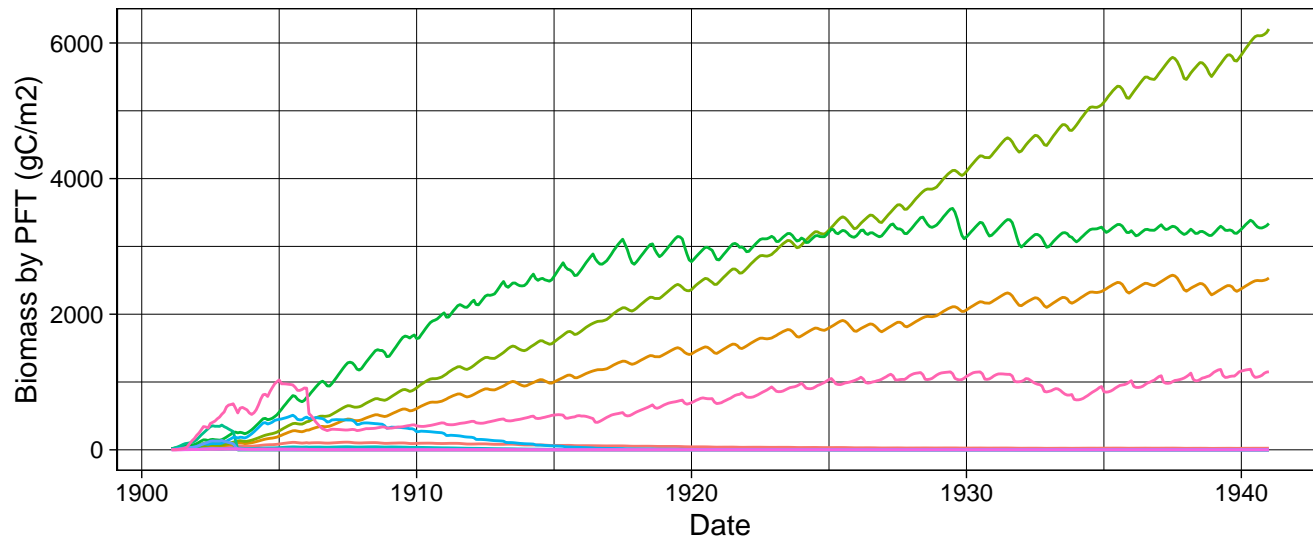


Figure 1: Simulation Overview

A

Mini Spin-up from Bare Ground



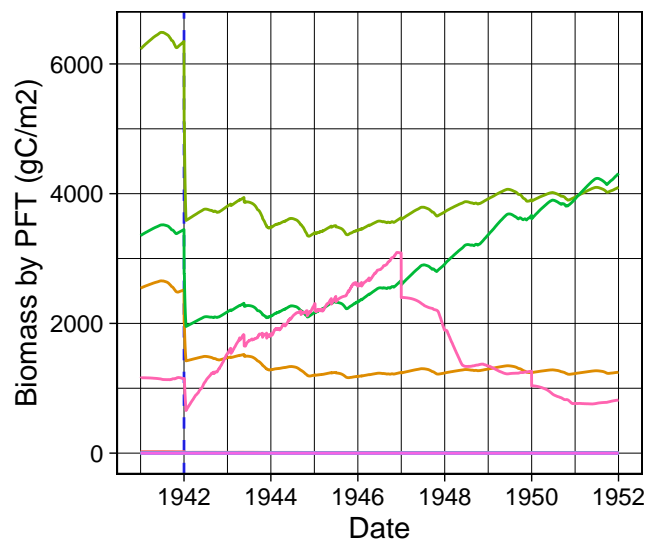
PFT

- broadleaf_evergreen_tropical_tree
- needleleaf_evergreen_extratrop_tree
- needleleaf_colddecid_extratrop_tree
- broadleaf_evergreen_extratrop_tree
- broadleaf_hydrodecid_tropical_tree
- broadleaf_colddecid_extratrop_tree
- broadleaf_evergreen_extratrop_shrub
- broadleaf_hydrodecid_extratrop_shrub
- broadleaf_colddecid_extratrop_shrub
- arctic_c3_grass
- cool_c3_grass
- c4_grass

B

Logging Simulation (Restart)

Blue line marks harvest date



C

Logging Simulation (Restart)

