Table *Area A faunal assemblage summary for NISP, MNE, MNI and per cent MNI*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Taxon | Common Name | NISP | MNE | MNI | %MNI |
| Shellfish |
| no shellfish |   | -  | - | - |  - |
| Fish  |
| *Pagrus auratus* | snapper | 11 | 10 | 3 | 42.86 |
| *Latridopsis ciliaris* | blue moki | 6 | 6 | 1 | 14.29 |
| *Nemadactylus macropterus* | tarakihi | 1 | 1 | 1 | 14.29 |
| fish ?sp. | fish ?sp. | 134 | 23 | - | - |
| Fish totals |   | 152 | 40 | 5 | 71.43 |
| Terrestrial bird |
| *Hemiphaga novaeseelandiae* | kereru (NZ wood pigeon) | 1 | 1 | 1 | 14.29 |
| bird ?sp. | bird ?sp. | 2 | - | - | - |
| Terrestrial bird totals |   | 3 | 1 | 1 | 14.29 |
| Marine bird  |
| No marine bird |   | -  | - | - | - |
| Terrestrial mammal |
| *Canis familiaris* | dog | 1 | 1 | 1 | 14.29 |
| medium mammal ?sp. | medium mammal ?sp. | 1 | - | - | - |
| mammal ?sp. | mammal ?sp. | 5 | - | - | - |
| Terrestrial mammal totals |   | 7 | 1 | 1 | 14.29 |
| Marine mammal |
| no marine mammal |   | - | - | - | - |
| Moa  |
| moa ?sp. | moa ?sp. | 1 | - | - | - |
| Moa totals |   | 1 | - | - | - |
| ASSEMBLAGE TOTALS |   | **163** | **42** | **7** | **100.00** |

Table *Area B faunal assemblage summary for NISP, MNE, MNI and per cent MNI*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Taxon | Common Name | NISP | MNE | MNI | %MNI |
| Shellfish |
| no shellfish |   |  - | -  | - | - |
| Fish  |
| fish ?sp. | fish ?sp. | 3 | 2 | 1 | 100.00 |
| Fish totals |   | 3 | 2 | 1 | 100.00 |
| Terrestrial bird |
| No bird |   | -  | - | - |   |
| Marine bird  |
| no marine bird |   | -  | - | - | - |
| Terrestrial mammal |
| no terrestrial mammal |   | -  | -  | - | - |
| Marine mammal |
| no marine mammal |   | - | - | - | - |
| Moa |
| no moa |  | - | - | - | - |
| ASSEMBLAGE TOTALS |   | **3** | **2** | **1** | **100.00** |

Table *Area C faunal assemblage summary for NISP, MNE, MNI and per cent MNI*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Taxon | Common Name | NISP | MNE | MNI | %MNI |
| Shellfish |
| no shellfish |   | -  | -  | - | - |
| Fish  |
| no fish |  | - | -  | - | - |
| Terrestrial bird |
| no terrestrial bird |   |  - | - | - | - |
| Marine bird  |
| *Anas platyrnchos* | mallard | 14 | 12 | 1 | 33.33 |
| *Anas superciliosa* | grey duck | 2 | 2 | 1 | 33.33 |
| bird ?sp. | bird ?sp. | 35 | 14 | - | - |
| Marine bird Totals |  | 51 | 28 | 2 | 66.67 |
| Terrestrial Mammal |
| medium mammal ?sp. | medium mammal ?sp. | 2 | - | 1 | 33.33 |
| Terrestrial mammal totals |   | 2 | - | 1 | 33.33 |
| Marine mammal |
| no marine mammal |   |  - | -  | - | - |
| Moa |
| no moa |  | - | - | - | - |
| Assemblage Totals |   | **53** | **28** | **3** | **100.00** |

Table *Area E faunal assemblage summary for NISP, MNE, MNI and per cent MNI.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Taxon | Common name | NISP | MNE | MNI | %MNI |
| Shellfish |
| no shellfish |   | -  | -  | - | - |
| Fish  |
| no fish |   |  - | -  | - | - |
| Terrestrial bird |
| no terrestrial bird |   |  - | - | - | - |
| Marine bird  |
| *Puffinus griseus* | sooty shearwater | 1 | 1 | 1 | 100.00 |
| Marine bird totals |  | 1 | 1 | 1 | 100.00 |
| Terrestrial mammal |
| no terrestrial mammal |   |  - |  - | - | - |
| Marine mammal |
| no marine mammal |   |  - | -  | - | - |
| Moa |
| no moa |  | - | - | - | - |
| ASSEMBLAGE TOTALS |   | **1** | **1** | **1** | **100.00** |

