

Annex 1. Selection of timber species for current and future harvests

The CELOS Management System uses three lists of species, which are to be logged in ongoing and future harvest operations. A list of all currently marketable species is used in the pre-felling inventory of harvestable trees. The logging company uses this inventory among others for marketing purposes, but often only part of the species inventoried can be exploited profitably. This depends, among others, on the prices on the timber market, the location of the forest (transport costs) and terrain conditions (costs of harvesting). Hence, a timber company will generally use a species list in its felling operation, which is shorter than the inventory list, and this list may vary from forest to forest and from year to year.

A third list is used in silvicultural operations. This list includes the species which are likely to contribute to the second harvest, which is foreseen after 25 years. Historical evidence has shown that it is possible to make a reasonable prediction of the future market potential of tree species, based on studies of timber characteristics: the list, used in the CELOS experiments of the 1970s included almost all species which were marketable in 2000. The few timbers which had entered the market since the 1970s and which were not on this list mostly were either rare species, which had not been adequately investigated, or species, which had been rejected because they seldom grow to timber size (see also Section 4.5).

The present CELOS list of commercial tree species (CELOS 2002) includes all timber species which are either currently on the market or have the potential to enter the market in the foreseeable future. This list, which is based solely on timber characteristics, provides a good basis for lists to be used in silvicultural operations. However, timber quality is not the sole criterion to be used for such a silvicultural list: the size which a species can attain and its growth rate are other factors to be considered. For example, a species such as *Lecythis corrugata* should not appear on such a list, although it has an attractive straight stem and produces timber of acceptable quality. This is because too few trees of this common species grow to timber size and because the species responds poorly to silvicultural treatment (see Section 4.5). Another example of a marketable species that should not be on the list is *Eperua falcata* (wallaba). This tree is mainly found in so-called savanna forest, where it can be quite common, and in marshy areas. The CSS is not meant for savanna and marsh forests however, and in mesophytic rain forest, wallaba trees remain too small and are too rare to anticipate future commercial exploitation.

An example of a species, which did not qualify for inclusion in the CELOS list of commercial species, but which may nevertheless be considered locally for the list used in silvicultural operations, is *Sclerolobium albiflorum*. This species has a limited commercial potential (see Comvalius 2001), but its exceptionally fast growth (Section 5.4) may justify such a decision, especially in forests where the species is common and where more valuable timber species are poorly represented.

Species number	Species code	Scientific name	Vernacular name	Category1
1	11560101	<i>Fagara pentandra</i>	Pritijari	Commercial A
2	11680204	<i>Qualea rosea</i>	Bergi gronfolo	Commercial A
3	11353101	<i>Peltogyne venosa</i>	Purperhart	Commercial A
4	11353201	<i>Platymiscium ulei</i>	Koenatepi	Commercial A
5	11400102	<i>Carapa guianensis; C. procera</i>	Krapa	Commercial A
6	11400201	<i>Cedrela odorata</i>	Ceder	Commercial A
7	11420201	<i>Brosimum paraënsense</i>	Satijnhout	Commercial A
8	11420203	<i>Brosimum guianense</i>	Letterhout	Commercial A
9	11351801	<i>Diplotropis purpurea</i>	Zwarte kabbes	Commercial A
10	11430203	<i>Virola surinamensis</i>	Laagland baboen	Commercial A
11	11351601	<i>Dicorynia guianensis</i>	Basralokus	Commercial A
12	11580301	<i>Manilkara bidentata</i>	Bolletri	Commercial A
13	11580401	<i>Micropholis guyanensis var. guyanensis</i>	Wit riemhout	Commercial A
14	11580402	<i>Micropholis guyanensis var. commixta</i>	Zwart riemhout	Commercial A
15	11590401	<i>Simarouba amara</i>	Soemaroeba	Commercial A
16	11600101	<i>Sterculia pruriens</i>	Okro oedoe	Commercial A
17	11680201	<i>Ruizterania albiflora</i>	Hoogland gronfolo	Commercial A
18	11680202	<i>Qualea coerulea</i>	Laagland gronfolo	Commercial A
19	11430201	<i>Virola michellii</i>	Hoogland baboen	Commercial A
20	11170101	<i>Gouphia glabra</i>	Kopi	Commercial A
21	11020201	<i>Loxopterygium sagotii</i>	Slangenhout	Commercial A
22	11030301	<i>Xylopia aromatica</i>	Pegrekoe pisi	Commercial A
23	11080101	<i>Jacaranda copaia</i>	Goebaja	Commercial A
24	11080204	<i>Tabebuia serratifolia</i>	Groenhart	Commercial A
25	11120206	<i>Protium decandrum</i>	Grootbladige tingimoni	Commercial A
26	11120207	<i>Protium tenuifolium</i>	Harde bast tingimoni	Commercial A
27	11120301	<i>Tetragastris altissima</i>	Rode sali	Commercial A
28	11351901	<i>Dipterix odorata; D. punctata</i>	Tonka	Commercial A
29	11120401	<i>Trattinickia burserifolia; T. rhoifolia</i>	Ajawatingimoni	Commercial A
30	11330503	<i>Ocotea glomerata</i>	Harde zwarte pisi	Commercial A
31	11270401	<i>Platonia insignis; Rheedia benthamiana</i>	Geelhart; Pakoeli	Commercial A
32	11290101	<i>Humiria balsamifera</i>	Blakaber; Meri	Commercial A
33	11330302	<i>Licaria canella; L. cayennensis</i>	Kaneelhart	Commercial A