Zoomed In

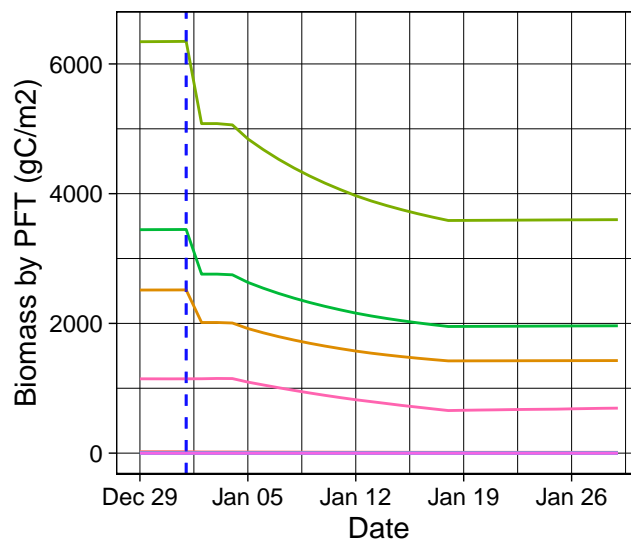
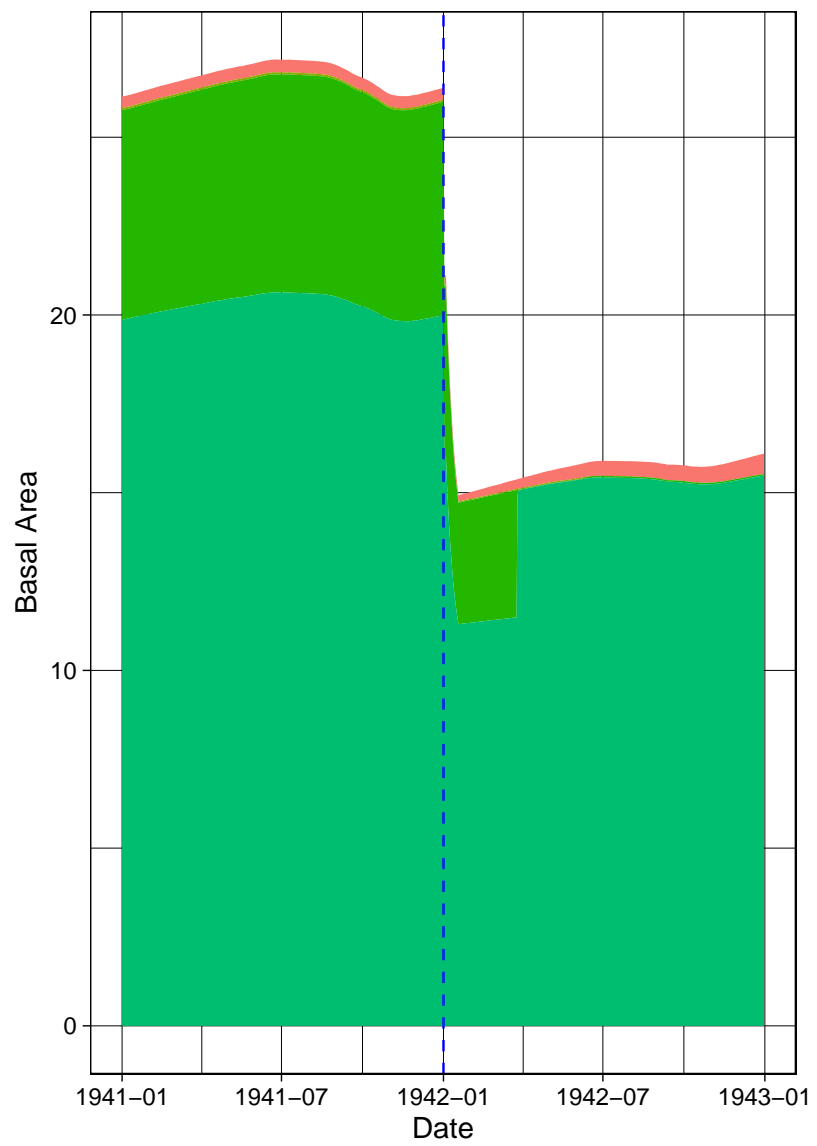


Figure 2: Basal Area
Blue line marks harvest date

A Logging Simulation (Restart)



