Project Landscape

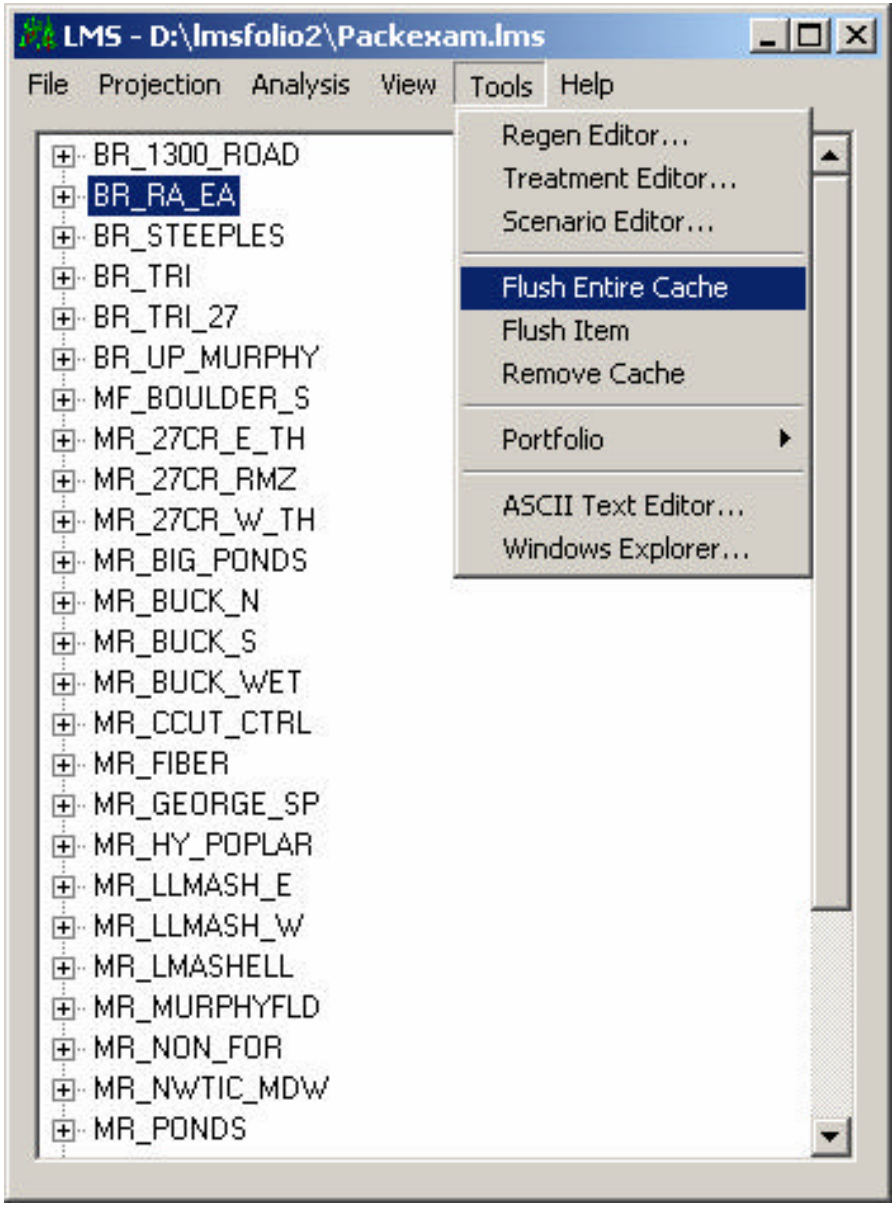


Figure 10.1. It is a good habit to **Flush Entire Cache** prior to making projections. This insures that any residual information from previous projections does not pollute the new one. Two other flush options are available from the Tools drop down menu. **Flush Item** allows the user to get rid of selected stand projections. **Remove Cache** is used when the user would like to minimize disk space required to store an LMS portfolio on the hard drive. All temporary files not necessary to reopen the portfolio are removed.