1 Categories: Commercial A: species on the Jonkers (1987) list of commercial species; Commercial B: other timber species currently on the market; Commercial P: potentially commercial species; Secondary species: pioneer species without commercial potential; Other: other non-commercial species.

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Species number	Species code	Scientific name	Vernacular name	Category1
34	11330502	<i>Ocotea globifera</i>	Harde witte pisi; Wanapisi	Commercial A
35	11330506	<i>Ocotea canaliculata; O. petalanthera</i>	Witte pisi	Commercial A
36	11330509	<i>Ocotea rubra</i>	Wana	Commercial A
37	11350301	<i>Parkia nitida</i>	Agrobigi	Commercial A
38	11351001	<i>Andira inermis; A. surinamensis</i>	Rode kabbes	Commercial A
39	11120302	<i>Tetragastris hostmannii</i>	Tingimonisali	Commercial A
40	11680305	<i>Vochysia tomentosa</i>	Wanakwari	Commercial A
41	13060202	<i>Schefflera morototoni</i>	Kasaba oedoe	Commercial A
42	11680302	<i>Vochysia guianensis</i>	Wiswiskwari	Commercial A
43	11270601	<i>Sympomia globulifera</i>	Mataki	Commercial A
44	11330401	<i>Nectandra grandis</i>	Zachte zwarte pisi	Commercial A
45	03340201	<i>Couratari guianensis</i>	Ingipipa	Commercial B
46	04354101	<i>Vataireopsis speciosa</i>	Djongo kabisi	Commercial B
47	02352101	<i>Eperua falcata</i>	Walaba	Commercial B
48	04354001	<i>Vataarea guianensis</i>	Gele kabbes	Commercial B
49	02340403	<i>Lecythis corrugata</i>	Hoogland oemanbarklak	Commercial B
50	02120208	<i>Protium polybotryum</i>	Rode bast tingimoní	Commercial B
51	00350201	<i>Inga alba</i>	Prokoni	Commercial B
52	05420101	<i>Bagassa guianensis</i>	Kaw oedoe	Commercial P
53	04190303	<i>Terminalia dichotoma</i>	Bosamandel	Commercial P
54	04190301	<i>Terminalia amazonia</i>	Kalebashout	Commercial P
55	04080202	<i>Tabebuia capitata</i>	Makagrín	Commercial P
56	05353402	<i>Pterocarpus rohrii</i>	Hoogland bebe	Commercial P
57	05370101	<i>Antonia ovata</i>	Lika oedoe	Commercial P
58	04020401	<i>Tapirira guianensis</i>	Weti oedoe	Commercial P
59	04020103	<i>Anacardium spruceanum</i>	Boskasjoe	Commercial P
60	03580504	<i>Pouteria guianensis</i>	Jamboka	Commercial P
61	04020402	<i>Tapirira guianensis var. elliptica</i>	Hoogland weti oedoe	Commercial P
62	00540313	<i>Licania obidensis</i>	Kleine kwepi	Commercial P
63	04353001	<i>Ormosia coccinea</i>	Hoogland kokriki	Commercial P
64	04352401	<i>Hymenolobium flavum</i>	Maka kabbes	Commercial P
65	00353505	<i>Sclerolobium paniculatum</i>	Witte djedoe	Commercial P
66	00353502	<i>Sclerolobium guianense</i>	Savanne djedoe	Commercial P
67	00352801	<i>Martiusia parviflorum</i>	Bosmahonie	Commercial P
68	04430103	<i>Iryanthera sagotiana</i>	Broedoe oedoe	Commercial P
69	00160101	<i>Caryocar glabrum</i>	Gladde sopo oedoe	Commercial P