B Logging Simulation (Restart)
Zoomed In

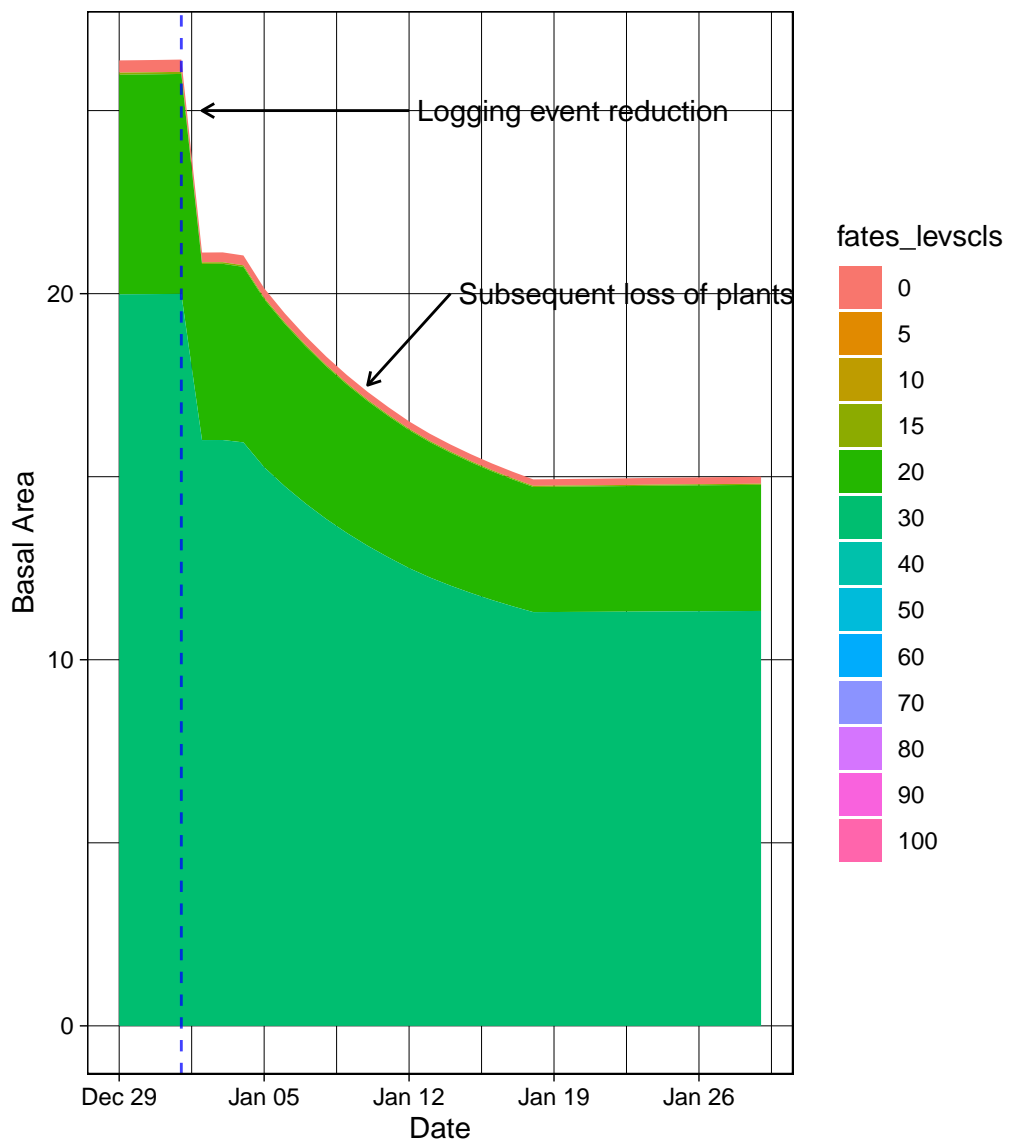
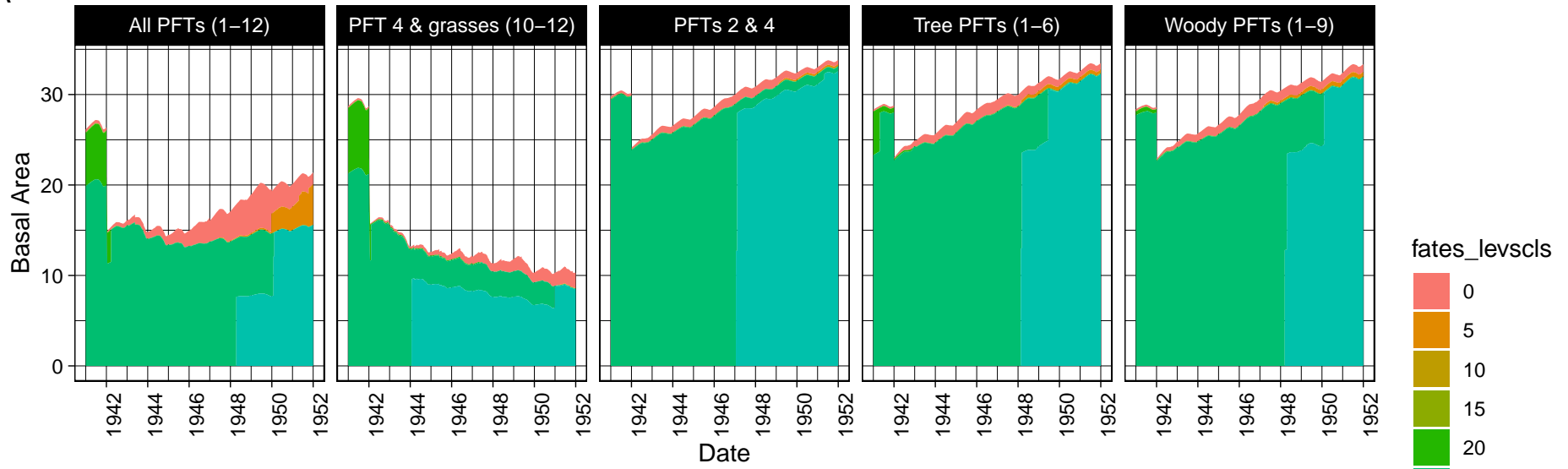


