



Appendix 2

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Appendix 2
Tree plot data from the Nakauvadra Highlands, Ra Province, Fiji
Marika Tuiwawa and Arthur Whistler

Table 1. Lowland Rainforest Vegetation - Creek Flat Forest (320 m.a.s.l.). Plot 1, Camp 1.

| Species | No. of Trees | No.>15 cm | Basal Area | Rel. Dom. |
|--|--------------|-----------|------------|-----------|
| <i>Endiandra elaeocarpa</i> | 8 | 4 | 8921 | 16% |
| <i>Dysoxylum</i> sp. | 1 | 1 | 5942 | 11% |
| <i>Kingiodendron polycarpum</i> | 12 | 8 | 5468 | 10% |
| <i>Gironniera celtidifolia</i> | 44 | 9 | 4603 | 8% |
| <i>Dillenia biflora</i> | 11 | 9 | 3246 | 6% |
| <i>Aleurites moluccana</i> | 1 | 1 | 2550 | 5% |
| <i>Elattostachys falcata</i> | 3 | 1 | 2388 | 4% |
| <i>Litsea</i> sp. (cf. <i>mellifera</i> ?) | 11 | 3 | 2357 | 4% |
| <i>Myristica castaneifolia</i> | 4 | 2 | 2076 | 4% |
| <i>Parinari insularum</i> | 2 | 1 | 1888 | 3% |
| <i>Elaeocarpus</i> sp. | 1 | 1 | 1885 | 3% |
| <i>Dysoxylum richii</i> | 3 | 2 | 1820 | 3% |
| <i>Degeneria roseiflora</i> | 2 | 1 | 1564 | 3% |
| <i>Viticipremna vitilevuensis</i> | 1 | 1 | 1451 | 3% |
| <i>Buchanania</i> sp. | 1 | 1 | 907 | 2% |
| <i>Macaranga</i> sp. | 2 | 1 | 793 | 2% |
| <i>Pagiantha thurstonii</i> | 10 | 1 | 786 | 1% |
| <i>Alangium vitiense</i> | 4 | 2 | 719 | 1% |
| <i>Syzygium</i> sp. (big leaf) | 5 | 1 | 587 | 1% |
| <i>Syzygium smithii</i> | 2 | 2 | 510 | 1% |
| <i>Veitchia vitiensis</i> | 9 | 0 | 496 | 1% |
| <i>Plerandra pickeringii</i> | 2 | 1 | 447 | 1% |
| <i>Alphitonia franguloides</i> | 1 | 1 | 415 | 1% |
| <i>Syzygium</i> sp. (no. 6) | 1 | 1 | 415 | 1% |
| <i>Glochidion</i> sp. | 1 | 1 | 380 | 1% |
| <i>Cynometra insularis</i> | 3 | 1 | 375 | 1% |
| <i>Cupaniopsis concolor</i> | 2 | 1 | 355 | 1% |
| <i>Palaquium porphyreum</i> | 1 | 1 | 314 | 1% |
| <i>Ficus fulvo-pilosa</i> | 1 | 0 | 204 | + |
| <i>Garcinia myrtifolia</i> | 2 | 0 | 161 | + |
| <i>Premna protusa</i> | 1 | 0 | 154 | + |
| <i>Baccaurea pulvinata</i> | 3 | 0 | 127 | + |
| <i>Semecarpus vitiensis</i> | 1 | 0 | 113 | + |
| <i>Terminalia</i> sp. | 3 | 0 | 113 | + |
| <i>Planchonella</i> sp. | 3 | 0 | 112 | + |
| <i>Dendrocnide vitiensis</i> | 2 | 0 | 88 | + |
| <i>Elaeocarpus</i> sp. no. 2 | 1 | 0 | 38 | + |
| <i>Endiandra</i> sp. | 1 | 0 | 38 | + |
| <i>Syzygium malaccense</i> | 1 | 0 | 28 | + |
| <i>Ficus</i> cf. <i>scabra</i> | 1 | 0 | 28 | + |
| <i>Tabernaemontana pandacaqui</i> | 1 | 0 | 28 | + |
| <i>Myristica chartacea</i> | 1 | 0 | 28 | + |

| Species | No. of Trees | No.>15 cm | Basal Area | Rel. Dom. |
|---------------------------------|--------------|-----------|---------------|-----------|
| <i>Syzygium cf. curvistylum</i> | 1 | 0 | 28 | + |
| <i>Gnetum gnemon</i> | 1 | 0 | 28 | + |
| Totals | 172 | 59 | 54,966 | |

