Regenerate stands

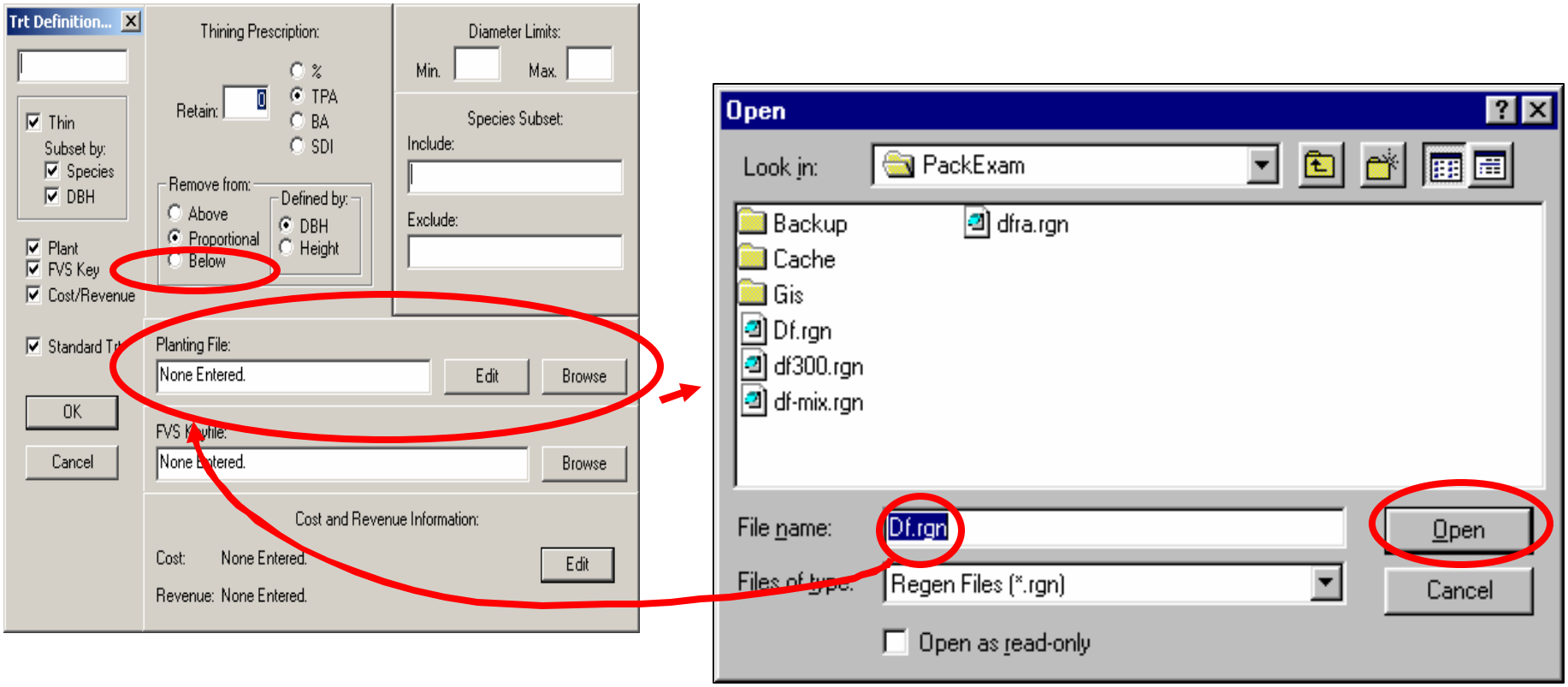


Figure 8.1. In the **Planting File** portion of the **Treatment Definition** window, click **Browse**. In the **Open file** window, click the ***.rgn file** desired, and then click **Open**. The ***.rgn file** name and path will appear in the planting file window. The tree inventory contained in the ***.rgn file** selected will be placed in the stand inventory after treatment. Planting files may be used to place either reforested or in growth juvenile tree records in stand inventories.