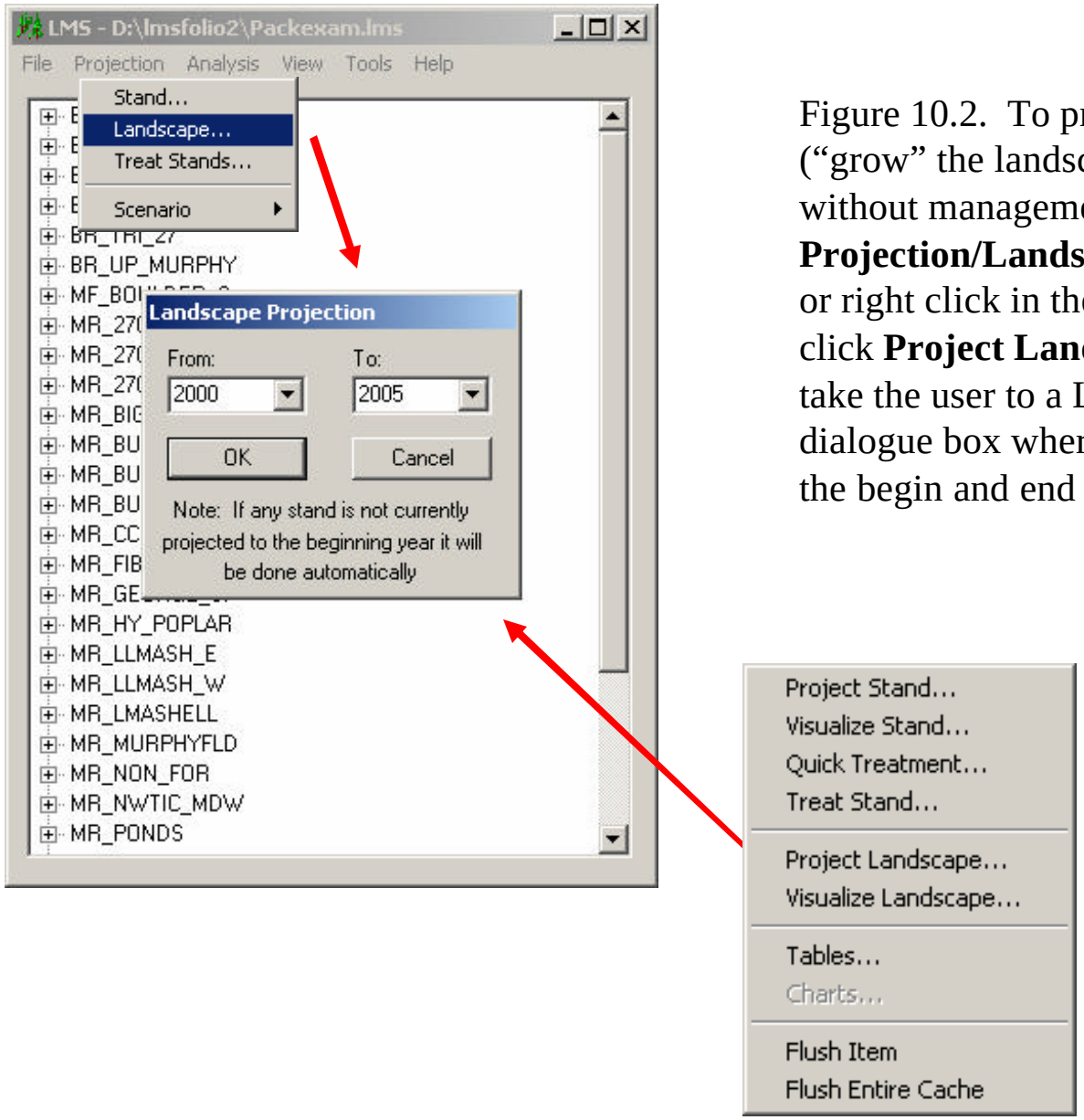


Figure 10.2. To project the landscape ("grow" the landscape stands forward in time without management treatments), either click **Projection/Landscape**… in the drop down or right click in the main window and then click **Project Landscape**. Both techniques take the user to a Landscape Projection dialogue box where the user is asked to set the begin and end year of the projection.

