

Appendix 1. Estimated Sediment Loads

Appendix 1. Estimated sediment loads (tonnes) over one year (14 replicates) for the fore reef slope in Asan. The watershed estimate is for the fore reef slope within the Asan sub-watershed (Sites G-V). See Chapter 6 for a discussion of the methods used to arrive at these estimates.

| | Site | Rep. missing | Compartment Area (m²) | Terrestrial Sediments (tonnes) |
|---|-------------|-------------------------|---|---|
| A | 10 m | 7 | 28508.2 | 502.4 |
| | 20 m | 2 | 20611.1 | 410.6 |
| B | 10 m | 3 | 28845.6 | 1100.3 |
| | 20 m | 3 | 13189.9 | 558.2 |
| C | 10 m | 7 | 26903.4 | 147.8 |
| | 20 m | 4 | 16414.7 | 162.4 |
| D | 10 m | 3 | 35202.3 | 2573.3 |
| | 20 m | 2 | 16335.5 | 286.7 |
| E | 10 m | 2 | 28911.4 | 2256.0 |
| | 20 m | 2 | 17420.5 | 191.6 |
| F | 10 m | 7 | 23812.7 | 847.4 |
| | 20 m | 2 | 15636.5 | 396.1 |
| G | 10 m | 4 | 34293.6 | 505.8 |
| | 20 m | 2 | 20491.1 | 243.1 |
| H | 10 m | 5 | 43596.7 | 288.7 |
| | 20 m | 4 | 31692.9 | 259.6 |
| I | 10 m | 9 | 34404.3 | 53.2 |
| | 20 m | 5 | 46535.2 | 319.8 |
| J | 10 m | 6 | 29361.7 | 650.1 |
| | 20 m | 3 | 24581.4 | 474.6 |
| K | 10 m | 5 | 24806.5 | 503.2 |
| | 20 m | 2 | 13366.3 | 187.8 |
| L | 10 m | 6 | 21453.9 | 690.9 |
| | 20 m | 1 | 13047.5 | 634.9 |
| M | 10 m | 1 | 15358.2 | 1642.5 |
| | 20 m | 2 | 26286.4 | 2428.4 |
| N | 10 m | 3 | 9977.2 | 892.8 |
| | 20 m | 0 | 20060.1 | 1581.8 |

Appendix 1. (continued)

| | Site | Rep. missing | Compartment Area (m²) | Terrestrial Sediments (tonnes) |
|------------------|-------------|-------------------------|---|---|
| O | 10 m | 1 | 33726.0 | 3242.2 |
| | 20 m | 2 | 21724.1 | 6344.3 |
| P | 10 m | 7 | 24612.7 | 108.6 |
| | 20 m | 2 | 11491.5 | 793.7 |
| Q | 10 m | 2 | 22676.8 | 331.4 |
| | 20 m | 3 | 12751.3 | 487.1 |
| R | 10 m | 2 | 27384.1 | 553.0 |
| | 20 m | 3 | 15283.4 | 240.5 |
| S | 10 m | 1 | 38430.0 | 604.1 |
| | 20 m | 0 | 15056.4 | 145.3 |
| T | 10 m | 0 | 30626.8 | 271.0 |
| | 20 m | 1 | 13560.5 | 135.8 |
| U | 10 m | 2 | 31632.2 | 267.3 |
| | 20 m | 2 | 13305.0 | 99.2 |
| V | 10 m | 10 | 23893.0 | 37.3 |
| | 20 m | 2 | 15209.5 | 202.9 |
| W | 10 m | 7 | 30591.6 | 174.5 |
| | 20 m | 2 | 24606.4 | 222.1 |
| X | 10 m | 4 | 19787.4 | 220.7 |
| | 20 m | 2 | 27428.3 | 205.8 |
| Y | 10 m | 1 | 26777.3 | 267.5 |
| | 20 m | 1 | 30107.9 | 336.4 |
| Total | | | 1191767.1 | 36080.7 |
| Watershed | | | 760676.4 | 25220.8 |