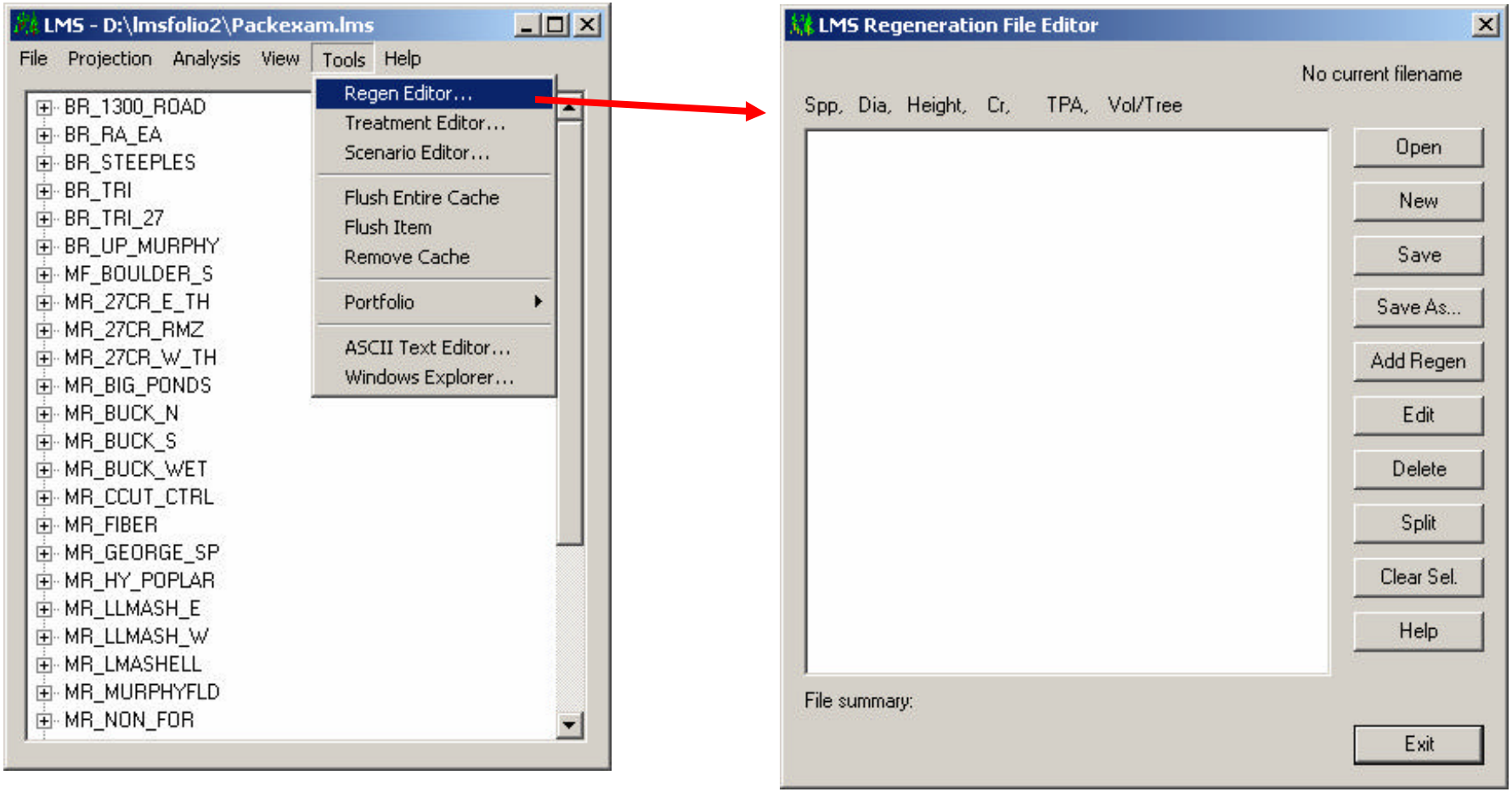


Figure 8.2. To edit or create a regen file click **Tools/Regen Editor…** and the **LMS Regeneration File Editor** will open.

