```
diff --git a/reports/Fiji ER Estimate AccuracyAssessment.html
                                                                                 ₽
     b/reports/Fiji_ER_Estimate_AccuracyAssessment.html
 2
     index f25ee6c..647fbb0 100644
     --- a/reports/Fiji ER Estimate AccuracyAssessment.html
 4
     +++ b/reports/Fiji_ER_Estimate_AccuracyAssessment.html
 5
     @@ -566,7 +566,7 @@ pre code {
 6
7
8
     <h1 class="title toc-ignore">Mapped Areas Accuracy Assessment Report</h1>
     -<h4 class="date">15 December, 2023</h4>
9
10
     +<h4 class="date">06 February, 2024</h4>
11
12
     </div>
13
14
     diff --git a/reports/Fiji_ER_Estimate_Sensitivity.html
                                                                                 ₽
     b/reports/Fiji ER Estimate Sensitivity.html
15
     index 13db422..5d9fad8 100644
     --- a/reports/Fiji_ER_Estimate_Sensitivity.html
16
     +++ b/reports/Fiji_ER_Estimate_Sensitivity.html
17
18
     @@ -566,7 +566,7 @@ pre code {
19
20
21
      <h1 class="title toc-ignore">Monitoring Report Tables Section 5.3</h1>
22
     -<h4 class="date">15 December, 2023</h4>
23
     +<h4 class="date">06 February, 2024</h4>
24
25
     </div>
26
     diff --git a/reports/Fiji_ER_Estimate_UC.html
27
                                                                                 ₽
     b/reports/Fiji ER Estimate UC.html
28
     index dc5d67d..badb8c4 100644
     --- a/reports/Fiji ER Estimate UC.html
29
    +++ b/reports/Fiji_ER_Estimate_UC.html
30
31
    @@ -566,7 +566,7 @@ pre code {
32
33
34
     <h1 class="title toc-ignore">Monitoring Report Tables 5.2.2, 7.2, and
                                                                                 ą
     8</h1>
     -<h4 class="date">15 December, 2023</h4>
35
36
     +<h4 class="date">06 February, 2024</h4>
37
38
     </div>
39
     diff --git a/reports/Fiji ER Estimate Values.html
                                                                                 ₽
     b/reports/Fiji_ER_Estimate_Values.html
     index f98c643..2cae21a 100644
41
     --- a/reports/Fiji ER Estimate Values.html
42
43
     +++ b/reports/Fiji ER Estimate Values.html
44
     @@ -566,7 +566,7 @@ pre code {
45
46
47
      <h1 class="title toc-ignore">Monitoring Report Tables Section 4</h1>
48
     -<h4 class="date">15 December, 2023</h4>
     +<h4 class="date">06 February, 2024</h4>
49
50
```

```
51
      </div>
52
53
     diff --git a/reports/Fiji ER MonitoringReportExtraTables-2019.Rmd
                                                                                 ₽
     b/reports/Fiji ER MonitoringReportExtraTables-2019.Rmd
54
     index cd60102..1ccaca1 100644
     --- a/reports/Fiji_ER_MonitoringReportExtraTables-2019.Rmd
55
     +++ b/reports/Fiji_ER_MonitoringReportExtraTables-2019.Rmd
56
57
     @@ -216,7 +216,7 @@ ConvBiomassToCO2e(MonitoredValues$year1$NFDegArea *
                                                                                 ₽
     EFNFDeg * (1 + RootToShootTr
      #### Monitoring Period, Year 2019, Forest Degradation from softwood fire
58
59
         {r echo = FALSE, prompt = FALSE}
60
      # Estimate AGB
61
     -AGB <- MonitoredValues$year1$FDegBurnData$age_yrs * (MAIBsw / (1 +
                                                                                 ₽
     RootToShootDryLandSmall))
62
     +AGB <- MonitoredValues$year1$FDegBurnData$age_yrs * (MAIBsw * (1 -
                                                                                 ₽
     RootToShootDryLandSmall))
63
     # Estimate BGB
      BGB <- MonitoredValues$year1$FDegBurnData$age_yrs * (MAIBsw *
64
                                                                                 ₽
     RootToShootDryLandSmall)
65
66
     @@ -234,40 +234,44 @@ GWP_{N_20} &= `r GWPN20` \\
                 &= `r EFCO2` \\
67
      EF_{CO_2}
                  &= `r EFCH4` \\
      EF {CH 4}
68
                 &= `r EFN20` \\
69
      EF_{N_20}
     -AGB_{i} &= AD_{FDegBurnData,2019,age,i} \times \frac{MAIB_{sw}}{1 +
70
                                                                                 ₽
     RootToShootRatio {dll}} \\
          &= \{`r MonitoredValues$year1$FDegBurnData$age_yrs`\} \times
71
                                                                                 ₽
     \frac{`r MAIBsw`}{1 + `r RootToShootDryLandSmall`} \\
72
     +AGB_{i} &= AD_{FDegBurnData,2019,age,i} \times MAIB_{sw} \times (1 -
                                                                                 ₽
     RootToShootRatio {dll}) \\
73
          &= \{`r MonitoredValues$year1$FDegBurnData$age_yrs`\} \times `r
                                                                                 ą
     MAIBsw` \times (1 - `r RootToShootDryLandSmall`) \\
          &= \{`r MonitoredValues$year1$FDegBurnData$age_yrs * MAIBsw * (1 -
74
                                                                                 4
     RootToShootDryLandSmall)`\} \\
      BGB_{i} &= AD_{FDegBurnData,2019,age,i} \times MAIB_{sw} \times
75
                                                                                 ₽
     RootToShootRatio_{dll} \\
76
          &= \{`r MonitoredValues$year1$FDegBurnData$age yrs`\} \times `r
                                                                                 Z
     MAIBsw` \times `r RootToShootDryLandSmall`\\
          &= \{`r MonitoredValues$year1$FDegBurnData$age_yrs * MAIBsw *
77
                                                                                 4
     RootToShootDryLandSmall`\} \\
78
      EmCO_2AGB_{i} &= AD_{FDegBurnData,2019,area,i} \times AGB_{i} \times
                                                                                 ą
     CombustFactor \times GWP_{CO_2} \times EF_{CO_2} \times 0.001 \
79
                   &= \{`r
                                                                                 4
     formatDecimal(MonitoredValues$year1$FDegBurnData$area ha)`\} \\
80
                   & \times `r formatDecimal(AGB)` \\
                   & \times \{`r formatDecimal(AGB)`\} \\
81
82
                   & \times `r formatDecimal(CombustFactor)`
83
                      \times `r GWPCO2` \times `r EFCO2` \times `r 0.001` \\
      \sum EmCO_2AGB_{i} &= `r sum(MonitoredValues$year1$FDegBurnData$area_ha
84
                                                                                 ₽
     * AGB * CombustFactor * GWPCO2 * EFCO2 * 0.001)`\\
     -EmCO 2BGB {i} &= AD {FDegBurnData, 2019, area, i} \times BGB {i} \times
85
                                                                                 ₽
     CombustFactor \times GWP {CO 2} \times EF {CO 2} \times 0.001 \\
86
     +EmCO_2BGB_{i} &= AD_{FDegBurnData,2019,area,i} \times BGB_{i} \times
                                                                                 ₽
     0.47 \times \frac{44}{12} \\
87
                   &= \{`r
                                                                                 ₽
```

```
formatDecimal(MonitoredValues$year1$FDegBurnData$area ha)`\} \\
 88
                   & \times `r formatDecimal(BGB)` \\
 89
                   & \times `r formatDecimal(CombustFactor)`
 90
                       \times `r GWPCO2` \times `r EFCO2` \times `r 0.001` \\
 91
      -\sum EmCO_2BGB_{i} &= `r sum(MonitoredValues$year1$FDegBurnData$area_ha
       BGB * CombustFactor * GWPCO2 * EFCO2 * 0.001) \\
 92
                   & \times \{`r formatDecimal(BGB)`\} \\
                    & \times 0.47 \times \frac{44}{12} \\
 93
 94
      +\sum EmCO_2BGB_{i} &= `r
                                                                                 ₽
      ConvBiomassToCO2e(sum(MonitoredValues$year1$FDegBurnData$area ha * BGB))`\\
 95
                      &= AD_{FDegBurnData,2019,area,i} \times AGB_{i} \times