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70	00540304	<i>Licania heteromorpha</i>	Zwampanaura	Commercial P
71	00580103	<i>Chrysophyllum pomiferum</i>	Djoe bolletri	Commercial P
72	04290201	<i>Sacoglottis guianensis</i>	Bofroe oedoe	Commercial P
73	04260301	<i>Laetia procera</i>	Pintokopi	Commercial P
74	04580506	<i>Pouteria ptychandra</i>	Kimboto	Commercial P
75	04580507	<i>Pouteria cuspidata</i>	Pintobolletri	Commercial P
76	03540401	<i>Parinari campestris</i>	Rode foengoe	Commercial P
77	00160102	<i>Caryocar microcarpum</i>	Ruze sopo oedoe	Commercial P
78	04350302	<i>Parkia pendula</i>	Kwatakama	Commercial P
79	01350602	<i>Pithecellobium corymbosum</i>	Bostamarinde	Commercial P
80	02540101	<i>Couepia caryophylloides</i>	Anaura	Commercial P
81	02120202	<i>Protium arachouchini a.o.</i>	Tingimoni	Commercial P
82	02353501	<i>Sclerolobium albiflorum</i>	Rode djedoe	Commercial P
83	02340405	<i>Eschweilera odora</i>	Hoogland manbarklak	Commercial P
84	03190101	<i>Buchenavia capitata</i>	Gemberhout	Commercial P
85	04640201	<i>Lueheopsis flavescens; L. rugosa</i>	Katoen oedoe	Commercial P
86	01350604	<i>Abarema jupunda</i>	Sopo oedoe, fijnbladig	Commercial P
87	03250701	<i>Drypetes variabilis</i>	Weti foengoe	Commercial P
88	01330504	<i>Ocotea oblonga</i>	Zilverpsi	Commercial P
89	02353504	<i>Sclerolobium micropetalum</i>	Zwarte djedoe	Commercial P
90	03350101	<i>Balizia pedicellaris</i>	Tamaren prokoni	Commercial P
91	03350501	<i>Piptadenia suaveolens</i>	Pikinmisiki	Commercial P
92	03350606	<i>Pithecellobium pedicellaris</i>	Tamaren prokoni	Commercial P
93	03540302	<i>Licania majuscula</i>	Foengoe	Commercial P
94	01040201	<i>Aspidosperma cruentum</i>	Kromanti kopi	Commercial P
95	00450601	<i>Myrcia sylvatica</i>	Savannegujave	Other
96	02353503	<i>Sclerolobium melinonii</i>	Djadidja	Other
97	00550301	<i>Chimarrhis turbinata</i>	Sinja oedoe	Other
98	00550401	<i>Coussarea paniculata</i>	Boskoffe	Other
99	02353603	<i>Swartzia benthamiana</i>	Bergi bebe	Other
100	00540704	<i>Hirtella racemosa</i>	Beharde kwepi	Other
101	00540601	<i>Excellocrater barbatum</i>	Rode kwepi	Other
102	03040401	<i>Couma guianensis</i>	Pera	Other
103	00450602	<i>Myrcia section armeriela</i>	Kronmoko	Other
104	00580102	<i>Chrysophyllum cainito</i>	Sterappel	Other
105	03250401	<i>Chaetocarpus schomburgkianus</i>	Fomang	Other