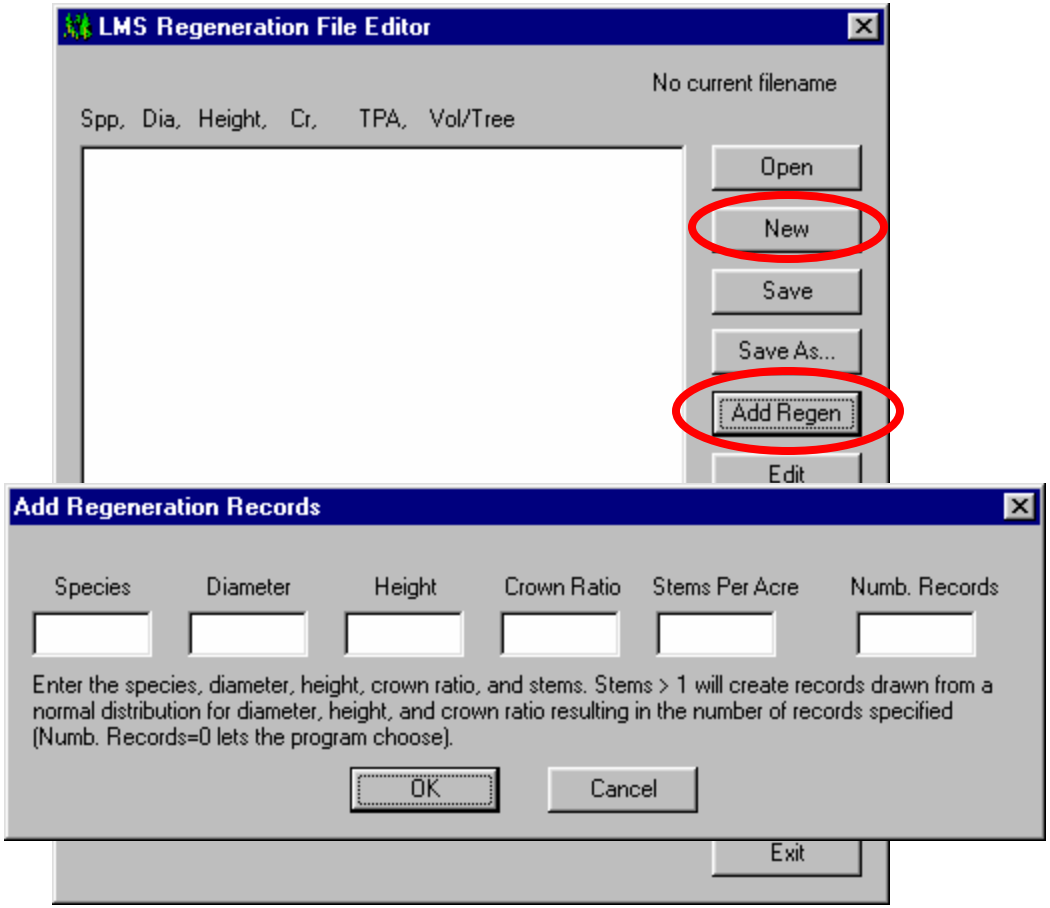


Figure 8.3 To create a new regen file click **New** and **Add Regen** in the **LMS Regeneration File Editor**. The **Add Regeneration Record** window will open. Fill in the **Species, Diameter, Height, Crown Ratio, Stems per Acre, and Number of Records** to represent an average planted or ingrown tree after one growth step period. Click **OK**. LMS will automatically create a normal distribution of diameter, height, and crown ratio for the number of records specified.