Table *Area F Layer 1 faunal assemblage summary for NISP, MNE, MNI and per cent MNI.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Taxon | Common Name | NISP | MNE | MNI | Assemblage %MNI |
| Shellfish |
| no shell |   | - | -  | - | - |
| Fish  |
| *Pagrus auratus* | snapper | 8 | 7 | 2 | 33.33 |
| fish ?sp. | fish ?sp. | 7 | - | - | - |
| Fish totals |   | 15 | 7 | 2 | 33.33 |
| Terrestrial bird |
| no terrestrial bird |   | - | -  | - | - |
| Marine bird  |   |   |  |  |  |
| *Gallus gallus* | chicken | 1 | 1 | 1 | 16.67 |
| bird ?sp. | bird ?sp. | 3 | 1 | - | - |
| Marine bird totals |  | 4 | 2 | 1 | 16.67 |
| Terrestrial mammal |
| *Ovis aries* | sheep | 1 | 1 | 1 | 16.67 |
| *Canis familiaris* | dog | 1 | 1 | 1 | 16.67 |
| large mammal ?sp. | large mammal ?sp. | 1 | - | 1 | 16.67 |
| mammal ?sp. | mammal ?sp. | 2 | - | - | - |
| medium mammal ?sp. | medium mammal ?sp. | 4 | 1 | - | - |
| Terrestrial mammal totals |   | 9 | 3 | 3 | 50.00 |
| Marine mammal |
| no marine mammal |   | -  | -  | - | - |
| Moa |
| no moa |  | - | - | - | - |
| ASSEMBLAGE TOTALS |   | **28** | **12** | **6** | **100.00** |

Table *Cabana Lodge prehistoric Area F Layer 2 and 3 faunal assemblage summary for NISP, MNE, MNI and per cent MNI.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Taxon | Common Name | NISP | MNE | MNI | MNI % |
| Shellfish   |
| *Austrovenus stutchburyi* | cockle | 9930 | 9554 | 4777 | 50.82% |
| *Paphies australis* | pipi | 6455 | 6455 | 3228 | 34.34% |
| *Turbo smaragdus* | cat's eye | 661 | 661 | 507 | 5.39% |
| *Paphies sp.*  | Paphies sp. | 938 | 938 | 469 | 4.99% |
| *Paphies subtriangulata* | tuatua | 269 | 269 | 135 | 1.44% |
| bivalve sp. | bivalve sp. | 3203 | 136 | 84 | 0.89% |
| *gastropod sp.* | gastropod sp. | 242 | 66 | 66 | 0.70% |
| *Nerita melanotrogus* | black nerita | 29 | 29 | 29 | 0.31% |
| whelk sp. | whelk sp. | 25 | 25 | 25 | 0.27% |
| *Struthiolaria sp.* | ostrich foot sp. | 19 | 18 | 18 | 0.19% |
| *Amalda australis* | southern olive shell | 12 | 12 | 12 | 0.13% |
| *Penion sulcatus* | siphon whelk | 9 | 9 | 9 | 0.10% |
| limpet sp. | limpet sp. | 8 | 8 | 8 | 0.09% |
| mussel sp. | mussel sp. | 15 | 15 | 8 | 0.09% |
| *Crepidula costata* | ribbed slipper shell | 6 | 6 | 6 | 0.06% |
| *Cominella adspersa* | speckled whelk | 6 | 6 | 6 | 0.06% |
| *Amphibola crenata* | mudsnail | 4 | 4 | 4 | 0.04% |
| *Cookia sulcata* | cook's turban | 3 | 3 | 2 | 0.02% |
| *Austrofusus glans* | knobbed whelk shell | 2 | 2 | 2 | 0.02% |
| *Sigaptella novaezelandiae* | circular slipper shell | 1 | 1 | 1 | 0.01% |
| *Zeacumantus lutulentus?* | horn shell? | 1 | 1 | 1 | 0.01% |
| *Struthiolaria vermis* | small ostrich foot | 1 | 1 | 1 | 0.01% |
| *Pratulum pulchellum* | strawberry cockle | 2 | 2 | 1 | 0.01% |
| shellfish sp. | shellfish sp. | 20,836 | - | - | - |
| *Chiton sp.* | chiton sp. | 25 | 25 | - | - |
| Shellfish totals | **42702** | **18246** | **9399** | **100.00%** |
| Fish   |
| *Pagrus auratus* | snapper | 1124 | 864 | 125 | 70.22% |
| *Latridopsis ciliaris* | blue moki | 113 | 113 | 24 | 13.48% |
| *Nemadactylus macropterus* | tarakihi | 74 | 72 | 13 | 7.30% |
| *Meuschenia scaber* | leatherjacket | 5 | 4 | 4 | 2.25% |
| *Arripis trutta* | kahawai | 20 | 20 | 3 | 1.69% |
| *Notolabrus celidotus* | spotty | 3 | 3 | 3 | 1.69% |
| *Chelidonichthys kumu* | red gurnard | 19 | 6 | 1 | 0.56% |
| *Genyagnus monopterygius* | spotted stargazer | 2 | 2 | 1 | 0.56% |
| *Gempylidae sp.* | snake mackerel sp. | 1 | 1 | 1 | 0.56% |
| *Helicolenus percoides* | sea perch | 1 | 1 | 1 | 0.56% |
| *Carangidae ?sp.* | mackerel ?sp. | 1 | 1 | 1 | 0.56% |
| *Zeus faber* | john dory | 1 | 1 | 1 | 0.56% |
| *Notolabrus celidotus?* | spotty? | 1 | 1 | - | 0.00% |
| *Pagrus auratus?* | snapper? | 1 | 1 | - | 0.00% |
| fish sp. | fish sp. | 23385 | 2629 | - | 0.00% |
| Fish totals | **24751** | **3719** | **178** | **100%** |
| Terrestrial bird   |
| *Gallus gallus* | chicken | 9 | 8 | 2 | 40.00% |
| *Anas superciliosa* | grey duck | 1 | 1 | 1 | 20.00% |
| *Halcyon sancta vagans* | New Zealand kingfisher | 1 | 1 | 1 | 20.00% |
| *Ardea n. novaehollandiae* | white-faced heron | 2 | 2 | 1 | 20.00% |
| Terrestrial bird totals | **13** | **12** | **5** | **100.00%** |

