, leaf roll, decline and occasionally death of the tree. The insect vector of *Ca. P. prunorum*, the psyllid *Cacopsylla pruni*, was found in affected plots of Catalonia and Extremadura from March to July. The maximum population was found during the month of May and the first weeks of June, depending of the area. The mean percentage of individuals of *C. pruni* carriers of the phytoplasma was around 10% in Extremadura, 15% in plots of Baix Llobregat (Catalonia) and 7% in plots of Ribera d'Ebre (Catalonia). Individuals of *C. pruni* have not been identified yet in the fruit tree area of Lleida (Catalonia) where the incidence of the disease is low.

Citation

Battle, A., Sabaté, J., Iglesias, I. and Laviña, A. (2012). IDENTIFICATION AND EPIDEMIOLOGY OF *CANDIDATUS* PHYTOPLASMA PRUNORUM IN SPANISH PEACH ORCHARDS. SUSCEPTIBILITY OF DIFFERENT ROOTSTOCKS TO THE DISEASE. Acta Hortic. 962, 443-447

DOI: 10.17660/ActaHortic.2012.962.60

<https://doi.org/10.17660/ActaHortic.2012.962.60>

Keywords

phytoplasma, ESFY, peach yellows, transmission, vectors, *C. pruni*

Language

English

Full text

<https://doi.org/10.17660/ActaHortic.2012.962.60>

Acta Horticulturae 962

[VII International Peach Symposium](#)

Article number

962_60

Pages

443-447

Groups

- [Workgroup Peach Culture](#)
- [Division Temperate Tree Fruits](#)
- [Division Physiology and Plant-Environment Interactions of Horticultural Crops in Field Systems](#)

Acta Horticulturae

962_1 BREEDING PEACHES FOR MILD WINTERS: RECENT RESULTS OF THE NON-MELTING PEACH BREEDING PROGRAM OF EMBRAPA, IN SOUTHERN BRAZIL

962_2 GENETIC DIVERSITY OF LOW AND MID-CHILL PEACH CULTIVARS

962_3 PHENOLOGICAL ASSESSMENT OF CULTIVARS AND SELECTIONS OF PEACH AND NECTARINE TREES WITH LOW EXIGENCY OF CHILLING

962_4 PEACH AND NECTARINE BREEDING PROGRAM IMIDA-NOVAMED S.L., TO OBTAIN NEW CULTIVARS ADAPTED TO THE REGION OF MURCIA

962_5 MANAGEMENT OF PEACH TREE REFERENCE COLLECTIONS: ONGOING RESEARCH & DEVELOPMENT PROGRAM RELEVANT TO THE COMMUNITY PLANT VARIETY RIGHTS PROTECTION SYSTEM

962_6 NEW, VERY LATE PEACH CULTIVARS

962_7 PEACH BREEDING IN SPAIN

962_8 PEACH GENETIC RESOURCES AND BREEDING STRATEGIES IN MEXICO

962_9 ADVANCES IN PEACH AND NECTARINE BREEDING AT THE AGRICULTURAL RESEARCH COUNCIL OF SOUTH AFRICA

962_10 PRESENT AND FUTURE TRENDS IN PEACH ROOTSTOCK BREEDING WORLDWIDE

962_11 NEW PROMISING WHITE NECTARINE GENOTYPES FROM THE HIGHLANDS OF NORTHWESTERN TURKEY

962_12 REVIEW AND PROSPECT OF NECTARINE BREEDING IN CHINA

962_13 'SP 5-16', 'SP 9-5', 'SP 10-12' AND 'SP 13-25': ADVANCED PEACH SELECTIONS FROM ARGENTINA

962_14 BREEDING LOW-CHILL PEACHES IN SUBTROPICAL QUEENSLAND

962_15 THE NEW VERY EARLY PEACH CULTIVAR 'FLAVIA'