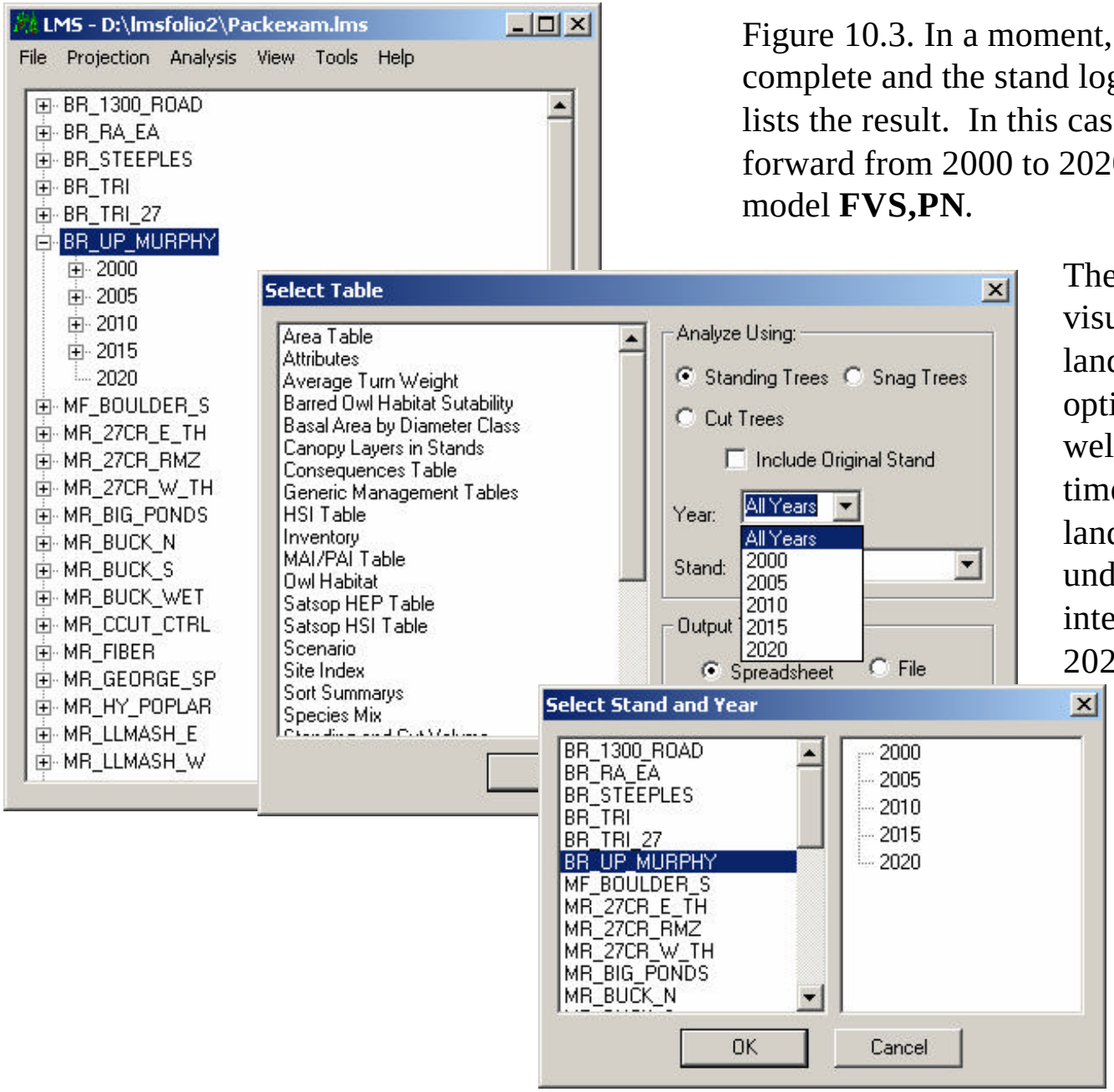


Figure 10.3. In a moment, the projection is complete and the stand log in the main window lists the result. In this case, stands were projected forward from 2000 to 2020 using the growth model **FVS,PN**.

The analysis tables, the stand visualization and the landscape visualization options reflect the changes as well. Now comparisons over time at both the stand and landscape level my be undertaken for any growth intervals between 2000 and 2020.