Table 2. Lowland Rainforest Vegetation - Slope Forest (320 m.a.s.l.). Plot 2, Camp 1

| Species | No. of Trees | No. > 15 cm | Basal area | Rel. Dom. |
|---------------------------------|--------------|-------------|---------------|-----------|
| <i>Aleurites moluccana</i> | 3 | 3 | 5804 | 15% |
| <i>Dillenia biflora</i> | 7 | 6 | 3895 | 10% |
| <i>Gironniera celtidifolia</i> | 38 | 4 | 3736 | 10% |
| <i>Syzygium cf. curvistylum</i> | 6 | 4 | 3401 | 9% |
| <i>Endospermum macrophyllum</i> | 3 | 2 | 3268 | 8% |
| <i>Dysoxylum richii</i> | 2 | 2 | 2139 | 5% |
| <i>Myristica castaneifolia</i> | 12 | 3 | 2001 | 5% |
| <i>Kingiodendron polycarpum</i> | 4 | 1 | 1479 | 4% |
| <i>Cerbera cf. odollam</i> | 2 | 2 | 1363 | 3% |
| <i>Veitchia vitiensis</i> | 18 | 0 | 1131 | 3% |
| <i>Garcinia myrtifolia</i> | 9 | 2 | 988 | 3% |
| <i>Aglaia sp.</i> | 5 | 2 | 959 | 2% |
| <i>Parinari insularum</i> | 3 | 1 | 902 | 2% |
| <i>Endiandra sp.?</i> | 2 | 2 | 871 | 2% |
| <i>Veitchia joannis</i> | 1 | 1 | 707 | 2% |
| <i>Annonaceae sp.</i> | 1 | 1 | 660 | 2% |
| <i>Pagiantha thurstonii</i> | 8 | 0 | 624 | 2% |
| <i>Canarium vitiensis</i> | 3 | 2 | 595 | 2% |
| <i>Elatostachys falcata</i> | 1 | 1 | 572 | 1% |
| <i>Macaranga sp.</i> | 2 | 2 | 568 | 1% |
| <i>Palaquium vitilevuense</i> | 1 | 1 | 531 | 1% |
| <i>Glochidion sp.</i> | 1 | 1 | 415 | 1% |
| <i>Cryptocarya sp.?</i> | 1 | 1 | 415 | 1% |
| <i>Endiandra elaeocarpa</i> | 3 | 1 | 362 | 1% |
| <i>Palaquium porphyreum</i> | 1 | 1 | 346 | 1% |
| <i>Ficus cf. fulvo-pilosa</i> | 3 | 1 | 295 | 1% |
| <i>Anacolosa lutea</i> | 6 | 0 | 290 | 1% |
| <i>Semecarpus vitiensis</i> | 1 | 1 | 201 | 1% |
| <i>Gnetum gnemon</i> | 2 | 0 | 177 | + |
| <i>Litsea sp. (no. 2)</i> | 2 | 0 | 171 | + |
| <i>Syzygium sp. (no. 2)</i> | 1 | 0 | 154 | + |
| <i>Cyathea alta</i> | 1 | 0 | 148 | + |
| <i>Litsea cf. mellifera</i> | 2 | 0 | 133 | + |
| <i>Antidesma sp.?</i> | 1 | 0 | 133 | + |
| <i>Dendrocnide vitiensis</i> | 1 | 0 | 133 | + |
| <i>Baccaurea sp.</i> | 3 | 0 | 126 | + |
| <i>Planchonella sp.</i> | 3 | 0 | 104 | + |
| <i>Schefflera vitiensis</i> | 1 | 0 | 95 | + |
| <i>Cynometra insularis</i> | 2 | 0 | 64 | + |
| <i>Reedia membranacea</i> | 2 | 0 | 54 | + |
| Total | 168 | 48 | 40,110 | |