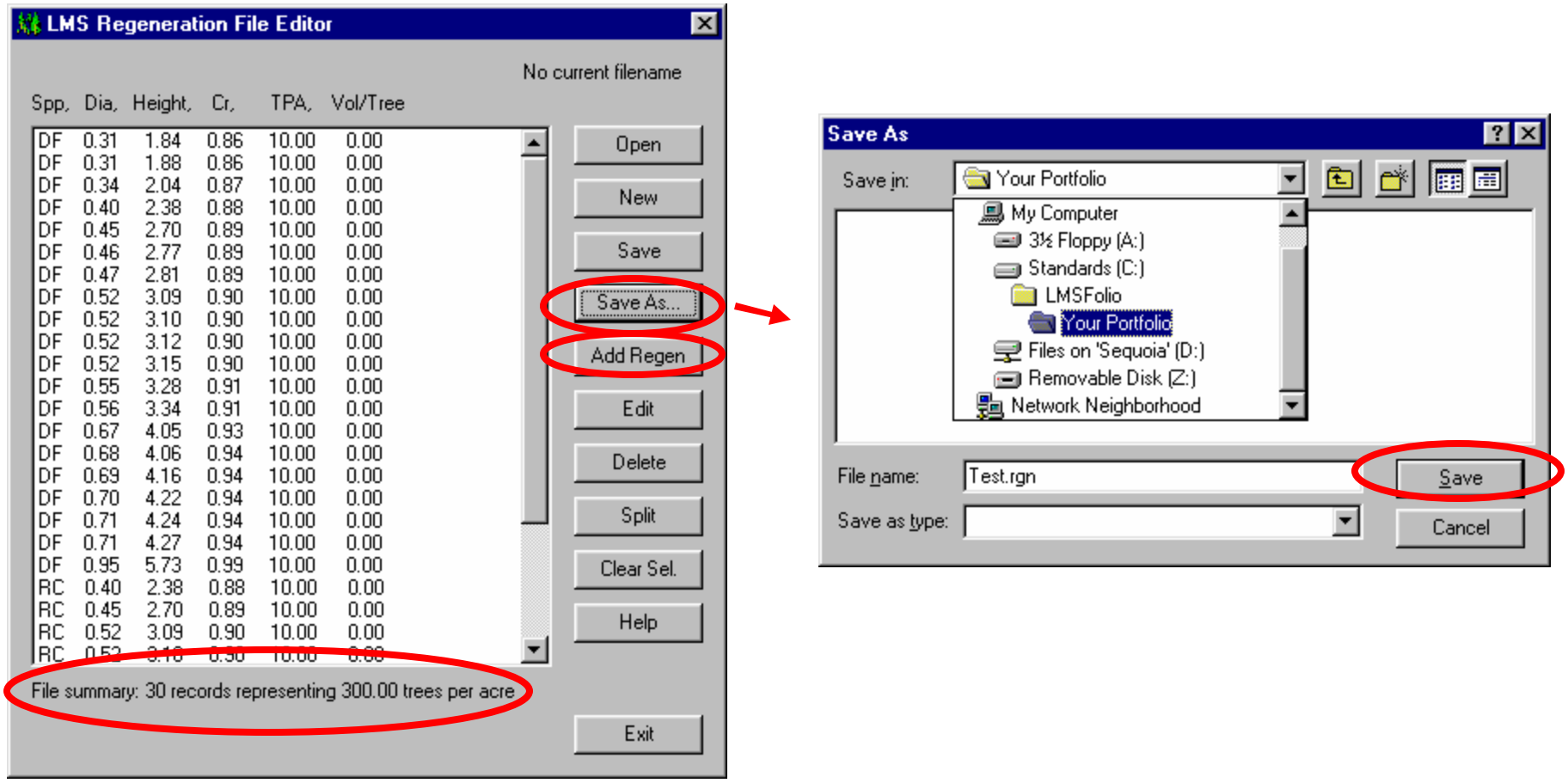


Figure 8.4. To add additional species entries click **Add Regen** button again and repeat with new species record. In this example above, one record was entered for DF and a second for RC. The result is 30 records and 300 TPA as displayed below the record window. **Click Save As…** and place new regen file in **C:/LMSFolio/Your Portfolio**/ (if needed create Your Portfolio folder, in this tutorial example the portfolio is packexam). **Click save**. The new regen file, "Test.rgn" is ready for use with scenario projections. Regen files may be edited as well as created in the LMS Regeneration File Editor.