Figure 3: PFT Composition

A



B

Zoomed in on logging event

Blue line marks harvest date

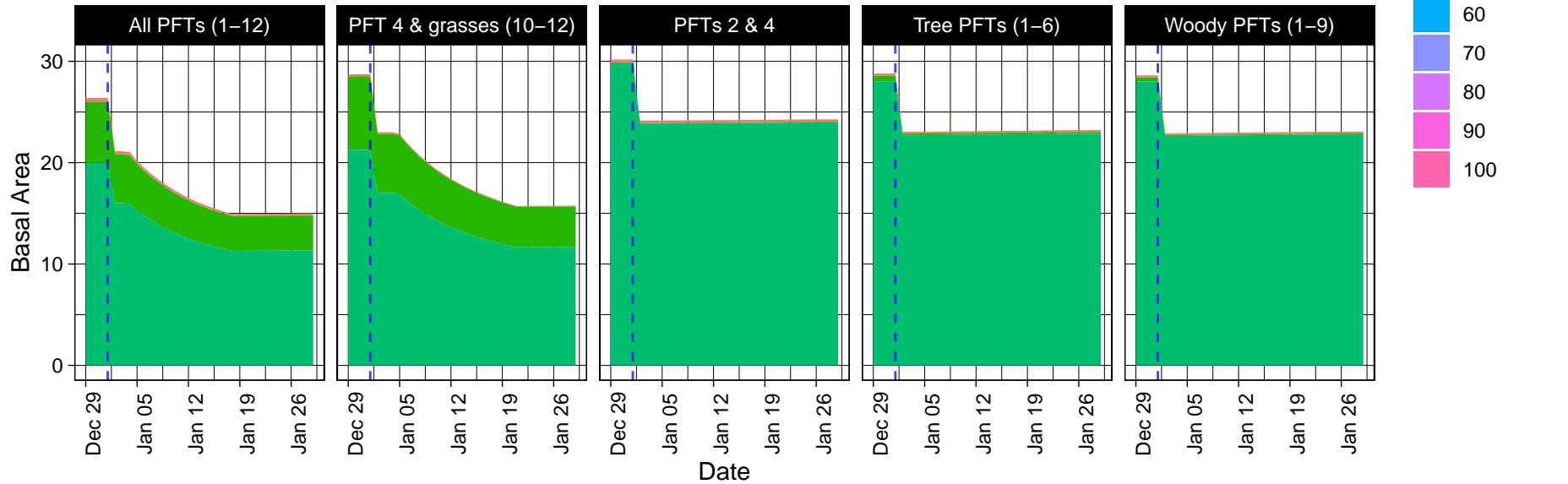