Table 3. Lowland Rainforest Vegetation - Slope Forest (Secondary) (320 m). Plot 3, Camp 2

| Species | No. of Trees | No. > 15 cm | Basal Area | Rel. Dom. |
|--|---------------------|-----------------------|-------------------|------------------|
| <i>Gironniera celtidifolia</i> | 72 | 8 | 5759 | 16% |
| <i>Glochidion</i> sp. | 9 | 9 | 5235 | 14% |
| <i>Dysoxylum richii</i> | 13 | 8 | 4980 | 13% |
| <i>Elattostachys falcata</i> | 4 | 4 | 4323 | 12% |
| <i>Dysoxylum</i> sp. | 2 | 2 | 2987 | 8% |
| <i>Bischofia javanica</i> | 2 | 2 | 2846 | 8% |
| <i>Macaranga</i> sp. | 1 | 1 | 1661 | 4% |
| <i>Alangium vitiense</i> | 4 | 3 | 1399 | 4% |
| <i>Pagianta thurstonii</i> | 2 | 1 | 1055 | 3% |
| <i>Myristica castaneifolia</i> | 10 | 2 | 1038 | 3% |
| <i>Syzygium malaccense</i> | 3 | 1 | 1009 | 3% |
| <i>Cupaniopsis concolor</i> | 4 | 3 | 872 | 2% |
| <i>Ficus</i> sp. (oblique base) | 1 | 1 | 754 | 2% |
| <i>Planchonella</i> cf. <i>vitiensis</i> | 4 | 1 | 537 | 2% |
| <i>Saurauria rubicunda</i> | 4 | 1 | 498 | 2% |
| <i>Dillenia biflora</i> | 1 | 1 | 314 | 1% |
| <i>Plerandra pickeringii</i> | 1 | 1 | 254 | 1% |
| <i>Semecarpus vitiensis</i> | 2 | 0 | 246 | 1% |
| <i>Cyathea hornei</i> | 8 | 0 | 232 | 1% |
| <i>Citrus maxima</i> | 1 | 1 | 201 | 1% |
| <i>Litsea</i> cf. <i>mellifera</i> | 1 | 1 | 201 | 1% |
| <i>Cyathea lunulata</i> | 1 | 0 | 154 | + |
| <i>Ficus</i> sp. | 1 | 0 | 133 | + |
| <i>Endiandra elaeocarpa</i> | 1 | 0 | 133 | + |
| <i>Garcinia pseudoguttifera</i> | 2 | 0 | 92 | + |
| <i>Syzygium</i> sp. (big leaf) | 2 | 0 | 76 | + |
| <i>Ficus vitiensis</i> | 2 | 0 | 58 | + |
| <i>Aglaiia</i> sp. | 1 | 0 | 50 | + |
| <i>Melochia</i> cf. <i>vitiensis</i> | 1 | 0 | 38 | + |
| <i>Calycosia petiolata</i> | 1 | 0 | 28 | + |
| Total | 161 | 51 | 36,963 | |