**Table 6** *Continued.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Taxon | Common name | NISP | MNE | MNI  | MNI % |
| Marine bird  |
| *Eudyptula minor* | little blue penguin | 14 | 12 | 2 | 50.00% |
| *Larus novaehollandiae scopulinus* | red-billed gull | 2 | 2 | 1 | 25.00% |
| *Puffinus griseus* | sooty shearwater | 1 | 1 | 1 | 25.00% |
| bird sp. | bird sp. | 171 | 27 | - | - |
| *Eudyptula minor?* | little blue penguin? | 1 | 1 | - | - |
| Marine bird totals | **189** | **43** | **4** | **100.00%** |
| Terrestrial mammal  |
| *Canis familiaris* | dog | 106 | 66 | 2 | 50.00% |
| *Rattus sp.* | rat | 10 | 10 | 2 | 50.00% |
| mammal sp. | mammal sp. | 536 | - | - | - |
| medium mammal sp. | medium mammal sp. | 150 | 4 | - | - |
| *Rattus sp.?* | rat? | 4 | 4 | - | - |
| small mammal sp. | small mammal sp. | 11 | 5 | - | - |
| Terrestrial mammal totals | **817** | **89** | **4** | **100.00%** |
| Marine mammal |
| *Arctocephalus forsteri* | fur seal | 22 | 21 | 5 | 100.00% |
| Marine mammal totals | **22** | **21** | **5** | **100.00%** |
| Moa  |
| moa ?sp. | moa ?sp. | 39 | - | - | - |
| Moa totals | **39** | **-** | **-** | **-** |
| ASSEMBLAGE TOTALS | **68533** | **22130** | **9595** |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Taxon | Common Name | NISP | MNE | MNI | MNI % |
| Shellfish   |
| *Austrovenus stutchburyi* | cockle | 9930 | 9554 | 4777 | 50.82% |
| *Paphies australis* | pipi | 6455 | 6455 | 3228 | 34.34% |
| *Turbo smaragdus* | cat's eye | 661 | 661 | 507 | 5.39% |
| *Paphies sp.*  | Paphies sp. | 938 | 938 | 469 | 4.99% |
| *Paphies subtriangulata* | tuatua | 269 | 269 | 135 | 1.44% |
| bivalve sp. | bivalve sp. | 3203 | 136 | 84 | 0.89% |
| *gastropod sp.* | gastropod sp. | 242 | 66 | 66 | 0.70% |
| *Nerita melanotrogus* | black nerita | 29 | 29 | 29 | 0.31% |
| whelk sp. | whelk sp. | 25 | 25 | 25 | 0.27% |
| *Struthiolaria sp.* | ostrich foot sp. | 19 | 18 | 18 | 0.19% |
| *Amalda australis* | southern olive shell | 12 | 12 | 12 | 0.13% |
| *Penion sulcatus* | siphon whelk | 9 | 9 | 9 | 0.10% |
| limpet sp. | limpet sp. | 8 | 8 | 8 | 0.09% |
| mussel sp. | mussel sp. | 15 | 15 | 8 | 0.09% |
| *Crepidula costata* | ribbed slipper shell | 6 | 6 | 6 | 0.06% |
| *Cominella adspersa* | speckled whelk | 6 | 6 | 6 | 0.06% |
| *Amphibola crenata* | mudsnail | 4 | 4 | 4 | 0.04% |
| *Cookia sulcata* | cook's turban | 3 | 3 | 2 | 0.02% |
| *Austrofusus glans* | knobbed whelk shell | 2 | 2 | 2 | 0.02% |
| *Sigaptella novaezelandiae* | circular slipper shell | 1 | 1 | 1 | 0.01% |
| *Zeacumantus lutulentus?* | horn shell? | 1 | 1 | 1 | 0.01% |
| *Struthiolaria vermis* | small ostrich foot | 1 | 1 | 1 | 0.01% |
| *Pratulum pulchellum* | strawberry cockle | 2 | 2 | 1 | 0.01% |
| shellfish sp. | shellfish sp. | 20,836 | - | - | - |
| *Chiton sp.* | chiton sp. | 25 | 25 | - | - |
| Shellfish totals | **42702** | **18246** | **9399** | **100.00%** |
| Fish   |
| *Pagrus auratus* | snapper | 1124 | 864 | 125 | 70.22% |
| *Latridopsis ciliaris* | blue moki | 113 | 113 | 24 | 13.48% |
| *Nemadactylus macropterus* | tarakihi | 74 | 72 | 13 | 7.30% |
| *Meuschenia scaber* | leatherjacket | 5 | 4 | 4 | 2.25% |
| *Arripis trutta* | kahawai | 20 | 20 | 3 | 1.69% |
| *Notolabrus celidotus* | spotty | 3 | 3 | 3 | 1.69% |
| *Chelidonichthys kumu* | red gurnard | 19 | 6 | 1 | 0.56% |
| *Genyagnus monopterygius* | spotted stargazer | 2 | 2 | 1 | 0.56% |
| *Gempylidae sp.* | snake mackerel sp. | 1 | 1 | 1 | 0.56% |
| *Helicolenus percoides* | sea perch | 1 | 1 | 1 | 0.56% |
| *Carangidae ?sp.* | mackerel ?sp. | 1 | 1 | 1 | 0.56% |
| *Zeus faber* | john dory | 1 | 1 | 1 | 0.56% |
| *Notolabrus celidotus?* | spotty? | 1 | 1 | - | 0.00% |
| *Pagrus auratus?* | snapper? | 1 | 1 | - | 0.00% |
| fish sp. | fish sp. | 23385 | 2629 | - | 0.00% |
| Fish totals | **24751** | **3719** | **178** | **100%** |
| Terrestrial bird   |
| *Gallus gallus* | chicken | 9 | 8 | 2 | 40.00% |
| *Anas superciliosa* | grey duck | 1 | 1 | 1 | 20.00% |
| *Halcyon sancta vagans* | New Zealand kingfisher | 1 | 1 | 1 | 20.00% |
| *Ardea n. novaehollandiae* | white-faced heron | 2 | 2 | 1 | 20.00% |
| Terrestrial bird totals | **13** | **12** | **5** | **100.00%** |

