



Фитосанитарна Управа
МИНИСТЕРСТВО ЗА ЗЕМЈОДЕЛСТВО,
ШУМАРСТВО И ВОДОСТОПАНСТВО

Forestry plant protection issues in the Republic of Macedonia



Ministry of Agriculture, Forestry and Water Economy
(Plant health department and Department for Forestry and Hunting)

Faculty of forestry, UKIM, Skopje
(Center for Diagnostic and Reporting Service of Forestry in R. Macedonia)

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Overview of the presentation

Current situation (area, coverage, ownership)

Main forest pests (name, spread and host species)

Diseases (potential) threats

ISPM's - commonly used in the forestry sector

Review of phytosanitary system and key
phytosanitary regulation in the Republic of
Macedonia



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Total area = 25 713 km²
38 % covered by forests
(beech, oaks, other
broadleaves, spruce,
black pine, white pine
and other conifers)



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Who manage forests in the country?

- PE "MACEDONIAN FOREST" – 85% of all forests;
- FOREST WITHIN PROTECTED AREAS ACCORDING TO THE LAW OF NATURE – 5% of all forests;
- PRIVATE FOREST OWNERS – 10% of all forests;





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The main forestry pests in the last several years

<u>In broadleaf forests</u>			
1.	<i>Euproctis chrysorrhoea</i> L.	The brown-tail (family <i>Lymantriidae</i>)	Insect present in the oak forest
2.	<i>Porthetria dispar</i> L.	<i>Lymantria dispar</i> (family <i>Erebidae</i>)	Insect present in the oak forest
3.	<i>Tortrix viridana</i>	The tortrix-moth (also known as the green oak moth)	Insect present in the oak forest
4.	<i>Malacosoma neustria</i>	The lackey moth	Insect present in the oak forest
5.	<i>Thaumetopoea processionea</i> L.	The moth in oak forests (Family <i>Thaumetopoeidae</i>)	Insect present in the oak forest
6.	<i>Cydalima perspectalis</i> Walker	The Box Tree Moth (Family <i>Crambidae</i>)	Insect present in the box forest



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<u>In coniferous forests</u>			
1.	<i>Thaumetopoea pityocampa</i>	Pine processionary moth (family <i>Thaumetopoeidae</i>)	Insect present in the pine woods
2.	<i>Fam. Scolytidae</i>	Bark beetles (subfamily <i>Scolytinae</i>)	Insect present in the pine woods
3.	<i>Neodiprion sertifer</i>	European pine saw-fly	Insect present in the pine woods
4.	<i>Rhyacionia buolana</i> Den. Et Schiff	European pine shoot moth	Insect present in the pine woods



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Diseases

Fungus Cryphonectria parasitica (chestnut blight)

Cyclaneusma spp. (C.minus и C.niveum)

Armillaria spp. (shoestring fungus)

Heterobasidion annosum (Annosum root rot)

Seiridium Cardinale (Seiridium canker)



Cyclaneusma spp. necrosis of the pins of pine



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Euproctis chrysorrhoea L. - The brown-tail

A brown-tail larva in oak forest, 2014
location: Krushevo – Macedonia



The brown tail moth, 2014





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Review of infested areas from *Euproctis chrysorrhoea* L.
in the period 1994 - 2014



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Porthetria dispar L. – Gypsy moth

Defoliation from *Pdispar* L. ,2014
Loc.Kavadarci, Macedonia





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Thaumatopeoa pityocampa – Pine processionary moth

Infested area from Pine moth, 2014
Location: Kocani, Macedonia



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ISPM's commonly used in forestry sector

- All ISPM's are adopted in the country as secondary legislation;
- **ISPM 15** – NPPO upgrade the register of legal entities that perform sterilization of wooden packaging material according to this standard;
- **ISPM 1** – Framework for making of international agreements and protocols in the field of phytosanitary policy for improvement of international trade;
- **ISPM 8** – Framework for determination of pest status in an area (relevant for making of pest record for presence or absence of the pests);



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Review of National Forestry Legislation

- **Law on Plant Health** (Official Gazette of the Republic of Macedonia No.29/05,81/08,20/09,57/10,17/11,148/11,69/13 and 53/14);
- **Law on Forests** (Official Gazette of the Republic of Macedonia No.64/09,24/11,53/11,25/13,79/13,147/13 and 43/14);
- **Law on Reproductive material of Forest Trees** (Official Gazette of the Republic of Macedonia No.55/07 and 148/11);
- **Law on Forestry and Hunting inspection** (Official Gazette of the Republic of Macedonia No.88/08,06/10,36/11,74/12,164/13 and 43/14);



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Main Stakeholders in Forestry

- **Ministry of Agriculture, Forestry and Water Economy;**
 - Phytosanitary Directorate (National body competent for regulating of the activities in the field of plant protection);
 - Department for Forestry and Hunting within the Ministry;
 - Inspectorate for Forestry and Hunting;
- **PE “Macedonian Forests” (Makedonski shumi);**
- **Faculty of Forestry, Skopje** (Department for protection of forests and wood);
- **Forestry Police;**



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Development of State Forestry policy

Vision and main directions

- To respect the objectives which are noted in National Strategic Plans;
- Harmonization of the forestry legislation with the national interests and international commitments;
- Increasing the awareness of the environmental and social values of forests;
- Implementation of ISPM standards for plant protection of Forests;
- Increasing the contribution of forests and related goods and services to the quality of life in rural areas;



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Thank you for your attention!

