**Supporting Information**

**Paper 15, Volume 58(2), 2017**: Biomass and carbon stock along an altitudinal gradient in the forest of Manipur, Northeast India

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**Table S1**. Volume equation and wood specific gravity used in the present study.

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| --- | --- | --- | --- | --- | --- | --- |
| Species Name | Family | | | Volume Equation | | Wood specific gravity |
| *Adina cordifolia* Benth. & Hook.f. | Rubiaceae | | | √V=-0.16354+2.81144D | | 0.583 |
| *Albizia lebbeck* (L.) Benth. | Mimosaceae | | | √V=-0.07109+2.99732D-0.26953√D | | 0.760 |
| *Albizzia procera* (Roxb.) | Mimosaceae | | | V=0.13817-2.16947D+11.40870D2+1.11636D3 | | 0.548 |
| *Alnus nepalensis* D. Don | Betulaceae | | | V=0.01115-0.11716D-2.770924D2 | | 0.319 |
| *Artocarpus chama* Buch. Ham. | Moraceae | | | V=1.65081-4.5731√D+11.62114D2 | | 0.447 |
| *Artocarpus chaplasha* Roxb. | Moraceae | | | V=1.65081-4.57531√D+11.62114D2 | | 0.447 |
| *Bauhinia purpurea* Linn. | Caesalpinaceae | | | V=-0.0426+6.09491D2 | | 0.700 |
| *Bauhinia variegata* Linn. | Caesalpinaceae | | | V=-0.04262+6.09491D2 | | 0.700 |
| *Bischofia javanica* Blume | Euphorbiaceae | | | √V=-0.00273+2.56199D | | 0.500 |
| *Bombaxceiba* Linn. | Bombaceae | | | V=0.03429-0.16536D+5.03740D2+4.60460D3 | | 0.329 |
| *Callicarpa arborea* Roxb. | Verbenaceae | | | √V=-0.04506+2.334464D | | 0.557 |
| *Canarium bengalense* Roxb. | Burseraceae | | | V=-0.01538+0.62475D-3.02099D2+20.08887D3 | | 0.560 |
| *Cassia fistula* Linn. | Caesalpiniaceae | | | V=0.066+0.287D2 | | 0.527 |
| *Castanopsis hystrix* A. DC. | Fagaceae | | | V=0.13937-0.35988√D+6.81318D2 | | 0.527 |
| *Celtis australis* Linn. | Ulmaceae | | | V=0.11079-1.81103D +11.4132D2 +0.38528 | | 0.444 |
| *Cinnamomum zeylanicum* Breyn. | Lauraceae | | | V=0.14885-1.62875D+5.93114D2+11.73286D3 | | 0.444 |
| *Dalbergia sissoo* Roxb. | Papilionaceae | | | √V=0.76896+7.31777D-4.01953√D | | 0.800 |
| *Dillenia indica* Linn. | Dilleniaceae | | | √V=0.05376+3.73731D-0.79622√D | | 0.531 |
| *Diospyros lancaefolia* Roxb. | Ebenaceae | | | √V=0.92625+7.86461d-4.67222√D | | 0.734 |
| *Ficus cunea* Buch-Ham ex Roxb. | Moraceae | | | √V=0.03629+3.95389D-0.84421√D | | 0.390 |
| *Ficus racemosa* Linn. | Moraceae | | | √V=0.3629+3.95389D-0.84421√D | | 0.385 |
| *Garuga pinnata* Roxb. | Burseraceae | | | V=0.08486-1.28721D+8.29412D2 | | 0.511 |
| *Gmelina arborea* Roxb. | Verbeneaceae | | | V=0.25058-3.55124D+16.41720D2 | | 0.560 |
| *Hymenodictyon excelsum* (Roxb.) Wall. | Rubiaceae | | | V/D2=0.15698/D2-2.75681/D+14.19521 | | 0.418 |
| *Kydia calycina* Roxb. | Malvaceae | | | √V=-0.02297+2.68423D | | 0.347 |
| *Lagerstroemia speciosa* (L.) Pers. | Lythraceae | | | V=0.11740-1.58941D+9.76464D2 | | 0.620 |
| *Lannea coromandelina* (Houtt.) Merr. | Anacardiaceae | | | √V=-0.32985+2.21152D+0.78769√D | | 0.540 |
| *Litsea polyantha* Juss | Lauraceae | | | V=0.11079-1.81103D+11.4132D2+0.38528D3 | | 0.550 |
| *Mallotus philippensis* (Lamk)-Mvell-Arg | Euphorbiaceae | | | V=0.14749-2.87503D+19.61977D2-19.11630D3 | | 0.571 |
| *Mesua ferrea* Linn. | Clusiaceae | | | V=0.09252-1.95124D+13.51055D2 | | 0.809 |
| *Michelia champaca* Linn. | Magnoliaceaea | | | √V=0.37142+5.64184D-2.27448√D | | 0.442 |
| *Phoebe lanceolata* Nees | Lauraceae | | | √V=0.05613+4.453383D-1.03039√D | | 0.510 |
| *Pinus kesiya* Royle ex Gordon | Pinaceae | | | V=-0.01523+5.65779D2 | | 0.431 |
| *Quercus lamellose* Sm*.* | Fagaceae | | | V=0.14153-2.27358D+12.90490D2 | | 0.664 |
| *Quercus serrata* Thunb. | Fagaceae | | | V=0.14153-2.27358D+12.90490D2 | | 0.694 |
| *Rhus semialata* Murray | Anacardiaceae | | | V=0.68238+5.049937-2.770924D2 | | 0.510 |
| *Schima wallichi* (DC) Korthals. | Theaceae | | | V=0.27609-3.68443D+15.8668D2 | | 0.539 |
| *Spondias pinnata* (Linn.f.) Kurz | Anacardiaceae | | | √V=0.49487+6.18662D-2.95076√D | | 0.368 |
| *Sterculia villosa* Roxb. | Sterculiaceae | | | V=0.27909-3.26515D+13.46829D2 | | 0.428 |
| *Stereospermum personatum* (hassk.) D. Chatterjee | | Bignoniaceae | V=1.38791-12.52739D+30.51466D2-9.65242D3 | | 0.637 | |
| *Syzygium cumini* (L) Skeels. | | Myrtaceae | √V=0.05923+2.33654D | | 0.647 | |
| *Tectona grandis* Linn.f. | | Verbenaceae | V=0.19112-3.25372D+17.99194D2-1.66117D3 | | 0.568 | |
| *Terminalia myriocarpa* Heurck & Mȕell. Arg. | | Combretaceae | √V=0.30858+4.3566D-1.64694√D | | 0.508 | |
| *Tetrameles nudiflora* R.Br. | | Datiscaceae | V/D2=0.12914/D2-2.50478/D+15.25 | | 0.289 | |
| *Toona ciliata* M. Roem. | | Meliaceae | V=1.10314-3.52579√D+15.50182D2 | | 0.424 | |
| *Vitex peduncularis* Wall. Ex Schauer. | | Verbenceae | V=-0.16386+2.23116D-7.00969D2+22.13099D3 | | 0.771 | |
| *Zanthoxyllum rhetsa* (Roxb.) DC. | | Rutaceae | V=-0.04521+0.45290D+5.1825D2 | | 0.496 | |

V= Volume (m3), DBH =Diameter at Breast Height (m)