       {EmCH_{4}}_i
                                                                                 ₽
      CombustFactor \times GWP_{CH_4} \times EF_{CH_4} \times 0.001 \\
                    &= \{`r
 96
                                                                                 ₽
      formatDecimal(MonitoredValues$year1$FDegBurnData$area_ha)`\} \\
 97
                   & \times `r formatDecimal(AGB)` \\
 98
                   & \times \{`r formatDecimal(AGB)`\} \\
 99
                   & \times `r formatDecimal(CombustFactor)`
                       \times `r GWPCH4` \times `r EFCH4` \times `r 0.001` \\
100
       \sum {EmCH {4}} i &= `r sum(MonitoredValues$year1$FDegBurnData$area ha *
101
                                                                                 Z
      AGB * CombustFactor * GWPCH4 * EFCH4 * 0.001)` \\
102
                      &= AD_{FDegBurnData,2019,area,i} \times AGB_{i} \times
                                                                                 4
      CombustFactor \times GWP_{N_20} \times EF_{N_20} \times 0.001 \\
103
                    &= \{`r
                                                                                 ą
      formatDecimal(MonitoredValues$year1$FDegBurnData$area ha)`\} \\
                   & \times `r formatDecimal(AGB)` \\
104
105
                   & \times \{`r formatDecimal(AGB)`\} \\
106
                   & \times `r formatDecimal(CombustFactor)`
                       \times `r GWPN20` \times `r EFN20` \times `r 0.001` \\
107
108
       \sum {EmN {2}0} i &= `r sum(MonitoredValues$year1$FDegBurnData$area ha *
                                                                                 ₽
      AGB * CombustFactor * GWPN20 * EFN20 * 0.001)` \\
       109
                                                                                 ą
      \{EmCH \{4\}\} i + \sum \{EmN \{2\}0\} i \setminus
                   &= `r sum(MonitoredValues$year1$FDegBurnData$area ha * AGB
110
                                                                                 4
      * CombustFactor * GWPCO2 * EFCO2 * 0.001)`
                     + `r sum(MonitoredValues$year1$FDegBurnData$area ha * BGB
111
                                                                                ą
       CombustFactor * GWPCO2 * EFCO2 * 0.001)`
112
                                                                                 ą
      sum(ConvBiomassToCO2e(MonitoredValues$year1$FDegBurnData$area ha * BGB))`
                     + `r sum(MonitoredValues$year1$FDegBurnData$area ha * AGB
113
                                                                                 ₽
      * CombustFactor * GWPCH4 * EFCH4 * 0.001)`
114
                      + `r sum(MonitoredValues$year1$FDegBurnData$area ha * AGB
                                                                                 ą
      * CombustFactor * GWPN20 * EFN20 * 0.001)` \\
                     &= `r sum(MonitoredValues$year1$FDegBurnData$area ha *
                                                                                 ₽
115
      AGB * CombustFactor * GWPCO2 * EFCO2 * 0.001) +
                                                                                 ₽
      sum(MonitoredValues$year1$FDegBurnData$area ha * BGB * CombustFactor *
                                                                                 ⋥
      GWPCO2 * EFCO2 * 0.001) + sum(MonitoredValues$year1$FDegBurnData$area ha
                                                                                 ₽
      * AGB * CombustFactor * GWPCH4 * EFCH4 * 0.001) +
                                                                                 ą
      sum(MonitoredValues$year1$FDegBurnData$area ha * AGB * CombustFactor *
                                                                                 ą
      GWPN20 * EFN20 * 0.001)` \\
                     &= `r sum(MonitoredValues$year1$FDegBurnData$area_ha *
116
                                                                                 ą
      AGB * CombustFactor * GWPCO2 * EFCO2 * 0.001) +
117
                                                                                 4
      sum(ConvBiomassToCO2e(MonitoredValues$year1$FDegBurnData$area ha * BGB)) +
                       sum(MonitoredValues$year1$FDegBurnData$area ha * AGB *
118
      CombustFactor * GWPCH4 * EFCH4 * 0.001) +
```

```
119
                       sum(MonitoredValues$year1$FDegBurnData$area ha * AGB *
      CombustFactor * GWPN2O * EFN2O * 0.001)` \\
120
       \end{align}
121
       $$
122
123
      @@ -289,13 +293,13 @@ EFCH4
124
       EFN20
125
126
       # Estimate AGB
      -AGB <- MonitoredValues$year1$FDegBurnData$age yrs * (MAIBsw / (1 +
127
                                                                                   ₽
      RootToShootDryLandSmall))
      +AGB <- MonitoredValues$year1$FDegBurnData$age yrs * (MAIBsw * (1 -
128
                                                                                   ⋥
      RootToShootDryLandSmall))
129
       # Estimate BGB
130
       BGB <- MonitoredValues$year1$FDegBurnData$age_yrs * (MAIBsw *
                                                                                   ₽
      RootToShootDryLandSmall)
       # CO2 ABG emissions
131
132
       EmCO2AGB <- MonitoredValues$year1$FDegBurnData$area ha * AGB *</pre>
                                                                                   ₽
      CombustFactor * GWPCO2 * EFCO2 * 0.001
133
       # CO2 BGB emissions
134
      -EmCO2BGB <- MonitoredValues$year1$FDegBurnData$area_ha * BGB *</pre>
                                                                                   ₽
      CombustFactor * GWPCO2 * EFCO2 * 0.001
135
      +EmCO2BGB <- ConvBiomassToCO2e(MonitoredValues$year1$FDegBurnData$area ha
      * BGB)
       # CH4 ABG emissions
136
       EmCH4 <- MonitoredValues$year1$FDegBurnData$area ha * AGB *</pre>
137
                                                                                   ₽
      CombustFactor * GWPCH4 * EFCH4 * 0.001
138
       # N 20 (above-ground biomass)
      @@ -303,17 +307,25 @@ EmN2O <- MonitoredValues$year1$FDegBurnData$area_ha
139
                                                                                   ₽
      * AGB * CombustFactor * GWPN
140
       # sum emissions for each gas and put into dataframe
       sum(sum(EmCO2AGB), sum(EmCO2BGB), sum(EmCH4), sum(EmN2O))
141
142
143
144
145
       #### Monitoring Period, Year 2019, Total Forest Degradation
146
147
       $$
       \begin{align}
148
149
       ER_{FDeg,2019} &= `r ConvCarbonToCO2e(MonitoredValues$year1$FDegFellVol
                                                                                   ₽
      * TEF)`
      - + (`r ConvCarbonToCO2e(MonitoredValues$year1$FDegFellArea$area_ha *
150
                                                                                   Z
      MonitoredValues$year1$FDegFellArea$age_yrs * MAICFell) * -1`)
      + + (`r sum(ConvCarbonToCO2e(MonitoredValues$year1$FDegFellArea$area ha
151
                                                                                   Z
      * MonitoredValues$year1$FDegFellArea$age yrs * MAICFell) * -1)`)
         + `r ConvBiomassToCO2e(MonitoredValues$year1$NFDegArea * EFNFDeg * (1
152
                                                                                   Z
      + RootToShootTropRain))`
153
      - + `r sum(MonitoredValues$year1$FDegBurnData$area ha * AGB *
                                                                                   ą
      CombustFactor * GWPCO2 * EFCO2 * 0.001) +
                                                                                   ₽
      sum(MonitoredValues$year1$FDegBurnData$area_ha * BGB * CombustFactor *
