

#### **FutMon action D1**

## Assessment of Damage Causes: feedback by field observers

(P. Roskams – INBO)





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2. Extent

#### 3. <u>Cause</u>

#### 4. Reporting





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### **D1 questionnaire**



· ·		
Broadleaved spec.	39	
Q. suber	1	г
Q. cerris + Q. petraea	1	
Q. cerris	1	
Q. petraea	4	F
Quercus robur	7	, F
		F
Fagus sylv.	23	F
Betula pendula	2	F
		F
		F
Species	# plots	F
Species	# plata	F

Picea abies	16	
P. abies/F. sylv.	3	
Picea/Abies/Fagus	1	
Picea/Pseudotsuga	1	
Pinus sylv.	20	
P. halepensis	2	
P. nigra	3	
P. pinaster	2	
P. pinea	1	
Coniferous spec.	49	
TOTAL	88	





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## **D1 questionnaire**



	Assessment damage causes	remarks/problems	
tree vitality (D1)	84 plots	removals & mortality	
crown condition	88 plots (84)	cause	

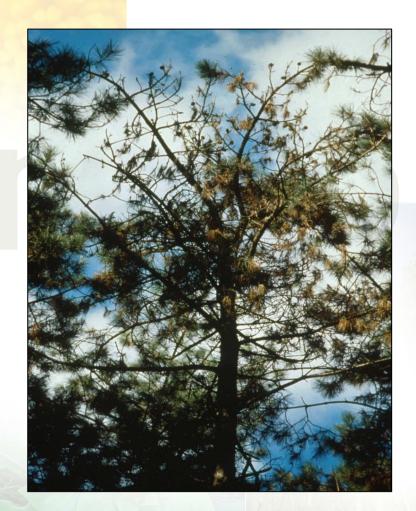




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- Symptoms can be described in different ways
  - e.g. crown dieback by Sphaeropsis sapinea
  - → Branches (2-10 cm) dead (SAF=23, symp=14, ext=5)
  - → Browning of needles of all ages (SAF=13, symp=03, ext=5)







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#### • Dead branches

 if dead twigs are part of a big dead branch → do not report dead twigs separately, only dead big branch







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→ report more important
symptom only (e.g. yellowing
+ browning by Mildew)

#### Multiple symptoms by different agents

 $\rightarrow$  report multiple symptoms







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### **<u>1. Symptom description</u>**



- Evolution of damage can be reported using different symptom description
  - Sun scald beech
  - $\rightarrow$  First stadium = necrosis
  - $\rightarrow$  Later: debarking
  - Same cause (heat/sun scald)







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#### Dead trees:

- No symptom description
- Only cause
  - SAF = 04
  - cause = 304 (decay/root rot fungi)
  - scient. name = HETEANN (Heterobasidion annosum)