Appendix 2. Status of Plants

Appendix 2. The status of plants observed in vegetation plots, including notes on their known synonyms, taxonomy, and origin.

| SCIENTIFIC NAME | SYNONYMS | ORIGIN | FAMILY | HABIT |
|--------------------------------|--|--|----------------|-------|
| <i>Pennisetum polystachion</i> | <i>Pennisetum setosum</i> , <i>Cenchrus setosus</i> <i>Panicum polystachion</i> , <i>Panicum polystachion</i> | Tropical Africa to India now rather commonly introduced in warm regions | Poaceae | Grass |
| <i>Bothriochloa bladhii</i> | <i>Andropogon bladhii</i> , <i>A. intermedius</i> , <i>Andropogon haenkei</i> , <i>Andropogon glaber</i> , <i>Bothriochloa caucasica</i> , <i>B. intermedia</i> , <i>B. haenkei</i> , <i>B. glabra</i> , <i>B. glabra</i> ssp. <i>Haenkei</i> <i>Dichanthium intermedium</i> , | Tropical Africa through India to China and Australia. | Poaceae | Grass |
| <i>Chromolaena odorata</i> | <i>Eupatorium odoratum</i> | Tropical America, but common in many tropical regions as a weed | Asteraceae | Shrub |
| <i>Hyptis capitata</i> | N/A | Central America from southern Mexico to Panama, now widespread as a weed. | Lamiaceae | Herb |
| <i>Rhynchospora rubra</i> | <i>Schoenus ruber</i> , <i>R. wallichiana</i> | Tropical America, Indomalaysia, S. Japan, and the Pacific, incl. N. Australia | Cyperaceae | Herb |
| <i>Curculigo orchioides</i> | | Native. Widely distributed from India to Malaysia | Hypoxidaceae | Herb |
| <i>Elephantopus mollis</i> | <i>E. scaber</i> | Native of Tropical America | Asteraceae | Herb |
| <i>Passiflora foetida</i> | <i>Passiflora edulis</i> | Native of Tropical America now a pantropical weed | Passifloraceae | Vine |
| <i>Dicranopteris linearis</i> | <i>Gleichenia linearis</i> | Indigenous; pantropical | Gleicheniaceae | Fern |
| <i>Ipomea littoralis</i> | <i>I. denticulata</i> , <i>I. choisyana</i> , <i>I. gracilis</i> | Malaysia, Pacific: <i>I. gracilis</i> according to Fosberg confined to N. Australia | Convolvulaceae | Vine |
| <i>Ipomoea triloba</i> | <i>I. mariannensis</i> | Native of Tropical America | Convolvulaceae | Vine |

Appendix 2. (continued)

