This readme document describes various input and output data found in this rollout package. The six folders that the rollout package contains are described below.

**1. “Crosswalk and Definitions”**

This folder contains several spreadsheets which better define both the VDDT models as well as the VDDT output codes.

*"Structure\_Transitions\_LUT.xlsx"*

A look-up table (LUT) linking VDDT numerical output codes to structure, cover, and transition names. The folder contains an excel file with two tabs: 1) a tab linking ClassCode to structure and cover information, and 2) a tab linking TransTypeCode information to probabilistic transition names.

Structure/Cover tab

PVT - Model name

ClassCode – A concatenation of structure and cover type numbers; also known as state class; number is unique within a PVT but can be found in other PVTs if identical cover-structure combinations are present.

SSNumber - Structural stage number; numbers can repeat within a PVT if multiple cover types are present; numbers can repeat across PVTs if identical structures are present in other models.

SSName - Structural stage name; names can repeat within a PVT if multiple cover types are present; numbers can repeat if identical structures are present in other models.

SSAbbr - Structural stage abbreviation; abbreviations can repeat within a PVT if multiple cover types are present; abbreviations can repeat if identical structures are present in other models.

CTNumber - Cover type number; unique for each cover type within a PVT; numbers can repeat across PVTs if identical cover types are present in other models.

CTName - Cover type name, unique for each cover type within a PVT, names can repeat across PVTs if identical cover types are present in other models.

StartAge – the beginning age of a VDDT State

EndAge – The ending age of a VDDT state

Transitions tab

PVT - Model name

TransTypeCode - Number is unique within a PVT but can be found in other models if the transition occurs.

TransTypeAbbr - Transition abbreviation

TransTypeName - Transition name

*"Model Region\_PVT\_Names.xlsx”*

The PVT model names and the full model names.

*“PAG\_PVT\_xwalk.xlsx”*

This spreadsheet lists the crosswalk made from the Plant Association Group (PAG) map to our PVTs.

*“StructureDefinitions&CoverType\_LUT\_from\_GNN.docx”*

This file lists the structure crosswalk made from GNN to VDDT structures, and from GNN FORTYPIV to VDDT cover types.

**2. “Grids of State Classes”** – This folder contains two grids that link rollup data with text and numeric codes of state classes.

*“stateclass\_c.img”*  - A classified grid which combines our modeling strata (HUC/PVT/Ownership/Allocation) and states spatially. The raw data represents a broader suite of conditions that is modeled in VDDT. We therefore created a rule set to reclassify those states which are not represented in our models. This classified spatial representation of VDDT states reflects our starting conditions in the VDDT models.

*“stateclass\_u.img”* - An unclassified grid which combines our modeling strata (HUC/PVT/Ownership/Allocation) and states spatially. This unclassified grid represents all states currently found on the ground, even if those states do not exist in the VDDT models.

**3. “Initial Conditions”** – **This** folder contains a spreadsheet that shows our starting conditions for the model runs. The file lists the number of pixels within each modeling strata and state. Such a file might be useful for TELSA runs to ensure everyone uses the same starting conditions.

**4. “Stratum Map”** – This folder contains one raster layer that shows both the unlumped and lumped strata (combination of HUC/PVT/Ownership/Allocation). The lumped strata indicate the modified Ownership/Allocation and PVT layers where the small strata less than 1000 acres were reassigned to similar strata when possible to include the majority of lands in our models.

**5. “VDDT Models”** – This folder contains the VDDT models used in this analysis.

**6.** “**VDDT\_Output”** – This folder contains two CSV file of summarized VDDT outputs – one summarized by state classes and the second one summarized by transition types. The outputs have been summarized across 30 Monte Carlo simulations and provides several areal summary statistics. Raw output files are available upon request.