Number of species and number of possible trees

# species (n)	# unrooted trees $\prod_{i=3}^{n}(2i-5)$	# rooted trees $\left(\prod_{i=3}^{n}(2i-5)\right)\bullet(2n-3)$
2	1	1
3	1	3
4	3	15
5	15	105
6	105	954
7	954	10,395
8	10,395	135,135
9	135,135	2,027,025
10	2,027,025	34,459,425