                                                                                   ₽
      GWPCO2 * EFCO2 * 0.001) + sum(MonitoredValues$year1$FDegBurnData$area ha
                                                                                   ą
      * AGB * CombustFactor * GWPCH4 * EFCH4 * 0.001) +
                                                                                   Z
      sum(MonitoredValues$year1$FDegBurnData$area ha * AGB * CombustFactor *
                                                                                   ₽
      GWPN20 * EFN20 * 0.001)` \\
154
      - &= `r formatDecimal(ConvCarbonToCO2e(MonitoredValues$year1$FDegFellVol 3
```

```
* TEF) + ( ConvCarbonToCO2e(MonitoredValues$year1$FDegFellArea$area ha *
      MonitoredValues$year1$FDegFellArea$age_yrs * MAICFell) * -1) +
                                                                                  ₽
      ConvBiomassToCO2e(MonitoredValues$year1$NFDegArea * EFNFDeg * (1 +
                                                                                  ₽
      RootToShootTropRain)) + sum(MonitoredValues$year1$FDegBurnData$area ha *
                                                                                  ₽
      AGB * CombustFactor * GWPCO2 * EFCO2 * 0.001) +
                                                                                  ₽
      sum(MonitoredValues$year1$FDegBurnData$area ha * BGB * CombustFactor *
                                                                                  ₽
      GWPCO2 * EFCO2 * 0.001) + sum(MonitoredValues$year1$FDegBurnData$area_ha
                                                                                  4
      * AGB * CombustFactor * GWPCH4 * EFCH4 * 0.001) +
                                                                                  4
      sum(MonitoredValues$year1$FDegBurnData$area ha * AGB * CombustFactor *
                                                                                  ą
      GWPN20 * EFN20 * 0.001))`
      + + `r sum(MonitoredValues$year1$FDegBurnData$area ha * AGB *
155
                                                                                  4
      CombustFactor * GWPCO2 * EFCO2 * 0.001) +
156
         sum(ConvBiomassToCO2e(MonitoredValues$year1$FDegBurnData$area ha *
                                                                                  ₽
      BGB)) +
      + sum(MonitoredValues$year1$FDegBurnData$area_ha * AGB * CombustFactor *
157
      GWPCH4 * EFCH4 * 0.001) +
      + sum(MonitoredValues$year1$FDegBurnData$area ha * AGB * CombustFactor *
158
      GWPN20 * EFN20 * 0.001)` \\
      + &= `r formatDecimal(ConvCarbonToCO2e(MonitoredValues$year1$FDegFellVol
159
      * TEF) +
      + sum(ConvCarbonToCO2e(MonitoredValues$year1$FDegFellArea$area_ha *
160
                                                                                  Z
      MonitoredValues$year1$FDegFellArea$age yrs * MAICFell) * -1) +
         sum(ConvBiomassToCO2e(MonitoredValues$year1$NFDegArea * EFNFDeg * (1 +
161
      RootToShootTropRain))) +
         sum(MonitoredValues$year1$FDegBurnData$area ha * AGB * CombustFactor *
162
                                                                                 Z
      GWPCO2 * EFCO2 * 0.001) +
      + sum(ConvBiomassToCO2e(MonitoredValues$year1$FDegBurnData$area ha *
163
                                                                                  Z
      BGB)) +
         sum(MonitoredValues$year1$FDegBurnData$area_ha * AGB * CombustFactor *
164
      GWPCH4 * EFCH4 * 0.001) +
165
         sum(MonitoredValues$year1$FDegBurnData$area ha * AGB * CombustFactor *
      GWPN20 * EFN20 * 0.001))`
166
       \end{align}
167
       $$
168
      @@ -321,10 +333,10 @@ $$
169
         `{r echo = TRUE, prompt = FALSE}
170
171
172
       ER FDEG 2019 <- ConvCarbonToCO2e(MonitoredValues$year1$FDegFellVol * TEF) +</pre>
      -(ConvCarbonToCO2e(MonitoredValues$year1$FDegFellArea$area ha *
173
                                                                                  4
      MonitoredValues$year1$FDegFellArea$age_yrs * MAICFell) * -1) +
174
      +sum(ConvCarbonToCO2e(MonitoredValues$year1$FDegFellArea$area_ha *
                                                                                  ą
      MonitoredValues$year1$FDegFellArea$age_yrs * MAICFell) * -1) +
       ConvBiomassToCO2e(MonitoredValues$year1$NFDegArea * EFNFDeg * (1 +
175
                                                                                  ą
      RootToShootTropRain)) +
176
       sum(MonitoredValues$year1$FDegBurnData$area ha * AGB * CombustFactor *
                                                                                  Z
      GWPCO2 * EFCO2 * 0.001) +
      -sum(MonitoredValues$year1$FDegBurnData$area_ha * BGB * CombustFactor *
177
                                                                                  ₽
      GWPCO2 * EFCO2 * 0.001) +
      +sum(ConvBiomassToCO2e(MonitoredValues$year1$FDegBurnData$area ha * BGB)) +
178
       sum(MonitoredValues$year1$FDegBurnData$area ha * AGB * CombustFactor *
179
                                                                                  7
      GWPCH4 * EFCH4 * 0.001) +
180
       sum(MonitoredValues$year1$FDegBurnData$area ha * AGB * CombustFactor *
                                                                                  Z
      GWPN20 * EFN20 * 0.001)
181
       ER FDEG 2019
```

```
182
     diff --git a/reports/Fiji ER MonitoringReportExtraTables-2019.html
                                                                             ₽
     b/reports/Fiji_ER_MonitoringReportExtraTables-2019.html
     index 99e4e9a..0b5ce7b 100644
183
184
     --- a/reports/Fiji ER MonitoringReportExtraTables-2019.html
185
     +++ b/reports/Fiji_ER_MonitoringReportExtraTables-2019.html
     @@ -566,7 +566,7 @@ pre code {
186
187
188
189
      <h1 class="title toc-ignore">Monitoring Report Extra Tables</h1>
      -<h4 class="date">15 December, 2023</h4>
190
191
     +<h4 class="date">06 February, 2024</h4>
192
193
      </div>
194
195
     @@ -859,40 +859,41 @@ GWP_{N_20} & = 265 \\
196
      EF {CO 2}
                  &= 1580 \\
      EF_{CH_4}
197
                  &= 6.8 \\
198
      EF {N 20}
                  &= 0.2 \\
      -AGB {i} &= AD {FDegBurnData,2019,age,i} \times \frac{MAIB {sw}}{1 + \bar{A}}
199
     RootToShootRatio_{dll}} \\
200
          & = \{2, 3, 4, 2, 2, 2, 5, 2, 2, 3\} \times \{10\}{1 + 0.2} 
201
     +AGB_{i} &= AD_{FDegBurnData,2019,age,i} \times MAIB_{sw} \times (1 -
     RootToShootRatio {dll}) \\
202
          amp := \{2, 3, 4, 2, 2, 2, 5, 2, 2, 3\} \times (1 -
                                                                              ◪
     0.2) \\
203
          & = \{16, 24, 32, 16, 16, 16, 40, 16, 16, 16, 24\}
204
      BGB_{i} &= AD_{FDegBurnData,2019,age,i} \times MAIB_{sw} \times
                                                                              ₽
     RootToShootRatio {dll} \\
205
          &= \{2, 3, 4, 2, 2, 2, 5, 2, 2, 2, 3\} \times 10 \times 0.2\\
206
          & = \{4, 6, 8, 4, 4, 4, 10, 4, 4, 4, 6\}
207
      EmCO_2AGB_{i} & D_{FDegBurnData,2019,area,i} \times AGB_{i} \times
                                                                             ₽
     CombustFactor \times GWP_{CO_2} \times EF_{CO_2} \times 0.001 \\
208
                   &= \{10.00, 3.00, 3.00, 2.00, 49.00, 0.60, 11.30,
                                                                              ₽
     57.64, 17.31, 4.71, 20.42\} \\
209
                   & \times 16.67, 25.00, 33.33, 16.67, 16.67, 16.67,
                                                                              4
     41.67, 16.67, 16.67, 16.67, 25.00 \\
                   & \times \{16.00, 24.00, 32.00, 16.00, 16.00, 16.00.