962_16 'PULDIN' - A NEW BULGARIAN PEACH CULTIVAR

962_17 GENETIC CONTROL AND LOCATION OF QTLS INVOLVED IN ANTIOXIDANT CAPACITY AND FRUIT QUALITY TRAITS IN PEACH [PRUNUS PERSICA (L.) BATSCH]

962_18 IDENTIFICATION AND EXPRESSION PROFILING OF A LOW OXYGEN REGULATED GENE IN PEACH ROOTSTOCKS USING RT-PCR

962_19 EVIDENCE FOR CONTROL OF DOUBLE FLOWERING IN PEACH VIA DOMINANT SINGLE GENE LOCI

962_20 DETECTION OF SEED DORMANCY QUANTITATIVE TRAIT LOCI (QTL) IN PEACH

962_21 EVIDENCE FOR A NEW SINGLE GENE TRAIT CONTROLLING PRE-MATURE DEFOLIATION IN PEACH

962_22 EVALUATION OF PRUNUS KANSUENSIS AS A GENETIC TESTER FOR PEACH

962_23 INVESTIGATIONS INTO THE MOLECULAR AND PHYSIOLOGICAL FACTORS INFLUENCING LOW TEMPERATURE BREAKDOWN IN STONEFRUIT

962_24 PEACH DORMANCY ASSOCIATED MADS-BOX GENE EXPRESSION DURING NATURAL CHILLING ACCUMULATION

962_25 PEACH [PRUNUS PERSICA (L.) BATSCH] ROOTSTOCK SEEDLING IDENTIFICATION BY DNA-FINGERPRINTING WITH MICROSATELLITE (SSR) MARKERS

962_26 INVESTIGATION OF ISOZYME POLYMORPHISM AND NUCLEAR DNA CONTENT VARIATION OF FREE-POLLINATED PEACH (PRUNUS PERSICA L.) SEEDLINGS

962_27 IN VITRO PHYTOSANITARY CONTROL AND IMPROVEMENT, AS WELL AS MICROPROPAGATION OF PEACH ROOTSTOCKS AND CULTIVARS

962_28 EFFECT OF THE EMBRYO GENOTYPE ON THE CHILLING REQUIREMENT FOR OVERCOMING PEACH SEED DORMANCY

962_29 COMPARISON OF STRATIFICATION METHODS FOR PEACH SEEDS

962_30 INCIDENCE OF BLIND NODES WITHIN PRUNUS SPECIES IN A SUBTROPICAL CLIMATE

962_31 FROST INJURY IN BUDS AND WOOD OF SEVERAL PEACH AND NECTARINE CULTIVARS

962_32 USING CONCEPTS OF SHOOT GROWTH AND ARCHITECTURE TO UNDERSTAND AND PREDICT RESPONSES OF PEACH TREES TO PRUNING

962_33 FRUIT GROWTH AND DEVELOPMENT AS IT RELATES TO CROP LOAD, THINNING AND CLIMATE CHANGE

962_34 CHILLING AND GA3 EFFECTS ON GROWTH AND DEVELOPMENT OF 'NEMAGUARD' AND 'GF 305' PEACHES

962_35 A MODEL FOR ESTIMATING CHILLING REQUIREMENT OF VERY LOW-CHILL PEACHES IN TAIWAN

962_36 QUANTITATIVE PARAMETERS OF PEACH AND APRICOT FLOWER BUD DEVELOPMENT

962_37 IN VITRO GERMINATION OF POLLEN GRAINS FOR PRUNUS PERSICA (L.) BATSCH NUCIPERSICA

962_38 CRYOPRESERVATION OF PEACH AND NECTARINE POLLEN GRAINS

962_39 AVERAGE DATES AND ACCUMULATED THERMAL REQUIREMENTS FOR DIFFERENT PHENOPHASES OF PEACH AS INFLUENCED BY CLIMATE

962_40 ON THE SHAPE VARIATION OF PEACHES DURING RIPENING

962_53 TREE VIGOR, FRUIT YIELD AND QUALITY OF NECTARINE TREES GROWN UNDER RED PHOTOSELECTIVE ANTI-HAIL NETS IN SOUTHERN ITALY

