February 1998

GOB/WB

Forest Resources Management Project

Technical Assistance Component

Final Report: Forest Inventory of the Natural Forest and Forest Plantations (COX'S BAZAR Forest Division)

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Ministry of Environment and Forests
Dhaka, Bangladesh
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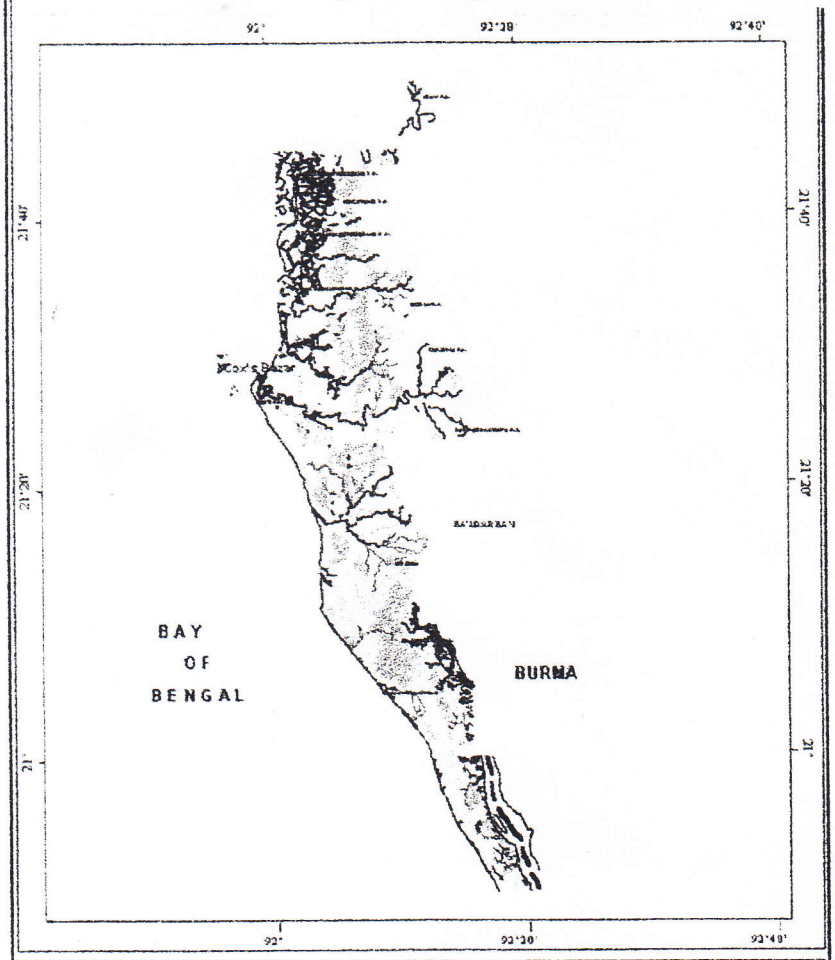
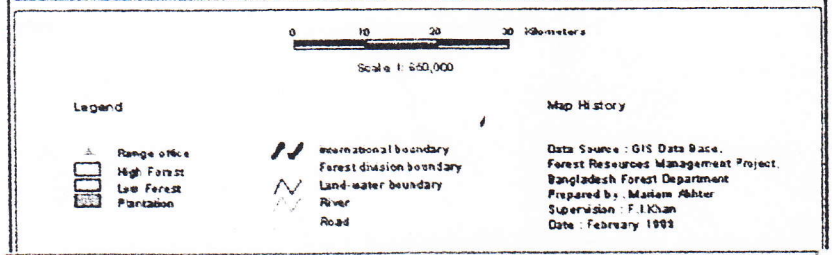
COX'S BAZAR Forest Statistics

Cox's Bazar Forest Division
Major Forest Types





Statistics	Cox's Bazar Natural Forest	Cox's Bazar Plantations
Area, ha	30398	19084
n	544	444
NT/ha	80	67
BA/ha	8.97	3.52
Vol/ha	74.36	19.68
SE%	3.8	6.7
Seedlings	4888	4288
Saplings	1401	1092
Poles	339	696

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Conclusions and Recommendations

1. The FRMP forest inventory of the Cox's Bazar Forest Division has generated the desired results as evidenced by the sampling errors of the tree volume and other estimates. The sampling error of the volume estimate at the division level is 3.4% which is much lower than the target precision of not greater than 5%. The sampling errors at the stratum level are also within the designed targets of the forest inventory (Table 4) except in the case of the young Teak and short-rotation species plantations, T/OT 80+ and All SRS, which have very high variability. For example, the sampling errors of the volume estimates for HF/GF and LF (natural stands with large crown and small crown trees) are only 5.6% and 5.5% while those of the two important Teak strata (T/OT 1959 and T/OT 60-79) are 12.7% and 10.2%, respectively, which are well within the designed targets of 10 to 15% sampling error at the stratum level. When taken altogether, the sampling error of the volume estimate for the natural forest is only 3.8% while it is 6.7 % for the plantations including the two strata with high variability. Thus, it can be concluded that the results of the FRMP inventory of the natural forest and forest plantations in the Cox's Bazar Forest Division are quite adequate for forest management planning purposes.

2. A comparison of the 1984 FAO/UNDP inventory and this inventory shows that the area of the natural forest (HF/GF/LF/ST) had decreased by about 12% while the forest plantations had increased by about 8% during the 12-year period. The number of trees (30-cm+ dbh) per hectare in all the four strata in the natural forest had decreased by 36% but the pole-sized trees (10 to 30-cm dbh) had increased from 127 (HF) and 189 (LF) in 1984 to 203 (all strata) in 1996. The tree volume/ha had decreased by about 19% during the same period. The volume per hectare of the two important Teak strata also decreased from about 43 to 118 cu.m. (T/OT 59) in 1984 to about 52 cu.m. in 1996, and from 35 to 60 cu.m. (T/OT 60-79) in 1984 to about 34 cu.m./ha in 1996 in spite of 12 additional years of growth. In the case of the bamboo resources (in the natural forest and plantations), the number of culms

[1] All programming tasks were done by Delwar Hossain, Computer Programmer, FRMP-TA except the first prototype of DEVP which was programmed by A. Revilla.

per hectare for both Muli and other species had decreased dramatically over the 12-year period. These comparative values are summarized in Table 6.

3. The integrated forest management plan for the Cox's Bazar Forest Division is being prepared by FRMP. The issue on management of the natural forest, what to do with the timber resources in the HF/GF/LF areas which contain relatively high volumes of timber, the ST areas which have relatively low volume, the relatively low yields of the Teak and very low yields of the other long-rotation and short-rotation plantations, all these have to be addressed by the forest management system in addition to the social, environmental and biodiversity conservation issues. There is a lot of room to improve the yields of the forest plantations of the Cox's Bazar Forest Division to help meet the wood requirements of the country.

4. A **continuing resources change assessment system** (CRCAS) for the Cox's Bazar Forest Division (CBFD) is hereby strongly recommended. CRCAS must be designed, supported and implemented to provide timely (at least annually) resource change statistics for the Forest Managers, the Leaders and people to respond effectively to any aggravating circumstances. The basic components of CRCAS have now been set in place by FRMP at the RIMS/GIS Wing of FD. What more are needed include: a) staff to operate and maintain the system, b) annual field check/enumeration/measurement of one-tenth to one-fifth of the one-minute grid plot clusters so that all plot clusters would have been re-visited/re-enumerated in five to 10 years, c) annual/biennial acquisition of appropriate satellite imageries covering portions (sensitive portions) of the CBFD to detect resource changes, d) ground monitoring system to check areas identified on the satellite imagery to have unusual activities/changes, and e) RIMS/GIS personnel to conduct necessary studies including strategic studies to manage and conserve the CBFD forests and other forest resources for the maximum benefit of the people of Bangladesh.

5. With the adoption of the 100-ha cell (1 km grid) divided into 25-ha quadrats (1/2 km sub-grid) as field operational units, the initial (1996) condition of each cell and quadrat can be described by information available in the RIMS-GIS database and the results of the forest inventory. Each cell and quadrat has a lat-long coordinate hence the forest type and forest inventory stratum of each cell and quadrat can be identified. The stratum statistics generated by the forest inventory are then used to quantify the forest resources in the cell and quadrat, at least initially. All data that were gathered in the field and were entered in the forest inventory database are also available at the plot/plot cluster level (even at the tree level) and each plot cluster has a lat-long coordinate, hence, more detailed information on each plot cluster can be readily accessed whenever necessary. The information about each cell and quadrat is then updated on an annual/continuing basis by the field offices as part of CRCAS and proactive forest management.

Scope and Objectives of the Forest Inventory Sub-Component of FRMP

The FRMP forest inventory sub-component covers eight Forest Divisions, namely: the Sundarbans Reserved Forest, Cox's Bazar, Chittagong, Cox's Bazar, Noakhali C/A, Chittagong C/A, Patuakhali C/A and Bhola C/A Forest Divisions. As indicated in the sampling design specifications of these forest inventories, the objectives of the FRMP inventories are threefold. The primary objective is to generate information on the standing timber and other resources (bamboo, rattan, golpatta/nipa and medicinal plants) for integrated forest management planning

purposes. The second objective is to provide abstract time-series data, whenever possible, for plantation yield modeling purposes. And, the third objective is to set up or at least provide a basis for setting up a system of "hidden" recurrent sample plots for continuous monitoring and assessment of change in the target forest areas.

Target Precision, Sample Size (No. of Plots) and Sample Plot Configuration

Target precision. - The FRMP forest inventories were designed to attain a precision of the estimates of not greater than 5% sampling error based on the total volume of trees/ha in each division, not more than 10 to 15% sampling error for each of the more important strata, and not more than 20% sampling error for the other strata. These precision levels are considered adequate for forest management planning purposes and they apply in all the forest divisions covered by FRMP, except the C/A divisions where it would be necessary to double the resources and time requirements of the field sampling work to attain a sampling error of 5% or less at the division level.

Sample size, n, for the Cox's Bazar Forest Division. – Considering that aerial photo-interpretation and mapping of the CBFD had not been started at the time the sampling design was being prepared, a stratified random sampling design was not feasible. As such, a systematic sample was resorted to. With the wide range of areas of the forest types in the division, it was more efficient to use unequal probability sampling. As a result, the sampling unit may vary in weight from one stratum to another. To attain the target precision of estimates, based on available information at the time, the planned sample size was 1017 for the whole division with four different grids: 40"x40" in HF, 40"x20" in LF, 20"x20" in ST and in all the plantations, and 10"x10" in B stratum. As such, a sampling unit in the HF stratum has twice the weight of one in LF and four times that in ST and in the forest plantations. The details of the sample distribution into the tentative strata are given in the first fielding report of the FIS (June 1995).

Sample plot configuration. – The "sample plot" adopted for the FRMP forest inventories is a **cluster of five plots** where a "plot" is actually a set of sub-plots, one sub-plot each for seedlings (1-m radius); saplings, rattan with less than 3-m long stem, small stem/other bamboo and medicinal plants (2-m radius); poles, Muli bamboo and rattan with 3-m stem or longer (5-m radius); and, trees and plantation bamboo (11-m radius). The five plots in the plot cluster are spaced 100 meters apart (in the Hill forests) reckoned from the center plot along the cardinal directions except in the case of the natural bamboo stands where the plots are 50 meters apart.

Field Sampling

Samples of the Field Data Enumeration Forms for the Hill forest, one for the natural forest and another for the forest plantations are given in Appendix 1. The field sampling procedures and instructions are contained in the second report of the FIS (July 1995). These procedures/ instructions were refined during the training of the field sampling crews starting with the ACFs in October 1995. The codes for the plot and tree description variables and codes for trees and other species are shown in Appendices 2 and 3, respectively.

Field sampling started after the field crews had been trained in the respective Divisions in late 1995 except in the Coastal Divisions where the first sampling crews were fielded only during

the 1996-97 season. All regular field enumeration activities were completed in May 1997. All field sampling activities were under the direct supervision of the respective DFO-WP.

Data Entry and Validation

Data entry and initial validation was scheduled to start after the field work season in May 1996. To meet this schedule, the Data Entry and Validation Program (DEVP) was designed starting in December 1995 and programming was scheduled in early 1996. The first prototype of DEVP was ready in May 1996 as scheduled. The structure and technical specifications of the dbf tables and DEVP are indicated in Appendix 4. The details are given in Annex 1 of the FIS' report for his second mission (May 1996).

While the field data were being prepared for entry into DEVP, further refinements were made on the computer program. Data entry and initial validation finally began in July 1996 and continued until this activity was completed for each of the eight Divisions, first, for Sylhet in mid-May 1997 followed by the Sundarbans in early August. All data entry and initial validation activities were completed by the Forest Divisions in September 1997. These activities were also under the direct supervision of the respective DFO-WP.

Tree Volume Equations Studies

In December 1995, initial arrangements were made with BFRI Researchers for them to assist in the improvement of existing tree volume equations for some plantation species, specifically those that were derived using data sets that did not include large trees which were not available at the time the data for the existing equations were collected. It was later agreed that the designated BFRI Researchers (Messrs. Md. Abdul Latif and Sukumar Das and crew) gather additional data particularly on bigger size trees of Akashmoni (*Acacia auriculiformis*), Mangium (*Acacia mangium*) and *Eucalyptus spp*. Data collection started in April 1996 and was completed in June 1996. Data entry and processing were done by the BFRI Researchers thereafter and specification of the tree volume equations for the three species was undertaken jointly with them in January 1997. The results of these studies are being used with existing equations of other species in the generation of tree statistics for the plantations in Sylhet, Chittagong and Cox's Bazar.

Data Processing

The Field Data Processing Program (FDPP). - Design of FDPP started in early 1996 and the technical specifications, flow charts and algorithms were ready to guide the Programmer in encoding FDPP in early May 1996. The draft of the details of the design and technical specifications are contained in Annex 2 of the FIS' report for his second mission (May 1996). The final revisions/refinements are included in the revised version of the same document prepared and submitted in October 1997.

Programming started before July 1996 and individual modules were tested as soon as they were finished. Debugging and refinements continued to be made until the Sylhet and Sundarbans databases were received for final validation and processing.

Final data validation. – Final validation of the forest inventory databases took longer than expected because of high incidence of errors in data entry of plot cluster location coordinates in all cases. Identification of the stratum of each plot cluster as determined on the RIMS-GIS vegetative cover maps also had to wait for completion of digital mapping of the forest divisions.

One thousand one hundred fifty-eight (1158) plot clusters were enumerated and validated for final processing for the Cox's Bazar Forest Division, 544 in the natural forest and 614 in the forest plantations and other areas.

The main forest types, final strata and species/groups. – The main forest types, final strata and species groups used to summarize the stand and stock tables and statistics are given below. The main forest types and strata are consistent with the classes identified in aerial photo-interpretation which were mapped and stored in the RIMS-GIS database.

The **main forest types** are: HF (natural forest with large crown trees, >50% crown cover), GF (similar to HP with Garjan as the dominant species), LF (natural forest with small crown trees, >50% crown cover), ST (scattered trees), Bamboo/bamboo dominated stands, long-rotation species plantations, short-rotation species plantations and others. The hectarages and distribution of these types into the forest ranges and blocks are given in Tables 1 and 1a. The areas of the forest plantations by species/species mix and planting year/period and their distribution into the ranges and blocks and final strata are shown in Tables 2, 2a and 3.

The final **strata** used to generate the stand and stock tables and statistics for the Hill forests are shown below.