210
                                                                              ⋥
     40.00, 16.00, 16.00, 16.00, 24.00\} \\
211
                   & \times 0.46
212
                      \times 1 \times 1580 \times 0.001 \\
213
     -\sum EmCO 2AGB {i} & amp; = 2551.54042\\
     -EmCO_2BGB_{i} &= AD_{FDegBurnData,2019,area,i} \times BGB_{i} \times
214
     CombustFactor \times GWP_{CO_2} \times EF_{CO_2} \times 0.001 \\
     +\sum EmCO 2AGB {i} &= 2449.4788032\\
215
      +EmCO_2BGB_{i} &= AD_{FDegBurnData,2019,area,i} \times BGB_{i} \times
216
     0.47 \times \frac{44}{12} \\
                   & = \{10.00, 3.00, 3.00, 2.00, 49.00, 0.60, 11.30,
217
                                                                              ₽
     57.64, 17.31, 4.71, 20.42\} \\
                   & \times 4.00, 6.00, 8.00, 4.00, 4.00, 4.00,
218
                                                                              ₽
                   4.00, 4.00, 6.00 \\
     10.00, 4.00,
219
                   & \times 0.46
220
                      \times 1 \times 1580 \times 0.001 \\
221
      -\sum EmCO 2BGB {i} &= 612.3697008\\
                   & \times \{ 4.00, 6.00, 8.00, 4.00, 4.00,
222
                                                                              ₽
     10.00, 4.00, 4.00, 4.00, 6.00\} \\
```

```
223
                        \times 0.47 \times \frac{44}{12} \\
224
     +\sum EmCO_2BGB_{i} &= 1452.00484\\
                     &= AD {FDegBurnData,2019,area,i} \times AGB {i}
225
      {EmCH {4}} i
                                                                             ₽
     \times CombustFactor \times GWP_{CH_4} \times EF_{CH_4} \times 0.001 \\
226
                  &= \{10.00, 3.00, 3.00, 2.00, 49.00, 0.60, 11.30,
                                                                             4
                   4.71, 20.42\} \\
     57.64, 17.31,
                  & \times 16.67, 25.00, 33.33, 16.67, 16.67, 16.67,
227
                                                                             ₽
     41.67, 16.67, 16.67, 16.67, 25.00 \\
228
                  & \times \{16.00, 24.00, 32.00, 16.00, 16.00, 16.00,
                                                                             ⋥
     40.00, 16.00, 16.00, 16.00, 24.00\} \\
229
                  & \times 0.46
                     \times 28 \times 6.8 \times 0.001 \\
230
231
     -\sum {EmCH {4}} i &= 307.4767696 \\
232
     +\sum {EmCH_{4}}_i &= 295.1776988 \\
                     &= AD_{FDegBurnData,2019,area,i} \times AGB_{i}
233
      \{EmN_{2}0\}_{i}
                                                                             ₽
     \times CombustFactor \times GWP_{N_20} \times EF_{N_20} \times 0.001 \\
                  & = \{10.00, 3.00, 3.00, 2.00, 49.00, 0.60, 11.30, 
234
                                                                             Z
     57.64, 17.31, 4.71, 20.42\} \\
                         \times 16.67, 25.00, 33.33, 16.67, 16.67, 16.67,
235
                   &
                                                                             ą
     41.67, 16.67, 16.67, 16.67, 25.00 \\
                   & \times \{16.00, 24.00, 32.00, 16.00, 16.00, 16.00,
236
                                                                             ₽
     40.00, 16.00, 16.00, 16.00, 24.00\} \\
                  & \times 0.46
237
238
                     \times 265 \times 0.2 \times 0.001 \\
     -\sum {EmN_{2}0}_i &= 85.589647 \\
239
240
     +\sum {EmN {2}0} i &= 82.1660611 \\
241
      ER_{FSW,2019}&= \sum EmCO_2AGB_{i} + \sum EmCO_2BGB_{i} + \sum EmCO_2BGB_{i}
                                                                             ₽
     \{EmCH_{4}\}_i + \sum_{EmN_{2}0}_i \
242
                  & = 2551.54042
243
                    + 612.3697008
244
                    + 307.4767696
245
                    + 85.589647 \\
246
                    &= 3556.9765374 \\
247
                  &= 2449.4788032
248
                    + 1452.00484
249
                    + 295.1776988
250
                    + 82.1660611 \\
251
                    &= 4278.8274031 \\
252
      \end{align}
253
      \]</span>
      <code>&gt;
254
                                                                             ą
     MonitoredValues$year1$FDegBurnData$age_yrs</code>
255
     @@ -918,20 +919,20 @@ ER_{FSW,2019}&= \sum EmCO_2AGB_{i} + \sum
                                                                             4
     EmCO \ 2BGB \ \{i\} + \ sum \ \{EmCH \ \{4\}\}
      <code>&gt; EFN2O</code>
256
257
      <code>## [1] 0.2</code>
      <code>&gt; # Estimate AGB
258
259
     -> AGB <- MonitoredValues$year1$FDegBurnData$age_yrs * (MAIBsw / (1   

Z
     + RootToShootDryLandSmall))
     +> AGB <- MonitoredValues$year1$FDegBurnData$age_yrs * (MAIBsw * (1
260
     RootToShootDryLandSmall))
261
      > # Estimate BGB
262
      > BGB <- MonitoredValues$year1$FDegBurnData$age yrs * (MAIBsw *
                                                                             ⋥
     RootToShootDryLandSmall)
      > # CO2 ABG emissions
263
```

```
> EmCO2AGB <- MonitoredValues$year1$FDegBurnData$area ha * AGB *
264
                                                                               ₽
     CombustFactor * GWPCO2 * EFCO2 * 0.001
265
      > # CO2 BGB emissions
      -> EmCO2BGB <- MonitoredValues$year1$FDegBurnData$area ha * BGB *
266
                                                                               ₽
     CombustFactor * GWPCO2 * EFCO2 * 0.001
267
      +> EmCO2BGB <-
                                                                               ą
     ConvBiomassToCO2e(MonitoredValues$year1$FDegBurnData$area ha * BGB)
268
      > # CH4 ABG emissions
269
      > EmCH4 <- MonitoredValues$year1$FDegBurnData$area ha * AGB *
                                                                               ₽
     CombustFactor * GWPCH4 * EFCH4 * 0.001
270
      > # N_20 (above-ground biomass)
271
      > EmN2O <- MonitoredValues$year1$FDegBurnData$area_ha * AGB *
                                                                               ą
     CombustFactor * GWPN20 * EFN20 * 0.001
272
      > # sum emissions for each gas and put into dataframe
      > sum(sum(EmCO2AGB), sum(EmCO2BGB), sum(EmCH4), sum(EmN2O))
273
274
      -<code>## [1] 3556.977</code>
     +<<code>## [1] 4278.827</code>
275
276
      </div>
277
      <div id="monitoring-period-year-2019-total-forest-degradation"</pre>
                                                                               ₽
     class="section level4">
      <h4>Monitoring Period, Year 2019, Total Forest Degradation</h4>
278
279
     00^{-940,19} + 941,19  00^{-940,19} + 941,19  00^{-940,19} + 941,19  00^{-940,19} + 941,19 
                                                                               ₽
     EmCO 2BGB \{i\} + \sum \{EmCH \{4\}\}
280
      ER_{FDeg, 2019} & amp; = 1.0619455\times 10^{5}
281
        + (-2450.25)
282
        + 3.5792828\times 10^{4}
      - + 3556.9765374 \\
283
     - &= 143094.10
284
285
     + + 4278.8274031 \\
286
     + &= 143815.96
287
      \end{align}
288
      \]</span>
289
      <code>ER_FDEG_2019 &lt;-
                                                                               ₽
     ConvCarbonToCO2e(MonitoredValues$year1$FDegFellVol * TEF) +
290
      -(ConvCarbonToCO2e(MonitoredValues$year1$FDegFellArea$area ha *
                                                                               ą
     MonitoredValues$year1$FDegFellArea$age_yrs * MAICFell) * -1) +
291
     +sum(ConvCarbonToCO2e(MonitoredValues$year1$FDegFellArea$area ha *
                                                                               Z
     MonitoredValues$year1$FDegFellArea$age yrs * MAICFell) * -1) +
292
      ConvBiomassToCO2e(MonitoredValues$year1$NFDegArea * EFNFDeg * (1 +
                                                                               ₽
     RootToShootTropRain)) +
293
      sum(MonitoredValues$year1$FDegBurnData$area ha * AGB * CombustFactor *
                                                                               ą
     GWPCO2 * EFCO2 * 0.001) +
     -sum(MonitoredValues$year1$FDegBurnData$area_ha * BGB * CombustFactor *
294
                                                                               Z
     GWPCO2 * EFCO2 * 0.001) +
     +sum(ConvBiomassToCO2e(MonitoredValues$year1$FDegBurnData$area ha * BGB)) +
295
296
      sum(MonitoredValues$year1$FDegBurnData$area ha * AGB * CombustFactor *
                                                                               Z
     GWPCH4 * EFCH4 * 0.001) +
297
      sum(MonitoredValues$year1$FDegBurnData$area ha * AGB * CombustFactor *
                                                                               ₽
     GWPN20 * EFN20 * 0.001)
298
      ER FDEG 2019</code>
299
      -<code>## [1] 143094.1</code>
300
     +<<code>## [1] 143816</code>
301
      </div>
      </div>
302
      <div id="removals-by-enhancments" class="section level3">
303
```

```
304