Table *Cabana Lodge prehistoric faunal assemblage MNI, meatweight, meat yield and energy yield calculations.*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Taxon | Common Name | MNI | MTWTkg | MTWT Yieldkg | Energykcal/kg | Energy Yieldkcal | EnergyYield%kcal |
| Shellfish  |
| *Aethocola glans* | knobbed whelk  | 2 | 0.002 | 0.004 | 797 | 3.188 | 0.000 |
| *Amalda australis* | southern olive shell  | 12 | 0.001 | 0.012 | 797 | 9.564 | 0.001 |
| *Amphibola crenata* | mudsnail  | 4 | 0.001 | 0.004 | 797 | 3.188 | 0.000 |
| *Austrovenus stutchburyi*  | cockle  | 4777 | 0.002 | 9.554 | 430 | 4108.220 | 0.494 |
| *Buccinulum ?sp.* | whelk Buccinulum ?sp. | 25 | 0.001 | 0.025 | 797 | 19.925 | 0.002 |
| *Cominella adspersa*  | speckled whelk  | 6 | 0.002 | 0.012 | 797 | 9.564 | 0.001 |
| *Cookia sulcata* | cooks turban  | 2 | 0.015 | 0.030 | 797 | 23.910 | 0.003 |
| *gastropod ?sp.* | gastropod ?sp. | 66 | 0.001 | 0.066 | 797 | 52.602 | 0.006 |
| limpet ?sp. | limpet ?sp. | 8 | 0.001 | 0.008 | 797 | 6.376 | 0.001 |
| *Lunella smaragdus* | cats eye  | 507 | 0.004 | 2.028 | 797 | 1616.316 | 0.195 |
| *Maoricrypta costata* | ribbed slipper shell  | 6 | 0.002 | 0.012 | 797 | 9.564 | 0.001 |
| *Mollusca ?sp.* | shellfish ?sp. | 84 | 0.001 | 0.084 | 797 | 66.948 | 0.008 |
| *Mytilidae ?sp.* | mussel ?sp. | 8 | 0.001 | 0.008 | 797 | 6.376 | 0.001 |
| *Nerita atramentosa* | black nerita  | 29 | 0.001 | 0.029 | 797 | 23.113 | 0.003 |
| *Paphies australis* | pipi  | 3228 | 0.001 | 3.228 | 410 | 1323.480 | 0.159 |
| *Paphies subtriangulata* | tuatua  | 135 | 0.002 | 0.270 | 1100 | 297.000 | 0.036 |
| *Paphies ?sp.* | Paphies ?sp. | 469 | 0.001 | 0.469 | 797 | 373.793 | 0.045 |
| *Penion sulcatus* | siphon whelk  | 9 | 0.003 | 0.027 | 797 | 21.519 | 0.003 |
| *Pratulum pulchellum* | heart cockle | 1 | 0.001 | 0.001 | 797 | 0.797 | 0.000 |
| *Sigapatella novaezelandiae* | circular slipper shell | 1 | 0.002 | 0.002 | 797 | 1.594 | 0.000 |
| *Struthiolaria ?sp.* | ostrich foot ?sp. | 19 | 0.002 | 0.038 | 797 | 30.286 | 0.004 |
| *Zeacumantis ?sp.* | horn shell ?sp. | 1 | 0.001 | 0.001 | 797 | 0.797 | 0.000 |
| Shellfish totals |   | 9399 |   | 15.912 |   | 8008.120 | 0.964 |
| Fish  |
| *Arripis trutta* | kahawai | 3 | 1.26 | 3.78 | 1828 | 6909.840 | 0.832 |
| *Carangidae sp.* | Carangidae ?sp. | 1 | 0.77 | 0.77 | 1185 | 912.450 | 0.110 |
| *Chelidonichthys kumu* | red gurnard | 1 | 0.49 | 0.49 | 1013 | 496.370 | 0.060 |
| *Gempylidae ?sp.* | snake mackerel ?sp. | 1 | 1.86 | 1.86 | 1225 | 2278.500 | 0.274 |
| *Latridopsis ciliaris* | blue moki | 24 | 1.89 | 45.36 | 1297 | 58831.920 | 7.081 |
| *Meuschenia scaber* | leatherjacket | 4 | 0.56 | 2.24 | 849 | 1901.760 | 0.229 |
| *Genyagnus monopterygius* | spotted stargazer | 1 | 0.35 | 0.35 | 923 | 323.050 | 0.039 |
| *Nemadactylus macropterus* | tarakihi | 13 | 0.56 | 7.28 | 1736 | 12638.080 | 1.521 |
| *Notolabrus celidotus* | spotty | 3 | 1.05 | 3.15 | 1000 | 3150.000 | 0.379 |
| *Pagrus auratus* | snapper | 125 | 1.54 | 192.50 | 1174 | 225995.000 | 27.199 |
| *Helicolenus percoides* | sea perch | 1 | 0.70 | 0.70 | 695 | 486.500 | 0.059 |
| *Zeus faber* | john dory | 1 | 0.98 | 0.98 | 1020 | 999.600 | 0.120 |
| Fish totals | **178** |  | **259.46** |  | **314923.070** | **37.902** |
| Marine bird  |
| *Eudyptula minor* | Little penguin | 2 | 0.770 | 1.54 | 3210 | 4943.400 | 0.595 |
| *Larus novaehollandiae* | Red-billed gull | 1 | 0.182 | 0.18 | 3210 | 584.220 | 0.070 |
| *Puffinus griseus* | Sooty shearwater | 1 | 0.560 | 0.56 | 3210 | 1797.600 | 0.216 |
| Marine bird total | **4** |  | **2.28** |  | **7325.220** | **0.882** |
| Terrestrial bird |
| *Todiramphus sancta vagens* | New Zealand kingfisher | 1 | 0.046 | 0.0455 | 1760 | 80.080 | 0.010 |
| Terrestrial bird total | **1** |  | **0.0455** |  | **80.080** | **0.010** |
| Terrestrial mammal |
| *Canis familiaris* | dog – sub adult | 1 | 6.00 | 6.0 | 1260 | 7560.000 | 0.910 |
|  | dog - adult | 1 | 10.00 | 10.0 | 1260 | 12600.000 | 1.516 |
| *Rattus exulens* | rat | 2 | 0.10 | 0.2 | 1260 | 252.000 | 0.030 |
| Terrestrial mammal totals  | **4** |  | **16.2** |  | **20412.000** | **2.457** |