Figure 4: Mortality Types

Blue line marks harvest date

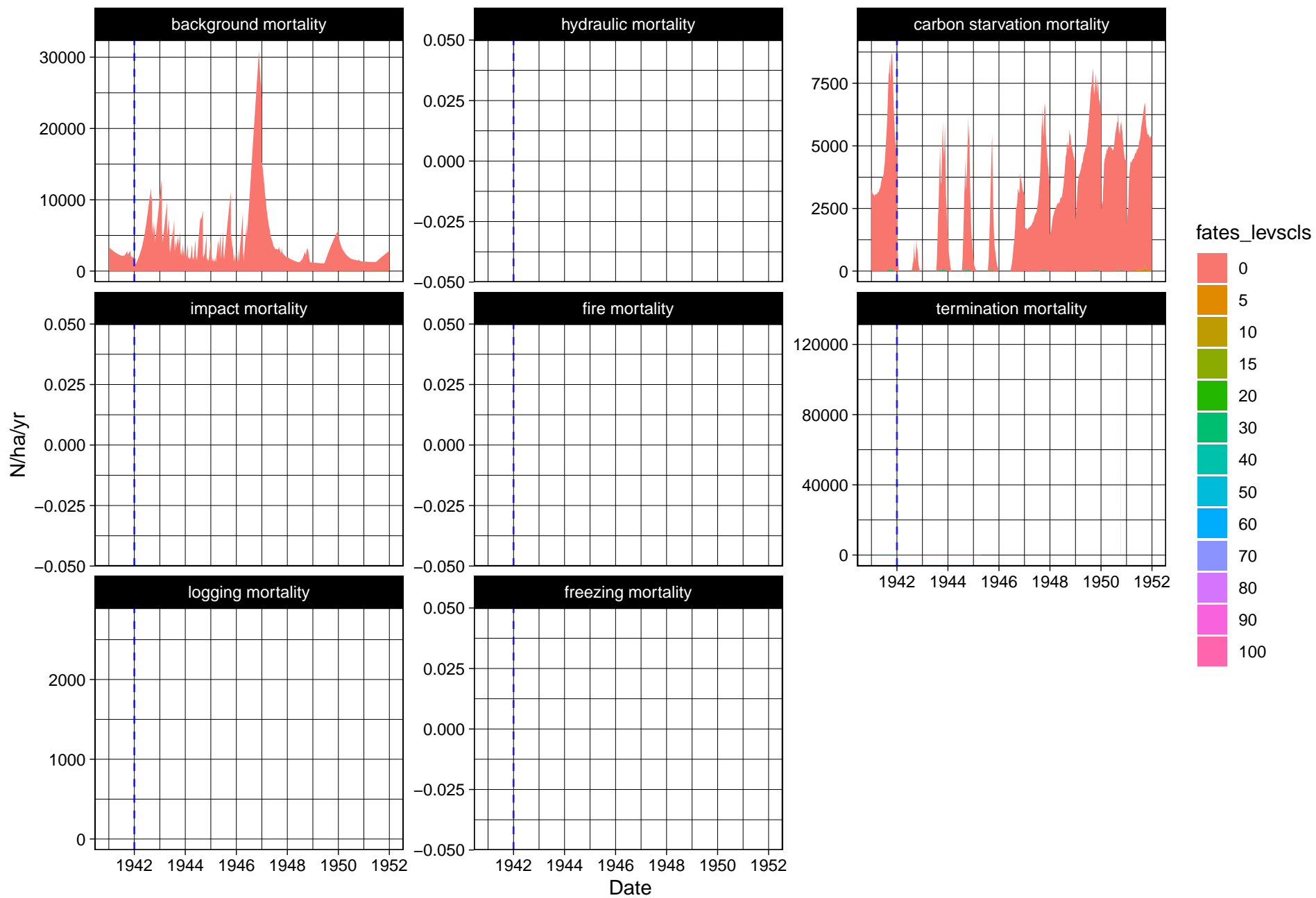
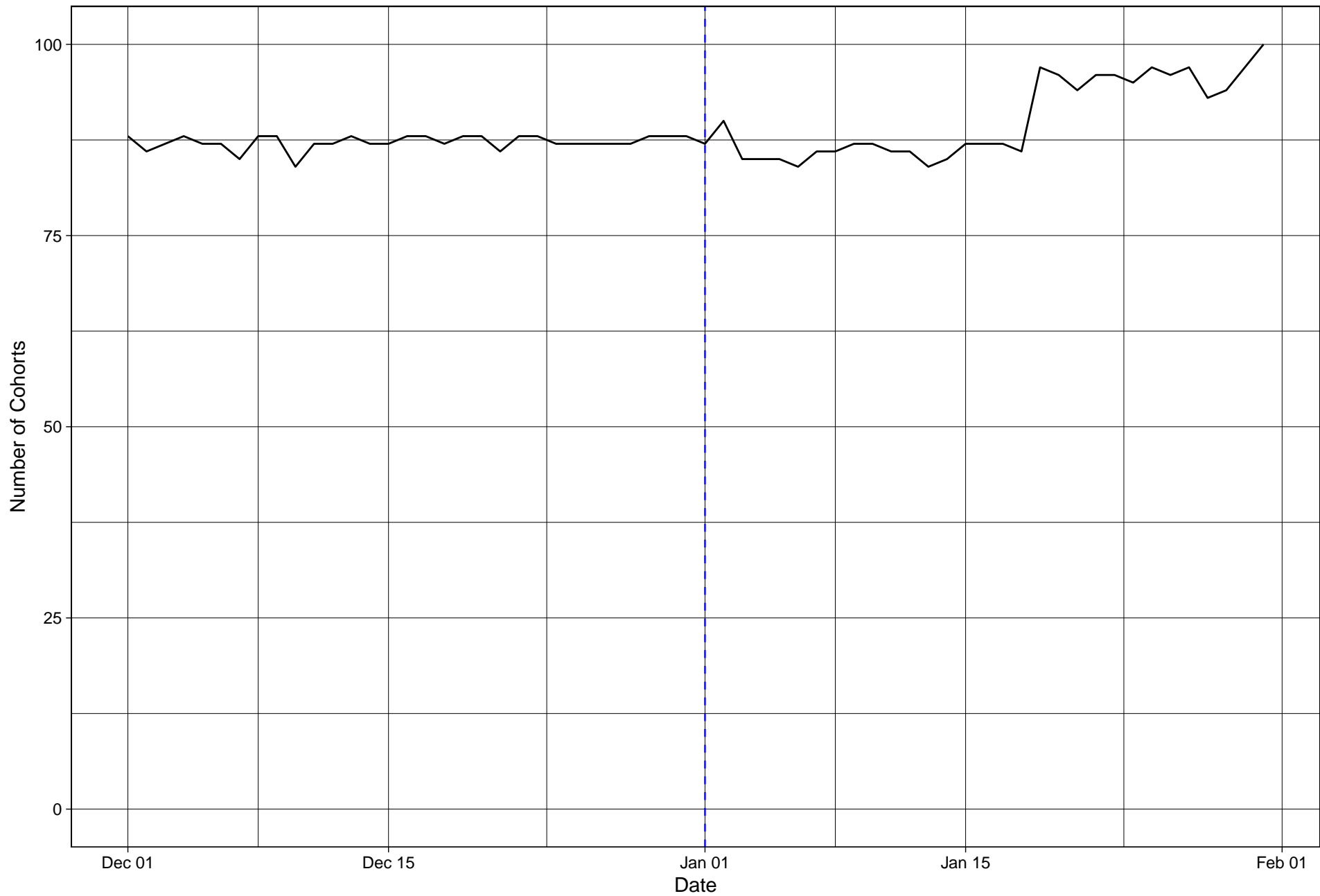