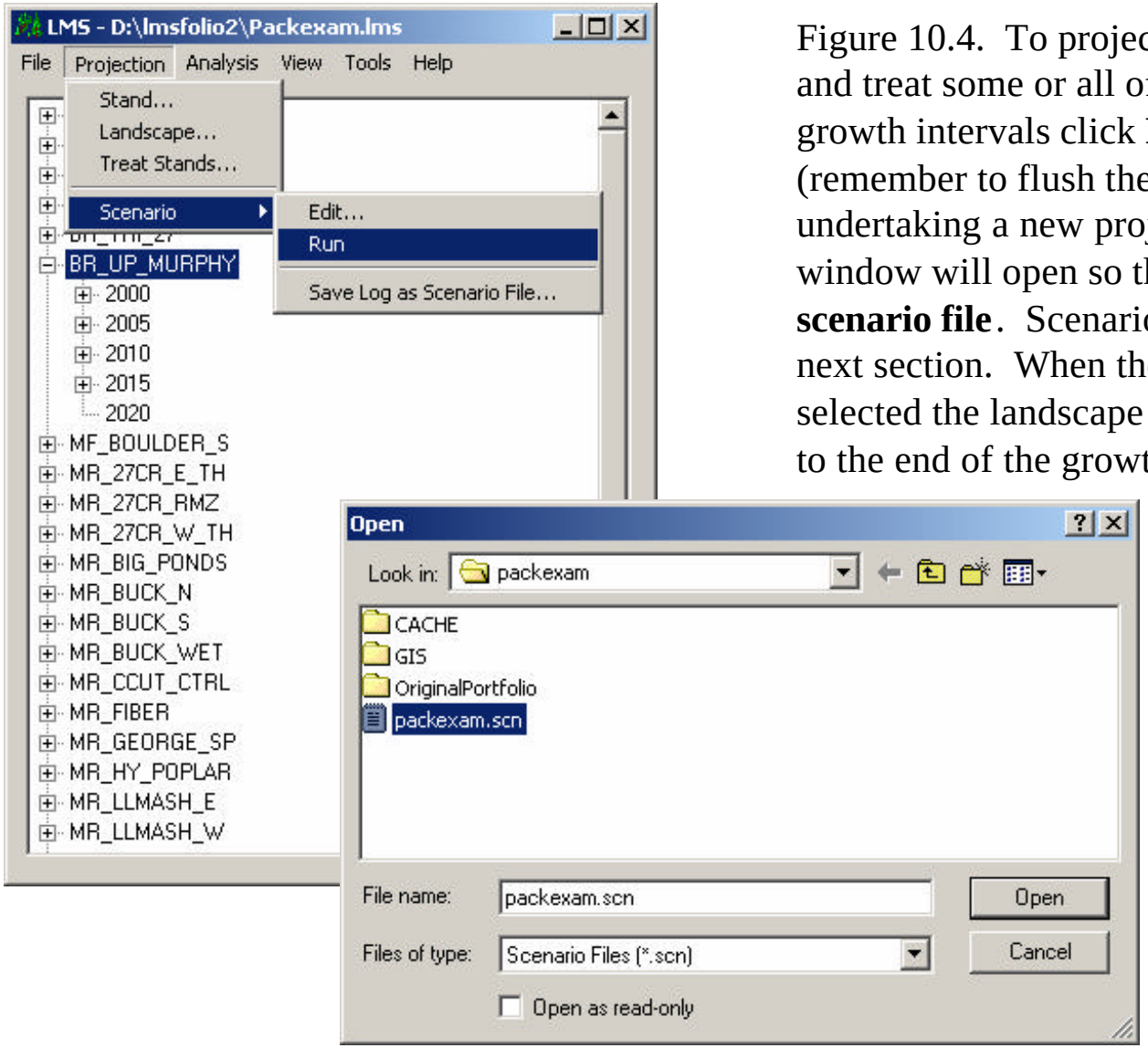


Figure 10.4. To project the landscape forward and treat some or all of the stands at selected growth intervals click **Projection/Scenario/Run** (remember to flush the cache, prior to undertaking a new projection). A dialogue window will open so that the user can select a **scenario file**. Scenario files are discussed in the next section. When the scenario file has been selected the landscape will be projected forward to the end of the growth period. Stands with prescribed treatments in the scenario file will be treated. Stands without treatments will be grown forward to the end of the growth period also.