Final Stratification for Generation of Forest Statistics

Cox's Bazar: Strata	Chittagong: Strata	Sylhet Cox's Bazar: Stratra
1 HF	10 HF/GF	10 HF/GF
2 LF	20 LF	20 LF
3 ST	30 ST/TB	30 ST/TB
4 B/BO/OB	40 B	40 B
5 T/OT, up to 1959	51 T/OT, up to 1959, <75% cc 52 T/OT, up to 1959, >75% cc	50 T/OT, up to 1959, all cc
6 T/OT, 1960-1979	61 T/OT, 1960-1979, <50% cc 62 T/OT, 1960-1979, 50 - 75% cc 63 T/OT, 1960-1979, >75% cc	61 T/OT, 1960-1979, <50% cc 62 T/OT, 1960-1979, 50 - 75% cc 63 T/OT, 1960-1979, >75% cc
7 T/OT, 1980-1989	70 T/OT, 1980-1989, all cc	71 T/OT, 1980-1989, <75% cc 72 T/OT, 1980-1989, >75% cc
8 T/OT, 1990 and up	81 T/OT, 1990 and up, <75% cc 82 T/OT, 1990 and up, >75% cc	80 T/OT, 1990 and up, all cc
9 Other LRS, up to 1984	90 Other LRS, up to 1979, all cc	91 Other LRS, up to 1979, <50% cc 92 Other LRS, up to 1979, 50 - 75% cc 93 Other LRS, up to 1979, >75% cc
10 Other LRS, 1985 and up	101 Other LRS, 1980 and up, <50% cc 102 Other LRS, 1980 and up, 50-75% 103 Other LRS, 1980 and up, >75% cc	103 Other LRS, 1980 and up, >75% 104 Other LRS, 1980 and up, <75% cc
11 Mo, up to 1989	---	---
12 Eu/Am/Ac/Kd/Others, up to 1989	120 Eu/Am/Ac/Others, up to 1989 all cc	120 Eu/Am/Ac/Others, up to 1989 all cc
13 Eu/Am/Ac/Mo/Others, 1990 & up	131 Eu/Am/Others, 1990 & up, <50% 132 Eu/Am/Others, 1990 & up, 50-75%	131 Eu/Am/Others, 1990 & up, <50% 132 Eu/Am/Others, 1990 & up, 50-75%

	133 Eu/Am/Others, 1990 & up, >75%	133 Eu/Am/Others, 1990 & up, >75%
14 Other plantations	140 Other plantations	140 Other plantations
15 Others (e.g. EN, FP, Br)	150 Others (e.g. EN, FP, Br, ...)	150 Others (e.g. EN, FP, Br, ...)

Notes: In considering the crown closure classes (cc) of the forest plantations in Chittagong and Cox's Bazar, a stratum with small area was combined with the stratum with attributes closest to its own whenever practicable. For computational purposes, the strata are given numerical codes for each Forest Division. Similar strata may still be combined in final summary of the results of the forest inventory.

Legend:

HF - large crown high forest, >50% crown closure
GF - HF mainly composed of *Dipterocarpus spp.*
LF - small crown high forest, >50% crown closure
ST - scattered trees, about 20% crown closure
TB - natural forest (<50% crown closure) mixed with bamboo
B - bamboo (>80% stocking)
Bo - bamboo (<80% stocking)
OB - bamboo (dominant) with other species
T - Teak
OT - Teak with other species
LRS - long rotation species
MO - Molucanna
Eu - *Eucalyptus spp.*
Am - *Acacia mangium*
Ac - *Acacia auriculiformis*
Kd - *Anthocephalus cadamba (chinensis)*
SRS - short rotation species
EN - Encroached; FP - Failed Plantation
Br - Brush

Specifically for the Cox's Bazar Forest Division, the following strata were combined to generate more meaningful estimates: 51 and 52; 61, 62 and 63; 70, 81 and 82; 101, 102 and 103; and, 120, 131, 132 and 133.

Five **species groups** were decided upon and are being used to summarize the stand and stock tables and statistics for Sylhet, Cox's Bazar and Chittagong Forest Divisions. These are: Special Class, Class A, Class B, Class C and Class D which correspond with the relative market value of the wood derived from the trees. The tree species codes which are given in Appendix 3 also show the commercial class to which each species belongs.

Data processing. – As soon as the location coordinates of the plot clusters were corrected, their respective strata identified, the blocks/beats/ranges validated, and the stratum areas were determined, processing of the CBFD forest inventory data went into full swing. The data were analyzed not only by stratum but also by range and beat/block but the results at the range and beat/block levels could be misleading and are not statistically meaningful nor useful.

In addition to the usual stand and stock tables (per ha estimates) by dbh classes and species groups and total estimates (forest statistics) for the whole CBFD, additional information needed in forest management planning were also generated, e.g. plantation plot data for yield/growth modeling. Such data were generated for Teak, Garjan, Mangium, and other plantation species.

The timber/forest statistics. – The statistics presented herein are the final results of the FRMP forest inventory of the Cox's Bazar Forest Division. The results of the forest inventory of the CBFD are summarized in Tables 4 and 5. The details of these results, the number of trees, their basal area and utilizable volume per hectare, the number of poles, saplings, seedlings, bamboo (immature and mature culms), rattan and medicinal plants are given in the Stand and Stock Tables and Statistics in Appendices 7 and 8. Table 4 gives the summary of tree volumes by stratum and species group. Table 5 shows the poles, saplings and seedlings by species group and stratum.

Regeneration statistics. – The statistics on regeneration are summarized in Table 5. The details are given in the stand and stock tables in Appendix 7. The number of poles vary from about 300 to more than 900 stems per hectare in the different strata. The saplings number about 1000 to 1600 per hectare in most of the strata except T/OT 60-79 and T/OT 80+ where there are only 580 to 800 saplings/ha. There are more than 3000 to almost 7000 seedlings/ha except in the same two T/OT strata where there are less saplings. As in Sylhet, however, a greater proportion of the regeneration belong to the Class D species group.

The Confidence Limits

Confidence limits of stratum mean. - The 95% confidence limits of the stratum mean, **xbar**, is given by the familiar expression:

xbar ± t*se

where: **t** is the t-value at 5% with degrees of freedom, **n*h*-1** (where **n***h* is the sample size of stratum *h*) and **se** is the standard error of the stratum mean.

Confidence limits of the population mean. - The 95% confidence limits of the population mean, **xdbar**, in stratified sampling is more complicated than the usual procedure specifically in determining its effective degrees of freedom, **ne**.

xdbar ± t*sed

where: **t** is the t-value at 5% level with degrees of freedom **ne** and **sed** is the standard error of the population mean; **ne** is given by the following expression (From: Cochran).

$$ne = (\sum Gh*Sh\hat{}2)\hat{}2/\sum(Gh\hat{}2*Sh\hat{}4/(nh-1))$$

where: $Gh = Nh*(Nh-nh)/nh$,
$Sh\hat{}2$ is the sample variance of stratum *h*,
Nh is the size of stratum *h*,
nh is the sample size for stratum *h*, and
Nh and nh are in the same units, e.g. ha.

Computation of the effective degrees of freedom, ne, in stratified sampling has been amply demonstrated in the final reports on the forest inventory of the Sundarbans Reserved Forest and Coastal plantations. While a similar exercise can be easily done for the CBFD, just like in the

case of Sylhet, it would be more meaningful to look at the confidence intervals for some estimates at the stratum level particularly HF/GF, LF, T/OT 1959 and T/OT 1960-1979. The 95% confidence intervals of the division-wide volume estimates for these strata are:

HF/GF: 1164300 – 1.96*.056*1164300 to 1164300 + 1.96*.056*1164300
or about 1036506 to 1292094 cu.m.

LF: 1007310 - 1.96*.055*1007310 to 1007310 + 1.96*.055*1007310
or about 898722 to 1115898 cu.m.

T/OT 1959: 101890 – 2.025*.127*101890 to 101890 + 2.025*.127*101890
or about 75686 to 128094 cu.m.

T/OT 60-79: 193150 – 1.96*.102*193150 to 193150 + 1.96*.102*193150
or about 154535 to 231765 cu.m.

Assessment of Change in the Forest Resources

Changes in area. - Table 6 summarizes the comparative areas of the major forest types in the 1984 FAO/UNDP inventory and the 1996 FRMP inventory. It should be noted that the 1984 inventory estimated areas from 1:30000-scale aerial photographs while the FRMP estimates were from 1:15000-scale aerial photos. A comparison of the 1984 FAO/UNDP inventory and this inventory shows that the area of the natural forest (HF/GF/LF/ST) had decreased by about 12% while the forest plantations had increased by about 8% during the 12-year period. It is difficult to make comparisons based on specific plantation strata because all the young plantations are lumped into one group in the 1984 statistics.

Change in stocking. – Table 6 also shows the change in stocking of the natural forest and bamboo stratum over the 12-year period. The number of trees (30-cm+ dbh) per hectare in all the four strata in the natural forest had decreased by 36% but the pole-sized trees (10 to 30-cm dbh) had increased from 127 (HF) and 189 (LF) in 1984 to 203 (all strata) in 1996. The tree volume/ha had decreased by about 19% during the same period. The volume per hectare of the two important Teak strata also decreased from about 43 to 118 cu.m. (T/OT 59) in 1984 to about 52 cu.m. in 1996, and from 35 to 60 cu.m. (T/OT 60-79) in 1984 to about 34 cu.m./ha in 1996. In the case of bamboo resources, the number of culms per hectare for both Muli and other species had decreased dramatically over the 12-year period. These and other comparative values are summarized in Table 6.

javr/14january98

Table 1. Forest/Land Use/Cover Type by Range: Area in ha. (Cox's Bazar)

Range	Accret	Agric.,	Bamb	Brush	Encroach	FRI	Garjan	HF (large	Loggi	LF (small	Non pr	Open	Outside	Plantatio	Recent Clearin	Sandb	Scattered	Teak Nurs	Unid	Water,	Total
n.a.	175.9	4435.9	0	0	0	0	0	0	0	0	0	0	0	0	0	55.8	0	0	0	1000.9	5668.5
Bagkhali	0	634.3	0	409.6	5.5	0	0	1622.5	0	678.9	0	4.8	0	1202.3	276.9	0	332.6	0	0	9.2	5176.6
Cox's Bazar	0	125.5	0	352.1	10.1	0	4.4	0	0	529.7	0	5.9	0	282.6	0	24.7	391.3	0	0	1.2	1727.5
Dhoapalong	0	573.2	0	453.2	8	0	0	126.4	0	1000.9	0	1.3	0	2125.9	66.7	0	130.1	0	0	28.2	4513.9
Fashiakhali	11.9	822.4	0	45.1	37.6	73.2	38.4	370.7	0	54.5	0	17.1	0	1919.2	2.3	0	18.3	0	0	159	3569.7
Fulchari	0	402.5	0	192.4	72.9	0	91.6	527.1	0	396.5	0	3.7	0	1758.6	0	0	114.5	0	0	24.7	3584.5
Idgaon	0	272.3	0	76.7	6.1	0	2.3	1598.7	0	467.7	0	1.4	0	1399.7	0	2.8	73.2	0	0	9.7	3910.6
Inani	0	489.9	0	58.4	0	0	0	2882.7	14	3028	0	0	0	797.6	249.4	0	178.5	0.6	0	10.5	7709.6
Meherghona	0	403.5	0	471.3	34.6	0	0	909.1	0	459.3	0	3.3	0	2707.7	0	0	89.2	0	0	8	5086
P.M.Khali	0	996.4	0	264	157.2	0	0	0	0	0.1	0	26.4	0	164.7	0	0	0	0	0	0.4	1609.2
Panerchara	0	101.9	0	405.6	0	0	0	1.5	0	33.2	0	1.1	0	591.6	0	0	503.1	0	0	6.3	1644.3
Teknaf	0	920.8	0	796.5	0	0	49.2	1268.9	18.9	3684.6	109.8	0	0	1046.7	88.1	0	890.1	0	0	7.6	8881.2
Ukhia	0	1391.6	0	123.9	0	0	0	1429.5	116.4	2354.3	0	0	0	1758	532.6	0	130.9	0	9.2	11.9	7858.3
Whykheong	0	444.5	0	87.7	0	0	8.6	1209.2	26.9	1216	0	0	0	1735.2	292.1	0	86.2	0	0	1.8	5108.2
n.a.	1014	54984	2.3	1398	478.7	0	97.7	279.2	1.1	445.1	0	23.2	0	2781.2	55.5	277.5	593.9	0	0.1	6234.2	68665.4
Total	1202	66999	2.3	5134.5	810.7	73.2	292.2	12225.5	177.3	14348.8	109.8	88.2	0	20271.0	1563.6	360.8	3531.9	0.6	9.3	7513.6	134713.5

Table 1a. Area by Forest/Land Use/Cover Type by Block, in ha. (Cox's Bazar)

Range	Block	Accrete	Agric., S	Bam	Brush	Encroa	FRI A	Garjan	HF(larg	Loggi	LF(smal	Non pro	Open/Er	Outside	Plantati	Recent Cle	Sandb	Scatter	Teak	Unid	Water	Total
	n.a	175.9	4435.9	0	0	0	0	0	0	0	0	0	0	0	0	0	55.8	0	0	0	1001	5668.5
Bagkhali	Bagkhali	0	62.1	0	40.6	0	0	0	424.3	0	6	0	2.1	0	442.1	0	0	6.4	0	0	0.5	984.1
	Barabil	0	114.4	0	28.7	0.6	0	0	567.4	0	10.2	0	0.6	0	0	0	0	9.9	0	0	0.1	731.9
	Gilatali	0	75.9	0	97.2	2.1	0	0	148.8	0	230.7	0	2.1	0	226.9	83.2	0	128	0	0	5	999.9
	Jungcha	0	108.4	0	21.2	2.8	0	0	59.8	0	109.2	0	0	0	0	0	0	38.5	0	0	0	339.9
	Kachapi	0	88.5	0	2.1	0	0	0	234.1	0	173.9	0	0	0	97.1	87.1	0	6.2	0	0	2.6	691.6
	Manirjhil	0	88.6	0	189.8	0	0	0	0	0	42.4	0	0	0	70.8	13.6	0	97.1	0	0	0	502.3
	Rajarkul	0	54.1	0	2.5	0	0	0	169.9	0	49.1	0	0	0	29.3	91.9	0	41.4	0	0	0	438.2
	Ramkot	0	42.3	0	27.5	0	0	0	18.2	0	57.4	0	0	0	336.1	1.1	0	5.1	0	0	1	488.7
	Total	0	634.3	0	409.6	5.5	0	0	1622.5	0	678.9	0	4.8	0	1202.3	276.9	0	332.6	0	0	9.2	5176.6
Cox's B	Bhanga	0	6.1	0	35.3	0	0	0	0	0	524.4	0	0	0	1.8	0	24.7	271.9	0	0	0	864.2
	Chainda	0	44	0	98.8	6.6	0	0	0	0	5.3	0	0	0	189	0	0	94.3	0	0	0.7	438.7
	Jhilanja	0	48.1	0	204.7	1	0	4.4	0	0	0	0	5.9	0	71.2	0	0	25.1	0	0	0.5	360.9
	Jhilanja	0	27.3	0	13.3	2.5	0	0	0	0	0	0	0	0	20.6	0	0	0	0	0	0	63.7
	Total	0	125.5	0	352.1	10.1	0	4.4	0	0	529.7	0	5.9	0	282.6	0	24.7	391.3	0	0	1.2	1727.5
Dhoapal	Dariadig	0	185.4	0	30.5	1.9	0	0	0	0	15	0	1.3	0	769.3	0	0	19.6	0	0	4.6	1027.6
	Dhoapal	0	79.1	0	155.4	6.1	0	0	0	0	136.8	0	0	0	651.6	0	0	27	0	0	4.2	1060.2
	Himchar	0	3.1	0	48.4	0	0	0	0	0	374.2	0	0	0	36.6	0	0	0.5	0	0	0	462.8
	Khuniap	0	54.4	0	211.2	0	0	0	0	0	20.2	0	0	0	437.8	0	0	79.2	0	0	0	802.8
	Maricha	0	108.4	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	10.4	122.8
	Paglirbil	0	102.9	0	7.7	0	0	0	10.5	0	121.4	0	0	0	169.2	0	0	1.9	0	0	4.5	418.1
	Upper R	0	39.9	0	0	0	0	0	115.9	0	333.3	0	0	0	57.4	66.7	0	1.9	0	0	4.5	619.6
	Total	0	573.2	0	453.2	8	0	0	126.4	0	1000.9	0	1.3	0	2125.9	66.7	0	130.1	0	0	28.2	4513.9
Fashiak	Bamu	1.4	110.9	0	0	0	0	0	370.7	0	24.4	0	0	0	57.8	0	0	6.8	0	0	7.8	579.8
	Dulahaz	0	188.6	0	19.5	19.3	0	27.4	0	0	28.9	0	0.2	0	473.4	0	0	0	0	0	2.6	759.9
	Fashiak	0	52.9	0	16.8	3.3	0	0	0	0	0	0	0.1	0	334.6	0	0	0	0	0	0.5	408.2
	Hargaza	0	91.4	0	1.5	14	0	0	0	0	0	0	12.9	0	481.3	0	0	8.1	0	0	6.2	615.4
	Manikpu	0	0	0	0	0	0	0	0	0	1.2	0	0.9	0	0	0	0	3.4	0	0	0	5.5
	Ringbha	10.5	378.6	0	7.3	1	73.2	11	0	0	0	0	3	0	572.1	2.3	0	0	0	0	141.9	1200.9
	Total	11.9	822.4	0	45.1	37.6	73.2	38.4	370.7	0	54.5	0	17.1	0	1919.2	2.3	0	18.3	0	0	159	3569.7
Fulchari	Fulchari	0	136.9	0	153.7	16.7	0	0.9	175.4	0	80.1	0	1.4	0	526	0	0	28.9	0	0	7.7	1127.7
	Khuntak	0	94.6	0	16.6	3.9	0	0.1	0	0	10.3	0	2	0	784.5	0	0	63.5	0	0	16.5	992
	Medhak	0	45.8	0	7	20	0	81.2	0	0	197.7	0	0	0	5.1	0	0	19.3	0	0	0	376.1
	Napitkh	0	125.2	0	15.1	32.3	0	9.4	351.7	0	108.4	0	0.3	0	443	0	0	2.8	0	0	0.5	1088.7
	Total	0	402.5	0	192.4	72.9	0	91.6	527.1	0	396.5	0	3.7	0	1758.6	0	0	114.5	0	0	24.7	3584.5