Table 4. Lowland Rainforest Vegetation - Ridge Forest (440 m). Plot 4, Camp 2

| Species | No. of Trees | No. > 15 cm | Basal Area | Rel. Dom. |
|--|--------------|-------------|------------|-----------|
| <i>Parinari insularum</i> | 20 | 11 | 9466 | 21% |
| <i>Dysoxylum richii</i> | 4 | 3 | 4534 | 10% |
| <i>Syzygium cf. curvistylum</i> | 2 | 1 | 3310 | 7% |
| <i>Pagiantha thurstonii</i> | 11 | 6 | 2462 | 6% |
| <i>Myristica castaneifolia</i> | 11 | 5 | 2193 | 5% |
| <i>Dillenia biflora</i> | 7 | 3 | 1870 | 4% |
| <i>Endiandra elaeocarpa</i> | 3 | 1 | 1727 | 4% |
| <i>Elaeocarpus cf. chelonimorphus</i> | 3 | 3 | 1704 | 4% |
| <i>Veitchia vitiensis</i> | 35 | 0 | 1690 | 4% |
| <i>Pterocymbium oceanicum</i> | 2 | 2 | 1671 | 4% |
| <i>Hernandia olivacea</i> | 4 | 2 | 1502 | 4% |
| <i>Planchonella vitiensis</i> | 6 | 2 | 1154 | 3% |
| <i>Heritiera ornithocephala</i> | 2 | 1 | 1130 | 3% |
| <i>Endiandra sp.</i> | 11 | 1 | 917 | 2% |
| <i>Garcinia myrtifolia</i> | 3 | 1 | 874 | 2% |
| <i>Gironniera celtidifolia</i> | 16 | 0 | 654 | 1% |
| <i>Vavaea amicorum</i> | 3 | 2 | 624 | 1% |
| <i>Gnetum gnemon</i> | 8 | 1 | 584 | 1% |
| <i>Cyathea lunulata</i> | 2 | 1 | 579 | 1% |
| Indet. (cupule) | 3 | 1 | 547 | 1% |
| <i>Elatostachys falcata</i> | 1 | 1 | 415 | 1% |
| <i>Syzygium sp.</i> (big leaf) | 1 | 1 | 415 | 1% |
| <i>Canarium harveyi</i> | 3 | 1 | 374 | 1% |
| <i>Cyathea alta</i> | 7 | 0 | 339 | 1% |
| <i>Dysoxylum sp.</i> | 1 | 0 | 314 | 1% |
| <i>Geisssois ternata</i> | 1 | 1 | 283 | 1% |
| <i>Kingiodendron polycarpum</i> | 3 | 0 | 368 | 1% |
| <i>Baccaurea pulvinata</i> | 5 | 0 | 255 | 1% |
| <i>Elaeocarpus sp.</i> (narrow leaves) 1 | 1 | 1 | 254 | 1% |
| <i>Ficus sp.</i> (small leaf) | 1 | 0 | 227 | 1% |
| <i>Harpullia arborea</i> | 2 | 1 | 215 | + |
| <i>Aglaiia sp.</i> | 1 | 0 | 201 | + |
| <i>Palaquium sp.</i> | 1 | 0 | 154 | + |
| <i>Viticipremna vitilevuensis</i> | 1 | 0 | 133 | + |
| <i>Pittosporum rhytidocarpum</i> | 2 | 0 | 129 | + |
| <i>Garcinia pseudoguttifera</i> | 4 | 0 | 128 | + |
| <i>Cyathocalyx sp.</i> | 2 | 0 | 126 | + |
| <i>Syzygium sp.</i> ("dravu") | 3 | 0 | 108 | + |
| <i>Litsea cf. mellifera</i> | 2 | 0 | 102 | + |
| <i>Calycosia petiolata</i> | 3 | 0 | 98 | + |
| <i>Saurauria rubicunda</i> | 1 | 0 | 95 | + |
| <i>Garcinia sp.</i> (no. 4) | 1 | 0 | 95 | + |
| <i>Cyathea hornei</i> | 3 | 0 | 94 | + |
| <i>Haplolobus floribundus</i> | 1 | 0 | 79 | + |
| <i>Melochia cf. vitiensis</i> | 1 | 0 | 64 | + |
| <i>Alangium vitiense</i> | 1 | 0 | 50 | + |
| <i>Ficus fulvo-pilosa</i> | 1 | 0 | 38 | + |

| Species | No. of Trees | No. > 15 cm | Basal Area | Rel. Dom. |
|----------------------------|--------------|-------------|---------------|-----------|
| <i>Inocarpus fagifer</i> | 1 | 0 | 38 | + |
| <i>Syzygium smithii</i> | 1 | 0 | 28 | + |
| <i>Myristica chartacea</i> | 1 | 0 | 28 | + |
| Total | 213 | 53 | 44,339 | |

Table 5. Lowland Rainforest Vegetation – Dakua Forest (Primary)(425 m). Plot 5, Camp 1