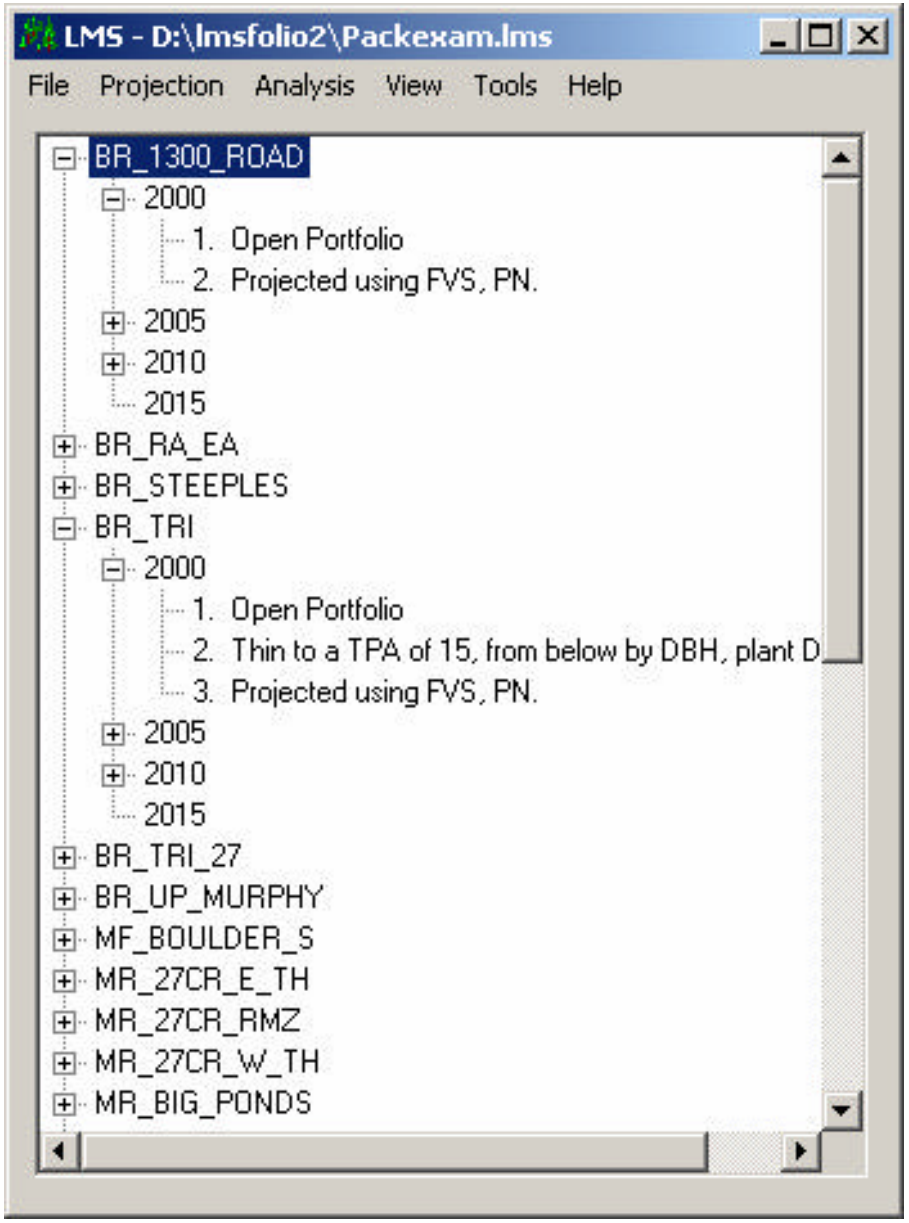


Figure 10.5. When the projection is complete, the main window will display the projection log. Stands grown with no treatment will be displayed as BR_1300_ROAD is shown here. Stands with treatments will be shown, as BR_TRI appears in this example, with the treatment list beside the year that the treatment occurred.

