LandisData "SCRAPPLE"

Species\_CSV\_File "./scrpple/SCRPPLE\_spp\_4fri.csv"

AccidentalIgnitionsMap "./scrpple/acc\_ig\_re.tif"

LightningIgnitionsMap "./scrpple/lit\_ig\_re.tif"

RxIgnitionsMap "./scrpple/template\_zero.tif" <<NEEDED FOR RUN

AccidentalSuppressionMap "./scrpple/template\_zero.tif" <<updated sf 2022-3-7

LightningSuppressionMap "./scrpple/template\_zero.tif" <<updated sf 2022-3-7

RxSuppressionMap "./scrpple/template\_zero.tif" <<NEED

GroundSlopeMap "./scrpple/slope\_final.tif"

UphillSlopeAzimuthMap "./scrpple/upslopeasp\_final.tif"

ClayMap "./scrpple/soil\_eco\_re.tif"

>>>>>>>> Count model<<<<<<<< << sf updated 2022-4-29 with new params to match ignitions from Karen Short database for entire SN

**LightningIgnitionsB0 -6.966788 >> -7.665758 (update after calibration – need to test Feb 2024)**

**LightningIgnitionsB1 0.0826**

**AccidentalIgnitionsB0 -5.210475**

**AccidentalIgnitionsB1 0.0644**

IgnitionDistribution Poisson << Poisson or ZeroInflatedPoisson

MaximumFineFuels 1000 <<Set to 1000 to match typical maximum fine fuels from LANDIS model, sf 2021-11-11; Originally 5400, Derived from Fuel Loadings with Jonathan Long

>> Prescribed Fire Parameters

>> make sure to fix for full landscape!!!

MaximumRxWindSpeed 11

MaximumRxFireWeatherIndex 42.0

MinimumRxFireWeatherIndex 6.0

MaximumRxTemperature 32.0 << Optional

MinimumRxRelativeHumidity 22.0 << Optional

MaximumRxFireIntensity 1

NumberRxAnnualFires 0

NumberRxDailyFires 1

FirstDayRxFires 10

LastDayRxFires 350

TargetRxSize 40

>> Parameters are from TCSI

**MaximumSpreadAreaB0 -71**

**MaximumSpreadAreaB1 17.5 <<-3 <<FWI**

**MaximumSpreadAreaB2 10.6 <<-2.5 <<effective wind speed**

>>updated 2022-4-22 from mixed-effects regression

**SpreadProbabilityB0 -2.4 <<more negative means lower spread**

**SpreadProbabilityB1 0.0137766 <<FWI**

**SpreadProbabilityB2 0.5442314 << relativized fine fuels. Was .915**

**SpreadProbabilityB3 0.0907120 << effective wind speed.**

**SiteMortalityB0 -0.0004047 << Intercept TCSI**

**SiteMortalityB1 0.00026380 << Clay TCSI**

**SiteMortalityB2 -0.00000483 << Previous PET TCSI**

**SiteMortalityB3 0.00003033 <<Wind TCSI**

**SiteMortalityB4 0.00000857 <<CWD TCSI**

**SiteMortalityB5 0.00358100 <<Fine TCSI**

**SiteMortalityB6 0.00000064 <<Ladder TCSI**

CohortMortalityB0 -0.794887 << Intercept (TCSI == -0.73)

CohortMortalityB1 -0.156927 << The parameter fit for the relationship between bark thickness and cohort mortality (TCSI == -0.9)

**CohortMortalityB2 0.008 << The parameter fit for the relationship between site mortality and cohort mortality. TCSI**

LadderFuelMaxAge 20

LadderFuelSpeciesList

AbieConc AbieLasi JuniOste PiceEnge PicePung PinuEdul PinuPond PopuTrem PseuMenz QuerGamb

SuppressionMaxWindSpeed 12

Suppression\_CSV\_File "./scrpple/Suppression\_Input\_None.csv"

>>Suppression\_CSV\_File "../../Inputs/scrpple/Suppression\_Input\_Gannon.csv" <<updated sf 2022-3-7

**DeadWoodTable <<Needs updated**

**AbieConc 29**

**AbieLasi 29**

**JuniOste 24**

**PiceEnge 26**

**PicePung 26**

**PinuEdul 25**

**PinuPond 24**

**PopuTrem 30**

**PseuMenz 27**

**QuerGamb 24**