|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Rating** | **0** | **1**  No disease but tree has died back due to blight | **2**  Tree infected & contains only virulent cankers | **3**  Tree infected & contains a mixture of healing and virulent cankers | **4**  Tree infected & all cankers are healing | **5**  Tree never infected with blight (Healthy) |
| **1** | 0 | 0.40816327 | 0.50612245 | 0.06938776 | 0 | 0.01632653 |
| **2** | 0.002053388 | 0.086242300 | 0.664271047 | 0.217659138 | 0.006160164 | 0.023613963 |
| **3** | 0 | 0.02579365 | 0.21130952 | 0.73511905 | 0.02480159 | 0.00297619 |
| **4** | 0 | 0 | 0.11320755 | 0.60377358 | 0.26415094 | 0.01886792 |
| **5** | 0 | 0.01893287 | 0.21686747 | 0.04991394 | 0.06368330 | 0.65060241 |

Table: Transition matrix based on tree ratings using data from 2002-2005 and 2007-2011 and 2013-2014 (because 2006 and 2012 are missing). The columns are the rating of the tree in year n and the rows are the rating of the tree in year n+1. (R code is saved as “Transition Matrix.R”)