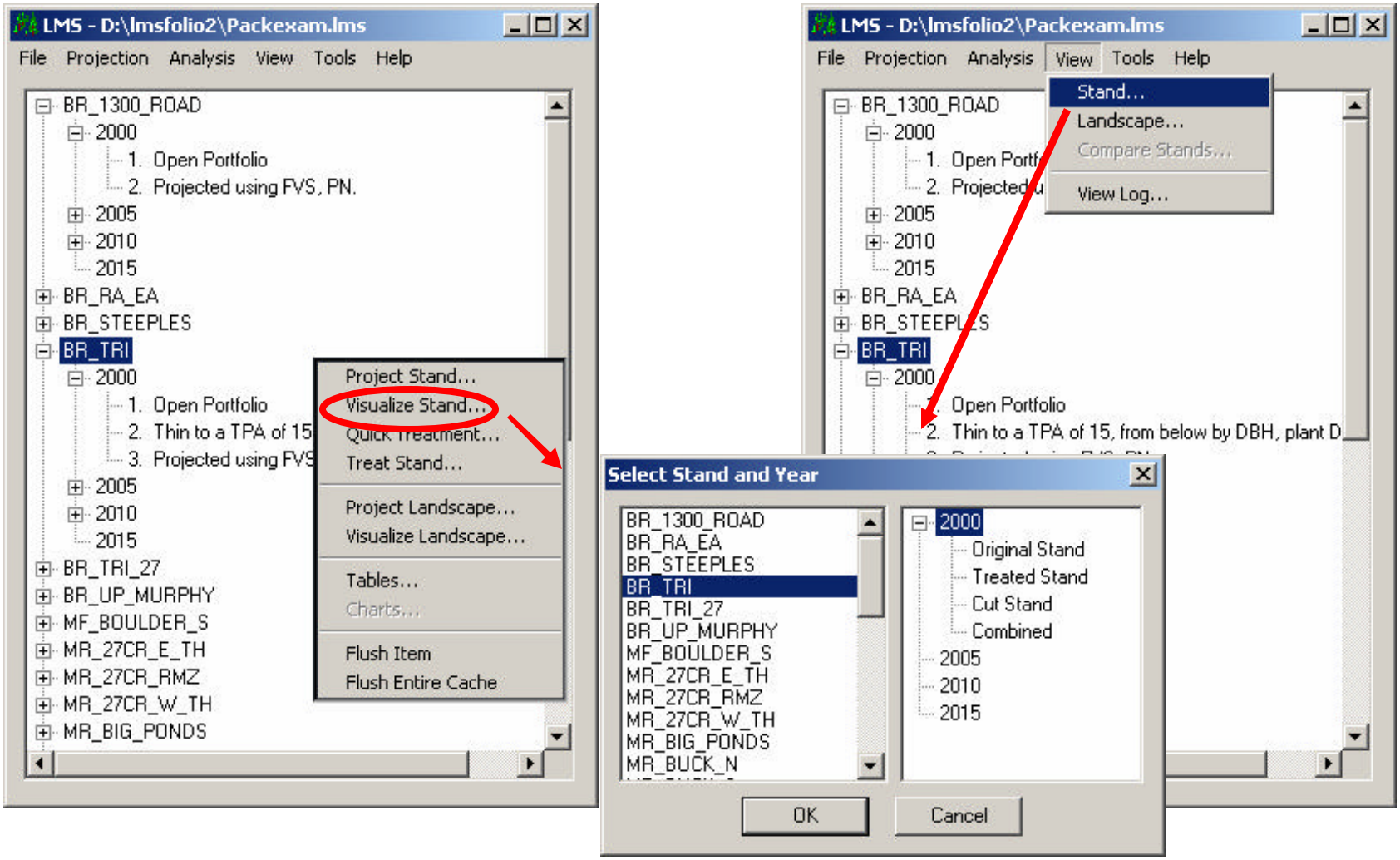
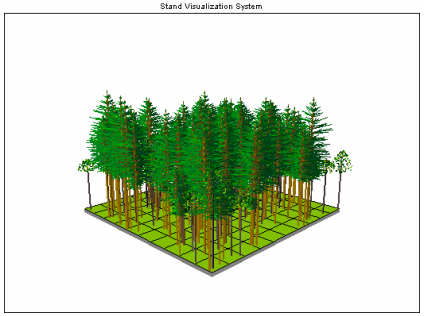
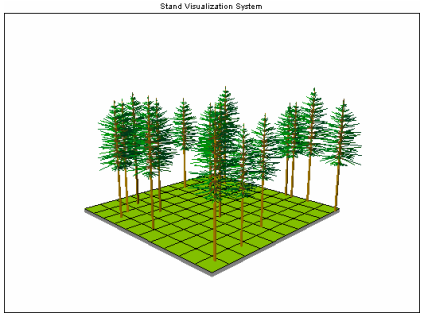
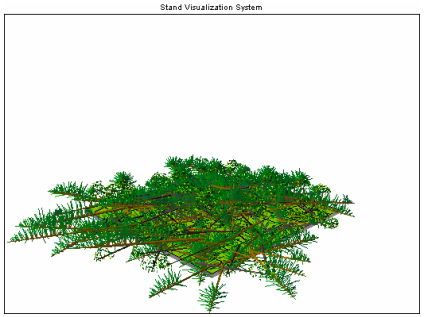