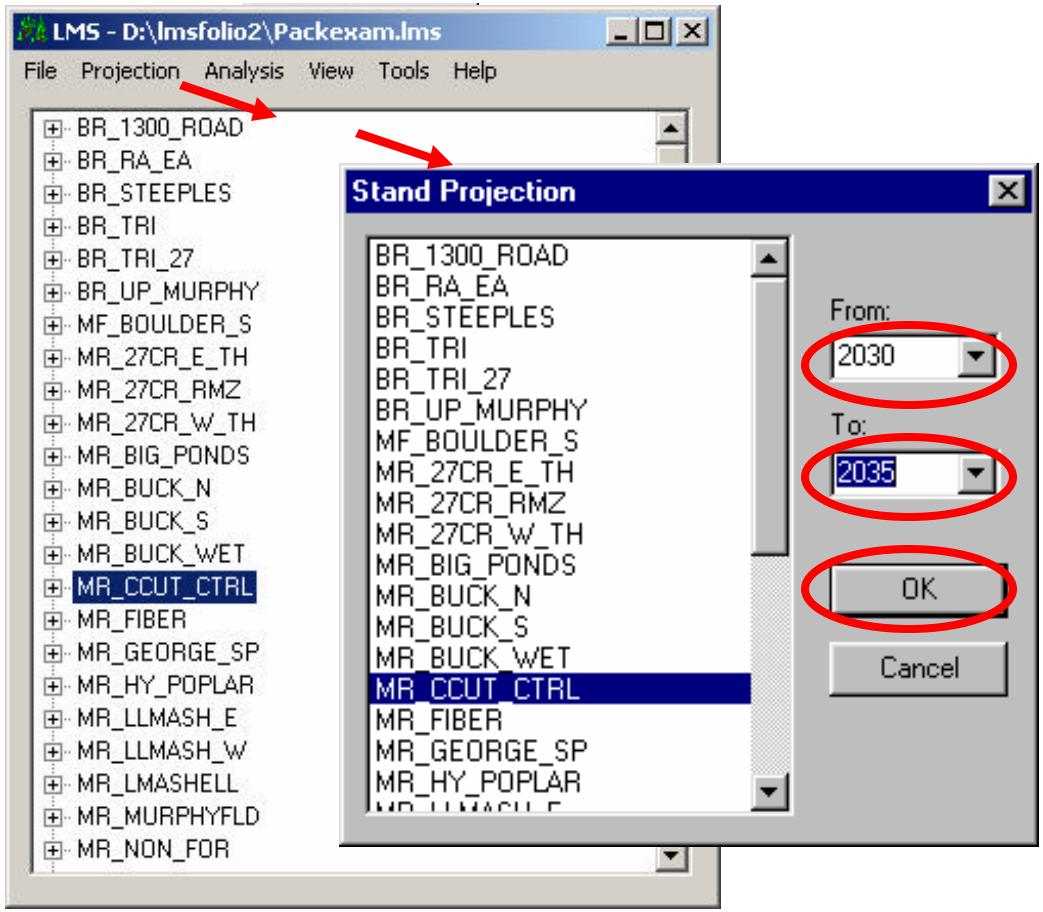


Figure 8.5. The treated stand must be projected a minimum of one growth interval beyond the treatment to allow the regeneration inventory to appear. Regeneration inventory is the user estimate of juvenile tree growth after one growth interval. LMS requires that this be the case because actual planted stock inventories have no diameter at breast height and would not be recognized by the growth model.