Range	Block	Accrete	Agric., S	Bam	Brush	Encroa	FRI A	Garjan	HF(larg	Loggi	LF(smal	Non pro	Open/Er	Outside	Plantati	Recent Cle	Sandb	Scatter	Teak	Unid	Water	Total
Idgaon	Bhomari	0	98.9	0	43.9	6	0	0	199.9	0	10.7	0	1.4	0	848.7	0	2.8	23.5	0	0	6.1	1241.9
	Idgarh	0	71.8	0	32.8	0.1	0	2.3	504.2	0	256.4	0	0	0	461	0	0	36.9	0	0	0.8	1366.3
	Tulatali	0	101.6	0	0	0	0	0	894.6	0	200.6	0	0	0	90	0	0	12.8	0	0	2.8	1302.4
	Total	0	272.3	0	76.7	6.1	0	2.3	1598.7	0	467.7	0	1.4	0	1399.7	0	2.8	73.2	0	0	9.7	3910.6
Inani	Bara Ina	0	12	0	1.3	0	0	0	1560.9	0	928.5	0	0	0	30.8	100.1	0	19.8	0	0	5	2658.4
	Chhota I	0	22.5	0	0	0	0	0	493.1	0	1127.9	0	0	0	85.6	0	0	3.5	0	0	5.5	1738.1
	Jaliapal	0	148.3	0	55.7	0	0	0	0.3	0	0.6	0	0	0	421.5	80.8	0	0	0	0	0	707.2
	Rajapal	0	159.9	0	0	0	0	0	279.5	14	155	0	0	0	28.7	34.9	0	9.4	0	0	0	681.4
	Ruppati	0	40.7	0	1.4	0	0	0	192.4	0	550	0	0	0	206	0	0	142.4	0.6	0	0	1133.5
	Swankh	0	106.5	0	0	0	0	0	356.5	0	266	0	0	0	25	33.6	0	3.4	0	0	0	791
	Total	0	489.9	0	58.4	0	0	0	2882.7	14	3028	0	0	0	797.6	249.4	0	178.5	0.6	0	10.5	7709.6
Meherg	Bengde	0	12.4	0	0	0	0	0	216.9	0	182	0	0	0	120.1	0	0	2	0	0	0	533.4
	Joariana	0	62.7	0	79.6	0	0	0	0.7	0	0	0	0	0	598.6	0	0	0	0	0	0.1	741.7
	Jumchar	0	26.1	0	68.9	0	0	0	502.2	0	216.3	0	0	0	342.3	0	0	66.3	0	0	0	1222.1
	Kalircha	0	135.6	0	91.7	3.7	0	0	106.9	0	3	0	0.7	0	900.3	0	0	5.8	0	0	0	1247.7
	Machua	0	166.7	0	231.1	30.9	0	0	82.4	0	58	0	2.6	0	746.4	0	0	15.1	0	0	7.9	1341.1
	Total	0	403.5	0	471.3	34.6	0	0	909.1	0	459.3	0	3.3	0	2707.7	0	0	89.2	0	0	8	5086
P.M.Kha	P.M. Kh	0	214.8	0	61	69.5	0	0	0	0	0.1	0	0.6	0	59.3	0	0	0	0	0	0.4	405.7
	P.M. Kh	0	196	0	63.6	65.7	0	0	0	0	0	0	0	0	57	0	0	0	0	0	0	382.3
	Tatuiya (	0	481.4	0	92.7	0.5	0	0	0	0	0	0	24.8	0	4.6	0	0	0	0	0	0	604
	Tutuk K	0	104.2	0	46.7	21.5	0	0	0	0	0	0	1	0	43.8	0	0	0	0	0	0	217.2
	Total	0	996.4	0	264	157.2	0	0	0	0	0.1	0	26.4	0	164.7	0	0	0	0	0	0.4	1609.2
Panerch	Mithach	0	28.4	0	315.6	0	0	0	0	0	33.2	0	0.2	0	192.6	0	0	486.6	0	0	0.8	1057.4
	Panerch	0	73.5	0	90	0	0	0	1.5	0	0	0	0.9	0	399	0	0	16.5	0	0	5.5	586.9
	Total	0	101.9	0	405.6	0	0	0	1.5	0	33.2	0	1.1	0	591.6	0	0	503.1	0	0	6.3	1644.3
Teknaf	Dakhin	0	106.5	0	90.1	0	0	0	36	0	379.2	27.1	0	0	60.1	12.8	0	109.3	0	0	0.7	821.8
	Dumdu	0	67.4	0	50.5	0	0	0	150.4	0	325.1	10.3	0	0	56.8	40.5	0	49.7	0	0	2	752.7
	Dumdu	0	4	0	8.4	0	0	0	66.1	0	86.9	0.5	0	0	84.2	0	0	1.1	0	0	1.6	252.8
	Ledha	0	71.1	0	185.9	0	0	0	125.3	0	604.6	8.6	0	0	153.9	14.4	0	57.5	0	0	1.9	1223.2
	Madhya	0	173.5	0	252.1	0	0	0	223.5	18.9	468.9	15.4	0	0	278.4	20.4	0	255	0	0	0.4	1706.5
	Mathabh	0	86.3	0	36	0	0	3.8	211.2	0	435.6	3.6	0	0	0	0	0	72.6	0	0	0.6	849.7
	Rajarch	0	178.3	0	1.4	0	0	0	43.3	0	944.4	40.8	0	0	0	0	0	129.5	0	0	0.3	1338
	Silkhali	0	106.9	0	12.5	0	0	45.4	66	0	265.2	0	0	0	238.9	0	0	21	0	0	0	755.9
	Teknaf	0	126.8	0	159.6	0	0	0	347.1	0	174.7	3.5	0	0	174.4	0	0	194.4	0	0	0.1	1180.6
	Total	0	920.8	0	796.5	0	0	49.2	1268.9	18.9	3684.6	109.8	0	0	1046.7	88.1	0	890.1	0	0	7.6	8881.2
Ukhia	Battali	0	113.9	0	9.7	0	0	0	70.7	0	309.9	0	0	0	308.6	46.8	0	0	0	0	0	859.6
	Dochari	0	49.9	0	0	0	0	0	372.3	7.5	524	0	0	0	0	23.3	0	0	0	0	0	977
	Haludia	0	18.9	0	0	0	0	0	0	0	0	0	0	0	22.6	0	0	0	0	0	0	41.5

Range	Block	Accrete	Agric., S	Bam	Brush	Encroa	FRI A	Garjan	HF(larg	Loggi	LF(smal	Non pro	Open/Er	Outside	Plantati	Recent Cle	Sandb	Scatter	Teak	Unid	Water	Total
	Kutupal	0	111.7	0	4.5	0	0	0	236.4	42.1	576	0	0	0	86.7	140.5	0	0	0	0	0	1197.9
	Palongk	0	33.9	0	1	0	0	0	492.9	29.8	375.5	0	0	0	194	5.2	0	14.9	0	0	0	1147.2
	Ratnapa	0	240.1	0	18.6	0	0	0	17.1	0	113.8	0	0	0	42.4	64.5	0	70.1	0	0	11.9	578.5
	Thainkh	0	166.1	0	16.3	0	0	0	205.1	0	187.2	0	0	0	533.5	0	0	20.8	0	9.2	0	1138.2
	Uhalapa	0	67.3	0	35.6	0	0	0	0	0	25.1	0	0	0	318.4	0	0	23	0	0	0	469.4
	Ukhiarg	0	59.6	0	38.2	0	0	0	35	37	242.8	0	0	0	251.8	252.3	0	2.1	0	0	0	918.8
	Walapal	0	530.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	530.2
	Total	0	1391.6	0	123.9	0	0	0	1429.5	116	2354.3	0	0	0	1758	532.6	0	130.9	0	9.2	11.9	7858.3
Whykhe	Monkhal	0	27.6	0	10	0	0	0	29	14.7	65.6	0	0	0	528.5	160.8	0	0	0	0	0	836.2
	Raikheo	0	153.8	0	14.9	0	0	0	686.6	0	606.2	0	0	0	230.3	0	0	40.1	0	0	0	1731.9
	Saplapu	0	68.1	0	1.3	0	0	7.3	457.2	0	190.2	0	0	0	43.7	23.6	0	37.8	0	0	1.6	830.8
	Whykhe	0	195	0	61.5	0	0	1.3	36.4	12.2	354	0	0	0	932.7	107.7	0	8.3	0	0	0.2	1709.3
	Total	0	444.5	0	87.7	0	0	8.6	1209.2	26.9	1216	0	0	0	1735.2	292.1	0	86.2	0	0	1.8	5108.2
n.a.		1013.7	54984	2.3	1398	478.7	0	97.7	279.2	1.1	445.1	0	23.2	0	2781.2	55.5	277.5	593.9	0	0.1	6234	68665.4
Total		1201.5	66999	2.3	5135	810.7	73.2	292.2	12226	177	14349	109.8	88.2	0	20271	1563.6	360.8	3531.9	0.6	9.3	7514	134714

Table 2. Areas of Forest Plantations by Range, Species Group and Stratum (Cox's Bazar)

Species	Yr.Planted	Bagkhal	Cox's Baz	Dhoapalo	Fashiak	Fulchar	Idgaon	Inani	Mehergh	P.M.Khal	Panerch	Teknaf	Ukhia	Whykh	n.a.	n.a.+	Total
Acacia / K	80-84	0	0	0	0	0	0	0	0	0	0	0	0	34	0	0	34
	Total	0	0	0	0	0	0	0	0	0	0	0	0	34	0	0	34
Acacia Aur	85-89	0	0	1.8	0	0	0	0	0	0	0	0	0	0	0	0	1.8
	90-91	0	3.9	45.1	0	3.1	0	0	20.8	4.1	31.1	0	0	0	16.1	0	124.2
	92-93	0	12.9	64.8	0	0	0	0	45.5	23.9	16.1	0	0	0	63.8	0	227
	94	0	0	10.2	0	15	0	0	0	6.6	0	0	0	0	0	0	31.8
	Total	0	16.8	121.9	0	18.1	0	0	66.3	34.6	47.2	0	0	0	79.9	0	384.8
Acacia ma	20-29	0	0	0	0	0	0	0	0	4.6	0	0	0	0	0.2	0	4.8
	80-84	0	0	0	0	0	0	0	6.9	0	0	0	0	0	0	0	6.9
	85-89	0	13.1	0	0	39.2	0	0	52.2	2.9	91.1	0	0	0	13.4	0	211.9
	90-91	0	87.9	94	6.3	199.6	26.3	0	156.2	38.8	146.4	0	0	0	177.1	0	932.6
	92-93	0	39	18.4	0	16.1	0	0	33.2	26.2	34.8	0	0	0	103	0	270.7
	Total	0	140	112.4	6.3	254.9	26.3	0	248.5	72.5	272.3	0	0	0	293.7	0	1426.9
Acacia ma	85-89	0	2.5	0	0	0	0	0	0	0	0	0	0	0	1	0	3.5
	92-93	0	0	0	0	0	0	0	2.1	0	0	0	0	0	0.1	0	2.2
	Total	0	2.5	0	0	0	0	0	2.1	0	0	0	0	0	1.1	0	5.7
Acacia/ Eu	90-91	0	0	0	0	0	0	0	0	5.9	0	0	0	0	1.1	0	7
	92-93	0	0	0	0	0	0	0	57.8	0.9	0	0	0	0	0.9	0	59.6
	94	0	0	13.2	0	0	0	0	108.9	0	0	0	0	0	0.7	0	122.8
	Total	0	0	13.2	0	0	0	0	166.7	6.8	0	0	0	0	2.7	0	189.4
All species	30-39	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
(LRS)	40-49	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0	1.2
	50-59	1.3	0	1.7	0	0	0	7.1	0	0	0	24.9	0	0	1.1	0	36.1
	60-64	0	0	8.1	0	0	0	0	0	0	0	34.7	9.6	0	0.7	0	53.1
	65-69	2.6	0	0	0	0	0	0	0	0	0	10.7	18.3	9.8	3.2	0	44.6
	70-74	0	0	2.1	0	0	0	0	0	0	0	3.6	0	0	0	0	5.7
	Total	3.9	0	11.9	0	0	0	9.3	0	0	0	73.9	27.9	9.8	5	0	141.7
Chikrasi	85-89	0	0	0	0	44.8	0	0	0	0	0	0	0	0	0	0	44.8
	Total	0	0	0	0	44.8	0	0	0	0	0	0	0	0	0	0	44.8
Dhakijam	50-59	0	0	100	0	0	0	0	0	0	102.6	0	0	0	13.4	0	216