Figure 10.6. To visualize the treatment results, either right click in the main window or click **View/Stand**. The **Select Stand and Year** window will open that was discussed earlier in the Stand Visualization Section. Since the stand has been treated, however, four visualization options are now available for the treatment year. The example shown here is BR_TRI that was selectively harvested to 15 TPA from below and underplanted with 450 TPA of Douglas fir seedlings in the year 2000.







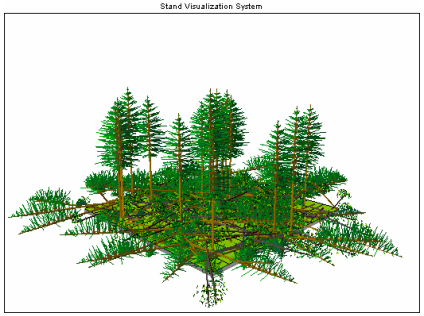
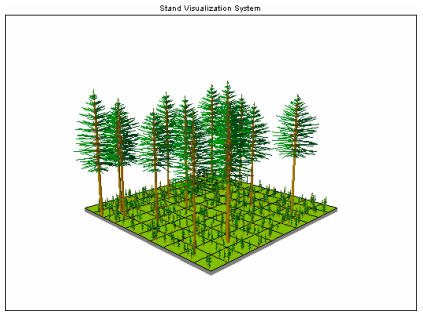
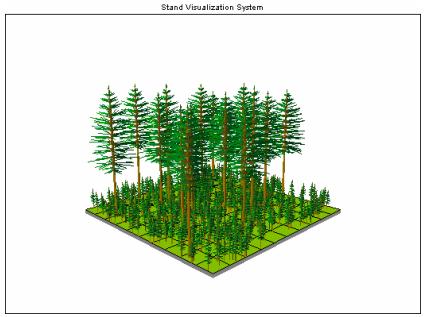
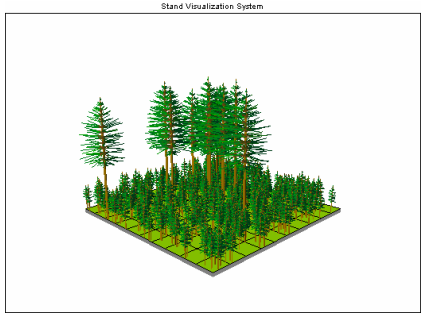


Figure 10.7. The images at the left reflect visualization options for the stand BR_TRI in the year of treatment**,** 2000. The top left is the stand visualization selection of the **Original** stand (prior to harvest). The other images to the left reflect the stand visualization choices for BR_TRI of **Treated, Cut, and Combined**. The images to the right are of BR_TRI for the years following the 2000 treatment: **2005, 2010, and 2015**. Note the growth of the Douglas fir regeneration.







Exercise

- **Project and treat the Pack Example Portfolio using the packexam scenario file.**
- **Experiment with visual and tabular outputs for the stands treated under this scenario.**
- **Use LMS consequences and volume by size tables for data to paste into previously created Excel templates. Note: stands receiving treatments in the packexam.scn are: MR_LLMASH_W, MR_BIG_PONDS, MR_HY_POPLAR, BR_TRI, BR_UP_MURPHY, and BR_TRI_27.**