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Index: R/CalcFRLSoftwoodPlantations.R
===================================================================
--- R/CalcFRLSoftwoodPlantations.R  (revision 2150)
+++ R/CalcFRLSoftwoodPlantations.R  (revision 2292)
@@ -53,20 +53,32 @@
   uci_ec_sw_aae <- quantile(respcem * FRLParams$etacc, probs = FRLParams$quci) # Upper CI limit
   v_ec_sw_aae <- respcem * FRLParams$etacc # MC estimates

-  ## TODO: FIX -  change model area stocked to use survey data in table - MGG
-  # Area stocked end of 2006 in FPL's lease area
+  # 3 Sep 2021 - Data provided by Carly Green from Fiji Pine
+  netStockedArea <- data.frame(
+    year = c(2006:2016),
+    area = c(
+      33071,
+      33872,
+      33509,
+      32336,
+      32322,
+      31334,
+      30897,
+      30601,
+      31117,
+      29527,
+      23960
+    ))
+
+  netStockedArea$c_t  <- FRLParams$maicp * netStockedArea$area
+  print(mean(netStockedArea$c_t))
+
+
   A2006 <- 49503
-
-  # Estimate of the areas harvested [ha] (data provided by FPL could not be used; i.e.,
-  # for 2012 the area harvested was zero, the reported volume extracted 158214 m3).
   sw$area_harvested_ha <- sw$carbon_extracted_t / (FRLParams$maicp * FRLParams$cuttingc)
-
-  # Areas planted
-  sw$area_planted_ha <- sw_hvol_parea[, 3]
-
-  # Area stocked in 2005
+  sw$area_planted_ha <- sw_hvol_parea[,3]
   A2005 <- A2006 + sw$area_harvested_ha[1] - sw$area_planted_ha[1]
-
+
   # Area that was neither planted nor harvested during the Reference Period; they just
   # growth...
   atp <- A2005 - sum(sw$area_harvested_ha)
@@ -85,9 +97,11 @@
```

```
50      # Uncertainty analysis (removals in Softwood Plantations)
51      resmcrp <- vector() # Vector that collects the results
52
53    + resmcrpNew <- vector() # Vector that collects the results
54      # Run simulation                                                  ↵
    ..........................................................................
55      for (i in 1:FRLParams$runs) { # i <- 1
56        swi <- sw # Create a copy of 'sw'
57    +   netStockedAreai <- netStockedArea
58        # Random realization of MAI AGB (25% error)
59        maicpi <- rtriangle(1,
60          theta = FRLParams$maicp,
61    @@ -111,6 +125,11 @@
62        swi$cppt <- swi$area_planted_ha * FRLParams$deltaT * maicpi
63        # Total average annual C accumulation
64        resmcrp[i] <- mean(swi$cppt) + ctpi + cthpi
65    +
66    +   # Error in area is not included
67    +   netStockedAreai$c_t  <- maicpi * netStockedArea$area
68    +
69    +   resmcrpNew[i] <- mean(netStockedAreai$c_t)
70      }
71
72      # Average annual removals from Softwood Plantations               ↵
    ..................................
73    @@ -118,7 +137,27 @@
74      lci_ec_sw_aar <- quantile(resmcrp * FRLParams$etacc, probs =      ↵
    FRLParams$qlci) # Lower CI limit
75      uci_ec_sw_aar <- quantile(resmcrp * FRLParams$etacc, probs =      ↵
    FRLParams$quci) # Upper CI limit
76      v_ec_sw_aar <- resmcrp * FRLParams$etacc # MC estimate
77    +
78    + ec_sw_aarNew <- mean(netStockedArea$c_t) * FRLParams$etacc # Estimate
79    + lci_ec_sw_aarNew <- quantile(resmcrpNew * FRLParams$etacc, probs =  ↵
    FRLParams$qlci) # Lower CI limit
80    + uci_ec_sw_aarNew <- quantile(resmcrpNew * FRLParams$etacc, probs =  ↵
    FRLParams$quci) # Upper CI limit
81    + v_ec_sw_aarNew <- resmcrpNew * FRLParams$etacc # MC estimate
82
83    + print(c(
84    +   ec_sw_aar,
85    +   lci_ec_sw_aar,
86    +   uci_ec_sw_aar,
87    +   length(v_ec_sw_aar)
88    + ))
89    +
90    +
91    + print(c(
92    +   ec_sw_aarNew,
93    +   lci_ec_sw_aarNew,
94    +   uci_ec_sw_aarNew,
95    +   length(v_ec_sw_aarNew)
96    + ))
97    +
98      # Net emissions Softwood Plantations
```

```
99      lciv_ec_sw_aane <- quantile(v_ec_sw_aae -   # Emissions Softwood
100                                 v_ec_sw_aar,    # Removals Softwood
101   Index: DESCRIPTION
102   ===================================================================
103   --- DESCRIPTION (revision 2150)
104   +++ DESCRIPTION (revision 2292)
105   @@ -1,6 +1,6 @@
106    Package: FijiNFMSCalculations
107    Title: Fiji NFMS Calculations
108   -Version: 0.0.0.9000
109   +Version: 0.0.0.9001
110    Authors@R:
111        person(given = "Michael",
112               family = "Green",
113
```