Species	Yr.Planted	Bagkhal	Cox's Baz	Dhoapalo	Fashiak	Fulchar	Idgaon	Inani	Mehergh	P.M.Khal	Panerch	Teknaf	Ukhia	Whykh	n.a.	n.a.+	Total
	60-64	0	0	0	0	0	11.6	0	0	0	0	0	0	0	0	0	11.6
	65-69	0	0	33.5	0	10.2	5.2	0	0	0	16.1	0	0	0	0	0	65
	70-74	0	0	0	0	0	22.6	0	10	0	0	0	0	0	0	0	32.6
	75-79	0	0	8.6	0	0	61.2	0	57.9	0	46.7	0	0	0	6.2	0	180.6
	80-84	0	1.8	109.8	0	11.2	57.3	0	41.9	0	0.5	0	0	0	19.3	0	241.8
	85-89	0	0	35.1	0	23.3	68.2	0	30.3	0	0	0	0	0	38.7	0	195.6
	90-91	0	0	0	0	3.1	0	0	0	0	0	0	0	0	2	0	5.1
	92-93	0	0	0	0	0	0	0	4.6	0	0	0	0	0	33.6	0	38.2
	94	0	0	0	0	0	0	0	0	0	0.7	0	0	0	38.3	0	39
	Total	0	1.8	287	0	47.8	226.1	0	144.7	0	166.6	0	0	0	151.5	0	1025.5
Eucalyptu	20-29	0	0	0	0	4.7	0	0	0	0	0	0	0	0	0.9	0	5.6
	80-84	0	0	0	0	10.9	0	0	0	0	0	0	0	0	0	0	10.9
	85-89	0	28.9	0	0	65.5	0	0	21.6	0	14.9	0	0	0	16.5	0	147.4
	90-91	0	13.1	31	0	109.4	7.8	0	165.6	23.9	48	0	0	0	203.2	0	602
	92-93	0	16.5	4	0	13.6	0	0	28.7	23	9.3	0	0	0	102.9	0	198
	94	0	18.8	0	0	0	0	0	24.4	0	0	0	0	0	2.2	0	45.4
	Total	0	77.3	35	0	204.1	7.8	0	240.3	46.9	72.2	0	0	0	325.7	0	1009.3
Eucalyptu	90-91	0	0	47.8	0	0	0	0	0	0	0	0	0	0	7.7	0	55.5
	Total	0	0	47.8	0	0	0	0	0	0	0	0	0	0	7.7	0	55.5
Gamar	80-84	0	0	0	0	0	0	0	30.2	0	0	0	0	0	0	0	30.2
	85-89	0	0	0	0	0	0	0	38.8	0	0	0	0	0	0	0	38.8
	Total	0	0	0	0	0	0	0	69	0	0	0	0	0	0	0	69
Garjan	50-59	0	0	9.4	0	9.1	0	0	0	0	18.5	0	0	0	1	0	38
	60-64	0	0	0	0	0	19.7	0	0	0	0	0	0	0	1.3	0	21
	65-69	0	0	176.4	12.9	56.6	98.8	0	0	0	14.7	0	0	0	61	0	420.4
	70-74	0	0	12.6	0	38.1	26	0	16.8	0	0	0	0	0	71.9	0	165.4
	75-79	0	0	55.3	3.2	162.1	139.8	0	218	0	0	0	0	0	0	0	578.4
	80-84	0	0	80.7	163.6	142.6	141.1	0	69.8	0	0.1	0	0	0	0.7	0	598.6
	85-89	5.4	0	138.4	49.9	214.3	38.3	0	47.9	0	0	0	0	0	7.1	0	501.3
	90-91	0	0	0	0	4.3	0	0	0	0	0	0	0	0	0	0	4.3
	92-93	0	0	0	0	4.9	0	0	4.8	0	0	0	0	0	1.1	0	10.8
	n.a.	0	0	0	0	0	4.1	0	0	0	0	0	0	0	0	0	4.1
	Total	5.4	0	472.8	229.6	632	467.8	0	357.3	0	33.3	0	0	0	144.1	0	2342.3

Species	Yr.Planted	Bagkhal	Cox's Baz	Dhoapalo	Fashiak	Fulchar	Idgaon	Inani	Mehergh	P.M.Khal	Panerch	Teknaf	Ukhia	Whykh	n.a.	n.a.+	Total
Koroi	85-89	0	0	0	0	0	0	0	18.7	0	0	0	0	0	0	0	18.7
	Total	0	0	0	0	0	0	0	18.7	0	0	0	0	0	0	0	18.7
Mahogany	65-69	0	0	0	0	105	0	0	0	0	0	0	0	0	0	0	105
	85-89	0	0	0	0	0	28.7	0	0	0	0	0	0	0	0	0	28.7
	94	4.2	0	0	0	0	0	0	0	0	0	0	0	0	6.5	0	10.7
	Total	4.2	0	0	0	105	28.7	0	0	0	0	0	0	0	6.5	0	144.4
Rubber pl	n.a.	0.1	0	0	0	0	2.8	0	315.5	0	0	0	0	0	513.6	0	832
	Total	0.1	0	0	0	0	2.8	0	315.5	0	0	0	0	0	513.6	0	832
Teak, < 50	20-29	0	0	0	0	0	0	0	0	0	0	0	0	32.8	0	0	32.8
	30-39	0	0	0	0	0	0	0	0	0	0	0	0	42	0	0	42
	40-49	0	0	0	0	0	9	0	0	0	0	0	1.2	11.5	0.6	0	22.3
	50-59	79.4	0	53.7	5.7	4.8	0	37.6	0	0	0	3.6	201	135	10.2	0	531
	60-64	89.1	10.4	146.5	141.6	44.4	10.7	44.7	0	0	0	43.8	190.4	86.4	29.8	0	837.8
	65-69	80.1	0	102.3	95	69	123	50.7	4.7	0	0	45.2	258.6	116.2	203.6	0	1148.4
	70-74	25	0	1.2	51.1	0	79.5	10.8	23.4	0	0	15.8	121.2	119.9	42.2	0	490.1
	75-79	0	0	13.5	442.3	42.3	19	0	16.8	0	0	3.4	280.5	0	30.7	0	848.5
	80-84	0	0	15.4	18.5	42.6	11.9	0	265.9	0	0	0	0	0	26.2	0	380.5
	85-89	4.3	0	10.1	225.2	66.6	28.7	0	216.1	0	0	0	0	0	22.7	0	573.7
	90-91	10.5	0	0	1	11.6	0	0	1.3	0	0	0	0	0	40	0	64.4
	92-93	22.6	0	0	47.6	47	20	0	29.2	0	0	0	0	0	72.5	0	238.9
	94	0	0	0	0	95.2	0	0	54.6	0	0	0	0	0	24	0	173.8
	Total	311	10.4	342.7	1028	423.5	301.8	143.8	612	0	0	111.8	1053	543.8	502.5	0	5384.2
Teak, >50-	20-29	0	0	0	0	0	0	0	0	0	0	1.9	0	16.8	0.1	0	18.8
	30-39	0	0	0	0	0	0	4.3	0	0	0	0	0	10.1	0	0	14.4
	40-49	0	0	0	0	0	0	13.7	0	0	0	5	1	25	0.1	0	44.8
	50-59	62	0	2.4	141.5	2.9	2.6	187.5	48.2	0	0	230.1	48.5	203.4	19.4	0	948.5
	60-64	96.8	1.9	54.6	211.9	7.5	48.2	80.3	0	0	0	132.8	47.1	89.2	72.1	0	842.4
	65-69	73.9	0	17.2	80.3	0	48.2	47.3	45.3	0	0	86.2	16.5	155.7	25.8	0	596.4
	70-74	16.3	0	96.4	0	0	39.2	10.4	0	0	0	27.2	10.8	0	90.7	0	291
	75-79	36.7	0	0	7.7	0	1.5	0	31.1	0	0	0	38.6	0	8.9	0	124.5
	80-84	44.7	0	0	0	0	8.5	0	62.1	0	0	0	0	0	22.6	0	137.9
	85-89	0	0	0	0	0	0	0	43.2	0	0	0	0	0	3.4	0	46.6
	92-93	0	0	50	22.3	0	0	0	0	0	0	0	0	0	2	0	74.3

Species	Yr.Planted	Bagkhal	Cox's Baz	Dhoapalo	Fashiak	Fulchar	Idgaon	Inani	Mehergh	P.M.Khal	Panerch	Teknaf	Ukhia	Whykh	n.a.	n.a.+	Total
	94	0	0	0	5.1	0	0	0	0	0	0	0	0	0	0.2	0	5.3
	Total	330.4	1.9	220.6	468.8	10.4	148.2	343.5	229.9	0	0	483.2	162.5	500.2	245.3	0	3144.9
Teak, >80	00-09	0	0	0	0	0	0	0.1	0	0	0	0	0	65.3	0	0	65.4
	50-59	34.6	0	7.8	104.5	0	11.1	0	60	0	0	0	0	0	4.9	0	222.9
	60-64	0	0	0	43.9	0	29.8	0	0	0	0	0	0	0	58.7	0	132.4
	65-69	20.3	0	2.2	24.4	11.3	59.2	0	2.5	0	0	0	0	0	27.5	0	147.4
	70-74	53.6	0	0	0	6	48.2	0	0	0	0	0	0	0	7.3	0	115.1
	75-79	34.7	0	0	13.7	0	0	0	12.8	0	0	0	0	0	1.5	0	62.7
	80-84	13.9	0	0	0	0	41.9	0	43.2	0	0	0	0	0	81.7	0	180.7
	85-89	43.6	0	0	0	0	0	0	40	0	0	0	0	0	30.4	0	114
	90-91	0	0	0	0	0	0	0	6.1	0	0	0	0	0	0	0	6.1
	92-93	10.6	0	0	0	0	0	0	72.1	0	0	0	0	0	3.2	0	85.9
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	27.3	0	27.3
	Total	211.3	0	10	186.5	17.3	190.2	0.1	236.7	0	0	0	0	65.3	242.5	0	1159.9
Unidentifie	70-74	173.8	8.3	98.6	0	0	0	41	0	0	0	61.3	204.9	124.1	94.2	0	806.2
(LRS)	75-79	82.7	0	222.3	0	0	0	203.8	0	0	0	181.7	28.1	376	73.5	0	1168.1
	80-84	79.5	0	129.7	0	0	0	56.1	0	0	0	134.8	281.7	82	52	0	815.8
	90-91	0	5.9	0	0	0.7	0	0	0	3.9	0	0	0	0	1.3	0	11.8
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	1.5
	94	0	17.7	0	0	0	0	0	0	0	0	0	0	0	36.9	0	54.6
	Total	336	31.9	450.6	0	0.7	0	300.9	0	3.9	0	377.8	514.7	582.1	259.4	0	2858
n.a.		3974.3	1444.9	2388	1650.5	1825.9	2510.9	6912	2378.3	1444.5	1052.7	7834.5	6100	3373	65884	5669	114443
Total		5176.6	1727.5	4513.9	3569.7	3584.5	3910.6	7710	5086	1609.2	1644.3	8881.2	7858	5108.2	68665	5669	134714

Table 2a. Stratum areas (ha) of Forest Plantations by Range (Cox's Bazar)

Species	Yr.Planted	Bagkhal	Cox's Baz	Dhoapalo	Fashiak	Fulchar	Idgaon	Inani	Mehergh	P.M.Khal	Panerch	Teknaf	Ukhia	Whykh	n.a.	n.a.+	Total
Teak, < 50	20-29	0	0	0	0	0	0	0	0	0	0	0	0	32.8	0	0	32.8
	30-39	0	0	0	0	0	0	0	0	0	0	0	0	42	0	0	42
	40-49	0	0	0	0	0	9	0	0	0	0	0	1.2	11.5	0.6	0	22.3
	50-59	79.4	0	53.7	5.7	4.8	0	37.6	0	0	0	3.6	201	135	10.2	0	531
Teak, >50-	20-29	0	0	0	0	0	0	0	0	0	0	1.9	0	16.8	0.1	0	18.8
	30-39	0	0	0	0	0	0	4.3	0	0	0	0	0	10.1	0	0	14.4
	40-49	0	0	0	0	0	0	13.7	0	0	0	5	1	25	0.1	0	44.8
	50-59	62	0	2.4	141.5	2.9	2.6	187.5	48.2	0	0	230.1	48.5	203.4	19.4	0	948.5
Teak, >80	00-09	0	0	0	0	0	0	0.1	0	0	0	0	0	65.3	0	0	65.4
	50-59	34.6	0	7.8	104.5	0	11.1	0	60	0	0	0	0	0	4.9	0	222.9
Strata 51 &52		**176**	**0**	**63.9**	**251.7**	**7.7**	**22.7**	**243.2**	**108.2**	**0**	**0**	**240.6**	**251.7**	**541.9**	**35.3**	**0**	**1942.9**
Teak<50%	60-64	89.1	10.4	146.5	141.6	44.4	10.7	44.7	0	0	0	43.8	190.4	86.4	29.8	0	837.8
	65-69	80.1	0	102.3	95	69	123	50.7	4.7	0	0	45.2	258.6	116.2	203.6	0	1148.4
	70-74	25	0	1.2	51.1	0	79.5	10.8	23.4	0	0	15.8	121.2	119.9	42.2	0	490.1
	75-79	0	0	13.5	442.3	42.3	19	0	16.8	0	0	3.4	280.5	0	30.7	0	848.5
Teak50-75	60-64	96.8	1.9	54.6	211.9	7.5	48.2	80.3	0	0	0	132.8	47.1	89.2	72.1	0	842.4
	65-69	73.9	0	17.2	80.3	0	48.2	47.3	45.3	0	0	86.2	16.5	155.7	25.8	0	596.4
	70-74	16.3	0	96.4	0	0	39.2	10.4	0	0	0	27.2	10.8	0	90.7	0	291
	75-79	36.7	0	0	7.7	0	1.5	0	31.1	0	0	0	38.6	0	8.9	0	124.5
Teak>75%	60-64	0	0	0	43.9	0	29.8	0	0	0	0	0	0	0	58.7	0	132.4
	65-69	20.3	0	2.2	24.4	11.3	59.2	0	2.5	0	0	0	0	0	27.5	0	147.4
	70-74	53.6	0	0	0	6	48.2	0	0	0	0	0	0	0	7.3	0	115.1
	75-79	34.7	0	0	13.7	0	0	0	12.8	0	0	0	0	0	1.5	0	62.7
Strata 61, 62 & 63		**526.5**	**12.3**	**433.9**	**1111.9**	**180.5**	**506.5**	**244.2**	**136.6**	**0**	**0**	**354.4**	**963.7**	**567.4**	**598.8**	**0**	**5636.7**
Teak<50%	80-84	0	0	15.4	18.5	42.6	11.9	0	265.9	0	0	0	0	0	26.2	0	380.5
	85-89	4.3	0	10.1	225.2	66.6	28.7	0	216.1	0	0	0	0	0	22.7	0	573.7
	90-91	10.5	0	0	1	11.6	0	0	1.3	0	0	0	0	0	40	0	64.4
	92-93	22.6	0	0	47.6	47	20	0	29.2	0	0	0	0	0	72.5	0	238.9

