

### Appendix A3. Susceptibility scores per Forest Management Alternative (FMA) per hazard in Aquitaine, Portugal and Galicia<sup>1</sup>

| FMA                               | Aquitaine   |            |             |             |                 |              | Portugal   |            |                 |            |              |              | Galicia  |            |             |              |
|-----------------------------------|-------------|------------|-------------|-------------|-----------------|--------------|------------|------------|-----------------|------------|--------------|--------------|----------|------------|-------------|--------------|
|                                   | Storm       | Fire       | Defoliator  | Game        | Root rot fungus | Bark beetles | Storm      | Fire       | Torrential rain | Defoliator | Bark Beetles | Pitch canker | Storm    | Fire       | Game        | Pitch canker |
| M1 - High quality                 | <u>3.5</u>  | <u>1.5</u> | 3.25        | 2.25        | 2.5             | <u>1.5</u>   | 2.25       | <u>2.8</u> | 2.25            | 4.75       | 3.25         | 5            | 1.13     | <u>0.2</u> | <u>0</u>    | 1.5          |
| M2 - Standard classic             | 2.5         | 2          | <u>3.75</u> | 1.75        | 2.25            | 2.75         | 2          | 4          | 2.25            | 6          | 3.75         | 4.5          | <u>1</u> | 0.9        | <u>0.25</u> | 1.13         |
| M3 - Low investment               | 2.75        | 3          | 2.75        | 1.75        | <u>3</u>        | 3            | <u>3.5</u> | 5.8        | 1.5             | 3          | 4.25         | <u>3.5</u>   | 1.13     | 1.8        | <u>0.25</u> | 1.13         |
| M4 - Short-term with subsidies    | 1.25        | 2.8        | 2.25        | 1.75        | 2               | 2            | 1.75       | 5.5        | <u>2.5</u>      | 6.25       | 4.25         | 5.5          | 1.25     | 1.6        | <u>0.25</u> | 1            |
| M5 - Low density without thinning | 1.75        | 3.3        | 2.5         | <u>2.75</u> | 1.25            | 2.25         | <u>1</u>   | 5.8        | <u>2.5</u>      | 6.25       | 4.5          | 5.75         | 1.5      | 2          | <u>0.25</u> | <u>0.75</u>  |
| M6 - Half-dedicated to biomass    | 2.25        | 3.3        | <u>3.75</u> | <u>1.5</u>  | 2               | 2.75         | 2          | 6          | <u>2.5</u>      | <u>7</u>   | <u>3</u>     | 5.25         | 1.25     | 2          | <u>0.25</u> | <u>2</u>     |
| M7 - Biomass                      | <u>0.25</u> | 4.5        | 1.25        | 2           | 1.25            | <u>3.5</u>   | 2          | 7.8        | <u>2.5</u>      | 6.25       | <u>5.5</u>   | <u>6</u>     | <u>2</u> | 3.6        | <u>0.25</u> | 1.63         |
| M8 - No management                | 2.75        | <u>6</u>   | <u>0.75</u> | <u>1.5</u>  | <u>0.75</u>     | 2.75         | 2.75       | <u>8.8</u> | <u>0</u>        | <u>3.5</u> | 4.75         | 4            | 1.25     | <u>5.1</u> | <u>0</u>    | 1.38         |

The values were established from experts' panel meetings. In grey is indicated the lowest value and in bold black the highest value per column. Both values are underlined.

<sup>1</sup>The defoliator is the pine processionary moth *Thaumetopoea pityocampa*, the root rot fungus is *Heterobasidion annosum*, *Fusarium circinatum* is responsible for the pitch canker. "Bark beetles" refers to *Ips sexdentatus* only in Aquitaine, and to the four main species, e.g. *Ips sexdentatus*, *Orthotomicus erosus*, *Tomicus piniperda* and *Tomicus destruens* in Portugal.

Supplementary appendix to the article "Multi-criteria analysis to compare multiple risks associated with management alternatives in planted forests", by Margot Régolini, Céline Meredieu, Hervé Jactel, Ander Arias-González, Manuela Branco, Alejandro Cantero, Amélie Castro, Jean-Yves Fraysse, Barry Gardiner, Andrea Hevia, et al. *Forest Systems* Vol. 29 No. 2, August 2020 (<https://doi.org/10.5424/fs/2020292-15660>).