962_41 FROST HARDINESS OF PEACH AND APRICOT FLOWER BUDS

962_42 ECONOMIC ASSESSMENT OF DIFFERENT WATER IRRIGATION STRATEGIES FOR A VERPEACH CULTIVAR (PRUNUS PERSICA L. BATSCH)

962_43 BEST-WORST CHOICE EXPERIMENT DESIGNS FOR CONSUMERS BUYING DECISIONS FOR PDO CALANDA PEACHES: ATTRIBUTES AND LEVELS

962_44 WHOLESALERS' REACTIONS TOWARDS PDO CALANDA PEACHES

962_45 REMOTE SENSING OF THERMAL WATER STRESS INDICATORS IN PEACH

962_46 NECTARINE PRODUCTIVITY AND FRUIT QUALITY UNDER SWINE MANURE FERTILIZATION: METHODOLOGIES AND EARLY RESULTS

962_47 WATER AND NITROGEN INTERACTION IN PEACHES FOR PROCESSING: 2007 VS. 2008

962_48 RESPONSES OF NECTARINE TO REGULATED DEFICIT IRRIGATION AT THE FIELD SCALE

962_49 FRUIT QUALITY RESPONSES TO SEVERE WATER STRESS DURING STAGE III OF PEACH FRUIT DEVELOPMENT

962_50 THE PHOTOCHEMICAL REFLECTANCE INDEX (PRI) AS A WATER STRESS INDICATOR IN PEACH ORCHARDS FROM REMOTE SENSING IMAGERY

962_51 LONG TERM (8 YEARS) EFFECT OF MINERAL AND ORGANIC FERTILIZATIONS ON PEACH YIELD AND NUTRITIONAL STATUS

962_52 HORTICULTURAL PRACTICES OF PEACH IN VENEZUELA

962_54 VARIATIONS IN THE ORCHARD ENVIRONMENTAL CONDITIONS AFFECT VASCULAR AND TRANSPIRATION FLOWS TO/FROM PEACH FRUIT

962_55 ABSCISIC ACID APPLICATIONS IN PEACH

962_56 THE INFLUENCE OF THE TREE FORM AND CROP LOAD ON PEACH TREE GROWTH, BEGINNING OF CROPPING AND FRUIT QUALITY

962_57 ECOLOGICAL APPROACH FOR WEED CONTROL IN YOUNG PEACH PLANTATIONS

962_58 FRUIT SIZE OF HIGH DENSITY PEACHES IS SMALLER THAN LOW DENSITY SYSTEMS

962_59 EVALUATION OF ROOTSTOCKS FOR TOLERANCE TO BACTERIAL CANKER, ORCHARD REPLANT CONDITIONS AND SIZE-CONTROLLING IN CALIFORNIA

962_60 IDENTIFICATION AND EPIDEMIOLOGY OF CANDIDATUS PHYTOPLASMA PRUNORUM IN SPANISH PEACH ORCHARDS. SUSCEPTIBILITY OF DIFFERENT ROOTSTOCKS TO THE DISEASE

962_61 BIOLOGICAL CONTROL OF ORIENTAL FRUIT MOTH ON PEACH IN BULGARIA

962_62 MONITORING CONIDIAL DENSITY OF MONILINIA SPP. ON PEACH SURFACE IN RELATION TO BROWN ROT DEVELOPMENT IN ORCHARDS

962_63 WITHIN TREE AND ORCHARD VARIABILITY OF SILVER KING PEACH (PRUNUS PERSICA (L.) BATSCH) FRUIT QUALITY

962_64 INSTRUMENTAL AND SENSORY EVALUATION OF EATING QUALITY OF PEACHES AND NECTARINES

962_65 THE INFLUENCE OF PEACH AND NECTARINE CULTIVAR ON FRUIT COLOUR, FRUIT QUALITY AND CONSUMER ACCEPTANCE

962_66 INTEGRATING PRE AND POSTHARVEST 'NIL FUNGICIDE RESIDUE' TREATMENTS FOR CONTROL OF BROWN ROT OF STONE FRUITS CAUSED BY MONILINIA FRUCTICOLA