Species	Yr.Planted	Bagkhal	Cox's Baz	Dhoapalo	Fashiak	Fulchar	Idgaon	Inani	Mehergh	P.M.Khal	Panerch	Teknaf	Ukhia	Whykh	n.a.	n.a.+	Total
	94	0	0	0	0	95.2	0	0	54.6	0	0	0	0	0	24	0	173.8
Teak50-75	80-84	44.7	0	0	0	0	8.5	0	62.1	0	0	0	0	0	22.6	0	137.9
	85-89	0	0	0	0	0	0	0	43.2	0	0	0	0	0	3.4	0	46.6
	92-93	0	0	50	22.3	0	0	0	0	0	0	0	0	0	2	0	74.3
	94	0	0	0	5.1	0	0	0	0	0	0	0	0	0	0.2	0	5.3
Teah>75%	80-84	13.9	0	0	0	0	41.9	0	43.2	0	0	0	0	0	81.7	0	180.7
	85-89	43.6	0	0	0	0	0	0	40	0	0	0	0	0	30.4	0	114
	90-91	0	0	0	0	0	0	0	6.1	0	0	0	0	0	0	0	6.1
	92-93	10.6	0	0	0	0	0	0	72.1	0	0	0	0	0	3.2	0	85.9
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	27.3	0	27.3
Strata 70, 81 &82		**150.2**	**0**	**75.5**	**319.7**	**263**	**111**	**0**	**833.8**	**0**	**0**	**0**	**0**	**0**	**356.2**	**0**	**2109.4**
All species	30-39	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
(LRS)	40-49	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0	1.2
	50-59	1.3	0	1.7	0	0	0	7.1	0	0	0	24.9	0	0	1.1	0	36.1
	60-64	0	0	8.1	0	0	0	0	0	0	0	34.7	9.6	0	0.7	0	53.1
	65-69	2.6	0	0	0	0	0	0	0	0	0	10.7	18.3	9.8	3.2	0	44.6
	70-74	0	0	2.1	0	0	0	0	0	0	0	3.6	0	0	0	0	5.7
Dhakijam	50-59	0	0	100	0	0	0	0	0	0	102.6	0	0	0	13.4	0	216
	60-64	0	0	0	0	0	11.6	0	0	0	0	0	0	0	0	0	11.6
	65-69	0	0	33.5	0	10.2	5.2	0	0	0	16.1	0	0	0	0	0	65
	70-74	0	0	0	0	0	22.6	0	10	0	0	0	0	0	0	0	32.6
	75-79	0	0	8.6	0	0	61.2	0	57.9	0	46.7	0	0	0	6.2	0	180.6
Garjan	50-59	0	0	9.4	0	9.1	0	0	0	0	18.5	0	0	0	1	0	38
	60-64	0	0	0	0	0	19.7	0	0	0	0	0	0	0	1.3	0	21
	65-69	0	0	176.4	12.9	56.6	98.8	0	0	0	14.7	0	0	0	61	0	420.4
	70-74	0	0	12.6	0	38.1	26	0	16.8	0	0	0	0	0	71.9	0	165.4
	75-79	0	0	55.3	3.2	162.1	139.8	0	218	0	0	0	0	0	0	0	578.4
Mahogany	65-69	0	0	0	0	105	0	0	0	0	0	0	0	0	0	0	105
Unidentifie	70-74	173.8	8.3	98.6	0	0	0	41	0	0	0	61.3	204.9	124.1	94.2	0	806.2
(LRS)	75-79	82.7	0	222.3	0	0	0	203.8	0	0	0	181.7	28.1	376	73.5	0	1168.1
Stratum 90		**260.4**	**8.3**	**728.6**	**16.1**	**381.1**	**384.9**	**254.1**	**302.7**	**0**	**198.6**	**316.9**	**260.9**	**509.9**	**327.5**	**0**	**3950**

Species	Yr.Planted	Bagkhal	Cox's Baz	Dhoapalo	Fashiak	Fulchar	Idgaon	Inani	Mehergh	P.M.Khal	Panerch	Teknaf	Ukhia	Whykh	n.a.	n.a.+	Total
Chikrasi	85-89	0	0	0	0	44.8	0	0	0	0	0	0	0	0	0	0	44.8
Dhakijam	80-84	0	1.8	109.8	0	11.2	57.3	0	41.9	0	0.5	0	0	0	19.3	0	241.8
	85-89	0	0	35.1	0	23.3	68.2	0	30.3	0	0	0	0	0	38.7	0	195.6
	90-91	0	0	0	0	3.1	0	0	0	0	0	0	0	0	2	0	5.1
	92-93	0	0	0	0	0	0	0	4.6	0	0	0	0	0	33.6	0	38.2
	94	0	0	0	0	0	0	0	0	0	0.7	0	0	0	38.3	0	39
Garjan	80-84	0	0	80.7	163.6	142.6	141.1	0	69.8	0	0.1	0	0	0	0.7	0	598.6
	85-89	5.4	0	138.4	49.9	214.3	38.3	0	47.9	0	0	0	0	0	7.1	0	501.3
	90-91	0	0	0	0	4.3	0	0	0	0	0	0	0	0	0	0	4.3
	92-93	0	0	0	0	4.9	0	0	4.8	0	0	0	0	0	1.1	0	10.8
	n.a.	0	0	0	0	0	4.1	0	0	0	0	0	0	0	0	0	4.1
Koroi	85-89	0	0	0	0	0	0	0	18.7	0	0	0	0	0	0	0	18.7
Mahogany	85-89	0	0	0	0	0	28.7	0	0	0	0	0	0	0	0	0	28.7
	94	4.2	0	0	0	0	0	0	0	0	0	0	0	0	6.5	0	10.7
Unidentifie	80-84	79.5	0	129.7	0	0	0	56.1	0	0	0	134.8	281.7	82	52	0	815.8
LRS	90-91	0	5.9	0	0	0.7	0	0	0	3.9	0	0	0	0	1.3	0	11.8
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	1.5
	94	0	17.7	0	0	0	0	0	0	0	0	0	0	0	36.9	0	54.6
Strata 101, 102 & 103		**89.1**	**25.4**	**493.7**	**213.5**	**449.2**	**337.7**	**56.1**	**218**	**3.9**	**1.3**	**134.8**	**281.7**	**82**	**239**	**0**	**2625.4**
Acacia / K	80-84	0	0	0	0	0	0	0	0	0	0	0	0	34	0	0	34
Acacia Aur	85-89	0	0	1.8	0	0	0	0	0	0	0	0	0	0	0	0	1.8
	90-91	0	3.9	45.1	0	3.1	0	0	20.8	4.1	31.1	0	0	0	16.1	0	124.2
	92-93	0	12.9	64.8	0	0	0	0	45.5	23.9	16.1	0	0	0	63.8	0	227
	94	0	0	10.2	0	15	0	0	0	6.6	0	0	0	0	0	0	31.8
Acacia ma	20-29	0	0	0	0	0	0	0	0	4.6	0	0	0	0	0.2	0	4.8
	80-84	0	0	0	0	0	0	0	6.9	0	0	0	0	0	0	0	6.9
	85-89	0	13.1	0	0	39.2	0	0	52.2	2.9	91.1	0	0	0	13.4	0	211.9
	90-91	0	87.9	94	6.3	199.6	26.3	0	156.2	38.8	146.4	0	0	0	177.1	0	932.6
	92-93	0	39	18.4	0	16.1	0	0	33.2	26.2	34.8	0	0	0	103	0	270.7
Acacia ma	85-89	0	2.5	0	0	0	0	0	0	0	0	0	0	0	1	0	3.5
	92-93	0	0	0	0	0	0	0	2.1	0	0	0	0	0	0.1	0	2.2
Acacia/ Eu	90-91	0	0	0	0	0	0	0	0	5.9	0	0	0	0	1.1	0	7

Species	Yr.Planted	Bagkhal	Cox's Baz	Dhoapalo	Fashiak	Fulchar	Idgaon	Inani	Mehergh	P.M.Khal	Panerch	Teknaf	Ukhia	Whykh	n.a.	n.a.+	Total
	92-93	0	0	0	0	0	0	0	57.8	0.9	0	0	0	0	0.9	0	59.6
	94	0	0	13.2	0	0	0	0	108.9	0	0	0	0	0	0.7	0	122.8
Eucalyptu	20-29	0	0	0	0	4.7	0	0	0	0	0	0	0	0	0.9	0	5.6
	80-84	0	0	0	0	10.9	0	0	0	0	0	0	0	0	0	0	10.9
	85-89	0	28.9	0	0	65.5	0	0	21.6	0	14.9	0	0	0	16.5	0	147.4
	90-91	0	13.1	31	0	109.4	7.8	0	165.6	23.9	48	0	0	0	203.2	0	602
	92-93	0	16.5	4	0	13.6	0	0	28.7	23	9.3	0	0	0	102.9	0	198
	94	0	18.8	0	0	0	0	0	24.4	0	0	0	0	0	2.2	0	45.4
Eucalyptu	90-91	0	0	47.8	0	0	0	0	0	0	0	0	0	0	7.7	0	55.5
Gamar	80-84	0	0	0	0	0	0	0	30.2	0	0	0	0	0	0	0	30.2
	85-89	0	0	0	0	0	0	0	38.8	0	0	0	0	0	0	0	38.8
Strata 120,130,131,1		**0**	**236.6**	**330.3**	**6.3**	**477.1**	**34.1**	**0**	**792.9**	**160.8**	**391.7**	**0**	**0**	**34**	**710.8**	**0**	**3174.6**

Table 3. Plantation Areas by Block, Species Group and Year Planted (Cox's Bazar)

	Year		Bagkhali									Cox's Bazar					Dhoapalong							
Species	Plante	n.a.+	Bagkha	Barabil	Gilatali	Jungch	Kachap	Manirjh	Rajark	Ramko	Total	Bhang	Chaind	Jhilanja	Jhilanja	Total	Dariadi	Dhoap	Himcha	Khunia	Marich	Paglirbi	Upper	Total
Acacia / K	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acacia Au	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.8	0	0	0	0	0	0	1.8
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	3.9	0	3.9	0	45.1	0	0	0	0	0	45.1
	92-93	0	0	0	0	0	0	0	0	0	0	0	12.9	0	0	12.9	54.9	0	0	9.9	0	0	0	64.8
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.2	0	0	0	0	0	10.2
	Total	0	0	0	0	0	0	0	0	0	0	0	12.9	3.9	0	16.8	56.7	55.3	0	9.9	0	0	0	121.9
Acacia ma	20-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	13.1	0	13.1	0	0	0	0	0	0	0	0
	90-91	0	0	0	0	0	0	0	0	0	0	0	61.3	26.6	0	87.9	0	93.9	0	0.1	0	0	0	94
	92-93	0	0	0	0	0	0	0	0	0	0	0	39	0	0	39	3.8	0	0	14.6	0	0	0	18.4
	Total	0	0	0	0	0	0	0	0	0	0	0	100.3	39.7	0	140	3.8	93.9	0	14.7	0	0	0	112.4
Acacia ma	85-89	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	2.5	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	2.5	0	0	0	0	0	0	0	0
Acacia/ E	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.2	0	0	0	0	0	13.2
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.2	0	0	0	0	0	13.2
All specie	30-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(LRS)	40-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50-59	0	0	0	1.3	0	0	0	0	0	1.3	0	0	0	0	0	0	0	0	0	0	1.7	0	1.7
	60-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.1	0	8.1
	65-69	0	0	0	2.6	0	0	0	0	0	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0
	70-74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.1	0	0	2.1
	Total	0	0	0	3.9	0	0	0	0	0	3.9	0	0	0	0	0	0	0	0	0	2.1	9.8	0	11.9
Chikrasi	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dhakijam	50-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77.4	0	0	22.6	0	0	0	100
	60-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.5	0	0	0	33.5
	70-74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75-79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.6	0	0	0	8.6
	80-84	0	0	0	0	0	0	0	0	0	0	1.8	0	0	0	1.8	0	50.8	14.9	44.1	0	0	0	109.8
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35.1	0	0	0	0	0	35.1
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	1.8	0	0	0	1.8	77.4	85.9	14.9	108.8	0	0	0	287

	Year		Bagkhali									Cox's Bazar					Dhoapalong							
Species	Plante	n.a.+	Bagkha	Barabil	Gilatali	Jungch	Kachap	Manirjh	Rajark	Ramko	Total	Bhang	Chaind	Jhilanja	Jhilanja	Total	Dariadi	Dhoap	Himcha	Khunia	Marich	Paglirbi	Upper	Total
Eucalyptu	20-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85-89	0	0	0	0	0	0	0	0	0	0	0	11.1	17.8	0	28.9	0	0	0	0	0	0	0	0
	90-91	0	0	0	0	0	0	0	0	0	0	0	11.7	1.4	0	13.1	0	27.2	0	3.8	0	0	0	31
	92-93	0	0	0	0	0	0	0	0	0	0	0	16.5	0	0	16.5	0	4	0	0	0	0	0	4
	94	0	0	0	0	0	0	0	0	0	0	0	18.8	0	0	18.8	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	58.1	19.2	0	77.3	0	31.2	0	3.8	0	0	0	35
Eucalyptu	90-91*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47.8	0	0	0	47.8
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47.8	0	0	0	47.8
Gamar	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garjan	50-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.4	0	0	0	0	0	0	9.4
	60-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	43	1.2	129.2	0	0	0	176.4
	70-74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.6	0	0	0	12.6
	75-79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55.3	0	0	0	0	0	55.3
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74.5	1.8	4.4	0	0	0	80.7
	85-89	0	5.4	0	0	0	0	0	0	0	5.4	0	0	0	0	0	0	109.5	18.7	10.2	0	0	0	138.4
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	n.a.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	5.4	0	0	0	0	0	0	0	5.4	0	0	0	0	0	12.4	282.3	21.7	156.4	0	0	0	472.8
Koroi	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mahogany	65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	4.2	0	0	4.2	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	4.2	0	0	4.2	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubber pl	n.a.	0	0	0	0.1	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0.1	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0
Teak, < 5	20-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50-59	0	12.1	0	18.2	0	0	0	0	49.1	79.4	0	0	0	0	0	29.2	0	0	0	0	24.5	0	53.7
	60-64	0	14.2	0	10.5	0	0	0	0	64.4	89.1	0	0	0	10.4	10.4	77.1	0	0	0	0	69.4	0	146.5
	65-69	0	0	0	13.9	0	15.7	0	0	50.5	80.1	0	0	0	0	0	70.6	12.1	0	0	0	19.6	0	102.3
	70-74	0	25	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	1.2	0	0	1.2
	75-79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.8	0	0	0	0.7	0	0	13.5
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.4	0	0	0	0	0	15.4
	85-89	0	0	0	4.3	0	0	0	0	0	4.3	0	0	0	0	0	0	10.1	0	0	0	0	0	10.1
	90-91	0	10.5	0	0	0	0	0	0	0	10.5	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	22.6	0	0	0	0	0	0	0	22.6	0	0	0	0	0	0	0	0	0	0	0	0	0

	Year		Bagkhali									Cox's Bazar					Dhoapalong							
Species	Plante	n.a.+	Bagkha	Barabil	Gilatali	Jungch	Kachap	Manirjh	Rajark	Ramko	Total	Bhang	Chaind	Jhilanja	Jhilanja	Total	Dariadi	Dhoap	Himcha	Khunia	Marich	Paglirbi	Upper	Total
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	84.4	0	46.9	0	15.7	0	0	164	311	0	0	0	10.4	10.4	189.7	37.6	0	0	1.9	113.5	0	342.7
Teak, >50	20-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50-59	0	19	0	24.4	0	0	0	0	18.6	62	0	0	0	0	0	2.4	0	0	0	0	0	0	2.4
	60-64	0	83.4	0	4.9	0	0	0	0	8.5	96.8	0	0	0	1.9	1.9	46.6	0	0	0	0	8	0	54.6
	65-69	0	13.4	0	13.1	0	0	0	0	47.4	73.9	0	0	0	0	0	1.4	0	0	0	0	15.8	0	17.2
	70-74	0	16.1	0	0	0	0.2	0	0	0	16.3	0	0	0	0	0	0	0	0	96.4	0	0	0	96.4
	75-79	0	36.7	0	0	0	0	0	0	0	36.7	0	0	0	0	0	0	0	0	0	0	0	0	0
	80-84	0	0	0	0	0	0	44.7	0	0	44.7	0	0	0	0	0	0	0	0	0	0	0	0	0
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	50
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	168.6	0	42.4	0	0.2	44.7	0	74.5	330.4	0	0	0	1.9	1.9	50.4	50	0	96.4	0	23.8	0	220.6
Teak, >80	00-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50-59	0	34.6	0	0	0	0	0	0	0	34.6	0	0	0	0	0	7.8	0	0	0	0	0	0	7.8
	60-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	65-69	0	20.3	0	0	0	0	0	0	0	20.3	0	0	0	0	0	0	2.2	0	0	0	0	0	2.2
	70-74	0	51.4	0	2.2	0	0	0	0	0	53.6	0	0	0	0	0	0	0	0	0	0	0	0	0
	75-79	0	33.8	0	0	0	0	0.4	0.5	0	34.7	0	0	0	0	0	0	0	0	0	0	0	0	0
	80-84	0	0	0	0.1	0	0	13.8	0	0	13.9	0	0	0	0	0	0	0	0	0	0	0	0	0
	85-89	0	43.6	0	0	0	0	0	0	0	43.6	0	0	0	0	0	0	0	0	0	0	0	0	0
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	2.9	0	0	7.7	0	0	10.6	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	183.7	0	5.2	0	0	21.9	0.5	0	211.3	0	0	0	0	0	7.8	2.2	0	0	0	0	0	10
Unidentifie	70-74	0	0	0	94.5	0	15.4	0	25.5	38.4	173.8	0	0	0	8.3	8.3	89.4	0	0	0	0	9.1	0.1	98.6
(LRS)	75-79	0	0	0	0	0	43.1	0	3.3	36.3	82.7	0	0	0	0	0	221.7	0	0	0	0	0	0.6	222.3
	80-84	0	0	0	33.9	0	22.7	0	0	22.9	79.5	0	0	0	0	0	60	0	0	0	0	13	56.7	129.7
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	5.9	0	5.9	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	17.7	0	0	17.7	0	0	0	0	0	0	0	0
	Total	0	0	0	128.4	0	81.2	0	28.8	97.6	336	0	17.7	5.9	8.3	31.9	371.1	0	0	0	0	22.1	57.4	450.6
n.a.		5668.5	542	731.9	773	339.9	594.5	431.5	408.9	152.6	3974.3	862.4	249.7	289.7	43.1	1444.9	258.3	408.6	426.2	365	118.8	248.9	562.2	2388
Total		5668.5	984.1	731.9	999.9	339.9	691.6	502.3	438.2	488.7	5176.6	864.2	438.7	360.9	63.7	1727.5	1027.6	1060.2	462.8	802.8	122.8	418.1	619.6	4513.9