| SCIENTIFIC NAME | SYNONYMS | ORGIN | FAMILY | HABIT |
|--------------------------------|---|--|-----------------|--------------|
| <i>Fimbristylis dichotoma</i> | <i>Scirpus dichotomus</i> , <i>F. diphyll</i> : Over 400 synonyms | Pantropical, and in many warm temperate regions. | Cyperaceae | Herb |
| <i>Fimbristylis tristachya</i> | <i>F. mariana</i> , <i>F. maxima</i> , <i>F. marianna</i> <i>F. schoenoides</i> var. <i>foenea</i> | Malaysia, Australia | Cyperaceae | Herb |
| <i>Scleria polycarpa</i> | <i>S. margaritifera</i> | Malaysia, N. Australia, Polynesia | Cyperaceae | Herb |
| <i>Dimeria chloridiformis</i> | <i>Andropogon chloridiformis</i> , <i>Haplanche pilosissima</i> , <i>Dimeria pilosissima</i> | Endemic | Poaceae | Grass |
| <i>Paspalum orbiculare</i> | <i>Paspalum scrobiculatum</i> var. <i>obiculare</i> <i>Paspalum cartilagineum</i> | Malaysia to Polynesia. Possibly native in Guam | Poaceae | Grass |
| <i>Sporobolous fertilis</i> | <i>Agrostis fertilis</i> , <i>Agrostis indica</i> , <i>Sporobolus elongatus</i> , <i>Sporobolus indicus</i> | Native of Austronesia (Australia to Malaya, part of Polynesia) | Poaceae | Grass |
| <i>Lindsea ensifolia</i> | N/A | Indigenous; paleotropical | Pteridaceae | Fern |
| <i>Casuarina equisetifolia</i> | <i>Casuarina litorea</i> L. var. <i>litorea</i> , <i>Casuarina littorea</i> | Australia and into Melanesia Micronesia and Polynesia Probably an ancient introduction to Polynesia Either native to Melanesia and Micronesia or an early introduction. | Casuarinaceae | Tree |
| <i>Glochidion marianum</i> | <i>Phyllanthus gaudichaudii</i> M.A. var. <i>marianus</i> | Endemic | Euphorbiaceae | Shrub |
| <i>Alysicarpus vaginalis</i> | <i>A. nummularifolius</i> | Tropics of the Old World, now adventive in many tropical countries | Fabaceae | Herb |
| <i>Crotalaria retusa</i> | N/A | Uncertain, possibly Asiatic orgin | Fabaceae | Herb |
| <i>Leucaena leucocephala</i> | <i>Leucaena glauca</i> | Tropical America, but through introductions now virtually pan-tropical. Widely planted and seeded in Micronesia. | Fabaceae | Tree |
| <i>Mimosa pudica</i> | | First described from Brazil, now a pan-tropical weed. | Fabaceae | Herb |
| <i>Flagellaria indica</i> | N/A | Paleotropics | Flagellariaceae | Vine |

Appendix 2. (continued)

| SCIENTIFIC NAME | SYNONYMS | ORGIN | FAMILY | HABIT |
|-----------------------------------|------------------------------|--|---------------|--------------|
| <i>Psidium guajava</i> | N/A | Native of Tropical America | Myraceae | Tree |
| <i>Arundina graminifolia</i> | | | Orchidiaceae | |
| <i>Polygala paniculata</i> | N/A | Panpaleotropical; Possibly native in Guam | Polygalaceae | Herb |
| <i>Morinda citrifolia</i> | N/A | Widespread & Native, or often planted throughout Tropical Asia & Pacific | Rubiaceae | Tree |
| <i>Lygodium microphyllum</i> | | | | |
| <i>Waltheria indica</i> L. | N/A | Pantropical Weed. | Sterculiaceae | Fern |
| <i>Stachytarpheta jamaicensis</i> | <i>Stachytarpheta indica</i> | Tropical American, now pantropical, weed/ | Verbenaceae | Herb |

Appendix 3. Plant Checklist

Appendix 3. Checklist of plants found in all vegetation plots.

| | Grass-1 | Grass-2 | Grass-3 | Grass-4 | Bad-1 | Bad-2 | Bad-3 |
|--|---------|---------|---------|---------|-------|-------|-------|
| AMARYLLIDACEAE | | | | | | | |
| <i>Curculigo orchioides</i> Gaertn. | X | X | X | | | | |
| ASTERACEAE | | | | | | | |
| <i>Chromolaena odorata</i> (L.) King & H.E. Robins | | X | X | | | | |
| <i>Elephantopus mollis</i> Kunth | | | X | | | | |
| PASSIFLORACEAE | | | | | | | |
| <i>Passiflora foetida</i> L. | | | | | | | |
| GLEICHENIACEAE | | | | | | | |
| <i>Dicranopteris linearis</i> (Burm.) Underwood | | | | | X | | |
| CONVOLVULACEAE | | | | | | | |
| <i>Ipomoea littoralis</i> Blume | X | | X | | | | |
| <i>Ipomoea triloba</i> L. | | | | | | | |
| CYPERACEAE | | | | | | | |
| <i>Fimbristylis dichotoma</i> (L.) Vahl | X | X | | | | | |
| <i>Fimbristylis tristachya</i> R.Br. | X | X | X | | | | |
| <i>Rhynchospora ruba</i> Domin. | | X | X | | | | |
| <i>Scleria polycarpa</i> Boeck. | X | X | | X | | | |

