

Appendix A5. Multicriteria decision matrices (with forest vulnerability=standing value × susceptibility) for each maritime pine Forest Management Alternative (FMA) in Aquitaine, Portugal and Galicia¹

FMA	Aquitaine						Portugal						Galicia			
	Storm	Fire	Defoliator	Bark beetles	Game	Root rot fungus	Storm	Fire	Torrential rain	Defoliator	Bark beetles	Pitch canker	Storm	Fire	Game	Pitch canker
M1 - High quality	<u>38553</u>	16523	<u>35799</u>	16523	<u>24784</u>	27538	<u>14243</u>	17408	<u>14243</u>	<u>30069</u>	<u>20573</u>	<u>31651</u>	<u>8867</u>	1806	<u>0</u>	<u>11823</u>
M2 - Standard classic	13108	10486	19661	14418	9175	11797	5809	11617	6535	17426	10891	13069	3756	3186	939	4226
M3 - Low investment	25317	<u>27618</u>	25317	<u>27618</u>	16111	<u>27618</u>	13651	<u>22426</u>	5850	11701	16576	13651	5316	<u>8438</u>	<u>1181</u>	5316
M4 - Short-term with subsidies	2942	6473	5296	4708	4119	4708	2666	8378	3808	9520	6474	8378	1623	2070	325	1299
M5 - Low density without thinning	4302	7989	6145	5531	6760	3073	1983	11402	4957	12393	8923	11402	3465	4652	578	1733
M6 - Half-dedicated to biomass	7225	10437	12042	8831	4817	6423	5069	15206	6336	17740	7603	13305	2785	4543	557	4457
M7 - Biomass	<u>31</u>	<u>554</u>	<u>154</u>	<u>431</u>	<u>246</u>	<u>154</u>	<u>113</u>	<u>437</u>	<u>141</u>	<u>352</u>	<u>310</u>	<u>338</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
M8 - No management	9095	19844	2481	9095	4961	2481	6616	21051	0	8421	11428	9624	3609	14779	<u>0</u>	3970

In grey is indicated the lowest value and in bold black the highest value per column. Both values are underlined.

¹The 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 for the Portugal it refers to the four main species, e.g. *Ips sexdentatus*, *Orthotomicus erosus*, *Tomicus piniperda* and *Tomicus destruens*.

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>).