Figure 5: Number of Cohorts

Blue line marks harvest date



Documentation of FATES Issue: Unexplained loss of plants following logging events
Joshua M. Rady

Proj_7_Exp_55_Analysis.r IssuePlots2() plots.
JMR CentennialTools.r
Wed 12/02/20 EST 21:05:12

Node: Steppin-Razor Running: macOS Mojave 10.14.6
R version 3.6.1 (2019-07-05) x86_64-apple-darwin15.6.0 (64-bit)
With: patchwork, 1.0.0, R 3.6.0; ; 2019-12-02 20:49:55 UTC; unix,
reshape2, 1.4.3, R 3.6.0; x86_64-apple-darwin15.6.0; 2019-04-27 00:13:50 UTC; unix,
ggplot2, 3.2.1, R 3.6.0; ; 2019-08-11 11:45:27 UTC; unix,
ncdf4, 1.16.1, R 3.6.0; x86_64-apple-darwin15.6.0; 2019-04-26 20:03:28 UTC; unix

CLM data from CESM case(s):
Brazil40yrSpinUp_All_PFTs, DCF_Logging_1942_20pct_All_PFTs_CCM_Off,
DCF_Logging_1942_20pct_PFTs_2n4_CCM_Off, DCF_Logging_1942_20pct_PFTs_4nGrass_CCM_Off,
DCF_Logging_1942_20pct_Tree_PFTs_CCM_Off, DCF_Logging_1942_20pct_Woody_PFTs_CCM_Off