Appendix 3. (continued)

| | Grass-1 | Grass-2 | Grass-3 | Grass-4 | Bad-1 | Bad-2 | Bad-3 |
|---|---------|---------|---------|---------|-------|-------|-------|
| POACEAE | | | | | | | |
| <i>Dicanthium bladhii</i> (Retz.) Clayton | | X | X | X | | | X |
| <i>Dimeria chloridiformis</i> (Gaud.)K. Schum. & Lauterb. | | X | X | | X | X | X |
| <i>Pennisetum polystachion</i> (L.) J.A. Schultes | X | X | X | X | | | X |
| <i>Paspalum orbiculare</i> | X | | | | | | |
| <i>Sporobolous fertilis</i> | X | X | X | X | | | |
| <i>Lindsea ensifolia</i> | | X | X | | | | |
| CASUARINACEAE | | | | | | | |
| <i>Casuarina equisetifolia</i> L. | | | X | | | | |
| EUPHORBIACEAE | | | | | | | |
| <i>Glocidion marianum</i> Mueller-Arg., L. | X | | | | | | |
| FABACEAE | | | | | | | |
| <i>Alysicarpus vaginalis</i> (L.) D.C. | | | | X | | | |
| <i>Crotalaria retusa</i> | X | | | | | | |
| <i>Leucaena leucocephala</i> (Lam.) deWit | | | | X | | | |
| <i>Mimosa pudica</i> L. | | | | | | | |
| FLAGELLARIACEAE | | | | | | | |
| <i>Flagellaria indica</i> L. | | | | | | | |
| LAMNIACEAE | | | | | | | |
| <i>Hyptis capitata</i> Jacq. | X | X | X | X | | | |
| MYRTACEAE | | | | | | | |
| <i>Psidium guajava</i> L. | | | | X | | | |

Appendix 3. (continued)

| | Grass-1 | Grass-2 | Grass-3 | Grass-4 | Bad-1 | Bad-2 | Bad-3 |
|--|---------|---------|---------|---------|-------|-------|-------|
| ORCHIDACEAE | | | | | | | |
| <i>Arundina graminifolia</i> (D.Don) Hochr. | X | X | X | | | | |
| POLYGALACEAE | | | | | | | |
| <i>Polygala paniculata</i> (L.) J.A. Schultz | X | X | X | | | | X |
| PASSIFLORACEAE | | | | | | | |
| <i>Passiflora foetida</i> L. | | | | X | | | |
| RUBIACEAE | | | | | | | |
| <i>Morinda citrifolia</i> L. | | | | | | | X |
| SCHIZIACEAE | | | | | | | |
| <i>Lygodium microphyllum</i> | | X | | | | | |
| STERCULIACEAE | | | | | | | |
| <i>Waltheria indica</i> L. | | | X | X | | | |
| VERBENACEAE | | | | | | | |
| <i>Stachytarpheta jamaicensis</i> (L.) Vahl | X | | X | X | | | |

Appendix 3. (continued)

| | Fern-1 | Fern-2 | Fern-3 | Fern-4 | Burn-1 | Burn-2 | Burn-3 |
|--|--------|--------|--------|--------|-------------|--------|--------|
| AMARYLLIDACEAE <i>Curculigo orchioides</i> Gaertn. | | | | | | | |
| ASTERACEAE <i>Chromolaena odorata</i> (L.) King & H.E. Robins <i>Elephantopus mollis</i> Kunth | | | | | | | X |
| PASSIFLORACEAE <i>Passiflora foetida</i> L. | | | | | | | |
| GLEICHENIACEAE <i>Dicranopteris linearis</i> (Burm.) Underwood | X | X | X | X | | | |
| CONVOLVULACEAE <i>Ipomoea littoralis</i> Blume <i>Ipomoea triloba</i> L. | | | | | | | |
| CYPERACEAE <i>Fimbristylis dichotoma</i> (L.) Vahl <i>Fimbristylis tristachya</i> R.Br. <i>Rhynchospora ruba</i> Domin. <i>Scleria polycarpa</i> Boeck. | X | | | X X | X X X | X X | X X |

