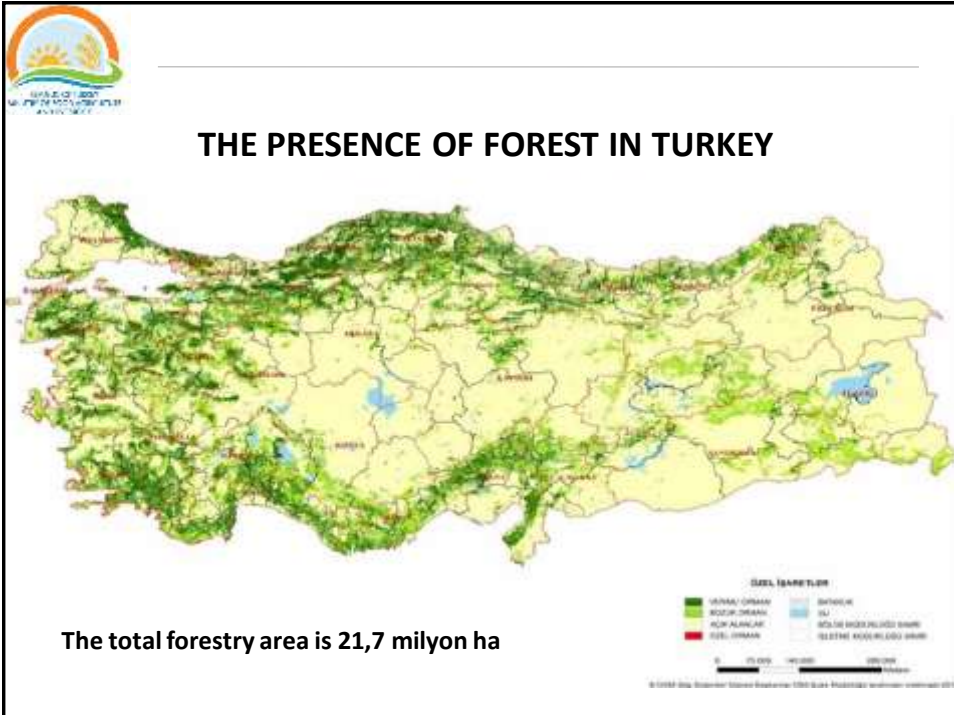


PLANT HEALTH IN TURKEY:

General structure and special activities regarding forestry

Dr. Nevzat BİRİŞİK
Deputy Director General
General Directorate of Food and Control

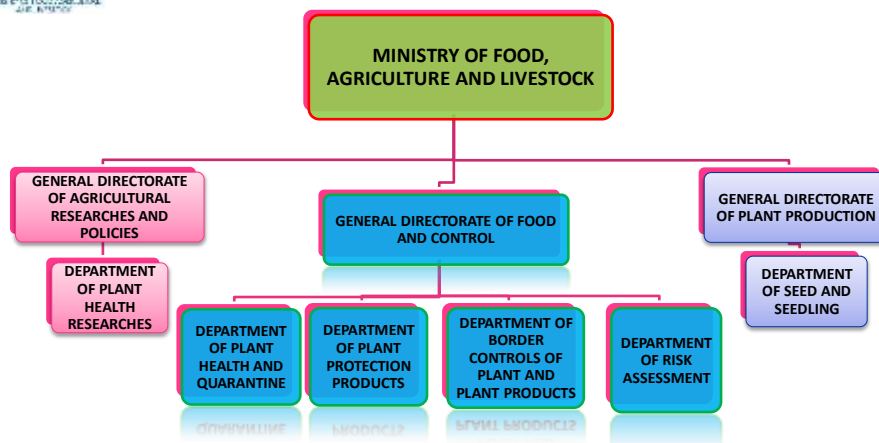




AGRICULTURAL PRODUCTION IN TURKEY



Turkey has nearly 60 bUSD agricultural economy
The 1.th in the Europe
The 7.th in the World





Authorities on Plant Health

- 3 General Directorates,
- 6 Departments,
- 7 Research Institutions,
- 12 Plant Quarantine Directorates,
- 81 Provincial Directorates (Department of Plant Production and Plant Health)
- 919 District Directorates...



