

NOTE: There are 7 R scripts and 3 CSV files in this folder. List of R files:

1. **HelperFunctions.R** - This file contains all the functions I wrote and used for the completion of this project. Functions are documented, if further detail is needed please let me know.
2. **BaseSimulationsAndFigureGeneration.R** - This file is used to create the base simulations and also plot them. The base simulations are the ones we have 8 plots total, within 2 figures, and each plot has 3 different groups.
3. **100YearPerformanceCriterion.R** - This file is used to complete the simulation that produces the 100 Year Performance data. NOTE: DO NOT RUN THIS UNLESS IT NEEDS TO BE REDONE. IT IS A LENGTHY PROCESS.
4. **20YearPerformanceCriterion.R** - This file is used to complete the simulation that produces the 20 Year Performance data. NOTE: DO NOT RUN THIS UNLESS IT NEEDS TO BE REDONE. IT IS A LENGTHY PROCESS.
5. **CarryingCapacitySimulation.R** - This file is used to complete the simulation that produces the carrying capacity data. NOTE: DEFINELY DO NOT RUN THIS UNLESS IT NEEDS TO BE REDONE. IT IS A LENGTHY PROCESS.
6. **Performance-CarryingCapacityFigureGeneration.R** - This file is used to generate the 100 (and 20) year performance criterion and carrying capacity graphs. This uses the CSV files, so it is safe to run and will run fast.
7. **PBRComparisionTable.R** - This file is used to generate the data for comparing the two different PBR methods. It does have some functions written but they are also documented.

CSV Files:

1. **CarryingCapGoalData.csv**
2. **100YearPerformanceData.csv**
3. **20YearPerformanceData.csv**

Let me know if you have questions.

-Humza