	Year	Fashiakhali							Fulchari					Idgaon				Inani				
Species	Plante	Bamu	Dulaha	Fashia	Hargaz	Manikp	Ringbh	Total	Fulchar	Khunta	Medha	Napitkh	Total	Bhoma	Idgarh	Tulatali	Total	Bara In	Chhota	Jaliapal	Rajapal	Ruppati
Acacia /	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acacia	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90-91	0	0	0	0	0	0	0	0	0	0	3.1	3.1	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	15	15	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	18.1	18.1	0	0	0	0	0	0	0	0	0
Acacia	20-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85-89	0	0	0	0	0	0	0	12	26.6	0.6	0	39.2	0	0	0	0	0	0	0	0	0
	90-91	0	0.3	0	0	0	6	6.3	111.7	0	0	87.9	199.6	0.8	25.5	0	26.3	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	11.6	0	0	4.5	16.1	0	0	0	0	0	0	0	0	0
	Total	0	0.3	0	0	0	6	6.3	135.3	26.6	0.6	92.4	254.9	0.8	25.5	0	26.3	0	0	0	0	0
Acacia	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acacia/	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
All speci	30-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
(LRS)	40-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2
	50-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.1	0	0
	60-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	70-74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7.1	0	1.2
Chikrasi	85-89	0	0	0	0	0	0	0	44.8	0	0	0	44.8	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	44.8	0	0	0	44.8	0	0	0	0	0	0	0	0	0
Dhakija	50-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	60-64	0	0	0	0	0	0	0	0	0	0	0	0	10.1	0	1.5	11.6	0	0	0	0	0
	65-69	0	0	0	0	0	0	0	0	10.2	0	0	10.2	5.2	0	0	5.2	0	0	0	0	0
	70-74	0	0	0	0	0	0	0	0	0	0	0	0	22.6	0	0	22.6	0	0	0	0	0
	75-79	0	0	0	0	0	0	0	0	0	0	0	0	61.2	0	0	61.2	0	0	0	0	0
	80-84	0	0	0	0	0	0	0	0	11.2	0	0	11.2	5.6	51.7	0	57.3	0	0	0	0	0
	85-89	0	0	0	0	0	0	0	0	23.3	0	0	23.3	0	68.2	0	68.2	0	0	0	0	0
	90-91	0	0	0	0	0	0	0	3.1	0	0	0	3.1	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	3.1	44.7	0	0	47.8	104.7	119.9	1.5	226.1	0	0	0	0	0
Eucalypt	20-29	0	0	0	0	0	0	0	0	0	0	4.7	4.7	0	0	0	0	0	0	0	0	0
	80-84	0	0	0	0	0	0	0	0	0	0	10.9	10.9	0	0	0	0	0	0	0	0	0

	Year	Fashiakhali							Fulchari					Idgaon				Inani				
Species	Plante	Bamu	Dulaha	Fashia	Hargaz	Manikp	Ringbh	Total	Fulchar	Khunta	Medha	Napitkh	Total	Bhoma	Idgarh	Tulatali	Total	Bara In	Chhota	Jaliapal	Rajapal	Ruppati
	85-89	0	0	0	0	0	0	0	18.2	47.3	0	0	65.5	0	0	0	0	0	0	0	0	0
	90-91	0	0	0	0	0	0	0	24.1	0	0	85.3	109.4	5.1	2.7	0	7.8	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	13.6	13.6	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	42.3	47.3	0	114.5	204.1	5.1	2.7	0	7.8	0	0	0	0	0
Eucalypt	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gamar	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garjan	50-59	0	0	0	0	0	0	0	0	9.1	0	0	9.1	0	0	0	0	0	0	0	0	0
	60-64	0	0	0	0	0	0	0	0	0	0	0	0	19.7	0	0	19.7	0	0	0	0	0
	65-69	0	12.9	0	0	0	0	12.9	0.7	55.9	0	0	56.6	26.5	72.3	0	98.8	0	0	0	0	0
	70-74	0	0	0	0	0	0	0	27.3	9	0	1.8	38.1	12.2	13.8	0	26	0	0	0	0	0
	75-79	0	0	0	3.2	0	0	3.2	73.7	24.7	0	63.7	162.1	139.8	0	0	139.8	0	0	0	0	0
	80-84	0	163.6	0	0	0	0	163.6	12.1	108.5	0	22	142.6	131.6	3.7	5.8	141.1	0	0	0	0	0
	85-89	20.7	29.2	0	0	0	0	49.9	63	95.3	0	56	214.3	2.9	35.4	0	38.3	0	0	0	0	0
	90-91	0	0	0	0	0	0	0	0	4.3	0	0	4.3	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	4.9	0	0	0	4.9	0	0	0	0	0	0	0	0	0
	n.a.	0	0	0	0	0	0	0	0	0	0	0	0	4.1	0	0	4.1	0	0	0	0	0
	Total	20.7	205.7	0	3.2	0	0	229.6	181.7	306.8	0	143.5	632	336.8	125.2	5.8	467.8	0	0	0	0	0
Koroi	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mahoga	65-69	0	0	0	0	0	0	0	0	105	0	0	105	0	0	0	0	0	0	0	0	0
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	28.7	0	28.7	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	105	0	0	105	0	28.7	0	28.7	0	0	0	0	0
Rubber	n.a.	0	0	0	0	0	0	0	0	0	0	0	0	0	2.8	0	2.8	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	2.8	0	2.8	0	0	0	0	0
Teak, <	20-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40-49	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0
	50-59	5.7	0	0	0	0	0	5.7	0	4.8	0	0	4.8	0	0	0	0	0	2	35.6	0	0
	60-64	8.6	32.4	0.6	75.1	0	24.9	141.6	0	41.3	3.1	0	44.4	5.9	0	4.8	10.7	0	0	15.7	0	29
	65-69	0	0	23.3	0	0	71.7	95	0	69	0	0	69	101.8	12.8	8.4	123	0	0	38.4	2.3	10
	70-74	0	0	0	51.1	0	0	51.1	0	0	0	0	0	61.2	18.3	0	79.5	6.4	0	0	0	0
	75-79	0	16.4	143.7	182.8	0	99.4	442.3	16.9	14.6	0	10.8	42.3	19	0	0	19	0	0	0	0	0
	80-84	0	8.3	0	4.8	0	5.4	18.5	0	26.7	0	15.9	42.6	8.3	3.6	0	11.9	0	0	0	0	0
	85-89	0	5.9	0	65.6	0	153.7	225.2	13.3	15.2	0	38.1	66.6	28.6	0	0.1	28.7	0	0	0	0	0
	90-91	0	0	1	0	0	0	1	2.6	0	0	9	11.6	0	0	0	0	0	0	0	0	0
	92-93	12.3	0	35.3	0	0	0	47.6	46.2	0.8	0	0	47	0	20	0	20	0	0	0	0	0
	94	0	0	0	0	0	0	0	39.8	54	1.4	0	95.2	0	0	0	0	0	0	0	0	0

	Year	Fashiakhali							Fulchari					Idgaon				Inani				
Species	Plante	Bamu	Dulaha	Fashia	Hargaz	Manikp	Ringbh	Total	Fulchar	Khunta	Medha	Napitkh	Total	Bhoma	Idgarh	Tulatali	Total	Bara In	Chhota	Jaliapal	Rajapal	Ruppati
	Total	26.6	63	203.9	379.4	0	355.1	1028	118.8	226.4	4.5	73.8	423.5	233.8	54.7	13.3	301.8	6.4	2	89.7	2.3	39
Teak, >5	20-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.3	0	0	0
	40-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.2	0	0	4.5
	50-59	0	16.1	0	39.5	0	85.9	141.5	0	2.9	0	0	2.9	0	2.6	0	2.6	3.1	69.1	50.4	0	64.8
	60-64	0	64.5	100.7	43.6	0	3.1	211.9	0	7.5	0	0	7.5	21.7	0	26.5	48.2	2.8	0	27.4	0	50.1
	65-69	0	13.9	0.9	0	0	65.5	80.3	0	0	0	0	0	6.2	15	27	48.2	0	0	0.9	0	46.4
	70-74	0	0	0	0	0	0	0	0	0	0	0	0	36.6	2.6	0	39.2	10.4	0	0	0	0
	75-79	0	7.7	0	0	0	0	7.7	0	0	0	0	0	0.3	1.2	0	1.5	0	0	0	0	0
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	8.5	0	0	8.5	0	0	0	0	0
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	22.3	0	0	0	0	22.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	5.1	0	0	0	5.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	124.5	106.7	83.1	0	154.5	468.8	0	10.4	0	0	10.4	73.3	21.4	53.5	148.2	16.3	82.6	78.7	0	165.8
Teak, >8	00-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50-59	0	52.6	22.4	9.5	0	20	104.5	0	0	0	0	0	0	9.9	1.2	11.1	0	0	0	0	0
	60-64	10.5	14	0	6.1	0	13.3	43.9	0	0	0	0	0	20.6	0	9.2	29.8	0	0	0	0	0
	65-69	0	13.3	1.6	0	0	9.5	24.4	0	11.3	0	0	11.3	37.8	15.9	5.5	59.2	0	0	0	0	0
	70-74	0	0	0	0	0	0	0	0	6	0	0	6	35.8	12.4	0	48.2	0	0	0	0	0
	75-79	0	0	0	0	0	13.7	13.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	41.9	0	41.9	0	0	0	0	0
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	10.5	79.9	24	15.6	0	56.5	186.5	0	17.3	0	0	17.3	94.2	80.1	15.9	190.2	0	0	0	0	0
Unidenti	70-74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38.7	2.3	0
(LRS)	75-79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180.6	2.8	0
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.1	0	26.7	21.3	0
	90-91	0	0	0	0	0	0	0	0	0	0	0.7	0.7	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0.7	0.7	0	0	0	0	8.1	0	246	26.4	0
n.a.		522	286.5	73.6	134.1	5.5	628.8	1650.5	601.7	207.5	371	645.7	1825.9	393.2	905.3	1212.4	2510.9	2627.6	1652.5	285.7	652.7	927.5
Total		579.8	759.9	408.2	615.4	5.5	1200.9	3569.7	1127.7	992	376.1	1088.7	3584.5	1241.9	1366.3	1302.4	3910.6	2658.4	1738.1	707.2	681.4	1133.5