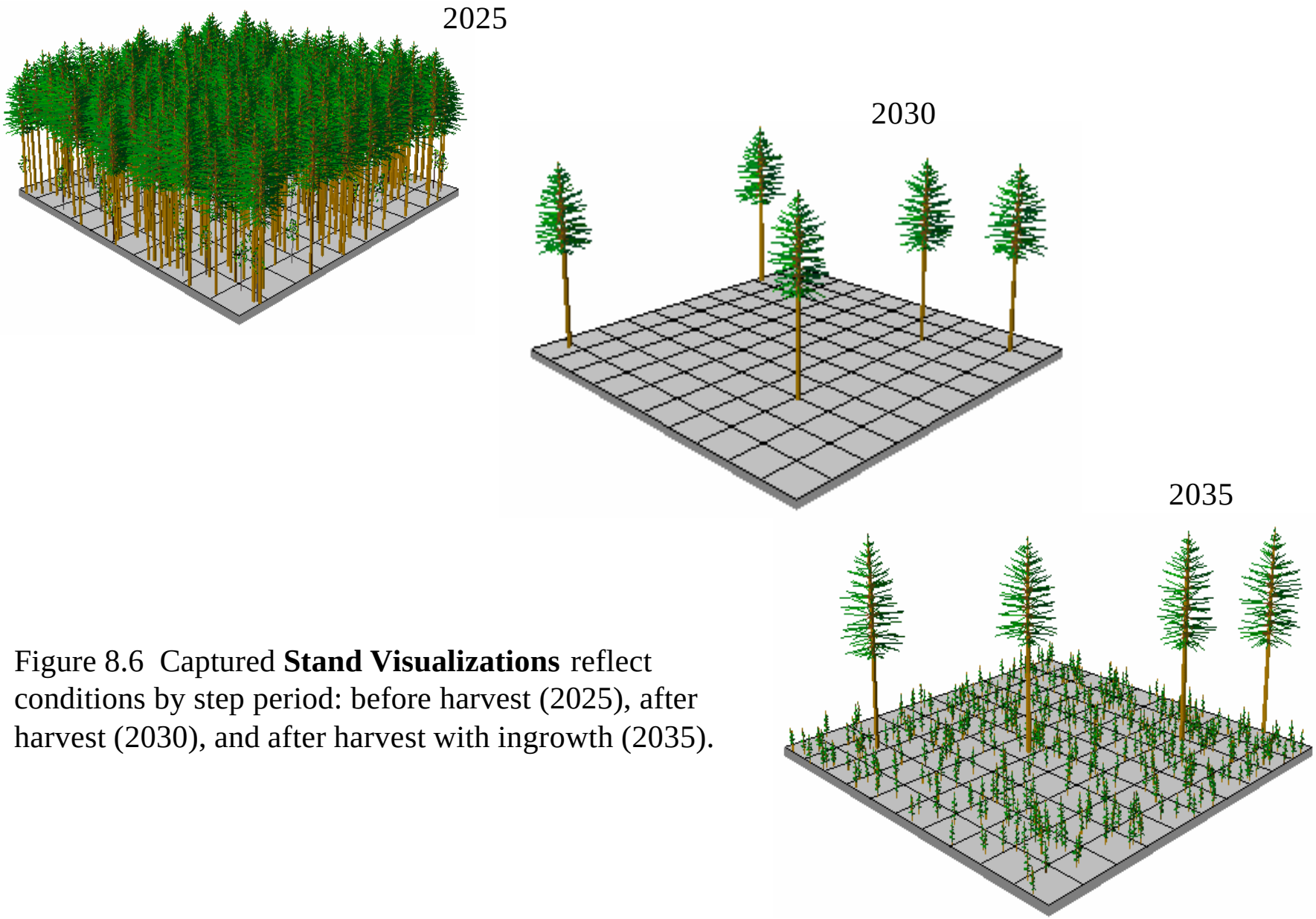