      @@ -1208,8 +1209,8 @@ ER {Enh,2019} &= 5.1275008\times 10^{5} +
                                                                                 ₽
      (-2967.6123297) \\
305
       <span class="math display">\[
306
       \begin{align}
307
      ER_{2019} & p = ER_{Defor,2019} + ER_{FDeg,2019} + ER_{Enh,2019} \
                & = 6.6331104\times 10^{4} + 1.430941\times 10^{5} +
308
                                                                                 ą
      5.0978247\times 10^{5} \\
309
                & = 7.1920768\times 10^{5}
                & = 6.6331104\times 10^{4} + 1.4381596\times 10^{5} +
                                                                                 ⋥
310
      5.0978247\times 10^{5} \\
                &= 7.1992953\times 10^{5}
311
312
       \end{align}
313
       \]</span>
314
       <code>&gt; ER_2019 &lt;- ER_DEF_2019 + ER_FDEG_2019 +
                                                                                 ₽
      ER Enh 2019
315
      diff --git a/reports/Fiji ER MonitoringReportExtraTables-2020.Rmd
                                                                                 ₽
      b/reports/Fiji ER MonitoringReportExtraTables-2020.Rmd
316
      index f4a3ef6..8117e9e 100644
      --- a/reports/Fiji ER MonitoringReportExtraTables-2020.Rmd
317
318
     +++ b/reports/Fiji_ER_MonitoringReportExtraTables-2020.Rmd
319
     @@ -180,8 +180,7 @@ $$
320
321
       \end{align}
322
       $$
323
324
      -MGG - NOTE check with carly
325
326
       ```{r echo = TRUE, prompt = TRUE}
327
328
 MonitoredValues$year2$FDegFellArea$area ha
329
 @@ -217,7 +216,7 @@ ConvBiomassToCO2e(MonitoredValues$year2$NFDegArea *
 Z
 EFNFDeg * (1 + RootToShootTr
330
 #### Monitoring Period, Year 2020, Forest Degradation from softwood fire
331
       ```{r echo = FALSE, prompt = FALSE}
332
      # Estimate AGB
      -AGB <- MonitoredValues$year2$FDegBurnData$age_yrs * (MAIBsw / (1 +
333
                                                                                 ₽
      RootToShootDryLandSmall))
334
      +AGB <- MonitoredValues$year2$FDegBurnData$age yrs * (MAIBsw * (1 -
                                                                                 ₽
      RootToShootDryLandSmall))
335
      # Estimate BGB
336
      BGB <- MonitoredValues$year2$FDegBurnData$age yrs * (MAIBsw *
                                                                                 ₽
      RootToShootDryLandSmall)
337
     @@ -235,40 +234,44 @@ GWP {N 20} &= `r GWPN20` \\
338
                  &= `r EFCO2` \\
339
      EF {CO 2}
      EF_{CH_4}
                  &= `r EFCH4` \\
340
                  &= `r EFN20` \\
341
      EF {N 20}
342
      -AGB_{i} &= AD_{FDegBurnData,2020,age,i} \times \frac{MAIB_{sw}}{1 +
                                                                                 ₽
      RootToShootRatio_{dll}} \\
343
          &= \{`r MonitoredValues$year2$FDegBurnData$age_yrs`\} \times
                                                                                 ą
      \frac{`r MAIBsw`}{1 + `r RootToShootDryLandSmall`} \\
344
      +AGB {i} &= AD {FDegBurnData,2020,age,i} \times MAIB {sw} \times (1 -
                                                                                 Z
      RootToShootRatio {dll}) \\
          &= \{`r MonitoredValues$year2$FDegBurnData$age yrs`\} \times `r
345
                                                                                 ą
      MAIBsw` \times (1 - `r RootToShootDryLandSmall`) \\
```

```
346
          &= \{`r MonitoredValues$year2$FDegBurnData$age_yrs * MAIBsw * (1 -
                                                                                ₽
      RootToShootDryLandSmall)`\} \\
347
      BGB_{i} &= AD_{FDegBurnData,2020,age,i} \times MAIB_{sw} \times
                                                                                 ₽
      RootToShootRatio {dll} \\
348
          &= \{`r MonitoredValues$year2$FDegBurnData$age_yrs`\} \times `r
                                                                                 ₽
     MAIBsw` \times `r RootToShootDryLandSmall`\\
          &= \{`r MonitoredValues$year2$FDegBurnData$age_yrs * MAIBsw *
349
                                                                                 4
      RootToShootDryLandSmall`\} \\
350
      EmCO_2AGB_{i} &= AD_{FDegBurnData,2020,area,i} \times AGB_{i} \times
                                                                                 ą
      CombustFactor \times GWP_{CO_2} \times EF_{CO_2} \times 0.001 \\
351
                   &= \{`r
                                                                                 ą
      formatDecimal(MonitoredValues$year2$FDegBurnData$area_ha)`\} \\
352
                   & \times `r formatDecimal(AGB)` \\
353
                   & \times \{`r formatDecimal(AGB)`\} \\
354
                     \times `r formatDecimal(CombustFactor)`
355
                      \times `r GWPCO2` \times `r EFCO2` \times `r 0.001` \\
      \sum EmCO 2AGB {i} &= `r sum(MonitoredValues$year2$FDegBurnData$area ha
356
                                                                                 ⋥
      * AGB * CombustFactor * GWPCO2 * EFCO2 * 0.001)`\\
      -EmCO_2BGB_{i} &= AD_{FDegBurnData,2020,area,i} \times BGB_{i} \times
357
                                                                                 ą
      CombustFactor \times GWP_{CO_2} \times EF_{CO_2} \times 0.001 \\
358
      +EmCO_2BGB_{i} &= AD_{FDegBurnData,2020,area,i} \times BGB_{i} \times
                                                                                 4
      0.47 \times \frac{44}{12} \\
359
                   &= \{`r
                                                                                 ą
      formatDecimal(MonitoredValues$year2$FDegBurnData$area ha)`\} \\
360
                   & \times `r formatDecimal(BGB)` \\
361
                     \times `r formatDecimal(CombustFactor)`
362
                      \times `r GWPCO2` \times `r EFCO2` \times `r 0.001` \\
      -\sum EmCO_2BGB_{i} &= `r sum(MonitoredValues$year2$FDegBurnData$area_ha
363
      * BGB * CombustFactor * GWPCO2 * EFCO2 * 0.001)`\\
364
                   & \times \{`r formatDecimal(BGB)`\} \\
                   & \times 0.47 \times \frac{44}{12} \\
365
      +\sum EmCO_2BGB_{i} &= `r
366
                                                                                 ą
      ConvBiomassToCO2e(sum(MonitoredValues$year2$FDegBurnData$area_ha * BGB))`\\
367
                      &= AD_{FDegBurnData,2020,area,i} \times AGB_{i} \times
       \{EmCH_{4}\}_i
                                                                                 ą
      CombustFactor \times GWP_{CH_4} \times EF_{CH_4} \times 0.001 \\
                   &= \{`r
368
                                                                                 ₽
      formatDecimal(MonitoredValues$year2$FDegBurnData$area ha)`\} \\
369
                   & \times `r formatDecimal(AGB)` \\
370
                   & \times \{`r formatDecimal(AGB)`\} \\
371
                     \times `r formatDecimal(CombustFactor)`
                      \times `r GWPCH4` \times `r EFCH4` \times `r 0.001` \\
372
373
       \sum {EmCH_{4}}_i &= `r sum(MonitoredValues$year2$FDegBurnData$area_ha *
                                                                                ₽
     AGB * CombustFactor * GWPCH4 * EFCH4 * 0.001)` \\
                      &= AD {FDegBurnData, 2020, area, i} \times AGB {i} \times
374
       {EmN {2}0} i
                                                                                 ₽
     CombustFactor \times GWP_{N_20} \times EF_{N_20} \times 0.001 \
375
                   &= \{`r
                                                                                 ₽
      formatDecimal(MonitoredValues$year2$FDegBurnData$area_ha)`\} \\
376
                   & \times `r formatDecimal(AGB)` \\
377
                   & \times \{`r formatDecimal(AGB)`\} \\
378
                      \times `r formatDecimal(CombustFactor)`
379
                      \times `r GWPN20` \times `r EFN20` \times `r 0.001` \\
380
       \sum {EmN_{2}O}_i &= `r sum(MonitoredValues$year2$FDegBurnData$area_ha *
                                                                                ⋥
     AGB * CombustFactor * GWPN20 * EFN20 * 0.001)` \\
       381
                                                                                 ą
      \{EmCH_{4}\}_i + \sum_{EmN_{2}0}_i \
```

```
382
                    &= `r sum(MonitoredValues$year2$FDegBurnData$area ha * AGB
                                                                                   ₽
      * CombustFactor * GWPCO2 * EFCO2 * 0.001)`
                      + `r sum(MonitoredValues$year2$FDegBurnData$area ha * BGB
383
                                                                                   Z
        CombustFactor * GWPCO2 * EFCO2 * 0.001)`
384
                                                                                   4