Appendix 3. (continued)

| | Fern-1 | Fern-2 | Fern-3 | Fern-4 | Burn-1 | Burn-2 | Burn-3 |
|---|--------|--------|--------|--------|--------|--------|--------|
| POACEAE | | | | | | | |
| <i>Dicanthium bladhii</i> (Retz.) Clayton | | | | | X | X | X |
| <i>Dimeria chloridiformis</i> (Gaud.)K. Schum. & Lauterb. | X | | X | | | | |
| <i>Pennisetum polystachion</i> (L.) J.A. Schultes | X | X | X | X | X | | X |
| <i>Paspalum orbiculare</i> | | | | | X | | |
| <i>Sporobolous fertilis</i> | | | | | | | X |
| <i>Lindsea ensifolia</i> | | | | | | | |
| CASUARINACEAE | | | | | | | |
| <i>Casuarina equisetifolia</i> L. | | | | X | | | |
| EUPHORBIACEAE | | | | | | | |
| <i>Glocidion marianum</i> Mueller-Arg., L. | | | X | | | | |
| FABACEAE | | | | | | | |
| <i>Alysicarpus vaginalis</i> (L.) D.C. | | | | | | X | X |
| <i>Crotalaria retusa</i> | | | | | | | X |
| <i>Leucaena leucocephala</i> (Lam.) deWit | | | | | | | |
| <i>Mimosa pudica</i> L. | | | | | | X | |
| FLAGELLARIACEAE | | | | | | | |
| <i>Flagellaria indica</i> L. | | X | | | | | |
| LAMNIACEAE | | | | | | | |
| <i>Hyptis capitata</i> Jacq. | | | | X | X | X | X |
| MYRTACEAE | | | | | | | |
| <i>Psidium guajava</i> L. | | | | | | | |

Appendix 3. (continued)

| | Fern-1 | Fern-2 | Fern-3 | Fern-4 | Burn-1 | Burn-2 | Burn-3 |
|--|--------|--------|--------|--------|--------|--------|--------|
| ORCHIDACEAE | | | | | | | |
| <i>Arundina graminifolia</i> (D.Don) Hochr. | X | X | X | X | | | |
| POLYGALACEAE | | | | | | | |
| <i>Polygala paniculata</i> (L.) J.A. Schultz | | | | | | X | |
| PASSIFLORACEAE | | | | | | | |
| <i>Passiflora foetida</i> L. | | | | | | X | X |
| RUBIACEAE | | | | | | | |
| <i>Morinda citrifolia</i> L. | | | | | | | |
| SCHIZIACEAE | | | | | | | |
| <i>Lygodium microphyllum</i> | | X | | | | | |
| STERCULIACEAE | | | | | | | |
| <i>Waltheria indica</i> L. | | | | X | | X | |
| VERBENACEAE | | | | | | | |
| <i>Stachytarpheta jamaicensis</i> (L.) Vahl | | X | | X | X | X | X |

Appendix 4. Plant Biomass

Appendix 4. Plant biomass of all species collected in vegetation plots. Two quadrats (A & B) were collected for each vegetation plot. Data is expressed as g/m².