	Year	Inani		Meherghona						P.M.Khali					Panerchara			Teknaf					
Species	Plante	Swank	Total	Bengd	Joarian	Jumch	Kalirch	Machu	Total	P.M. K	P.M. K	Tatuiya	Tutuk	Total	Mithac	Panerc	Total	Dakhin	Dumdu	Dumdu	Ledha	Madhy	Mathab
Acacia /	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acacia	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90-91	0	0	0	0	0	16.4	4.4	20.8	3.6	0.5	0	0	4.1	0	31.1	31.1	0	0	0	0	0	0
	92-93	0	0	0	0	0	11.7	33.8	45.5	0	0	0	23.9	23.9	0	16.1	16.1	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0.7	5.9	6.6	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	28.1	38.2	66.3	3.6	0.5	0.7	29.8	34.6	0	47.2	47.2	0	0	0	0	0	0
Acacia	20-29	0	0	0	0	0	0	0	0	4.6	0	0	0	4.6	0	0	0	0	0	0	0	0	0
	80-84	0	0	0	0	0	6.9	0	6.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85-89	0	0	0	0	0	52.2	0	52.2	0	0	0	2.9	2.9	0.2	90.9	91.1	0	0	0	0	0	0
	90-91	0	0	0	13.9	0	83.8	58.5	156.2	12.5	25.4	0	0.9	38.8	0	146.4	146.4	0	0	0	0	0	0
	92-93	0	0	0	1.7	0	8.4	23.1	33.2	19.2	6.9	0	0.1	26.2	0	34.8	34.8	0	0	0	0	0	0
	Total	0	0	0	15.6	0	151.3	81.6	248.5	36.3	32.3	0	3.9	72.5	0.2	272.1	272.3	0	0	0	0	0	0
Acacia	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	2.1	0	0	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	2.1	0	0	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acacia/	90-91	0	0	0	0	0	0	0	0	0.3	3.3	0	2.3	5.9	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	31.7	26.1	57.8	0	0.9	0	0	0.9	0	0	0	0	0	0	0	0	0
	94	0	0	0	2.6	0	81.5	24.8	108.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	2.6	0	113.2	50.9	166.7	0.3	4.2	0	2.3	6.8	0	0	0	0	0	0	0	0	0
All speci	30-39	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(LRS)	40-49	0	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50-59	0	7.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.9	4.3	0
	60-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.9	26.6	0
	65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.1	6.6	0
	70-74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.6	0
	Total	0	9.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.9	41.1	0
Chikrasi	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dhakija	50-59	0	0	0	0	0	0	0	0	0	0	0	0	0	95.5	7.1	102.6	0	0	0	0	0	0
	60-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	16.1	0	16.1	0	0	0	0	0	0
	70-74	0	0	0	0	0	0	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75-79	0	0	0	35.5	0	11.6	10.8	57.9	0	0	0	0	0	46.7	0	46.7	0	0	0	0	0	0
	80-84	0	0	0	8.6	0	27.5	5.8	41.9	0	0	0	0	0	0.5	0	0.5	0	0	0	0	0	0
	85-89	0	0	1.9	14.1	0	14.3	0	30.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	4.6	0	0	0	4.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0.7	0	0	0	0	0	0
	Total	0	0	1.9	62.8	0	53.4	26.6	144.7	0	0	0	0	0	159.5	7.1	166.6	0	0	0	0	0	0
Eucalyp	20-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Year	Inani		Meherghona						P.M.Khali					Panerchara			Teknaf					
Species	Plante	Swank	Total	Bengd	Joarian	Jumch	Kalirch	Machu	Total	P.M. K	P.M. K	Tatuiya	Tutuk	Total	Mithac	Panerc	Total	Dakhin	Dumdu	Dumdu	Ledha	Madhy	Mathab
	85-89	0	0	0	3.5	0	18.1	0	21.6	0	0	0	0	0	0	14.9	14.9	0	0	0	0	0	0
	90-91	0	0	0	24.5	0	66.2	74.9	165.6	11.4	7	0	5.5	23.9	0	48	48	0	0	0	0	0	0
	92-93	0	0	0	0	0	10.9	17.8	28.7	7.7	13	0	2.3	23	0	9.3	9.3	0	0	0	0	0	0
	94	0	0	0	0	0	0	24.4	24.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	28	0	95.2	117.1	240.3	19.1	20	0	7.8	46.9	0	72.2	72.2	0	0	0	0	0	0
Eucalyp	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gamar	80-84	0	0	0	0	0	30.2	0	30.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85-89	0	0	0	0	0	38.8	0	38.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	69	0	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Garjan	50-59	0	0	0	0	0	0	0	0	0	0	0	0	0	18.1	0.4	18.5	0	0	0	0	0	0
	60-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	14.7	0	14.7	0	0	0	0	0	0
	70-74	0	0	0	0	0	0	16.8	16.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75-79	0	0	0	93.1	0	75.7	49.2	218	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	80-84	0	0	0	47.4	0	22.3	0.1	69.8	0	0	0	0	0	0.1	0	0.1	0	0	0	0	0	0
	85-89	0	0	0	12.4	0	32.9	2.6	47.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	4.8	0	0	0	4.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	n.a.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	157.7	0	130.9	68.7	357.3	0	0	0	0	0	32.9	0.4	33.3	0	0	0	0	0	0
Koroi	85-89	0	0	0	17.9	0	0.8	0	18.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	17.9	0	0.8	0	18.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mahoga	65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubber	n.a.	0	0	0	0	315.5	0	0	315.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0	0	0	0	315.5	0	0	315.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Teak, <	20-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50-59	0	37.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	60-64	0	44.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0.3	0	0	0
	65-69	0	50.7	0	0	0	0.1	4.6	4.7	0	0	0	0	0	0	0	0	0	0	0	6.5	0.4	0
	70-74	4.4	10.8	0	0	0	5.1	18.3	23.4	0	0	0	0	0	0	0	0	0	0	0	15.8	0	0
	75-79	0	0	0	2.7	0	0	14.1	16.8	0	0	0	0	0	0	0	0	0	0	0	3.4	0	0
	80-84	0	0	0	5.8	0	102.7	157.4	265.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85-89	0	0	6.1	62.6	0	52.6	94.8	216.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90-91	0	0	0	0	1.3	0	0	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	27.3	1.9	0	0	29.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	35.4	0	1.9	17.3	54.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Year	Inani		Meherghona						P.M.Khali					Panerchara			Teknaf					
Species	Plante	Swank	Total	Bengd	Joarian	Jumch	Kalirch	Machu	Total	P.M. K	P.M. K	Tatuiya	Tutuk	Total	Mithac	Panerc	Total	Dakhin	Dumdu	Dumdu	Ledha	Madhy	Mathab
	Total	4.4	143.8	6.1	133.8	3.2	162.4	306.5	612	0	0	0	0	0	0	0	0	0.8	0	0.3	25.7	0.4	0
Teak, >	20-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.9	0	0
	30-39	0	4.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	40-49	0	13.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.9	2.1	0
	50-59	0.1	187.5	27.5	0	0	20.7	0	48.2	0	0	0	0	0	0	0	0	0	0	0	48.2	61.9	0
	60-64	0	80.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14.6	0	0	8.7	38.1	0
	65-69	0	47.3	25.4	0	0	10.1	9.8	45.3	0	0	0	0	0	0	0	0	17	0	0.1	7.1	12.5	0
	70-74	0	10.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21.3	0
	75-79	0	0	0	30.1	0	0	1	31.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	80-84	0	0	0	18.9	0	5.3	37.9	62.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85-89	0	0	13.2	8	0	16.7	5.3	43.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0.1	343.5	66.1	57	0	52.8	54	229.9	0	0	0	0	0	0	0	0	31.6	0	0.1	68.8	135.9	0
Teak, >	00-09	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	50-59	0	0	45	0	0	15	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	60-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	65-69	0	0	0	0	0	0	2.5	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	70-74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	75-79	0	0	0	12.8	0	0	0	12.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	80-84	0	0	0	40.4	0	2.8	0	43.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85-89	0	0	1	19.4	0	19.3	0.3	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	90-91	0	0	0	0	0	6.1	0	6.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	50.6	21.5	0	0	72.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0.1	0.1	46	123.2	21.5	43.2	2.8	236.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unidenti	70-74	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.3	1.1	5.4	10.6	11	0
(LRS)	75-79	20.4	203.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.4	28.3	24	21.4	44.6	0
	80-84	0	56.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.4	54.4	6.5	45.4	0
	90-91	0	0	0	0	0	0	0	0	0	0	3.9	0	3.9	0	0	0	0	0	0	0	0	0
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	20.4	300.9	0	0	0	0	0	0	0	0	3.9	0	3.9	0	0	0	27.7	56.8	83.8	38.5	101	0
n.a.		766	6912	413.3	143.1	879.8	347.4	594.7	2378.3	346.4	325.3	599.4	173.4	1444.5	864.8	187.9	1052.7	761.7	695.9	168.6	1069.3	1428.1	849.7
Total		791	7709.6	533.4	741.7	1222.1	1247.7	1341.1	5086	405.7	382.3	604	217.2	1609.2	1057.4	586.9	1644.3	821.8	752.7	252.8	1223.2	1706.5	849.7

	Year	Teknaf				Ukhia										Whykheong						
Specie	Planted	Rajarc	Silkhali	Teknaf	Total	Battali	Dochar	Haludia	Kutupal	Palong	Ratnap	Thaink	Uhalap	Ukhiar	Walapa	Total	Monkh	Raikhe	Saplap	Whykh	Total	n/a	Total
Acacia	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	33.9	34	0	34
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	33.9	34	0	34
Acacia	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.8
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16.1	124.2
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63.8	227
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31.8
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79.9	384.8
Acacia	20-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	4.8
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.9
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.4	211.9
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	177.1	932.6
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	270.7
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	293.7	1426.9
Acacia	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3.5
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	2.2
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	5.7
Acacia/	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	7
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	59.6
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	122.8
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.7	189.4
All spe	30-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
(LRS)	40-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2
	50-59	0	8.7	0	24.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	36.1
	60-64	0	3.2	0	34.7	0	0	0	0	0	6.6	0	3	0	0	9.6	0	0	0	0	0	0.7	53.1
	65-69	0	0	0	10.7	0	0	7.4	0	0	10.9	0	0	0	0	18.3	0	6.6	0	3.2	9.8	3.2	44.6
	70-74	0	0	0	3.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.7
	Total	0	11.9	0	73.9	0	0	7.4	0	0	17.5	0	3	0	0	27.9	0	6.6	0	3.2	9.8	5	141.7
Chikras	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44.8
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44.8
Dhakija	50-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13.4	216
	60-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.6
	65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
	70-74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.6
	75-79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.2	180.6
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19.3	241.8
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38.7	195.6
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5.1
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.6	38.2
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38.3	39
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151.5	1025.5
Eucaly	20-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	5.6
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.9

	Year	Teknaf				Ukhia											Whykheong							
Specie	Planted	Rajarc	Silkhali	Teknaf	Total	Battali	Dochar	Haludia	Kutupal	Palong	Ratnap	Thaink	Uhalap	Ukhiar	Walapa	Total	Monkh	Raikhe	Saplap	Whykh	Total	n/a	Total
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16.5	147.4
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	203.2	602
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102.9	198
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.2	45.4
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	325.7	1009.3
Eucaly	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.7	55.5
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.7	55.5
Gamar	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30.2
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38.8
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69
Garjan	50-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	38
	60-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.3	21
	65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	420.4
	70-74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71.9	165.4
	75-79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	578.4
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	598.6
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.1	501.3
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.3
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	10.8
	n.a.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.1
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144.1	2342.3
Koroi	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.7
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.7
Mahog	65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28.7
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.5	10.7
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.5	144.4
Rubber	n.a.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	513.6	832
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	513.6	832
Teak, <	20-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	0.2	31.7	32.8	0	32.8
	30-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.9	0	1	30.1	42	0	42
	40-49	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	1.2	8.2	3.1	0	0.2	11.5	0.6	22.3
	50-59	0	0	3.6	3.6	3.6	0	0	0	35.2	0	133.1	29.1	0	0	201	97.9	0	0	37.1	135	10.2	531
	60-64	0	9.6	33.1	43.8	53.3	0	0	0	72.3	0	30.8	34	0	0	190.4	64.5	10.2	0	11.7	86.4	29.8	837.8
	65-69	0	12.3	26	45.2	55.1	0	15.2	0	24.8	0	27.9	70.3	65.3	0	258.6	89.7	0	0	26.5	116.2	203.6	1148.4
	70-74	0	0	0	15.8	49.6	0	0	0	0	0	0	71.6	0	0	121.2	119.9	0	0	0	119.9	42.2	490.1
	75-79	0	0	0	3.4	0	0	0	0	20.2	0	260.3	0	0	0	280.5	0	0	0	0	0	30.7	848.5
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26.2	380.5
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.7	573.7
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	64.4
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72.5	238.9
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	173.8

	Year	Teknaf				Ukhia											Whykheong						
Specie	Planted	Rajarc	Silkhali	Teknaf	Total	Battali	Dochar	Haludia	Kutupal	Palong	Ratnap	Thaink	Uhalap	Ukhiar	Walapa	Total	Monkh	Raikhe	Saplap	Whykh	Total	n/a	Total
	Total	0	21.9	62.7	111.8	161.6	0	15.2	0	152.5	0	452.1	206.2	65.3	0	1052.9	391.1	14.2	1.2	137.3	543.8	502.5	5384.2
Teak, >	20-29	0	0	0	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	16.6	16.8	0.1	18.8
	30-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.1	10.1	0	14.4
	40-49	0	0	0	5	0	0	0	0	0	0	0	1	0	0	1	6.7	14.9	0	3.4	25	0.1	44.8
	50-59	0	83.6	36.4	230.1	1.5	0	0	0	3.5	0	28	15.5	0	0	48.5	0	65.8	0	137.6	203.4	19.4	948.5
	60-64	0	42.9	28.5	132.8	18	0	0	0	13.4	3.6	9.9	2.2	0	0	47.1	0	43.2	0	46	89.2	72.1	842.4
	65-69	0	33.1	16.4	86.2	5	0	0	0	7.3	0	2.1	2.1	0	0	16.5	11.7	85.1	0	58.9	155.7	25.8	596.4
	70-74	0	5.9	0	27.2	10.7	0	0	0	0	0	0.1	0	0	0	10.8	0	0	0	0	0	90.7	291
	75-79	0	0	0	0	0	0	0	0	2.8	0	35.8	0	0	0	38.6	0	0	0	0	0	8.9	124.5
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.6	137.9
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.4	46.6
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	74.3
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	5.3
	Total	0	165.5	81.3	483.2	35.2	0	0	0	27	3.6	75.9	20.8	0	0	162.5	18.4	209.2	0	272.6	500.2	245.3	3144.9
Teak, >	00-09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.3	0	0	0	65.3	0	65.4
	50-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.9	222.9
	60-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58.7	132.4
	65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.5	147.4
	70-74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.3	115.1
	75-79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	62.7
	80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81.7	180.7
	85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30.4	114
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.1
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.2	85.9
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.3	27.3
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65.3	0	0	0	65.3	242.5	1159.9
Uniden	70-74	0	13.9	10	61.3	111.8	0	0	0	7.2	0	0	85.9	0	0	204.9	0	0	0	124.1	124.1	94.2	806.2
(LRS)	75-79	0	24.6	20.4	181.7	0	0	0	19	6.6	0	0	2.5	0	0	28.1	0.2	0	14.2	361.6	376	73.5	1168.1
	80-84	0	1.1	0	134.8	0	0	0	67.7	0.7	21.3	5.5	0	186.5	0	281.7	53.4	0.3	28.3	0	82	52	815.8
	90-91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.3	11.8
	92-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	1.5
	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36.9	54.6
	Total	0	39.6	30.4	377.8	111.8	0	0	86.7	14.5	21.3	5.5	88.4	186.5	0	514.7	53.6	0.3	42.5	485.7	582.1	259.4	2858
n.a.		1338	517	1006.2	7834.5	551	977	18.9	1111.2	953.2	536.1	604.7	151	667	530.2	6100.3	307.7	1501.6	787.1	776.6	3373	65884	114443
Total		1338	755.9	1180.6	8881.2	859.6	977	41.5	1197.9	1147.2	578.5	1138.2	469.4	918.8	530.2	7858.3	836.2	1731.9	830.8	1709.3	5108.2	68665	134714

Table 4. Summary of Tree Volumes (cu m/ha) by Stratum and Species Group,
20cm+dbh for Natural Forest and 15cm+dbh for Plantations(Cox's Bazar Forest Division)

Stratum (Code)		Species Group					All Species Groups	Sample size, n	Sampling Error(%)
		Special Class	Class A	Class B	Class C	Class D			
HF/GF (10)		1.11	37.57	20.91	1.16	32.27	93.01	215	5.6
LF (20)		0.62	25.31	16.94	0.72	26.61	70.2	249	5.5
ST/TB (30)		0.22	7.71	7.84	0.08	9.31	25.16	80	12.8
All Strata, Natural Forests		**0.77**	**28.32**	**17.51**	**0.83**	**26.93**	**74.36**	**544**	**3.8**
T/OT,1959 (50)		17.23	10.52	17.97	0.02	6.71	52.44	39	12.7
T/OT,60-79 (60)		10.38	8.94	9.14	0.19	5.61	34.27	135	10.2
T/OT,80+ (70/80)		3.88	2.94	0.39	0.38	0.39	7.97	47	34.8
Other LRS, 79 (90)		3.88	2.21	1.73	0.21	0.23	8.26	83	15.1
Other LRS, 80+(100)		0.63	1.83	4.40	0.04	2.14	9.04	64	14.4
All SRS (120)/(130)		0.22	0.85	0.61	0.77	0.49	2.93	76	41.9
Other Plantations (140)		0	0	0	0	4.02	4.02	2	--
Others: En,FP,RB, ...(150)		1.80	17.99	8.88	0.27	10.1	39.06	168	8.2
All Strata (Plantations) except 140&150		**6.06**	**4.80**	**5.54**	**0.27**	**2.75**	**19.42**	**444**	**6.7**

Table 4a. Summary of Tree Volumes (cu.m.) by Stratum and Species Group,
20cm+dbh for Natural Forest and 15cm+dbh for Plantations (Cox's Bazar Forest Division)

Stratum (Code)	Area (in hectares)	Species Group					All Species Groups
		Special Class	Class A	Class B	Class C	Class D	
HF/GF (10)	**12517.7**	13895	470290	261745	14521	403946	1164271
LF (20)	**14348.8**	8896	363168	243069	10331	381822	1007286
ST/TB (30)	**3531.9**	777	27231	27690	283	32882	88863
All Strata, Natural Forests	**30398.4**	23407	860883	532276	25231	818629	2260425
T/OT,1959 (50)	**1942.9**	33476	20439	34914	39	13037	101886
T/OT,60-79 (60)	**5636.7**	58509	50392	51519	1071	31622	193170
T/OT,80+ (70/80)	**2109.4**	8184	6202	823	802	823	16812
Other LRS, 79 (90)	**3950.0**	15326	8730	6834	830	909	32627
Other LRS, 80+(100)	**2625.0**	1654	4804	11550	105	5618	23730
All SRS (120)/(130)	**3174.6**	698	2698	1937	2444	1556	9302
All Strata (Plantations) except 140&1	**19438.6**	**117798**	**93305**	**107690**	**5248**	**53456**	**377498**
Total Vol. in Cox's Bazar FD, cu.m.	**49837.0**	**141205**	**954188**	**639966**	**30479**	**872085**	**2637923**