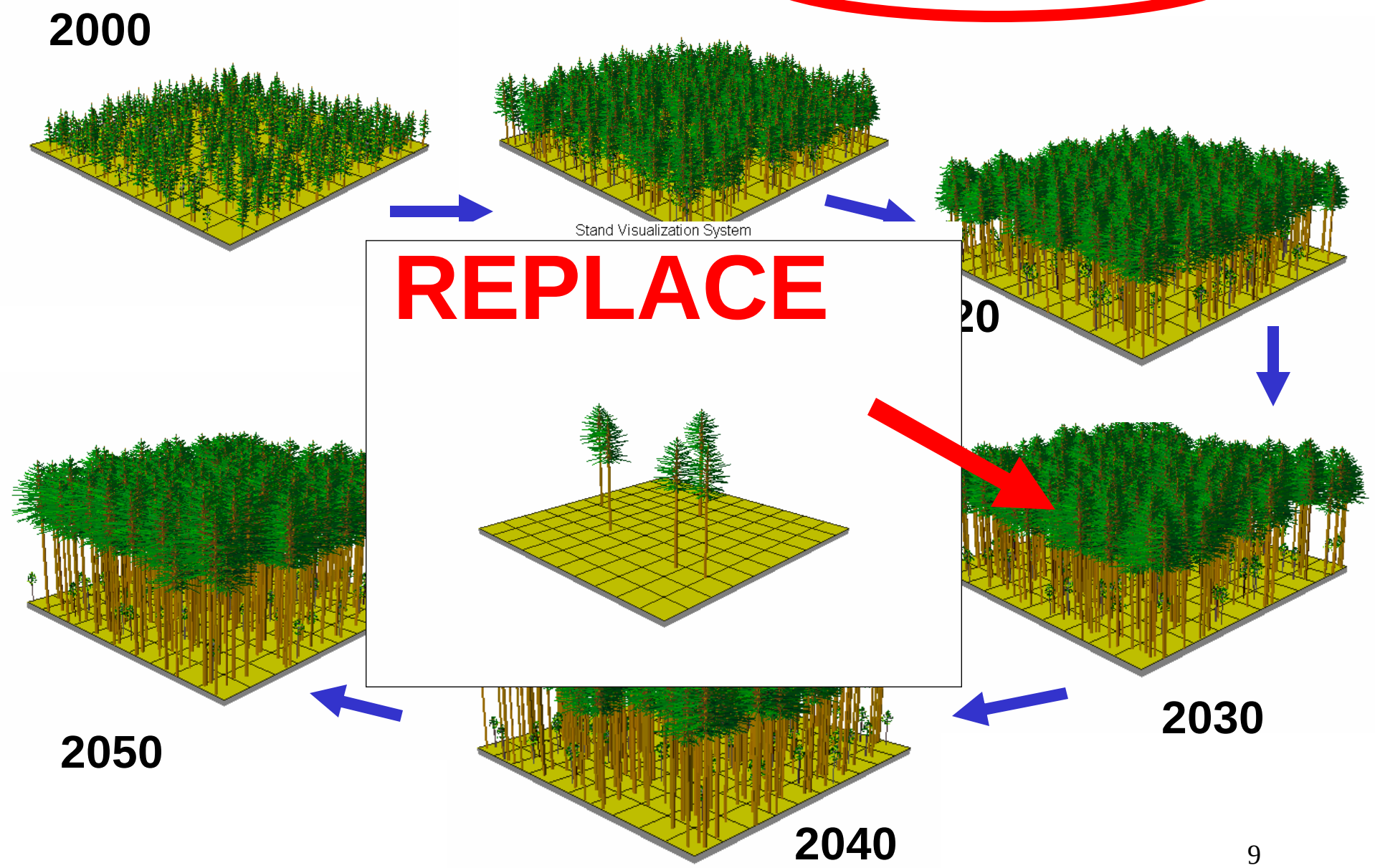