      sum(ConvBiomassToCO2e(MonitoredValues$year2$FDegBurnData$area ha * BGB))`
                      + `r sum(MonitoredValues$year2$FDegBurnData$area_ha * AGB
385
                                                                                   ₽
      * CombustFactor * GWPCH4 * EFCH4 * 0.001)
386
                      + `r sum(MonitoredValues$year2$FDegBurnData$area ha * AGB
                                                                                   ą
      * CombustFactor * GWPN20 * EFN20 * 0.001)` \\
                      &= `r sum(MonitoredValues$year2$FDegBurnData$area ha *
387
                                                                                   ₽
      AGB * CombustFactor * GWPCO2 * EFCO2 * 0.001) +
                                                                                   ą
      sum(MonitoredValues$year2$FDegBurnData$area_ha * BGB * CombustFactor *
                                                                                   4
      GWPCO2 * EFCO2 * 0.001) + sum(MonitoredValues$year2$FDegBurnData$area_ha
                                                                                   ₽
      * AGB * CombustFactor * GWPCH4 * EFCH4 * 0.001) +
                                                                                   4
      sum(MonitoredValues$year2$FDegBurnData$area ha * AGB * CombustFactor *
                                                                                   ₽
      GWPN20 * EFN20 * 0.001)` \\
                      &= `r sum(MonitoredValues$year2$FDegBurnData$area ha *
388
                                                                                   4
      AGB * CombustFactor * GWPCO2 * EFCO2 * 0.001) +
389
                                                                                   ₽
      sum(ConvBiomassToCO2e(MonitoredValues$year2$FDegBurnData$area_ha * BGB)) +
                       sum(MonitoredValues$year2$FDegBurnData$area ha * AGB *
390
                                                                                   ₽
      CombustFactor * GWPCH4 * EFCH4 * 0.001) +
391
                       sum(MonitoredValues$year2$FDegBurnData$area ha * AGB *
                                                                                   ◪
      CombustFactor * GWPN2O * EFN2O * 0.001)` \\
392
       \end{align}
393
       $$
394
395
      @@ -290,13 +293,13 @@ EFCH4
396
       EFN20
397
398
       # Estimate AGB
      -AGB <- MonitoredValues$year2$FDegBurnData$age_yrs * (MAIBsw / (1 +
399
                                                                                   ₽
      RootToShootDryLandSmall))
400
      +AGB <- MonitoredValues$year2$FDegBurnData$age yrs * (MAIBsw * (1 -
                                                                                   4
      RootToShootDryLandSmall))
401
       # Estimate BGB
402
       BGB <- MonitoredValues$year2$FDegBurnData$age yrs * (MAIBsw *
                                                                                   ₽
      RootToShootDryLandSmall)
403
       # CO2 ABG emissions
404
       EmCO2AGB <- MonitoredValues$year2$FDegBurnData$area ha * AGB *</pre>
                                                                                   ą
      CombustFactor * GWPCO2 * EFCO2 * 0.001
405
       # CO2 BGB emissions
      -EmCO2BGB <- MonitoredValues$year2$FDegBurnData$area ha * BGB *
406
                                                                                   ₽
      CombustFactor * GWPCO2 * EFCO2 * 0.001
407
      +EmCO2BGB <- ConvBiomassToCO2e(MonitoredValues$year2$FDegBurnData$area ha
      * BGB)
408
       # CH4 ABG emissions
       EmCH4 <- MonitoredValues$year2$FDegBurnData$area_ha * AGB *</pre>
409
                                                                                   ₽
      CombustFactor * GWPCH4 * EFCH4 * 0.001
       # N 20 (above-ground biomass)
410
411
      @@ -311,14 +314,15 @@ sum(sum(EmCO2AGB), sum(EmCO2BGB), sum(EmCH4),
                                                                                   Z
      sum(EmN20))
412
       $$
413
       \begin{align}
```

```
414
       ER {FDeg,2020} &= `r ConvCarbonToCO2e(MonitoredValues$year2$FDegFellVol
                                                                                 ₽
      * TEF)`
      - + (`r ConvCarbonToCO2e(MonitoredValues$year2$FDegFellArea$area ha *
415
                                                                                 Z
      416
      + + (`r sum(ConvCarbonToCO2e(MonitoredValues$year2$FDegFellArea$area_ha
                                                                                 ₽
      * MonitoredValues$year2$FDegFellArea$age_yrs * MAICFell) * -1)`)
         + `r ConvBiomassToCO2e(MonitoredValues$year2$NFDegArea * EFNFDeg * (1
417
                                                                                 ₽
      + RootToShootTropRain))`
418
      - + `r sum(MonitoredValues$year2$FDegBurnData$area ha * AGB *
                                                                                 ą
      CombustFactor * GWPCO2 * EFCO2 * 0.001) +
                                                                                 ⋥
      sum(MonitoredValues$year2$FDegBurnData$area ha * BGB * CombustFactor *
                                                                                 ₽
      GWPCO2 * EFCO2 * 0.001) + sum(MonitoredValues$year2$FDegBurnData$area_ha
                                                                                 ₽
      * AGB * CombustFactor * GWPCH4 * EFCH4 * 0.001) +
                                                                                 4
      sum(MonitoredValues$year2$FDegBurnData$area_ha * AGB * CombustFactor *
                                                                                 ₽
      GWPN20 * EFN20 * 0.001)` \\
419

    - &= `r formatDecimal(ConvCarbonToCO2e(MonitoredValues$year2$FDegFellVol

                                                                                 ₽
      * TEF) + ( ConvCarbonToCO2e(MonitoredValues$year2$FDegFellArea$area_ha *
                                                                                 ₽
      MonitoredValues$year2$FDegFellArea$age_yrs * MAICFell) * -1) +
                                                                                 ₽
      ConvBiomassToCO2e(MonitoredValues$year2$NFDegArea * EFNFDeg * (1 +
                                                                                 ą
      RootToShootTropRain)) + sum(MonitoredValues$year2$FDegBurnData$area_ha *
                                                                                 ą
      AGB * CombustFactor * GWPCO2 * EFCO2 * 0.001) +
                                                                                 ₽
      sum(MonitoredValues$year2$FDegBurnData$area_ha * BGB * CombustFactor *
                                                                                 ą
      GWPCO2 * EFCO2 * 0.001) + sum(MonitoredValues$year2$FDegBurnData$area ha
                                                                                 ₽
      * AGB * CombustFactor * GWPCH4 * EFCH4 * 0.001) +
                                                                                 ₽
      sum(MonitoredValues$year2$FDegBurnData$area ha * AGB * CombustFactor *
                                                                                 ₽
      GWPN20 * EFN20 * 0.001))`
      + + `r sum(MonitoredValues$year2$FDegBurnData$area_ha * AGB *
420
                                                                                 4
      CombustFactor * GWPCO2 * EFCO2 * 0.001) +
                                                                                 ą
      sum(ConvBiomassToCO2e(MonitoredValues$year2$FDegBurnData$area ha * BGB))
                                                                                 ₽
      + sum(MonitoredValues$year2$FDegBurnData$area ha * AGB * CombustFactor *
                                                                                 Z
      GWPCH4 * EFCH4 * 0.001) + sum(MonitoredValues$year2$FDegBurnData$area ha
                                                                                 Z
      * AGB * CombustFactor * GWPN2O * EFN2O * 0.001)` \\
      + &= `r formatDecimal(ConvCarbonToCO2e(MonitoredValues$year2$FDegFellVol
421
                                                                                ₽
      * TEF) +
422
      + sum(ConvCarbonToCO2e(MonitoredValues$year2$FDegFellArea$area ha *
                                                                                 4
      MonitoredValues$year2$FDegFellArea$age_yrs * MAICFell) * -1) +
423
      + ConvBiomassToCO2e(MonitoredValues$year2$NFDegArea * EFNFDeg * (1 +
                                                                                 ₽
      RootToShootTropRain)) + sum(MonitoredValues$year2$FDegBurnData$area_ha *
                                                                                 ₽
      AGB * CombustFactor * GWPCO2 * EFCO2 * 0.001) +