Table 7 *Continued.*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Taxon | Common Name | MNI | MTWTkg | MTWT Yieldkg | Energykcal/kg | Energy Yieldkcal | EnergyYield%kcal |
| Marine mammal |
| *Arctocephalus forsteri* | fur seal - juvenile | 2 | 14.38 | 28.76 | 2620 | 75351.200 | 9.069 |
| *Arctocephalus forsteri* | fur seal - adult female | 2 | 30.00 | 60.00 | 2620 | 157200.000 | 18.919 |
| *Arctocephalus forsteri* | fur seal - adult male | 1 | 94.50 | 94.50 | 2620 | 247590.000 | 29.798 |
| Marine mammal totals | **5** |  | **183.26** |  | **480141.200** | **57.786** |
| Moa  |
| No subsistence moa remains |  | - |  | - |  | - | - |
| ASSEMBLAGE TOTALS |  | **9587** |  | **477.160** |  | **830889.690** | **100.000** |

Table *Cabana Lodge prehistoric faunal assemblage MNI, protein yield, fat yield and carb yield calculations.*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Taxon | Common name | MNI | Proteing/kg | Protein Yield g | Fat g/kg | Fat Yieldg | Carb g/kg | Carb Yield g |
| Shellfish |
| *Aethocola glans* | knobbed whelk  | 2 | 136 | 0.544 | 17 | 0.068 | 23 | 0.092 |
| *Amalda australis* | southern olive shell  | 12 | 136 | 1.632 | 17 | 0.204 | 23 | 0.276 |
| *Amphibola crenata* | mudsnail  | 4 | 136 | 0.544 | 17 | 0.068 | 23 | 0.092 |
| *Austrovenus stutchburyi*  | cockle  | 4777 | 82 | 783.428 | 9 | 85.986 | 6 | 57.324 |
| *Buccinulum ?sp.* | whelk Buccinulum ?sp. | 25 | 136 | 3.400 | 17 | 0.425 | 23 | 0.575 |
| *Cominella adspersa*  | speckled whelk  | 6 | 136 | 1.632 | 17 | 0.204 | 23 | 0.276 |
| *Cookia sulcata* | cooks turban  | 2 | 136 | 4.080 | 17 | 0.510 | 23 | 0.690 |
| *gastropod ?sp.* | gastropod ?sp. | 66 | 136 | 8.976 | 17 | 1.122 | 23 | 1.518 |
| limpet ?sp. | limpet ?sp. | 8 | 136 | 1.088 | 17 | 0.136 | 23 | 0.184 |
| *Lunella smaragdus* | cats eye  | 507 | 136 | 275.808 | 17 | 34.476 | 23 | 46.644 |
| *Maoricrypta costata* | ribbed slipper shell  | 6 | 136 | 1.632 | 17 | 0.204 | 23 | 0.276 |
| *Mollusca ?sp.* | shellfish ?sp. | 84 | 136 | 11.424 | 17 | 1.428 | 23 | 1.932 |
| *Mytilidae ?sp.* | mussel ?sp. | 8 | 136 | 1.088 | 17 | 0.136 | 23 | 0.184 |
| *Nerita atramentosa* | black nerita  | 29 | 136 | 3.944 | 17 | 0.493 | 23 | 0.667 |