| Species | No. of Trees | No. > 15 cm | Basal Area | Rel. Dom. |
|------------------------------------|--------------|-------------|------------|-----------|
| <i>Agathis macrophylla</i> | 2 | 2 | 18278 | 32% |
| <i>Geissois ternata</i> | 2 | 2 | 4238 | 7% |
| <i>Metrosideros collina</i> | 4 | 4 | 3826 | 7% |
| <i>Myristica castaneifolia</i> | 9 | 3 | 2998 | 5% |
| <i>Elattostachys falcata</i> | 6 | 4 | 2885 | 5% |
| <i>Trichospermum calyculatum</i> | 1 | 1 | 2375 | 4% |
| <i>Dysoxylum</i> sp. | 7 | 4 | 2087 | 4% |
| <i>Plerandra vitiensis</i> | 1 | 1 | 1963 | 3% |
| <i>Aglaia</i> sp. | 8 | 4 | 1698 | 3% |
| <i>Planchonella vitiensis</i> | 2 | 2 | 1674 | 3% |
| <i>Baccaurea pulvinata</i> | 24 | 2 | 1537 | 3% |
| <i>Veitchia vitiensis</i> | 21 | 0 | 1467 | 3% |
| <i>Dillenia biflora</i> | 6 | 3 | 1420 | 3% |
| <i>Pterocymbium oceanicum</i> | 2 | 2 | 1031 | 2% |
| <i>Endiandra elaeocarpa</i> | 6 | 0 | 748 | 1% |
| <i>Rapanea</i> sp.? | 7 | 0 | 660 | 1% |
| <i>Plerandra pickeringii</i> | 3 | 1 | 650 | 1% |
| <i>Syzygium</i> sp. (no. 3) | 4 | 1 | 627 | 1% |
| <i>Planchonella</i> sp. | 7 | 2 | 598 | 1% |
| <i>Endospermum macrophyllum</i> | 1 | 1 | 572 | 1% |
| <i>Alangium vitiense</i> | 5 | 1 | 524 | 1% |
| <i>Terminalia</i> sp. | 2 | 2 | 523 | 1% |
| <i>Myristica chartacea</i> | 4 | 1 | 441 | 1% |
| <i>Pagiantha thurstonii</i> | 4 | 1 | 372 | 1% |
| <i>Cyathea lunulata</i> | 2 | 2 | 367 | 1% |
| <i>Syzygium</i> sp. (no. 4) | 1 | 1 | 314 | 1% |
| <i>Elaeocarpus</i> sp. | 2 | 1 | 274 | + |
| <i>Hernandia olivacea</i> | 1 | 1 | 254 | + |
| <i>Parinari insularum</i> | 5 | 0 | 245 | + |
| <i>Cynometra insularis</i> | 3 | 0 | 242 | + |
| <i>Cryptocarya</i> sp. | 2 | 0 | 233 | + |
| Indet. (cupule) | 2 | 1 | 229 | + |
| <i>Gironniera celtidifolia</i> | 2 | 1 | 197 | + |
| <i>Pleiogynium timoriense</i> | 4 | 0 | 189 | + |
| <i>Gnetum gnemon</i> | 6 | 0 | 182 | + |
| <i>Cyathea hornei</i> | 7 | 0 | 172 | + |
| Indet. cf. <i>Casearia</i> | 3 | 0 | 135 | + |
| <i>Litsea</i> cf. <i>mellifera</i> | 1 | 0 | 133 | + |
| <i>Cyathocalyx</i> sp.? | 1 | 0 | 133 | + |
| <i>Kingiodendron polycarpum</i> | 3 | 0 | 120 | + |

| Species | No. of Trees | No. > 15 cm | Basal Area | Rel. Dom. |
|----------------------------------|---------------------|-----------------------|-------------------|------------------|
| <i>Garcinia myrtifolia</i> | 2 | 0 | 84 | + |
| <i>Planchonella</i> sp. (no. 1) | 2 | 0 | 70 | + |
| <i>Calophyllum vitiense</i> | 2 | 0 | 66 | + |
| <i>Buchanania attenuata</i> | 1 | 0 | 64 | + |
| <i>Anacolosa lutea</i> | 1 | 0 | 64 | + |
| <i>Crossostylis seemannianus</i> | 1 | 0 | 50 | + |
| <i>Syzygium</i> sp. no. 5 | 1 | 0 | 50 | + |
| <i>Calophyllum neo-ebudicum</i> | 1 | 0 | 50 | + |
| <i>Turrillia vitiensis</i> | 1 | 0 | 50 | + |
| <i>Decaspermum vitiense</i> | 1 | 0 | 50 | + |
| <i>Dendrocnide vitiense</i> | 1 | 0 | 28 | + |
| <i>Psychotria</i> sp. | 1 | 0 | 28 | + |
| <i>Syzygium</i> sp. (no. 6) | 1 | 0 | 28 | + |
| <i>Macaranga</i> sp. | 1 | 0 | 20 | + |
| Indet. (aqueous veins) | 1 | 0 | 20 | + |
| <i>Geniostoma</i> sp. | 1 | 0 | 20 | + |
| Total | 162 | 51 | 56,683 | |