                                                                                 ₽
      sum(ConvBiomassToCO2e(MonitoredValues$year2$FDegBurnData$area_ha * BGB))
                                                                                 ₽
      + sum(MonitoredValues$year2$FDegBurnData$area ha * AGB * CombustFactor *
                                                                                 ą
      GWPCH4 * EFCH4 * 0.001) + sum(MonitoredValues$year2$FDegBurnData$area ha
                                                                                ą
      * AGB * CombustFactor * GWPN2O * EFN2O * 0.001))`
424
       \end{align}
425
       $$
426
      -MGG - NOTE check with carly
427
428
429
       ```{r echo = TRUE, prompt = FALSE}
430
 @@ -326,7 +330,7 @@ ER FDEG 2020 <-
431
 ₽
 ConvCarbonToCO2e(MonitoredValues$year2$FDegFellVol * TEF) +
432
 sum(ConvCarbonToCO2e(MonitoredValues$year2$FDegFellArea$area ha *
 ₽
 MonitoredValues$year2$FDegFellArea$age yrs * MAICFell) * -1) +
433
 ConvBiomassToCO2e(MonitoredValues$year2$NFDegArea * EFNFDeg * (1 +
 4
```

```
RootToShootTropRain)) +
434
 sum(MonitoredValues$year2$FDegBurnData$area ha * AGB * CombustFactor *
 ⋥
 GWPCO2 * EFCO2 * 0.001) +
 -sum(MonitoredValues$year2$FDegBurnData$area ha * BGB * CombustFactor *
435
 ₽
 GWPCO2 * EFCO2 * 0.001) +
 +sum(ConvBiomassToCO2e(MonitoredValues$year2$FDegBurnData$area ha * BGB)) +
436
 sum(MonitoredValues$year2$FDegBurnData$area ha * AGB * CombustFactor *
437
 ₽
 GWPCH4 * EFCH4 * 0.001) +
438
 sum(MonitoredValues$year2$FDegBurnData$area ha * AGB * CombustFactor *
 ₽
 GWPN20 * EFN20 * 0.001)
439
 ER_FDEG_2020
440
 @@ -400,7 +404,6 @@ Rem_{FPln,2020,Hardwood} &=
 ₽
 AD {FPln,2020,age,Hardwood} \times AD {FPln,2020,ar
441
 \end{align}
442
 $$
443
 -MGG - NOTE check with carly
444
445
       ```{r echo = TRUE, prompt = TRUE}
446
447
       #' Forest Plantations - Removals from Hardwood Plantations
      @@ -492,7 +495,6 @@ Rem_{FPln,2020,Softwood}
448
                                                                                   ₽
      AD_{FPln, 2020, age, Softwood}
449
       \end{align}
450
451
452
      -MGG - NOTE check with carly
453
       ```{r echo = TRUE, prompt = TRUE}
454
 #' Forest Plantations - Removals from Softwood Plantations
455
456
 @@ -563,7 +565,6 @@ Rem {AR,2020} &= AD {AR,2020,age} \times
 ⋥
 AD {AR,2020, area} \times MAIC {AR} \ti
457
 \end{align}
458
459
460
 -MGG - NOTE check with carly
461
       ```{r echo = TRUE, prompt = TRUE}
462
463
       MonitoredValues$year2$AReforArea$age yrs
      diff --git a/reports/Fiji ER MonitoringReportExtraTables-2020.html
464
                                                                                   ⋥
      b/reports/Fiji_ER_MonitoringReportExtraTables-2020.html
465
      index 21cf318..74625f5 100644
      --- a/reports/Fiji_ER_MonitoringReportExtraTables-2020.html
466
      +++ b/reports/Fiji_ER_MonitoringReportExtraTables-2020.html
467
      @@ -566,7 +566,7 @@ pre code {
468
469
470
       <h1 class="title toc-ignore">Monitoring Report Extra Tables</h1>
471
472
      -<h4 class="date">15 December, 2023</h4>
473
      +<h4 class="date">06 February, 2024</h4>
474
475
       </div>
476
477
      @@ -811,7 +811,6 @@ ER {NFH,2020,vol} &= AD {NFH,2020,vol} \times
                                                                                   ą
      EF_{NFHvol} \times \frac{44}{
478
       %
```

```
479
      \end{align}
480
      \1</span>
481
      -MGG - NOTE check with carly
482
      <code>&gt;
                                                                             ₽
     MonitoredValues$year2$FDegFellArea$area_ha</code>
483
      <code>## [1] 1350 1083</code>
484
      <code>&gt;
                                                                             ₽
     MonitoredValues$year2$FDegFellArea$age_yrs</code>
485
     @@ -862,40 +861,41 @@ GWP_{N_20} &= 265 \\
                  &= 1580 \\
486
      EF {CO 2}
      EF_{CH_4}
487
                  &= 6.8 \\
488
      EF_{N_20}
                  &= 0.2 \\
      -AGB_{i} & amp; = AD_{FDegBurnData,2020,age,i} \times \frac{MAIB_{sw}}{1 + 고
489
     RootToShootRatio_{dll}} \\
          & = \{3, 3, 3, 3, 4, 2, 2, 2, 2, 3, 2\} \times \{10\}\{1 + 0.2\} 
490
491
     +AGB_{i} &= AD_{FDegBurnData,2020,age,i} \times MAIB_{sw} \times (1 - ㄹ
     RootToShootRatio {dll}) \\
          &= \{3, 3, 3, 3, 4, 2, 2, 2, 2, 3, 2\} \times 10 \times (1 - 20)
492
                                                                             ₽
     0.2) \\
493
          &= \{24, 24, 24, 24, 32, 16, 16, 16, 16, 24, 16\} \\
494
      BGB_{i} & amp; = AD_{FDegBurnData,2020,age,i} \times MAIB_{sw} \times
                                                                             ₽
     RootToShootRatio_{dll} \\
495
          &= \{3, 3, 3, 3, 4, 2, 2, 2, 2, 3, 2\} \times 10 \times 0.2\
          &= \{6, 6, 6, 6, 8, 4, 4, 4, 4, 6, 4\}
496
      EmCO_2AGB_{i} & amp; = AD_{FDegBurnData,2020,area,i} \times AGB_{i} \times
497
                                                                             ₽
     CombustFactor \times GWP {CO 2} \times EF {CO 2} \times 0.001 \\
                   &= \{ 8.25, 39.20, 12.10, 25.90, 33.40, 4.00, 9.86,
498
                                                                             ₽
     4.56, 10.77, 13.00, 13.00\} \\
                   & \times 25.00, 25.00, 25.00, 25.00, 33.33, 16.67,
499
                                                                             ₽
     16.67, 16.67, 16.67, 25.00, 16.67 \\
500
                   & \times \{24.00, 24.00, 24.00, 24.00, 32.00, 16.00,
                                                                             ⋥
     16.00, 16.00, 16.00, 24.00, 16.00\} \\
501
                  & \times 0.46
502
                      \times 1 \times 1580 \times 0.001 \\
503
     -\sum EmCO 2AGB {i} &= 3109.0687\\
     -EmCO_2BGB_{i} &= AD_{FDegBurnData,2020,area,i} \times BGB_{i} \times Z
504
     CombustFactor \times GWP_{CO_2} \times EF_{CO_2} \times 0.001 \\
505
     +\sum EmCO 2AGB {i} &= 2984.705952\\
     +EmCO 2BGB {i} & amp; = AD {FDegBurnData, 2020, area, i} \times BGB {i} \times
506
     0.47 \times \frac{44}{12} \\
                   & = \{ 8.25, 39.20, 12.10, 25.90, 33.40, 4.00, 9.86, \}
507
                                                                             ą
     4.56, 10.77, 13.00, 13.00\} \\
                   & \times 6.00, 6.00, 6.00, 6.00, 8.00, 4.00, 4.00,
508
                                                                             4
     4.00, 4.00, 6.00, 4.00 \\
509
                   & \times 0.46
510
                      \times 1 \times 1580 \times 0.001 \\
511
      -\sum EmCO 2BGB {i} &= 746.176488\\
512
                   & \times \{6.00, 6.00, 6.00, 6.00, 8.00, 4.00, 4.00,
                                                                             ą
     4.00, 4.00, 6.00, 4.00\} \\
                   & \times 0.47 \times \frac{44}{12} \\
513
     +\sum EmCO 2BGB {i} &= 1769.2774\\
514
515
      {EmCH {4}} i
                     &= AD {FDegBurnData,2020,area,i} \times AGB {i}
                                                                             ₽
     \times CombustFactor \times GWP {CH 4} \times EF {CH 4} \times 0.001 \\
                   & = \{ 8.25, 39.20, 12.10, 25.90, 33.40, 4.00, 9.86, \}
516
                                                                             ą
     4.56, 10.77, 13.00, 13.00\} \\
```

```
\times 25.00, 25.00, 25.00, 25.00, 33.33, 16.67,
517
                                                                            ₽
     16.67, 16.67, 16.67, 25.00, 16.67 \\
                  & \times \{24.00, 24.00, 24.00, 24.00, 32.00, 16.00,
518
                                                                            ⋥
     16.00, 16.00, 16.00, 24.00, 16.00\} \\
519
                  & \times 0.46
520
                     \times 28 \times 6.8 \times 0.001 \\
521
     -\sum {EmCH_{4}}_i &= 374.662456 \\
522
     +\sum {EmCH_{4}}_i &= 359.6759578 \\
523
      \{EmN_{2}0\}_{i}
                     &= AD_{FDegBurnData,2020,area,i} \times AGB_{i}
                                                                            ₽
     \times CombustFactor \times GWP_{N_20} \times EF_{N_20} \times 0.001 \\
524
                  amp = \{ 8.25, 39.20, 12.10, 25.90, 33.40, 4.00, 9.86, \}
                                                                             4
     4.56, 10.77, 13.00, 13.00\} \\
525
                  & \times 25.00, 25.00, 25.00, 25.00, 33.33, 16.67,
                                                                            ą
     16.67, 16.67, 16.67, 25.00, 16.67 \\
                  & \times \{24.00, 24.00, 24.00, 24.00, 32.00, 16.00,
526
                                                                            ₽
     16.00, 16.00, 16.00, 24.00, 16.00\} \\
527
                  & \times 0.46
528
                     \times 265 \times 0.2 \times 0.001 \\
     -\sum {EmN {2}0} i &= 104.291545 \\
529
530
     +\sum {EmN_{2}0}_i &= 100.1198832 \\