| *Paphies australis* | pipi  | 3228 | 82 | 264.696 | 7 | 22.596 | 5 | 16.140 |
| *Paphies subtriangulata* | tuatua  | 135 | 167 | 45.090 | 22 | 5.940 | 62 | 16.740 |
| *Paphies ?sp.* | Paphies ?sp. | 469 | 136 | 63.784 | 17 | 7.973 | 23 | 10.787 |
| *Penion sulcatus* | siphon whelk  | 9 | 136 | 3.672 | 17 | 0.459 | 23 | 0.621 |
| *Pratulum pulchellum* | heart cockle | 1 | 136 | 0.136 | 17 | 0.017 | 23 | 0.023 |
| *Sigapatella novaezelandiae* | circular slipper shell | 1 | 136 | 0.272 | 17 | 0.034 | 23 | 0.046 |
| *Struthiolaria ?sp.* | ostrich foot ?sp. | 19 | 136 | 5.168 | 17 | 0.646 | 23 | 0.874 |
| *Zeacumantis ?sp.* | horn shell ?sp. | 1 | 136 | 0.136 | 17 | 0.017 | 23 | 0.023 |
| Shellfish totals | **9399** |  | **1482.174** |  | **163.142** |  | **155.984** |
| Fish |
| *Arripis trutta* | kahawai | 3 | 194 | 733.000 | 116 | 438.000 | 2 | 8.000 |
| *Carangidae ?sp.* | Carangidae ?sp. | 1 | 196 | 151.000 | 44 | 34.000 | 2 | 2.000 |
| *Chelidonichthys kumu* | red gurnard | 1 | 186 | 91.000 | 29 | 14.000 | 2 | 1.000 |
| *Gempylidae ?sp.* | snake mackerel sp. | 1 | 182 | 339.000 | 55 | 102.000 | 2 | 4.000 |
| *Latridopsis ciliaris* | blue moki | 24 | 194 | 8800.000 | 57 | 2586.000 | 2 | 91.000 |
| *Meuschenia scaber* | leatherjacket | 4 | 172 | 385.000 | 17 | 38.000 | 2 | 4.000 |
| *Genyagnus monopterygius* | spotted stargazer | 1 | 159 | 56.000 | 31 | 11.000 | 2 | 1.000 |
| *Nemadactylus macropterus* | tarakihi | 13 | 189 | 1376.000 | 108 | 786.000 | 2 | 15.000 |
| *Notolabrus celidotus* | spotty | 3 | 167 | 526.000 | 36 | 113.000 | 2 | 6.000 |
| *Pagrus auratus* | snapper | 125 | 179 | 34458.000 | 50 | 9625.000 | 2 | 385.000 |
| *Helicolenus percoides* | sea perch | 1 | 138 | 97.000 | 15 | 11.000 | 2 | 1.000 |
| *Zeus faber* | john dory | 1 | 181 | 177.000 | 32 | 31.000 | 2 | 2.000 |
| Fish totals | **178** |  | **47188.120** |  | **13789.820** |  | **518.92** |
| Marine bird |
| *Eudyptula minor* | Little penguin | 2 | 160 | 246.400 | 290 | 446.600 | 0 | 0.000 |
| *Larus novaehollandiae* | Red-billed gull | 1 | 160 | 29.120 | 290 | 52.780 | 0 | 0.000 |
| *Puffinus griseus* | Sooty shearwater | 1 | 160 | 89.600 | 290 | 162.400 | 0 | 0.000 |
| Marine bird totals | **4** |  | **365.120** |  | **661.780** |  | **0.000** |

