Title: R Script for LANDISII reps
Project: LANDIS-II Updates Project

Project Component: Component Deposition:

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The following single line of code exactly duplicates the functionality of LANDIS-II Replicator widget. It must be executed within R as a ONE-LINE INPUT (ie no breaks in the line of code). Because the code calls a Windows, console-based "FOR" loop, the user must manually set

- 1) the number of LANDIS-II replications,
- 2) the directory path to the LANDIS-II scenario files,
- 3) the directory (folder) housing the LANDIS-II scenario files,
- 4) the directory (folder) where the replications are to be outputted, and
- 5) the name of the scenario.txt file to be run

Note that the current working directory in R is irrelevant. An example is provided below referencing the five, requisite manual settings listed above.

EXAMPLE

The full line of code to be entered as ONE LINE of input in R:

shell(shQuote(paste("FOR /l %A IN (1,1,3) D0 (cd C:\\Users\\bmarr\\Desktop\\ & robocopy AgeOnlySuccession_slel LANDISII\\Run%A /e & cd C:\\Users\\bmarr\\Desktop\\Landis-ii scenario_slel.txt)")))

Itemized sections of the line of code:

shell(shQuote(paste("FOR /l %A IN (1,1,3) D0 (cd C:\\Users\\bmarr\\Desktop\\ &

1) number of reps; here 3

shell(shQuote(paste("FOR /l %A IN (1,1,3) DO (cd C:\\Users\\bmarr\\Desktop\\ &

2) path to the location of LANDIS-II scenario files (note use of double slashes which are required for R)

3) name of directory housing the LANDIS-II scenario files

... & robocopy AgeOnlySuccession_sle1 LANDISII\\Run%A /e & cd C:\\Users\\bmarr\\Desktop\\LANDISII\\Run%A\\ & call landis-ii scenario_sle1.txt)")))

4) name of directory where the replications are to be outputted

4) note that the ampersand signals a new command and the full directory path must be specified)

$ \& robocopy AgeOnlySuccession_sle1 LANDISII\\ \ /e \& cd C:\\ \ Users\\ \ Desktop\\ LANDISII\\ \ Run%A\\ \ A \ /e \& cd C:\\ \ A \ A \ /e \& cd C:\\ \ A \ A \ /e \& cd C:\\ \ A \ A \ A \ A \ A \ A \ A \ A \ A \ $	& call landis-ii scenario_sle1.txt)")))
	5) standard call to run LANDIS-II 5) LANDIS-II will run 'scenario_sle1.txt'