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106	00421001	<i>Trynaticoccus amazonicus</i>	Olie oedoe	Other
107	03310301	<i>Poraqueiba guianensis</i>	Witte bast jakanta	Other
108	00400403	<i>Trichilia propingue</i>	Melisali	Other
109	03040801	<i>Macoubea guianensis</i>	Sokosoko mapa	Other
110	00670201	<i>Rinorea spp.</i>	Lele tiki	Other
111	01030302	<i>Xylopia longifolia</i>	Hoogland pegrekoe	Other
112	01270503	<i>Rheedia macrophylla</i>	Hoogland pakoeli	Other
113	03540306	<i>Licania incana</i>	Sabana foengoe	Other
114	03540309	<i>Licania micrantha</i>	Zwarre foengoe	Other
115	03540312	<i>Licania stricta</i>	Kleinbladige zwarte foengoe	Other
116	01330101	<i>Aniba hostmanniana</i>	Waikara pisi	Other
117	01330303	<i>Licaria guianensis</i>	Kaneel pisi	Other
118	01330510	<i>Ocotea schomburgkiana</i>	Savanne pisi	Other
119	01350607	<i>Pithecellobium racemosum</i>	Fijnbladige rode kabbes	Other
120	00570502	<i>Talisia pedicularis</i>	Bosknippa	Other
121	00670202	<i>Rinorea passoura</i>	Manari tiki	Other
122	02340408	<i>Eschweilera subglandulosa</i>	Manbarklak	Other
123	01430202	<i>Virola sebifera</i>	Pintri baboen	Other
124	00670102	<i>Paypayrola guianensis</i>	Taja oedoe	Secondary sp.
125	00670101	<i>Paypayrola confectiflora</i>	Asisi oedoe	Other
126	00581001	<i>Achrouteria pomifera</i>	Laurierkers	Other
127	02120204	<i>Protium heptaphyllum</i>	Kleinbladige tingimoni	Secondary sp.
128	00580201	<i>Ecclinusa cuneifolium</i>	Kwatta bobbi	Other
129	02340404	<i>Eschweilera longipes</i>	Berg manbarklak	Other
130	00570503	<i>Talisia spec.</i>	Jan Krappa	Other
131	03540402	<i>Parinari excelsa</i>	Kleinbladige rode foengoe	Other
132	01420601	<i>Perebea laurifolia</i>	Manletterhout	Other
133	00730101	<i>Piper aduncum</i>	Mananesiwiri	Secondary sp.
134	00110102	<i>Cordia nodosa</i>	Knooptafelboom	Secondary sp.
135	4380201	<i>unknown species2</i>	Unknown	Other
136	330601	<i>unknown species2</i>	Unknown	Other
137	05220101	<i>Diospyros guianensis</i>	Blaka oema	Other
138	00040202	<i>Aspidosperma exelsum</i>	Zwart parelhout	Secondary sp.
139	00041001	<i>Bonafousia undulata</i>	Merki tiki	Other
140	04110101	<i>Cordia alliodora</i>	Tafelboom	Other

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141	460601	<i>unknown species2</i>	Unknown	Other
142	02340401	<i>Eschweilera amara</i>	Bergoemanbarklak	Other
143	50610810	<i>Solanum americanum</i>	Ajoenawiwiri	Other
144	00690101	<i>Duratea castaneifolia</i>	Hei oedoe	Other
145	00480301	<i>Heisteria cauliflora</i>	Bosdruijf	Other
146	00340409	<i>Eschweilera labriculata</i>	Dwergoemanbarklak	Other
147	00270801	<i>Vismia angusta</i>	Manpinja	Other
148	00250201	<i>Alchorneopsis trimera</i>	Manbebe	Secondary sp.
149	99999999	<i>unknown species</i>	Unknown	Other
150	06040203	<i>Aspidosperma margravianum</i>	Wit parelhout	Other
151	02120101	<i>Hemicrepidiospermum rhoifolium</i>	Getande tingimoni	Other
152	00220102	<i>Diospyros cauliflora</i>	Awariston	Other
153	70551202	<i>Psychotria cuspidata</i>	Witte bofroekasaba	Other
154	60410101	<i>Abuta grandifolia</i>	Kapoeasiri	Other
155	00030401	<i>Anaxogorea mutica</i>	Jari jari	Other
156	00680301	<i>Vochysia densiflora</i>	Appelkwari	Other
157	00630101	<i>Siparuna guianensis</i>	Jarakopi	Secondary sp.
158	00550801	<i>Isertia coccinea</i>	Kandra oedoe	Other
159	00450702	<i>Calycorectes bergii</i>	Bosguave	Other
160	4380301	<i>unknown species10</i>	Unknown	Other
161	00450301	<i>Calyptprantes speciosa</i>	Labawala	Other
162	05500101	<i>Coccoloba latifolia</i>	Bradilifi	Other
163	99999998	<i>unknown species</i>	Unknown	Other
164	99999997	<i>unknown species</i>	Unknown	Other
165	99999996	<i>unknown species</i>	Unknown	Other
166	99999995	<i>unknown species</i>	Unknown	Other
167	99999994	<i>unknown species</i>	Unknown	Other
168	70610101	<i>Brunfelsia guianensis</i>	Manbitawiwiri	Other
169	540702	<i>unknown species2</i>	Unknown	Other
170	00450501	<i>Marlierea montana</i>	Kwakoe	Other
171	00270802	<i>Vismia cayennensis</i>	Pinja	Secondary sp.
172	05550201	<i>Capirona surinamensis</i>	Dede oedoe	Other
173	00200101	<i>Tapura guianensis</i>	Pakira tiki	Other
174	00200102	<i>Tapura capitulifera</i>	Bergi pakira tiki	Other
175	00230103	<i>Sloanea trichosticha</i>	Ravenjang	Other
176	00250501	<i>Conceveiba guianensis</i>	Hoogland panta	Other