| Species | Native | Grass 1A | Grass1B | Grass2A | Grass 2B |
|-----------------------------------|--------|-----------------|----------------|----------------|-----------------|
| <i>Centosteca lappacea</i> | yes | 40.67 | 38.73 | 46.21 | 0.00 |
| <i>Dichanthium bladhii</i> | no | 400.00 | 380.95 | 0.00 | 0.00 |
| <i>Dimeria chioridiformis</i> | yes | 0.00 | 0.00 | 923.81 | 538.10 |
| <i>Pennisetum polystachion</i> | no | 1123.81 | 1070.29 | 0.00 | 0.00 |
| POACEAE #1 | ? | 0.00 | 0.00 | 10.29 | 16.64 |
| POACEAE #2 | ? | 0.00 | 0.00 | 29.24 | 17.30 |
| CYPERACEAE | ? | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Fimbristylis dichotoma</i> | no | 8.29 | 7.89 | 0.00 | 0.00 |
| <i>Fimbristylis tristachya</i> | no | 0.00 | 0.00 | 219.05 | 723.81 |
| <i>Rhyncospora ruba</i> | no | 0.00 | 0.00 | 814.29 | 0.00 |
| <i>Alysicarpus vanginalis</i> | no | 0.00 | 0.00 | 0.00 | 6.19 |
| <i>Chromalena odorata</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Curculigo orchioides</i> | yes | 0.00 | 0.00 | 1.27 | 0.86 |
| <i>Hyptis capitata</i> | no | 9.51 | 9.06 | 9.05 | 20.67 |
| <i>Mimosa pudica</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Stachytarpheta jamaicensis</i> | yes | 4.10 | 3.90 | 7.90 | 5.78 |
| <i>Timonius mollis</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Waltheria indica</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Arudina graminifolia</i> | no | 51.14 | 48.71 | 1.43 | 0.00 |
| <i>Cassytha filiformis</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Dicranopteris linearis</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Lindsaea ensifolia</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL WEIGHT | | 1637.51 | 1559.54 | 2062.52 | 1329.33 |
| SPECIES PRESENT | | 7 | 7 | 10 | 8 |
| Veg Type | | Grass 1A | Grass1B | Grass2A | Grass 2B |
| Native | | 44.76 | 42.63 | 979.19 | 544.73 |
| Non-native | | 1584.47 | 1509.02 | 10.48 | 26.86 |
| Unknown | | 8.29 | 7.89 | 1072.86 | 757.74 |

Appendix 4. (continued)

| Species | Native | Grass 3A | Grass 3B | Grass 4A | Grass 4B |
|-----------------------------------|---------------|-----------------|-----------------|-----------------|-----------------|
| <i>Centosteca lappacea</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Dichanthium bladhii</i> | no | 80.00 | 24.76 | 224.76 | 229.52 |
| <i>Dimeria chioridiformis</i> | yes | 3.81 | 47.62 | 0.00 | 0.00 |
| <i>Pennisetum polystachion</i> | no | 119.05 | 7.62 | 0.00 | 0.00 |
| POACEAE #1 | ? | 64.76 | 29.52 | 0.00 | 0.00 |
| POACEAE #2 | ? | 0.00 | 18.10 | 0.00 | 0.00 |
| CYPERACEAE | ? | 160.00 | 40.00 | 0.00 | 0.00 |
| <i>Fimbristylis dichotoma</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Fimbristylis tristachya</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Rhynchospora ruba</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Alysicarpus vanginalis</i> | no | 0.00 | 0.00 | 0.00 | 6.67 |
| <i>Chromalena odorata</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Curculigo orchioides</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Hyptis capitata</i> | no | 20.95 | 0.00 | 0.00 | 0.00 |
| <i>Mimosa pudica</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Stachytarpheta jamaicensis</i> | yes | 0.00 | 0.00 | 0.00 | 89.52 |
| <i>Timonius mollis</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Waltheria indica</i> | yes | 0.00 | 0.00 | 0.00 | 3.81 |
| <i>Arudina graminifolia</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Cassytha filiformis</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Dicranopteris linearis</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Lindsaea ensifolia</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL WEIGHT | | 448.57 | 167.62 | 224.76 | 329.52 |
| SPECIES PRESENT | | 6 | 6 | 1 | 4 |
| Veg Type | | Grass 3A | Grass 3B | Grass 4A | Grass 4B |
| Native | | 3.81 | 47.62 | 0.00 | 93.33 |
| Non-native | | 220.00 | 32.38 | 224.76 | 236.19 |
| Unknown | | 224.76 | 87.62 | 0.00 | 0.00 |