531
      ER_{FSW,2020}&= \sum EmCO_2AGB_{i} + \sum EmCO_2BGB_{i} + \sum
                                                                            ₽
     \{EmCH_{4}\}_i + \sum_{EmN_{2}0}_i \
532
                  &= 3109.0687
533
                    + 746.176488
534
                    + 374.662456
                    + 104.291545 \\
535
536
                    &= 4334.199189 \\
537
                  & = 2984.705952
538
                    + 1769.2774
539
                    + 359.6759578
540
                    + 100.1198832 \\
541
                    & = 5213.779193 \\
542
      \end{align}
543
      \]</span>
      <code>&gt;
544
                                                                            ₽
     MonitoredValues$year2$FDegBurnData$age_yrs</code>
545
     @@ -921,42 +921,41 @@ ER_{FSW,2020}&= \sum EmCO_2AGB_{i} + \sum
                                                                            ⋥
     EmCO \ 2BGB \ \{i\} + \ sum \ \{EmCH \ \{4\}\}
      <code>&gt; EFN2O</code>
546
547
      <code>## [1] 0.2</code>
548
      <code>&gt; # Estimate AGB
549
     -> AGB <- MonitoredValues$year2$FDegBurnData$age_yrs * (MAIBsw / (1 국
     + RootToShootDryLandSmall))
     +> AGB <- MonitoredValues$year2$FDegBurnData$age yrs * (MAIBsw * (1
550
     RootToShootDryLandSmall))
551
      > # Estimate BGB
552
      > BGB <- MonitoredValues$year2$FDegBurnData$age yrs * (MAIBsw *
                                                                            ₽
     RootToShootDryLandSmall)
553
      > # CO2 ABG emissions
554
      > EmCO2AGB <- MonitoredValues$year2$FDegBurnData$area_ha * AGB *
                                                                             Z
     CombustFactor * GWPCO2 * EFCO2 * 0.001
555
      > # CO2 BGB emissions
     -> EmCO2BGB <- MonitoredValues$year2$FDegBurnData$area_ha * BGB *
556
                                                                            ₽
     CombustFactor * GWPCO2 * EFCO2 * 0.001
557
     +> EmCO2BGB <-
                                                                             ₽
```

```
ConvBiomassToCO2e(MonitoredValues$year2$FDegBurnData$area ha * BGB)
558
      > # CH4 ABG emissions
      > EmCH4 <- MonitoredValues$year2$FDegBurnData$area_ha * AGB *
559
                                                                              ą
     CombustFactor * GWPCH4 * EFCH4 * 0.001
560
      > # N_20 (above-ground biomass)
      > EmN2O <- MonitoredValues$year2$FDegBurnData$area_ha * AGB *
561
                                                                              Z
     CombustFactor * GWPN20 * EFN20 * 0.001
562
      > # sum emissions for each gas and put into dataframe
563
      > sum(sum(EmCO2AGB), sum(EmCO2BGB), sum(EmCH4), sum(EmN2O))</code>
      -<code>## [1] 4334.199</code>
564
565
     +<code>## [1] 5213.779</code>
566
567
      <div id="monitoring-period-year-2020-total-forest-degradation"</pre>
                                                                              ₽
     class="section level4">
      <h4>Monitoring Period, Year 2020, Total Forest Degradation</h4>
568
569
      <span class="math display">\[
570
      \begin{align}
571
      ER_{FDeg,2020} & amp; = 8.50388\times 10^{4}
     - + (-2450.25, -5896.935)
572
573
     + + (-8347.185)
574
        + 3.5792828\times 10^{4}
575
      - + 4334.199189 \\
      - &= 122715.58, 119268.89
576
577
     + + 5213.779193 \\
578
     + &= 117698.22
579
      \end{align}
580
      \]</span>
      -MGG - NOTE check with carly
581
582
      <code>ER_FDEG_2020 &lt;-
                                                                              ₽
     ConvCarbonToCO2e(MonitoredValues$year2$FDegFellVol * TEF) +
583
      sum(ConvCarbonToCO2e(MonitoredValues$year2$FDegFellArea$area ha *
                                                                              ₽
     MonitoredValues$year2$FDegFellArea$age yrs * MAICFell) * -1) +
584
      ConvBiomassToCO2e(MonitoredValues$year2$NFDegArea * EFNFDeg * (1 +
                                                                              4
     RootToShootTropRain)) +
585
      sum(MonitoredValues$year2$FDegBurnData$area_ha * AGB * CombustFactor *
                                                                              4
     GWPCO2 * EFCO2 * 0.001) +
586
      -sum(MonitoredValues$year2$FDegBurnData$area_ha * BGB * CombustFactor *
                                                                              ą
     GWPCO2 * EFCO2 * 0.001) +
587
     +sum(ConvBiomassToCO2e(MonitoredValues$year2$FDegBurnData$area ha * BGB)) +
588
      sum(MonitoredValues$year2$FDegBurnData$area_ha * AGB * CombustFactor *
                                                                              ₽
     GWPCH4 * EFCH4 * 0.001) +
589
      sum(MonitoredValues$year2$FDegBurnData$area_ha * AGB * CombustFactor *
                                                                              ₽
     GWPN20 * EFN20 * 0.001)
590
      ER FDEG 2020</code>
      -<<code>## [1] 116818.6</code>
591
592
     +<<code>## [1] 117698.2</code>
      </div>
593
594
595
      <div id="removals-by-enhancments" class="section level3">
596
     @@ -1022,7 +1021,6 @@ Rem_{FPln,2020,Hardwood} &=
                                                                              ą
     AD {FPln,2020,age,Hardwood} \times AD {FPln,202
597
        &= -3.0446412\times 10^{4}, 0
598
      \end{align}
599
      \]</span>
      -MGG - NOTE check with carly
600
```

```
601
      <code>&gt; #' Forest Plantations - Removals from Hardwood
                                                                           ₽
     Plantations
      > MonitoredValues$year2$FPlnAreaPlantHwd$area ha</code>
602
603
      <code>## [1] 4008
                              0</code>
604
     @@ -1112,7 +1110,6 @@ Rem_{FPln,2020,Softwood}
                                                    &=
                                                                           ₽
     AD {FPln, 2020, age, Softwood}
                                 & = -1.7302267\times 10^{4},
605
                                                                           4
     -4.93735\times 10^{4}
606
      \end{align}
607
      \]</span>
     -MGG - NOTE check with carly
608
609
      <code>&gt; #' Forest Plantations - Removals from Softwood
                                                                           Z
     Plantations
610
      > MAIBsw</code>
611
      <code>## [1] 10</code>
612
     @@ -1178,7 +1175,6 @@ Rem {AR,2020} &= AD {AR,2020,age} \times
                                                                           ₽
     AD {AR,2020,area} \times MAIC {AR}
613
                    & = -2967.6123297, -9639.9225192
614
      \end{align}
615
      \]</span>
     -MGG - NOTE check with carly
616
      <code>&gt;
617
                                                                           ₽
     MonitoredValues$year2$AReforArea$age yrs</code>
618
      <code>## [1] 0.5 1.5</code>
      <code>&gt; MAIVar</code>
619
620
     @@ -1215,8 +1211,8 @@ ER {Enh,2020} &= 5.9030799\times 10^{5} +
                                                                           ₽
     (-1.2607535\times 10^{4}) \\
621
      <span class="math display">\[
622
      \begin{align}
623
      ER {2020} & amp; = ER {Defor, 2020} + ER {FDeg, 2020} + ER {Enh, 2020} \\
624
               &= 6.6331104\times 10^{4} + 1.1681864\times 10^{5} +
                                                                           ₽
     5.7770045\times 10^{5} \\
               &= 7.608502\times 10^{5}
625
               &= 6.6331104\times 10^{4} + 1.1769822\times 10^{5} +
626
                                                                           ⋥
     5.7770045\times 10^{5} \\
               &= 7.6172978\times 10^{5}
627
628
      \end{align}
629
      <code>&gt; ER 2020 &lt;- ER DEF 2020 + ER FDEG 2020 +
630
                                                                           ⊿
     ER Enh 2020
631
     diff --git a/reports/Fiji ER MonitoringReportExtraTables.html
                                                                           ą
     b/reports/Fiji_ER_MonitoringReportExtraTables.html
     index 99e4e9a..f0ae1ba 100644
632
     --- a/reports/Fiji ER MonitoringReportExtraTables.html
633
634
     +++ b/reports/Fiji_ER_MonitoringReportExtraTables.html
     @@ -566,7 +566,7 @@ pre code {
635
636
637
      <h1 class="title toc-ignore">Monitoring Report Extra Tables</h1>
638
     -<h4 class="date">15 December, 2023</h4>
639
640
     +<h4 class="date">06 February, 2024</h4>
641
642
      </div>
643
     diff --git a/reports/Fiji_ER_Report.html b/reports/Fiji_ER_Report.html
644
```

```
index 28269ff..1c33d00 100644
645
     --- a/reports/Fiji_ER_Report.html
646
647
     +++ b/reports/Fiji_ER_Report.html
     @@ -566,7 +566,7 @@ pre code {
648
649
650
      <h1 class="title toc-ignore">Fiji ER Report</h1>
651
      -<h4 class="date">15 December, 2023</h4>
652
      +<h4 class="date">06 February, 2024</h4>
653
654
655
      </div>
656
```