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177	00251801	<i>Mabea piriri</i>	Koto tiki	Other
178	00110107	<i>Cordia laevifrons</i>	Hoogland tafelboom	Other
179	00270201	<i>Caripa densiflora</i>	Laksiri	Other
180	01020202	<i>Loxopterygium spec.</i>	Hoogland slangenhout	Other
181	00310101	<i>Dendrobangia boliviiana</i>	Rode bast jakanta	Other
182	00330507	<i>Ocotea puberula</i>	Papaja pisi	Other
183	00330508	<i>Ocotea spec.</i>	Kras pisi	Other
184	00351703	<i>Dimorphandra pullei</i>	Pesi oedoe	Other
185	70730199	<i>Piper spec.</i>	Anesiwiwiri	Secondary sp.
186	00353601	<i>Swartzia arborescens</i>	Alanja oedoe	Other
187	00330403	<i>Nectandra pisi</i>	Zwarte pisi	Other
188	00251905	<i>Pogonophera schomburgkiana</i>	Geri oedoe	Other
189	05340502	<i>Gustavia hexapetala</i>	Konkonni oedoe, hoogland	Other
190	00355101	<i>Martiodendron parviflorum</i>	Witte pintolocus	Other
191	05460102	<i>Guapira spec.</i>	Prasara oedoe	Other
192	05460101	<i>Guapira olfersiana</i>	Njamsi oedoe	Other
193	05430101	<i>Iryanthera hostmannii</i>	Sre bebe	Other
194	05400401	<i>Trichilia roraimana</i>	Sorosalı	Other
195	05380102	<i>Byrsonima spicata</i>	Lonto kasi	Secondary sp.
196	05353801	<i>Tachigalia paniculata</i>	Djedoe	Other
197	05550101	<i>Amajoua guianensis</i>	Marmeldoos	Other
198	05340501	<i>Gustavia augusta</i>	Konkonni oedoe, laagland	Other
199	00330104	<i>Aniba taubertiana</i>	Pisi	Other
200	05260102	<i>Casearea javitensis</i>	Oema oedoe	Other
201	05260101	<i>Casearea arborea</i>	Redi oedoe	Other
202	05230102	<i>Sloanea grandiflora</i>	Boskoeswe, kleinbladig	Other
203	05230101	<i>Sloanea eichleri</i>	Rafroe njanjan	Other
204	05150201	<i>Jacaratia spinosa</i>	Awara oedoe	Other
205	00090101	<i>Bixa orellana</i>	Boskoeswe	Other
206	05360101	<i>Hebepetalum humeriifolium</i>	Pakira oedoe	Other
207	00550901	<i>Palicourea guianensis</i>	Panga panga	Secondary sp.
208	00390301	<i>Bellucia grossularioides</i>	Gewone mispel	Other
209	00390101	<i>Miconia spec.</i>	Mispel	Secondary sp.
210	04580501	<i>Pouteria cladantha</i>	Zwarte jamboka	Other
211	04390201	<i>Mouriri acutiflora</i>	Spikri oedoe	Secondary sp.
212	04420302	<i>Cecropia sciadophylla</i>	Manbospapaja	Secondary sp.