Figure 8.6 Captured **Stand Visualizations** reflect conditions by step period: before harvest (2025), after harvest (2030), and after harvest with ingrowth (2035).

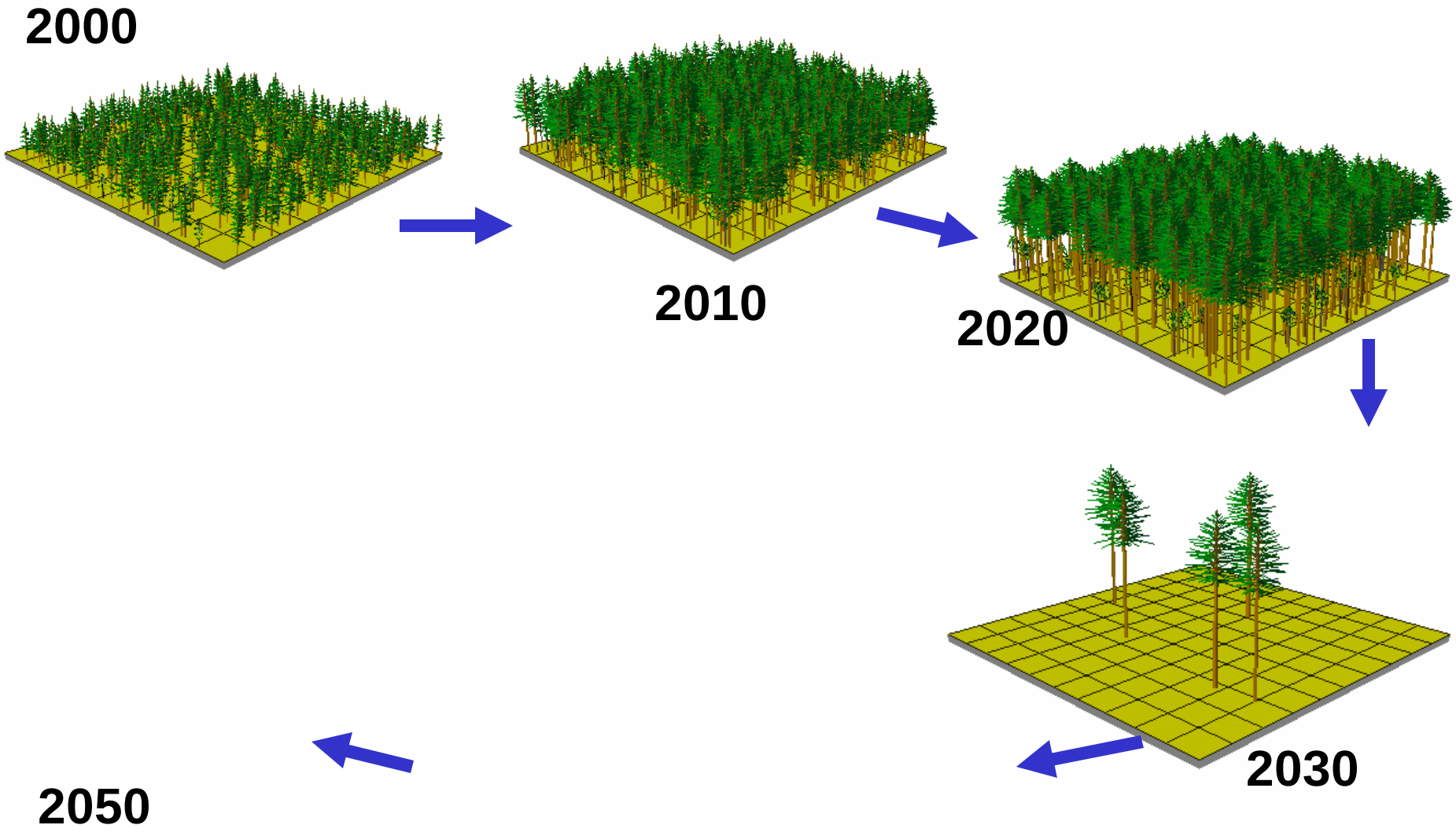
Exercise

- **Start over (flush cache)**
- **In 2030, clearcut (thin to 5 TPA) stand MR_CCUT_CTRL and regenerate with 300 Df/acre. Project stand forward with no other treatment to 2050**
- **Show visualization**

MR_CCUT-CNTRL, no treatment



MR_CCUT-CNTRL, Clearcut with df ingrowth



Exercise

- **From Excel Templates create charts...**
- **Show volumes by tree sizes--cut & standing**
- **Show H/D ratios**
- **Show stand structures**