

# LANDIS-II Biomass Community Output v3.0 Extension User Guide

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# 1 Introduction

This document describes the **Biomass Community Output** extension for the LANDIS-II model. Readers should read the *LANDIS-II Model User Guide* prior to reading this document.

The output extension described herein is fairly simple and produces a text file and a map. The extension was designed to generate initial community files that can be fed back into the model as a new initial community. This can be useful in the contexts of gaming, virtual reality, and other circumstances.

**The extension is compatible only with succession extensions that allow initial biomass information in parentheses.** For example, the community:

RedMaple 10 (251) 50 (16318)

Where (251) and (16318) indicate the initial biomass for that cohort. To date, the NECN and PnET Succession extensions require or allow this format, respectively. Biomass Succession does not.

## 1.1 Major Releases

### 1.1.1 Version 3.0

Updated for compatibility with Core v8.0

### 1.1.2 Version 2.0

Updated for compatibility with Core v7.

### 1.1.3 Version 1.0

Initial Release.

## 1.2 Minor Releases

## 2 Input File

The input parameters for this extension are specified in one input file. This text file must comply with the general format requirements described in section 3.1 Text Input Files in the *LANDIS-II Model User Guide*.

### 2.1 LandisData

The first parameter is the title of the input file:

```
LandisData "Output Biomass Community"
```

### 2.2 Timestep

The second parameter is the time step in years. For example:

```
Timestep 15
```

## 3 Output Files

### 3.1 CSV File

A CSV file is created with all data, in the format: MapCode, Species Name, Cohort Age, Cohort Biomass. The CSV is designed to be used in any analysis that requires a full accounting of cohort data.

### 3.2 TextFile

A text file is created that can be used as an initial community.

### 3.3 Map

A map file (\*.IMG) is created that can be used as an initial community.