

240502 (White-tailed deer)

- Showed disease positive/negative population; removed positive populations
- Remove even columns and rows
 - Umatrix <- Umatrix[-18,][-16,][-14,][-12,][-10,][-8,][-6,][-4,][-2,]
Umatrix <- Umatrix[, -18][, -16][, -14][, -12][, -10][, -8][, -6][, -4][, -2]
 - Fmatrix <- Fmatrix[-18,][-16,][-14,][-12,][-10,][-8,][-6,][-4,][-2,]
Fmatrix <- Fmatrix[, -18][, -16][, -14][, -12][, -10][, -8][, -6][, -4][, -2]

248235 (Natterjack toad)

- Removed second half of rows and columns (removed all males)
 - Umatrix <- Umatrix[-c(8:14),][-c(8:14)]
 - Fmatrix <- Fmatrix[-c(8:14),][-c(8:14)]

248948, 248949 (Human)

- Fertility matrix was combined with survival matrix
- set fertility subdiagonal to 0
 - Fmatrix[2,1] <- 0
Fmatrix[3,2] <- 0
Fmatrix[4,3] <- 0
Fmatrix[5,4] <- 0
Fmatrix[6,5] <- 0
Fmatrix[7,6] <- 0
Fmatrix[8,7] <- 0
Fmatrix[9,8] <- 0
Fmatrix[10,9] <- 0
Fmatrix[11,10] <- 0
Fmatrix[12,11] <- 0

249268 (Black rhinoceros)

- Removed extra two rows and columns at the end (removed included male stages)
 - Umatrix <- Umatrix[-c(5:6),][-c(5:6)]
 - Fmatrix <- Fmatrix[-c(5:6),][-c(5:6)]

249270, 249271 (Dugong)

- Removed five rows and columns at the end (removed included male stages)
 - Umatrix <- Umatrix[-c(12:16),][-c(12:16)]
 - Fmatrix <- Fmatrix[-c(12:16),][-c(12:16)]

249273 (Asian elephant)

- Removed second half of rows and columns (removed males)
 - Umatrix <- Umatrix[-c(14:26),][-c(14:26)]
 - Fmatrix <- Fmatrix[-c(14:26),][-c(14:26)]

249285 (Northern right whale; North Atlantic right whale)

- Removed last three rows and columns (removed included males)
 - Umatrix <- Umatrix[-c(5:7),][,-c(5:7)]
 - Fmatrix <- Fmatrix[-c(5:7),][,-c(5:7)]

249384 (Humboldt's wooly monkey)

- Removed second half of rows and columns (removed males)
 - Umatrix <- Umatrix[-c(5:8),][,-c(5:8)]
 - Fmatrix <- Fmatrix[-c(5:8),][,-c(5:8)]

249387 - 249390 (Ocelot)

- Removed second half of rows and columns (removed males)
 - Umatrix <- Umatrix[-c(5:8),][,-c(5:8)]
 - Fmatrix <- Fmatrix[-c(5:8),][,-c(5:8)]

249399, 249400 (European hare)

- Removed second half of rows and columns (removed males)
 - Umatrix <- Umatrix[-c(4:6),][,-c(4:6)]
 - Fmatrix <- Fmatrix[-c(4:6),][,-c(4:6)]

249402 (African elephant)

- Removed second half of rows and columns (removed males)
 - Umatrix <- Umatrix[-c(14:26),][,-c(14:26)]
 - Fmatrix <- Fmatrix[-c(14:26),][,-c(14:26)]

249525 - 249576 (Killer whale)

- Removed last two rows and columns (removed included males)
 - Umatrix <- Umatrix[-c(6:7),][,-c(6:7)]
 - Fmatrix <- Fmatrix[-(6:7), -(6:7)]

249598 - 249604 (Soay sheep)

- Removed second half of rows and columns (removed males)
 - Umatrix <- Umatrix[-c(4:6),][,-c(4:6)]
 - Fmatrix <- Fmatrix[-c(4:6),][,-c(4:6)]

249728 - 249731 (Koala)

- Removed second half of rows and columns (removed males)
 - Umatrix <- Umatrix[-c(5:8),][,-c(5:8)]
 - Fmatrix <- Fmatrix[-c(5:8),][,-c(5:8)]

249755 (Thomas's langur)

- Removed last 7 rows and columns (removed included males)
 - Umatrix <- Umatrix[-c(14:20),][,-c(14:20)]
 - Fmatrix <- Fmatrix[-c(14:20),][,-c(14:20)]

249795 (Cougar)

- Removed last 4 rows and columns (removed included males)
 - Umatrix <- Umatrix[-c(7:10),][,-c(7:10)]
 - Fmatrix <- Fmatrix[-c(7:10),][,-c(7:10)]

249851 (Belding's ground squirrel)

- Removed last 6 rows and columns (removed included males)
 - Umatrix <- Umatrix[-c(11:16),][,-c(11:16)]
 - Fmatrix <- Fmatrix[-c(11:16),][,-c(11:16)]

249879 (American black bear)

- Removed last 7 rows and columns (removed included males)
 - Umatrix <- Umatrix[-c(6:9),][,-c(6:9)]
 - Fmatrix <- Fmatrix[-c(6:9),][,-c(6:9)]

249897, 249898 (Brown bear)

- Removed last 5 rows and columns (removed included males)
 - Umatrix <- Umatrix[-c(6:10),][,-c(6:10)]
 - Fmatrix <- Fmatrix[-c(6:10),][,-c(6:10)]

250038 - 250040 (Painted turtle) 1212 1214

- Removed second half of rows and columns (removed males)
 - Umatrix <- Umatrix[-c(11:20),][,-c(11:20)]
 - Fmatrix <- Fmatrix[-c(11:20),][,-c(11:20)]