Appendix 4. (continued)

| Species | Native | Burn 1A | Burn 1B | Burn 2A | Burn 2B |
|-----------------------------------|---------------|----------------|----------------|----------------|----------------|
| <i>Centosteca lappacea</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Dichanthium bladhii</i> | no | 300.95 | 182.86 | 204.76 | 180.95 |
| <i>Dimeria chioridiformis</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Pennisetum polystachion</i> | no | 53.33 | 0.00 | 0.00 | 0.00 |
| POACEAE #1 | ? | 0.00 | 0.00 | 3.81 | 1.90 |
| POACEAE #2 | ? | 0.00 | 0.00 | 0.00 | 0.00 |
| CYPERACEAE | ? | 0.00 | 0.00 | 647.62 | 51.43 |
| <i>Fimbristylis dichotoma</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Fimbristylis tristachya</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Rhyncospora ruba</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Alysicarpus vanginalis</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Chromalena odorata</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Curculigo orchioides</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Hyptis capitata</i> | no | 9.52 | 2.86 | 9.52 | 12.38 |
| <i>Mimosa pudica</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Stachytarpheta jamaicensis</i> | yes | 0.95 | 0.95 | 0.00 | 0.00 |
| <i>Timonius mollis</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Waltheria indica</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Arudina graminifolia</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Cassytha filiformis</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Dicranopteris linearis</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Lindsaea ensifolia</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL WEIGHT | | 364.76 | 186.67 | 865.71 | 246.67 |
| SPECIES PRESENT | | 4 | 3 | 4 | 4 |
| Veg Type | | Burn 1A | Burn 1B | Burn 2A | Burn 2B |
| Native | | 0.95 | 0.95 | 0.00 | 0.00 |
| Non-native | | 363.81 | 185.71 | 214.29 | 193.33 |
| Unknown | | 0.00 | 0.00 | 651.43 | 53.33 |

Appendix 4. (continued)

| Species | Native | Burn 3A | Burn 3B |
|-----------------------------------|---------------|----------------|----------------|
| <i>Centosteca lappacea</i> | yes | 97.14 | 61.90 |
| <i>Dichanthium bladhii</i> | no | 447.62 | 628.57 |
| <i>Dimeria chioridiformis</i> | yes | 0.00 | 0.00 |
| <i>Pennisetum polystachion</i> | no | 0.00 | 0.00 |
| POACEAE #1 | ? | 2.98 | 0.00 |
| POACEAE #2 | ? | 0.00 | 0.00 |
| CYPERACEAE | ? | 0.00 | 0.00 |
| <i>Fimbristylis dichotoma</i> | no | 5.14 | 9.01 |
| <i>Fimbristylis tristachya</i> | no | 0.00 | 0.00 |
| <i>Rhyncospora ruba</i> | no | 0.00 | 0.00 |
| <i>Alysicarpus vaginalis</i> | no | 0.95 | 1.14 |
| <i>Chromalena odorata</i> | no | 0.95 | 1.71 |
| <i>Curculigo orchioides</i> | yes | 1.25 | 0.00 |
| <i>Hyptis capitata</i> | no | 409.52 | 219.05 |
| <i>Mimosa pudica</i> | no | 0.00 | 0.00 |
| <i>Stachytarpheta jamaicensis</i> | yes | 0.00 | 0.00 |
| <i>Timonius mollis</i> | yes | 0.00 | 0.00 |
| <i>Waltheria indica</i> | yes | 0.00 | 0.00 |
| <i>Arudina graminifolia</i> | no | 0.00 | 0.00 |
| <i>Cassytha filiformis</i> | no | 0.00 | 0.00 |
| <i>Dicranopteris linearis</i> | yes | 0.00 | 0.00 |
| <i>Lindsaea ensifolia</i> | yes | 0.00 | 0.00 |
| TOTAL WEIGHT | | 965.56 | 921.39 |
| SPECIES PRESENT | | 8 | 6 |
| Veg Type | | Burn 3A | Burn 3B |
| Native | | 98.39 | 61.90 |
| Non-native | | 858.10 | 848.76 |
| Unknown | | 9.08 | 10.72 |