National Plant Health Committee

Aim and Scope;

- Coordination between the legal authorities
- Harmonization of implementations
- Identification of the priorities
- Adoption of all activities according to national developing plans
- Collaboration between legal entities to solve practical problems
- Enhancing coordination and communication between research and applied fields of plant health



NATIONAL PLANT HEALTH COMMITTEE (NPHC)

MINISTRY OF FOOD, AGRICULTURE AND LIVESTOCK

MINISTRY OF FORESTRY AND WATER AFFAIRS

OTHER MEMBERS

Department of Plant Health and Quarantine

Department of Plant Health Researches

Department of Seed and Seedling

Department of Combating Forest Pest

Faculty of Agriculture
Department of Plant Protection

Department of Plant Protection Products

Department of Border Controls of Plant and Plant Products

Department of Risk Assessment

Faculty of Forestry –
Department of Forest Entomology and Protection

The Deputy General Directory of Food and Control is the Chairman of NPHC

10 Member of the NPHC

Union Of Chambers Of Agriculture



NATIONAL PLANT HEALTH COMMITTEE





12 Quarantine Directorates,

İzmir, Mersin, Antalya, İstanbul (*having laboratories*)

Trabzon, Samsun, Hatay, Ankara, Bursa, Artvin, Ağrı, Şırnak

- Inspections agricultural goods at export and import,
- Fumigation, ISPM 15,
- Training,
- Analyses

Totally 392 inspectors (include provincial staff who are inspector)



★ Quarantine Directorates



12 Analysis Laboratories,

- 8 Research Institutions (Ankara, Adana, İzmir, Diyarbakır, Yalova, Samsun, Erzincan, Antalya)
- 4 Quarantine Directorates (İzmir, İstanbul, Mersin, Antalya)

Performing the laboratory analyses for;

- Import,
- Export,
- Certification of plant propagation material,
- Pest Risk Assessment
- Validation of detection methods

By totally 400 experts



★ Research Institutions



Extention Service of Plant Health

- 81 Provincial Directorates,
- 919 District Directorates,

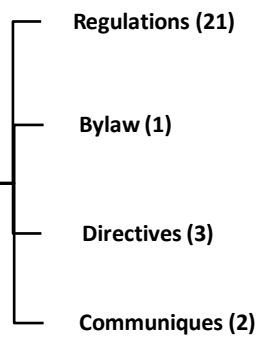
Totally 3600 technical staff on Planth Health...

- Implemantation of national plant health program,
- Surveys,
- Implemantation of Plant Passport System,
- Training and extension activities in plant health,
- Inspections and eradication activities



PLANT HEALTH LEGISLATIONS

**Law no.5996 on Veterinary Services,
Plant Health, Food and Feed
(OG: 13.06.2010, 27610)**



All regulation utmost harmonized with EU.



PLANT HEALTH LEGISLATIONS

Legislation regarding Forests

- Regulation Plant Passport System and Registration the Operators
- Regulation Combat with Red Palm Beetle
- Regulation Combat with *Phytophthora ramorum*, *Gibberella circinata*, *Anaphlophora chinensis* and *Dryocosmus kuriphilus*
- Regulation Plant Quarantine
- Regulation Plant Quarantine Inspectors
- Regulation Concerning the Subjection of Wooden Package Materials to Heat Treatment Process and Their Marking



LAW ON VETERINARY SERVICES, PLANT HEALTH, FOOD AND FEED

SECTION FOUR - Plant Health

CHAPTER ONE - Control of Harmful Organisms and Relevant Responsibilities, Compensation of Plant Diseases and Pests, Registration and Plant Passport

Control of Harmful Organisms and relevant responsibilities

Article 15. (3) Services of harmful organisms control in public forests shall be carried out by the Ministry of Forestry and Water Affairs, according to rules laid down by the Ministry. In the event that the harmful organisms control relates to both forests and agricultural areas, the control shall be performed in cooperation of the Ministry and the Ministry of Forestry and Water Affairs within the framework of the provisions of this Law.