**Table 8** *Continued.*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Taxon | Common name | MNI | Proteing/kg | Protein Yield g | Fat g/kg | Fat Yieldg | Carb g/kg | Carb Yield g |
| Terrestrial bird |
| *Todiramphus sancta vagens* | NZ kingfisher | 1 | 280 | 12.74 | 60 | 2.73 | 0 | - |
| Terrestrial bird totals | **1** |  | **12.74** |  | **2.73** |  | **-** |
| Terrestrial mammal |
| *Canis familiaris* | dog – sub adult | 1 | 210 | 1260.00 | 40 | 240.00 | 0 | - |
|  | dog - adult | 1 | 210 | 2100.00 | 40 | 400.00 | 0 | - |
| *Rattus exulens* | rat | 2 | 210 | 42.00 | 40 | 8.00 | 0 | - |
| Terrestrial mammal totals | **4** |  | **3402.00** |  | **648.00** |  | **-** |
| Marine mammal |
| *Arctocephalus forsteri* | fur seal - juvenile | 2 | 140 | 4026.40 | 220 | 6327.20 | 20 | 575.200 |
| *Arctocephalus forsteri* | fur seal - adult female | 2 | 140 | 8400.00 | 220 | 13200.00 | 20 | 1200.000 |
| *Arctocephalus forsteri* | fur seal - adult male | 1 | 140 | 13230.00 | 220 | 20790.00 | 20 | 1890.000 |
| Marine mammal totals | **5** |  | **25656.40** |  | **40317.20** |  | **3665.200** |
| ASSEMBLAGE TOTALS |  | **9587** |  | **78106.55** |  | **55582.67** |  | **4340.104** |

Table *Marine, littoral and terrestrial faunal resource classes by per cent MNI and per cent energy yield for Cabana Lodge assemblage Fz L2 and 3.*

|  |  |  |  |
| --- | --- | --- | --- |
| Ecological Zone | Faunal class | % MNI | % Energy Yield |
| Marine | Fish | 1.69 | 37.90 |
| **Marine Total** | **1.69** | **37.90** |
| Littoral | Shellfish | 98.13 | 0.96 |
| Mammal | 0.05 | 57.79 |
| Bird | 0.04 | 0.88 |
| **Littoral total** | **98.23** | **59.63** |
| Terrestrial | Mammal | 0.04 | 2.46 |
| Bird | 0.04 | 0.01 |
| Moa | 0.00 | 0.00 |
| **Terrestrial Total** | **0.08** | **2.47** |
| Total | **100.00** | **100.00** |

Table *Fish species per cent MNI, niche environment and probable catch method for Cabana Lodge Area Fz Layer 2 and 3.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Species | Common name | %MNI | %Energy Harvest | Habitat | Catch Method |
| *Pagrus auratus* | snapper | 70.22% | 71.76% | rocky reef, sand & mud bottom | baited hook, dragged nets, set nets (Coutts 1975, Leach and Davidson 2000) |
| *Latridopsis ciliaris* | blue moki | 13.48% | 18.68% | rocky reef & sand bottom | line (Paul 2000); hook and line (Coutts 1975) |
| *Nemadactylus macropterus* | tarakihi | 7.30% | 4.01% | mud bottom & rocky reef | multiple hook and line, seine and set nets? (Coutts 1975); specialised hook and line (Paul 2000) |
| *Parika scaber* | leatherjacket | 2.25% | 0.60% | rocky reef, sand & mud bottom | set nets? (Coutts 1975, Mann 2009) |
| *Arripis trutta* | kahawai | 1.69% | 2.19% | pelagic (to 50m), sand & mud bottom | lure hook and line, nets, seine nets (Coutts 1975); specialised trolling lures (Paul 2000) |
| *Notolabrus celidotus* | spotty | 1.69% | 1.00% | rocky reef & mud bottom | hook and line, hoop and set nets? (Coutts 1975) |
| *Chelidonichthys kumu* | red gurnard | 0.56% | 0.16% | sand & mud bottom | line and seine net (Paul 2000) |
| *Genyagnus monopterygius* | spotted stargazer | 0.56% | 0.10% | sand & mud bottom | seine nets? (Coutts 1975) |
| *Helicolenus percoides* | sea perch | 0.56% | 0.10% | sand bottom | hook and line? (Coutts 1975) |
| *Zeus faber* | john dory | 0.56% | 0.32% | rocky reef, sand & mud bottom | (no references found) |
| *Carangidae* ?sp. | mackerel ?sp. | 0.56% | 0.29% | unknown | (no references found) |
| *Gempylidae* ?sp. | snake mackerel ?sp. | 0.56% | 0.72% | unknown | barracouta - jigged on feather or shell decorated wooden lures (Paul 2000); lure hook and rod (Coutts 1975) |
| Fish totals |  | 100.00% | 100.00% |  |  |