Appendix 4. (continued)

| Species | Native | Fern 1A | Fern 1B | Fern 2A | Fern 2B |
|-----------------------------------|---------------|----------------|----------------|----------------|----------------|
| <i>Centosteca lappacea</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Dichanthium bladhii</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Dimeria chioridiformis</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Pennisetum polystachion</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| POACEAE #1 | ? | 0.00 | 0.00 | 0.00 | 0.00 |
| POACEAE #2 | ? | 0.00 | 0.00 | 0.00 | 0.00 |
| CYPERACEAE | ? | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Fimbristylis dichotoma</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Fimbristylis tristachya</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Rhyncospora ruba</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Alysicarpus vanginalis</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Chromalena odorata</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Curculigo orchioides</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Hypis capitata</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Mimosa pudica</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Stachytarpheta jamaicensis</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Timonius mollis</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Waltheria indica</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Arudina graminifolia</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Cassytha filiformis</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Dicranopteris linearis</i> | yes | 1145.71 | 881.90 | 1052.38 | 57.14 |
| <i>Lindsaea ensifolia</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL WEIGHT | | 1145.71 | 881.90 | 1052.38 | 57.14 |
| SPECIES PRESENT | | 1 | 1 | 1 | 1 |
| Veg Type | | Fern 1A | Fern 1B | Fern 2A | Fern 2B |
| Native | | 1145.71 | 881.90 | 1052.38 | 57.14 |
| Non-native | | 0.00 | 0.00 | 0.00 | 0.00 |
| Unknown | | 0.00 | 0.00 | 0.00 | 0.00 |

Appendix 4. (continued)

| Species | Native | Fern 3A | Fern 3B | Fern 4A | Fern 4B |
|-----------------------------------|---------------|----------------|----------------|----------------|----------------|
| <i>Centosteca lappacea</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Dichanthium bladhii</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Dimeria chioridiformis</i> | yes | 0.00 | 0.00 | 0.00 | 3.71 |
| <i>Pennisetum polystachion</i> | no | 0.00 | 0.00 | 24.48 | 0.00 |
| POACEAE #1 | ? | 0.00 | 0.00 | 0.00 | 0.00 |
| POACEAE #2 | ? | 0.00 | 0.00 | 0.00 | 0.00 |
| CYPERACEAE | ? | 0.00 | 0.00 | 2.10 | 148.38 |
| <i>Fimbristylis dichotoma</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Fimbristylis tristachya</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Rhyncospora ruba</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Alysicarpus vanginalis</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Chromalena odorata</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Curculigo orchioides</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Hypis capitata</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Mimosa pudica</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Stachytarpheta jamaicensis</i> | yes | 0.00 | 0.00 | 4.89 | 2.19 |
| <i>Timonius mollis</i> | yes | 0.00 | 552.38 | 0.00 | 0.00 |
| <i>Waltheria indica</i> | yes | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Arudina graminifolia</i> | no | 0.00 | 0.00 | 0.00 | 0.00 |
| <i>Cassytha filiformis</i> | no | 0.00 | 0.00 | 1.62 | 2.19 |
| <i>Dicranopteris linearis</i> | yes | 1076.19 | 619.05 | 1095.24 | 923.81 |
| <i>Lindsaea ensifolia</i> | yes | 0.00 | 0.00 | 1.90 | 13.69 |
| TOTAL WEIGHT | | 1076.19 | 1171.43 | 1130.22 | 1093.97 |
| SPECIES PRESENT | | 1 | 2 | 6 | 6 |
| Veg Type | | Fern 3A | Fern 3B | Fern 4A | Fern 4B |
| Native | | 1076.19 | 1171.43 | 1102.03 | 943.40 |
| Non-native | | 0.00 | 0.00 | 26.10 | 2.19 |
| Unknown | | 0.00 | 0.00 | 2.10 | 148.38 |