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213	04420304	<i>Cecropia peltata</i>	Boroma	Secondary sp.
214	04420801	<i>Pourouma spp.</i>	Granbospapaja	Secondary sp.
215	04450401	<i>Eugenia coffeifolia</i>	Boskers	Other
216	04480101	<i>Chaunochiton kappleri</i>	Patakwama	Other
217	04480201	<i>Minquartia guianensis</i>	Alata oedoe	Other
218	04540301	<i>Licania apetala</i>	Kwepi	Other
219	04540310	<i>Licania ovalifolia</i>	Santi oedoe	Other
220	04540501	<i>Prunus myrtifolia</i>	Amandelhout	Other
221	04420202	<i>Brosimum parinarioides</i>	Doekali	Other
222	04580101	<i>Chrysophyllum auratum</i>	Bosappel	Other
223	04400301	<i>Guarea guarea</i>	Doifisiri	Other
224	04580503	<i>Pouteria gongrijpii</i>	Apra oedoe	Other
225	04580512	<i>Pouteria spec. 1</i>	Witte jamboka	Other
226	04580514	<i>Pouteria spec. 2</i>	Zwarte pintobolletri	Other
227	04620101	<i>Laplacea fructicosa</i>	Swa oedoe	Other
228	04640101	<i>Apeiba echinata</i>	Kankan oedoe	Other
229	04650101	<i>Ampelocera edentula</i>	Kwaskwasi	Other
230	04680203	<i>Qualea dinizii</i>	Gujavekwari	Other
231	04400302	<i>Guarea kunthiana</i>	Zwarte doifisiri	Other
232	04640102	<i>Apeiba tibourbou</i>	Fokofoko oedoe	Other
233	04570501	<i>Talisia megaphylla</i>	Bosknippa	Other
234	04570201	<i>Cupania hirsuta</i>	Gawetri	Secondary sp.
235	04260302	<i>Laetia spec.</i>	Hoogland pinto kopi	Secondary sp.
236	04040101	<i>Ambelania acida</i>	Batbati	Other
237	04040501	<i>Geissospermum sericeum</i>	Bergibita	Other
238	04100102	<i>Bombax crassum</i>	Boskatoen	Other
239	04170201	<i>Maytenus myrsinoides</i>	Zoutmeti oedoe	Other
240	04220103	<i>Diospyros spec.</i>	Pikapika	Other
241	04250601	<i>Croton matourensis</i>	Tabakabron	Other
242	04250801	<i>Hevea guianensis</i>	Hevea	Other
243	04251001	<i>Hieronima laxiflora</i>	Ajo ajo	Other
244	04251101	<i>Maprounea guianensis</i>	Pikin tiki	Secondary sp.
245	04251201	<i>Pera bicolor</i>	Pepre oedoe	Other
246	04420301	<i>Cecropia obtusa</i>	Bospapaja	Secondary sp.
247	04251602	<i>Sapium klotzschgianum</i>	Merki oedoe	Other
248	04030101	<i>Annona montana</i>	Bosuurzak	Secondary sp.

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Species number	Species code	Scientific name	Vernacular name	Category1
249	04270701	<i>Tovomita choisyana</i>	Bosmangro	Other
250	04340402	<i>Eschweilera chartacea</i>	Rode bast tite oedoe	Other
251	04340406	<i>Eschweilera poiteaui</i>	Gele bast tite oedoe	Other
252	04340407	<i>Lecythis simiorum</i>	Witte bast tite oedoe	Other
253	04350202	<i>Inga spp.</i>	Swietbonki	Secondary sp.
254	04350901	<i>Alexa wachenheimii</i>	Neke oedoe	Other
255	04351201	<i>Copaifera guianensis</i>	Hoepelhout	Other
256	04352701	<i>Macrolobium angustifolium</i>	Watrabiri	Other
257	04353004	<i>Ormosia paraensis</i>	Kokikri	Other
258	04353607	<i>Swartzia remigifer</i>	Boegoebogoe	Other
259	04251601	<i>Sapium aubletianum</i>	Gomhout	Other

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