Table *Cabana Lodge shellfish per cent MNI, per cent energy harvest and habitat.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Taxon | Common Name | %MNI | %Energy Harvest | Habitat |
| *Austrovenus stutchburyi* | cockle | 50.82 | 51.30 | mudflat |
| *Paphies australis* | pipi | 34.34 | 16.53 | mud/sand |
| *Lunella smaragdus* | cats eye | 5.39 | 20.18 | rocky |
| *Paphies ?sp.*  | Paphies ?sp. | 4.99 | 4.67 | sandy |
| *Paphies subtriangulata* | tuatua | 1.44 | 3.71 | sandy |
| bivalve sp. | bivalve sp. | 0.89 | 0.84 | unknown |
| *gastropod sp.* | gastropod sp. | 0.70 | 0.66 | unknown |
| *Nerita melanotrogus* | black nerita | 0.31 | 0.29 | rocky |
| whelk sp. | whelk sp. | 0.27 | 0.25 | unknown |
| *Struthiolaria sp.* | ostrich foot sp. | 0.19 | 0.38 | mud/sand |
| *Amalda australis* | southern olive shell | 0.13 | 0.12 | sandy |
| *Penion sulcatus* | siphon whelk | 0.10 | 0.27 | rocky |
| limpet ?sp. | limpet sp. | 0.09 | 0.08 | rocky |
| Mytilidae ?sp. | mussel sp. | 0.09 | 0.08 | rocky |
| *Cominella adspersa* | speckled whelk | 0.06 | 0.12 | mudflat |
| *Maoricrypta costata* | ribbed slipper shell | 0.06 | 0.12 | rocky |
| *Amphibola crenata* | mudsnail | 0.04 | 0.04 | mudflat |
| *Cookia sulcata* | cooks turban | 0.02 | 0.04 | rocky |
| *Austrofusus glans* | knobbed whelk shell | 0.02 | 0.30 | sandy |
| *Pratulum pulchellum* | strawberry cockle | 0.01 | 0.01 | deep water |
| *Zeacumantus lutulentus?* | horn shell? | 0.01 | 0.01 | mudflat |
| *Sigaptella novaezelandiae* | circular slipper shell | 0.01 | 0.02 | rocky |
| *Struthiolaria vermis* | small ostrich foot | 0.01 | 0.01 | sandy |
| Totals |  | 100.00 | 100.00 |  |

Table *Cabana Lodge shellfish per cent MNI and habitat classes.*

|  |  |  |
| --- | --- | --- |
| Shellfish Habitat | %MNI | %Energy Harvest |
| mudflat | 50.94 | 51.47 |
| mud/sand | 34.54 | 16.91 |
| sandy | 6.59 | 8.81 |
| rocky | 6.06 | 21.08 |
| unknown | 1.86 | 1.75 |
| deep water | 0.01 | 0.01 |
| total | 100.00 | 100.00 |

Table *Arctocephalus forsteri (New Zealand fur seal) skeletal portions by age/sex, Cabana Lodge Area Fz Layers 2 & 3.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Age/Sex | Element | Side | Portion | NISP | MNE |
| adult female | pelvis | L | part acetabulum +ilium frag | 1 | 1 |
| adult female | ulna | L | PS-MS | 1 | 1 |
| adult female | femur | L | C\*\* | 1 | 1 |
| adult female | pelvis | R | acetabulum | 1 | 1 |
| adult female | radius | R | C\*\* | 1 | 1 |
| adult female | radius | R | P\*-DS | 1 | 1 |
| adult female | ulna | R | MS | 1 | 1 |
| adult male  | metacarpal1 | L | MS-D | 1 | 1 |
| adult male | metatarsal 2 | R | P+M | 1 | 1 |
| adult male | metatarsal 5 | L | C | 1 | 1 |
| adult male | phalanx 1st | R | C | 1 | 1 |
| adult unknown sex | metacarpal1 | L | DS-DS | 1 | 1 |
| juvenile unknown sex | radius | L | P\*-DS | 1 | 1 |
| juvenile female | pelvis | L | ilium | 1 | 1 |
| juvenile female | radius | L | C\*\* | 1 | 1 |
| ? | pelvis | L | Ilium frag + acetabulum frag | 1 | 1 |
| ? | ribs | ? | C\*\* | 1 | 1 |
| ? | scapula | L | >1/2 | 3 | 1 |
| ? | scapula | R | >1/2 | 2 | 1 |
| ? | tooth-canine | ? | C | 1 | 1 |
| ? | tooth-lower canine | ? | C | 1 | 1 |
| ? | tooth-post canine | ? | C | 1 | 1 |
| ? | tooth-post canine | ? | C | 1 | 1 |
| ? | tooth-post canine | ? | C | 1 | 1 |
| ? | tooth-post canine | ? | frag | 1 | 0 |
| ? | tooth-upper 3rd incisor | ? | C | 1 | 1 |
| ? | tooth-upper incisor | ? | C | 1 | 1 |
| ? | vertebra | A | >1/2 | 1 | 1 |
| ? | vertebra-axis | A | >1/2 | 1 | 1 |
| ? | vertebra-cervical | A | >1/2 | 1 | 1 |
| ? | vertebra-cervical1 | A | C | 1 | 1 |
| ? | vertebra-lumbar | A | >1/2 | 1 | 1 |
| ? | vertebra-thoracic | A | C | 1 | 1 |
| ? | vertebra-thoracic | A | C\*\* | 1 | 1 |
| ? | vertebra-thoracic | A | C\*\* | 1 | 1 |
| ? | vertebra-thoracic | A | C\*\* | 1 | 1 |
|  ? | vertebra-thoracic | A | centrum\*\* | 1 | 1 |
| TOTAL |  |  |  | **40** | **36** |