962_67 VITRESCENT DARK SPOT IN PEACH: A PRELIMINARY MINERAL ELEMENT CHARACTERIZATION

962_68 VARIABILITY IN PEACH AND NECTARINE EATING QUALITY

962_69 AROMA VOLATILE COMPOUNDS OF 'BELLETARDIE® (TARDIBELLE)' PEACH FRUIT IN RELATION TO HARVEST DATE AND COLD STORAGE TECHNOLOGY

962_70 BIOSYNTHESIS OF VOLATILE COMPOUNDS DURING ON-TREE MATURATION OF 'RICH LADY' PEACHES

962_71 CELL WALL DISASSEMBLY DURING ON-TREE MATURATION, RIPENING AND SENESENCE OF 'SNOW QUEEN' NECTARINES

962_72 STORAGE TEMPERATURE DEPENDENCE OF BIOSYNTHESIS OF AROMA VOLATILE COMPOUNDS AND CONSUMER ACCEPTABILITY IN 'RICH LADY' PEACHES

962_73 EVALUATION OF FOOD ADDITIVES AND LOW-TOXICITY COMPOUNDS AS NON-POLLUTING MEANS TO CONTROL THE MAIN POSTHARVEST DISEASES OF CALIFORNIA PEACHES

962_74 POSTHARVEST RESPONSE OF PEACH AND NECTARINE CULTIVARS TO 1-METHYLCYCLOPROPENE TREATMENT

962_75 FACTORS AFFECTING CORKY SPOT ON NECTARINE FRUITS IN THE EBRO VALLEY IN SPAIN

962_76 AGRONOMICAL PERFORMANCE, FRUIT QUALITY AND SENSORY ATTRIBUTES OF SEVERAL FLAT PEACH AND FLAT NECTARINE CULTIVARS

962_77 POMOLOGICAL AND FRUIT QUALITY CHARACTERISTICS OF EARLY RIPENING PEACH AND NECTARINE CULTIVARS IN MURCIA (SPAIN)

962_78 IMPACT TEST AS A TOOL FOR EVALUATION OF PEACH FIRMNESS

962_79 CONTROLLED ATMOSPHERE FOR THE EXPORT OF 'MIRAFLORES' PEACHES

962_80 THE EFFECT OF GIBBERELLIN ON FIRMNESS AND STORAGE POTENTIAL OF PEACHES AND NECTARINES

962_81 EFFECT OF ALMOND × PEACH HYBRID ROOTSTOCKS ON FRUIT QUALITY PARAMETERS AND YIELD CHARACTERISTICS OF PEACH CULTIVARS

962_82 PRELIMINARY RESULTS OF PEACH ROOTSTOCK TESTING

962_83 THE EFFECT OF ROOTSTOCK ON AGRONOMICAL PERFORMANCE AND FRUIT QUALITY OF 'ELEGANT LADY®' PEACH CULTIVAR

962_84 MUME CLONAL ROOTSTOCKS FOR 'AURORA-1' PEACH IN SÃO PAULO STATE, BRAZIL

962_85 RESPONSE OF LOW AND MEDIUM VIGOUR ROOTSTOCKS FOR PEACH TO BIOTIC AND ABIOTIC STRESSES

962_86 DWARFING PEACH ROOTSTOCKS GENERATE SCION WATER STRESS

Flickr Photostream

VAT

Copyright © 2020 International Society for Horticultural Science.

Webdesign Desk02