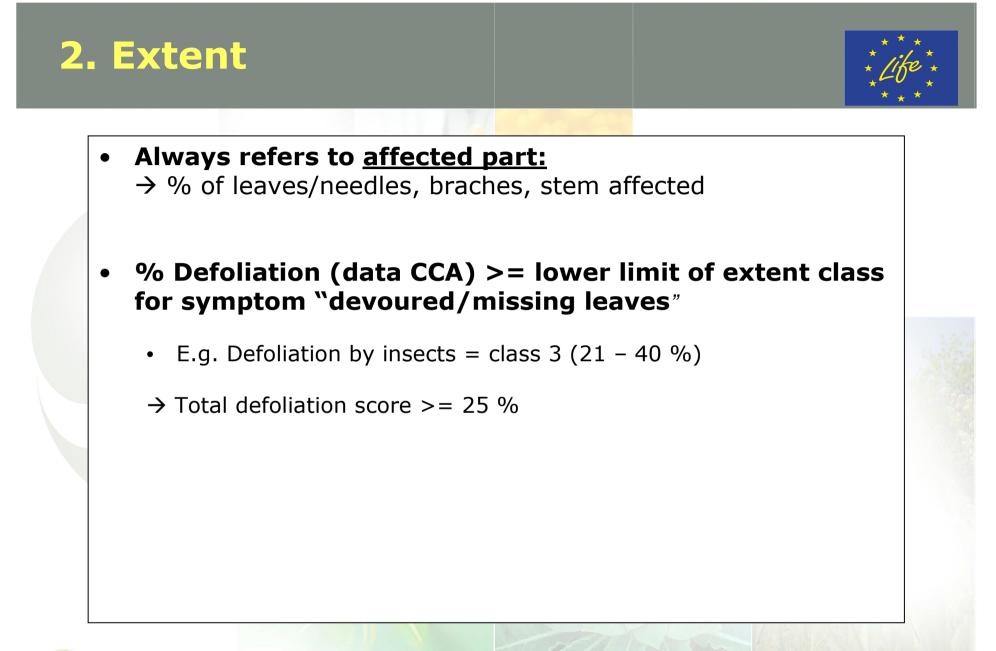
# \*\_\_\_\_\_\*\*\*\*

#### • Conclusions:

- consistent symptom description
- $\rightarrow$  Provide detailed guidelines for field observers
- Deviation of national guidelines is allowed but a harmonised method for reporting is needed (same symptom = same code for reporting)
- Regular training of field observers is necessary











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- **Primary / secundary agent** (e.g. damage by hail, followed by fungal infection)
- Should never be an empty field
   → if cause unknown: code 999
- **Digital code** (table A2)
  - Digital code as detailed as possible:
     e.g. defoliator → code 210 preferred and not 'insects' (200)
  - Especially for Fungi sometimes difficult to specify the right class (e.g. blight, dieback and canker, ...)
- Scientific name (annex3): letter code
  - Problem of synonyms (e.g. Fomes annosus, Heterobasidion annosum)
     → check annex 3
  - Code for agent missing  $\rightarrow$  contact PCC
  - Consistency: some organisms only in table 2





# 4. Reporting



#### • Same symptom caused by 2 different agents

- manual: only the overall extent and the different factors involved should be reported
- → Reporting of more than 1 agent: specification needed in manual (2 identical records except for cause)





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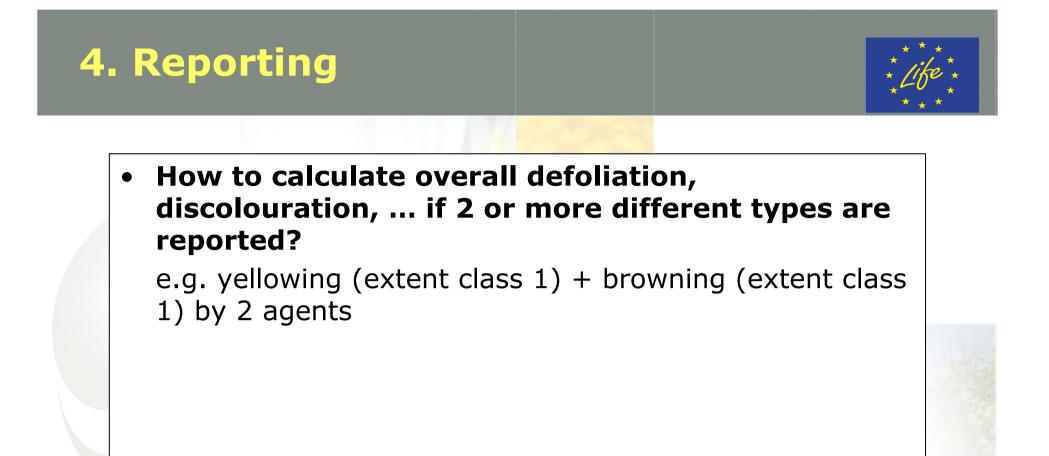




PlotNr	TreeNr	Spec	SAF	Sympt	CauseNr	CauseName	Ext	
1285	5	20	14	03	260	ORCHFAG	1	
1285	5	20	14	03	260	ORCHFAG	1	
1285	13	20	14	03	260	ORCHFAG	1	
1285	13	20	14	03	260	ORCHFAG	1	
1285	14	20	14	03	260	ORCHFAG	1	
1285	14	20	14	03	260	ORCHFAG	1	
1285	30	20	14	03	260	ORCHFAG	1	
1285	30	20	14	03	260	ORCHFAG	1	
1400	8	20	14	03	260	ORCHFAG	1	
1400	8	20	14	03	260	ORCHFAG	1	











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