Responsibilities of the Departments

Department of Plant Health and Quarantine

- Preparation and implementation of Control Programmes,
- Control of harmful organisms through government funded programmes (573 Harmful Organism),
- Prevent of contamination and spread of quarantine pests into the pest free areas,
- Surveys,
- Protected zones, pest free areas
- Plant Passport studies,
- Pest Risk Analysis,
- Implementation of ISPM's



Annual National Plant Health Implementation Program





Surveys in Forestry (They have directions)

- *Bursaphelenchus xylophilus* ➡ Pine
- *Xylella fastidiosa* ➡ Olive tree
- *Phytophthora ramorum* ➡ Forestry-Ornamental
- *Anoplophora chinensis* ➡ Polyphagous
- *Anoplophora glabripennis* ➡ Polyphagous
- *Gibberella circinata* ➡ Pine
- *Dryocosmus kuriphilus* ➡ Chestnut
- *Rhynchophorus ferrugineus* ➡ Palm



The Results of the Surveys

- *Bursaphelenchus xylophilus* - not confirmed
- *Xylella fastidiosa* - not confirmed
- *Phytophthora ramorum* - not confirmed
- *Anoplophora chinensis* - 3 tree are eradicated
- *Anoplophora glabripennis* - not confirmed
- *Gibberella circinata* - not confirmed
- *Dryocosmus kuriphilus* - Yalova center forest – *Torymus*
sinensis have been let out
- *Rhynchophorus ferrugineus* - Adana, Antalya, Aydın, İzmir,
İstanbul, Muğla



Dryocosmus kuriphilus



Anoplophora chinensis



Pest Risk Analysis for Forestry pest

- *Dothistroma septosporum* (Dorog.) and *Dothistroma pini* (*Pinus* spp., *Picea* spp., *Pseudotsuga menziesii* ve *Larix decidua*)
- *Dryocosmus kuriphilus* (*Castanea* spp.)
- *Cylindrocladium buxicola* (*Buxus* spp.)

The PRA's are ongoing



Plant Passport Activities Regarding of Forestry Propagation Material

Registration:

- Importer
- Private nursery
- State nursery
- Sales Office



PLANT PASSPORT MEETING





Responsibilities of the Departments

Department of Plant and Plant Products Border Inspection

Controls of import and export,

- Issuing of Plant Health Certificates,
- Establishment of Border Inspection Posts,
- Determination of plant health requirements for entry into the Country,
- Preparation of International Cooperation Agreements,
- Declaration of recently detected quarantine pests to international organizations...



Points of Entry and Exit

- Points of exit; 56 Provinces.
- Points of entry;
 - Production Material; 13 Provinces (Adana, Ankara, Antalya, Bursa, Edirne, Hatay, İstanbul, İzmir, Mersin, Sakarya, Samsun, Trabzon, Yalova)
 - **Forestry Products; 16 Provinces (Antalya, Artvin, Bartın, Bursa, Edirne, Hatay, İstanbul, İzmir, Kastamonu, Kocaeli, Mersin, Ordu, Samsun, Tekirdağ, Trabzon, Zonguldak)**
 - Others; 23 Provinces



ISPM 15

- Regulation Concerning the Subjection of Wooden Package Materials to Heat Treatment Process and Their Marking
- Totally 595 authorized establishment (Heat treatment furnaces)
- Audit - twice a year (1.195 audit)

27



Responsibilities of the Departments

Department of Plant Protection Products;

- Preparation of legislation regarding plant protection products and equipment-machinery,
- Issuing of authorizations and approvals regarding plant protection products and equipment-machinery,
- Controls of production, storage and marketing of plant protection products and equipment-machinery,
- Cooperation with related national and international organizations,
- Preparation of legislation regarding the sale of prescribed plant protection products.



Responsibilities of the Departments

Registered Plant Protection Products for Forestry Use;

- 19 PPP Company
- Active ingredient and Harmful Organisma
 - ✓% 25 g/l Deltamethrin - *Thaumetopoea pityocampa*
Lymantria dispar
 - ✓% 480 g/l Triflumuron - *Thaumetopoea pityocampa*
 - ✓% 250 g/l Triflumuron - *Thaumetopoea pityocampa*
 - ✓% 125 g/l Beta-Cyfluthrin - *Thaumetopoea pityocampa*
 - ✓% 25 g/l Diflubenzuron - *Thaumetopoea pityocampa*



Department of Risk Assessment

- Conducting risk assessment
 - Providing scientific support
 - Establishment of scientific committees
 - Plant Protection Products Committee
 - Plant Health Committee
- are going to be establish untill 2018.



The Major Harmful Organism in the Forest

- *Dryocosmus kuriphilus*
- *Thaumetopoea pityocampa*
- *Cylindrocladium buxicola*

The Potantial Harmful Organism in the Forest

- *Bursaphelenchus xylophilus*
- *Anoplophora chinensis*
- *Anoplophora glabripennis*
- *Xylella fastidiosa*
- *Phytophthora ramorum*
- *Gibberella circinata*



*Thank You
for Your Attention*