Table 5. Summary of Estimates on Poles, Saplings and Seedlings by Stratum and Species Group (Number of stems/ha); Cox's Bazar Forest Division

Stratum (Code)	Special Class	Class A	Class B	Class C	Class D	Total	SE%
Poles:							
HF/GF (10)	9.24	36.74	42.84	3.15	245.71	337.67	6.0
LF (20)	7.61	45.52	39.83	4.8	250.78	348.54	5.6
ST/TB (30)	7.57	70.02	46.58	4.16	177.16	305.48	15.1
T/OT, 1959 (50)	79.96	46.12	30.71	3.84	193.91	354.54	18.8
T/OT, 1960-1979 (61,62,63)	100.13	132.29	73.51	5.04	172.72	483.68	8.3
T/OT, 1980+(71,72,80)	144.3	221.48	87.31	6.93	227.75	687.77	11.5
Other LRS, 1979 (91,92,93)	168.49	172.06	191.44	30.22	348.02	910.23	9.0
Other LRS, 1980+ (103,104)	35.4	261.43	229.34	36.24	364.45	926.85	11.1
All SRS (120,131,132,133)	6.79	209.95	204.42	349.89	79.16	850.2	10.0
Other Plantations (140)	0	0	0	0	122.24	122.24	--
Others (150)	46.09	101.88	99.13	20.58	168.36	436.04	10.7
Saplings:							
HF/GF (10)	18.49	144.69	119.15	12.57	933.14	1228.04	8.5
LF (20)	8.27	142.85	122.53	16.95	1353.93	1644.53	6.9
ST/TB (30)	53.22	173.38	81.45	15.44	702.68	1026.16	15.6
T/OT, 1959 (50)	75.61	118.93	145.47	0	818.74	1158.74	12.9
T/OT, 1960-1979 (61,62,63)	63.13	156.5	99.72	3.81	485.31	808.47	13.6
T/OT, 1980+(71,72,80)	59.85	182.81	112.11	0	231.82	586.59	20.0
Other LRS, 1979 (91,92,93)	92.89	194.98	222.22	12.74	904.47	1427.9	11.8
Other LRS, 1980+ (103,104)	12.67	253.54	162.85	28.15	566.99	1024.2	13.6
All SRS (120,131,132,133)	22.87	408.57	257.19	55.35	839.83	1583.81	13.1
Other Plantations (140)	0	0	0	0	1910.89	1910.89	--
Others (150)	58.27	177.76	138.59	21.94	791.83	1188.39	8.9
Seedlings:							
HF/GF (10)	46.56	809.6	404.61	32.13	3119.29	4412.18	10.4
LF (20)	41.47	896.47	431.48	44.08	4002.08	5415.57	7.5
ST/TB (30)	116.45	1370.8	272.97	24.37	2648.77	4433.36	17.3
T/OT, 1959 (50)	192.29	814.2	537.8	0	3173.81	4718.09	16.9
T/OT, 1960-1979 (61,62,63)	99.52	1197.39	937.88	28.1	1940.08	420.96	13.5
T/OT, 1980+(71,72,80)	127.83	477.7	227.48	0	745.26	1578.26	--
Other LRS, 1979 (91,92,93)	89.17	705.59	477.00	0	3191.07	4462.83	20.5
Other LRS, 1980+ (103,104)	96.51	802.61	395.67	77.2	1713.03	3085.02	16.5
All SRS (120,131,132,133)	25.14	1662.2	993.83	155.05	4110.79	6947.00	14.7
Other Plantations (140)	509.57	0	509.57	0	7133.96	8153.09	--
Others (150)	68.65	1267.99	444.2	45.3	3102.19	4928.33	9.1

Table 6. Comparison of Forest Statistics: !984 (FAO/UNDP BGD 75/071) and 1996 (FRMP) - Cox's Bazar Forest Division

Statistics	Year	HF	GF	LF	ST	Total NF	T/OT 59	T/OT 60-79	T/OT 80+	OLRS 79	OLRS 80+	SRS, all	YP 70+	FP	Total Plntns
Area, ha	1984	12891	521	17882	3205	34499	1422	1839	0	7079	0	--	7226	478	18044
Area, ha	1996	12226	292	14349	3532	30398	1943	5637	2109	3950	2625	3175	--	--	19439
No.Trees/ha	1984	89.8	63.6	62.5	39.8	70.6	220-630	470-1040	680-1680	120-920	750-1680	--	400-1680	--	--
No.Trees/ha	1996	54.3	54.3	43.3	17.8	44.9	119.7	101.6	53.38	57.47	30.92	21.18	--	--	66.52
BA/ha, sq.m.	1984	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BA/ha, sq.m.	1996	9.3	9.3	6.55	3.15	7.27	8.31	5.69	2.18	2.1	1.59	0.81	--	--	3.48
Vol/ha, cu.m.	1984	113.3	117	55.1	37.1	76.1	42.9-118.5	35.2-59.6	0	21.4-139.5	0	--	--	13.2-18.7	--
SE%	1984	11.0	--	10.3	--	--	6.6-13.6	8.0-11.0	--	14.5-31.1	--	--	--	--	--
Vol/ha, cu.m.	1996	79.76	79.8	56.64	20.28	61.94	52.44	34.27	7.97	8.26	9.04	2.93	--	--	19.42
SE%	1996	5.6	5.6	5.5	12.8	3.8	12.7	10.2	--	--	14.4	--	--	--	6.7
Poles/ha, 10-30 cm dbh	1984	127.4	--	189.0	--	--	Note: Included in NT/ha down to 4-cm dbh.				--	--	--	--	--
Poles/ha, 10-30 cm dbh	1996	212	212	213.4	133.1	203.41	Note: 1996 poles estimates for plantations include dbh 2.5 to 14.5 cm.							--	--
Poles/ha, 5-10 cm dbh	1984	215.8	--	181.2	--	--	Note: Included in NT/ha down to 4-cm dbh.				--	--	--	--	--
Poles/ha, 5-10 cm dbh	1996	163	163	173.55	187.6	171.02	354.54	483.68	687.77	910.23	926.85	850.2	--	--	699.3
Seedlings & Saplings/ha	1984	1163	--	1150.9	--	--	--	--	--	--	--	--	--	--	--
Seedlings & Saplings/ha	1996	5640	5640	7060.1	5460	6289.45	5876.83	5011.43	2164.85	5890.12	4109.22	8530.81	--	--	5420.51
Bamboo:															
Muli, imm.stems/ha	1984	1250	210	3310	0	--	--	--	--	--	--	--	--	--	--
Muli,matstems/ha	1984	400	290	850	0	--	--	--	--	--	--	--	--	--	--
Others,imm.stems/ha	1984	3270	1040	2100	7710	--	--	--	--	--	--	--	--	--	--
Others,mat.stems/ha	1984	1070	210	670	2670	--	--	--	--	--	--	--	--	--	--
Bamboo:															
Muli, imm.stems/ha	1996	246	246	71	152	152	555	402	175	111	87	24	--	--	289
Muli,mat.stems/ha	1996	59	59	33	62	48	99	159	50	24	67	12	--	--	97
Others,imm.stems/ha	1996	2044	2044	2076	1985	2050	855	529	638	662	789	91	--	--	932
Others,mat.stems/ha	1996	498	498	457	236	441	237	102	178	258	276	38	--	--	266
Rattan:															
<3-m stems/ha	1984	--	--	--	--	--	--	--	--	--	--	--	--	--	--
>=3-m stems/ha	1984	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rattan:															
<3-m stems/ha	1996	78.18	78.2	73.91	47.91	71.77	132.14	94.8	16.24	38.2	31.35	33.51	--	--	75.87
>=3-m stems/ha	1996	5.14	5.14	9.95	2.01	6.88	9.61	13.48	0	4.07	3.47	3.02	--	--	7.49

Notes: 1984 NT/ha in natural forest includes only 30-cm+ dbh trees while the 1996 figure includes 20-cm+ dbh trees. In the case of the forest plantations, 1984 NT/ha includes all trees down to 4-cm dbh while the 1996 estimate starts at 15-cm dbh.
Poles in 1996 estimates for the plantations include 2.5 to 14.5-cm dbh while in the 1984 estimates these are included in NT estimates.

YP -- young plantations

APPENDIX 1

Field Data Enumeration Forms 1 and 2

BANGLADESH FRMP FOREST INVENTORY

1. ENUMERATION, NATURAL HILL FOREST

PLOT CLUSTER					LOCATION									NUMBER OF RECORDS										
NUMBER	LONGITUDE	LATITUDE	PLOT NUMBER	CONTROL	RECORD TYPE	DIVISION	RANGE	BEAT	BLOCK	LAND USE	FOREST TYPE	STAND CONDITION	PILFERAGE, NO. OF STUMPS	TERRAIN	SLOPE	ASPECT	SOIL TYPE	TREES/POLES	SEEDLINGS	SAPLINGS	RATTAN	BAMBOO	MEDICINAL PLANTS	CREW	DAY	MONTH	YEAR
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
					1																						

2

5 1 3

4

ENUMERATOR: _____

CHECKER: _____

SHEET: _____ OF: _____

		r = 1m SEEDLINGS HT. < 1.5m			r = 2m SAPLINGS HT. > 1.5m OR DBH < 5.0 cm			RATTAN r = 2m. < 3.0m LONG r = 5m. > 3.0m LONG				r = 2m OTHER BAMBOO			r = 2m MEDICINAL PLANTS			r = 5m BAMBOO, SOLITARY STEMS			r = 5m POLES DBH = 5.0 -19.5 cm			r = 11m TREES DBH/DAB = 20.0 + cm									READINGS FOR BOLE & TREE HEIGHTS				
RECORD TYPE	CONSEC NUMBER	SPECIES	SPECIES CODE	NO. OF STEMS	SPECIES	SPECIES CODE	NO. OF STEMS	SPECIES	SPECIES CODE	< 3.0 m LONG	> 3.0 m LONG	SPECIES CODE	IMMATURE STEMS	MATURE STEMS	SPECIES	SPECIES CODE	NO. OF STEMS	SPECIES CODE	IMMATURE STEMS	MATURE STEMS	RECORD TYPE	CONSEC NUMBER	SPECIES	SPECIES CODE	DBH @ 1 cm	SPECIES	SPECIES CODE	DBH or DAB 0.1 cm	BUTTRESS HEIGHT	DAMAGE	GRADE	INFESTATION	BOLE HEIGHT	TREE HEIGHT	HORIZONTAL DISTANCE	HEIGHT OF BASE	PERCENT TO BASE	PERCENT TO CROWN POINT	PERCENT TO TOP
10	11		12	13		12	14		12	15	16	12	17	18		12	19	12	20	21	10	11		12	13		12	13	14	15	16	17	18	19					
4	1																				2	1																
4	2																				2	2																
4	3																				2	3																
4	4																				2	4																
4	5																				2	5																
4	6																				2	6																
4	7																				2	7																
4	8																				2	8																
4	9																				2	9																
4	10																				2	10																
4	11																				2	11																
4	12																				2	12																
4	13																				2	13																
4	14																				2	14																
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4	17																				2	17																
4	18																				2	18																
4	19																				2	19																
4	20																				2	20																
4	21																				2	21																
4	22																				2	22																
4	23																				2	23																
4	24																				2	24																
4	25																				2	25																

BANGLADESH FRMP FOREST INVENTORY

2. ENUMERATION, FOREST PLANTATIONS (HILL FOREST)

PLOT CLUSTER: NUMBER | LONGITUDE | LATITUDE

LOCATION: PLOT NUMBER | CONTROL | RECORD TYPE | DIVISION | RANGE | BEAT | BLOCK | LAND USE | FOREST TYPE | STAND CONDITION | PILFERAGE | NO. OF STUMPS | YEAR PLANTED | TERRAIN | SLOPE | ASPECT | SOIL TYPE

NUMBER OF RECORDS: TREES/POLES | SEEDLINGS | SAPLINGS | RATTAN | BAMBOO | MEDICINAL PLANTS

CREW | DAY | MONTH | YEAR

ENUMERATOR: _____

CHECKER: _____

SHEET: _____ OF: _____

r = 1m SEEDLINGS HT. < 1.5 m: RECORD TYPE | CONSEC NUMBER | SPECIES | SPECIES CODE | NO. OF STEMS

r = 2m SAPLINGS HT. > 1.5 m OR DBH < 2.5 cm: SPECIES | SPECIES CODE | NO. OF STEMS

RATTAN r = 2m: < 3.0m LONG r = 5m: > 3.0m LONG: SPECIES | SPECIES CODE | < 3.0 m LONG | > 3.0 m LONG

r = 2m OTHER BAMBOO: SPECIES CODE | IMMATURE STEMS | MATURE STEMS

r = 2m MEDICINAL PLANTS: SPECIES | SPECIES CODE | NO. OF STEMS

r = 5m, BAMBOO SOLITARY STEMS r = 11m, BAMBOO CLUMPS: SPECIES CODE | IMMATURE STEMS | MATURE STEMS

r = 5m POLES DBH = 2.5 - 14.5 cm: RECORD TYPE | CONSEC NUMBER | SPECIES | SPECIES CODE | DBH (0.1 cm)

r = 11m TREES DBH/DAB = 15.0 + cm: SPECIES | SPECIES CODE | DBH or DAB (0.1 cm) | BUTTRESS HEIGHT | DAMAGE | GRADE | INFESTATION | BOLE HEIGHT | TREE HEIGHT

READINGS FOR BOLE & TREE HEIGHTS: HORIZONTAL DISTANCE | HEIGHT OF BASE | PERCENT TO BASE | PERCENT TO CROWN POINT | PERCENT TO TOP

RECORD TYPE	CONSEC NUMBER
10	11
4	1
4	2
4	3
4	4
4	5
4	6
4	7
4	8
4	9
4	10
4	11
4	12
4	13
4	14
4	15
4	16
4	17
4	18
4	19
4	20
4	21
4	22
4	23
4	24
4	25

RECORD TYPE	CONSEC NUMBER
3	1
3	2
3	3
3	4
3	5
3	6
3	7
3	8
3	9
3	10
3	11
3	12
3	13
3	14
3	15
3	16
3	17
3	18
3	19
3	20
3	21
3	22
3	23
3	24
3	25

APPENDIX 2

Plot and Tree Description Codes

PLOT/TREE DESCRIPTION CODES

(Hill Forests)

Land Use Category

1 Tidal forest

2 Coastal forest

3 Natural hill forest

4 Forest plantation

5 Bush/shrubland

6 Fruit/other trees

7 Agriculture

8 No vegetation

9 Settlement

10 Others

Forest Type

1 Mangrove forest

2 Nipa forest

3 Coastal forest

4 Natural hill forest

5 Bamboo forest

6 Forest plantation

Stand Condition:

Natural (hill) forest

1 Well-stocked (at least 50% crown cover)

2 Poorly stocked (<50% crown cover)

Bamboo forest

1 Newly harvested

2 Harvested, more than one year ago

Forest plantations

1 Well-stocked (at least 50% crown cover or of original stocking)

2 Poorly stocked(<50% crown cover or of original stocking)

3 Failure

4 Destroyed by fire

Terrain

0 Flat or undulating (0-10% slope)

1 Lowland gully

2 Lower slope of mould (lower part of sloping terrain)

3 Mid-slope (middle part of sloping terrain)

4 Upper slope (upper part of sloping terrain)

5 Slope gully

6 Hill top

7 Ridge

Slope

0 0 to 8%

1 9 to 15%

2 16 to 25%

3 26 to 45%

4 40 to 70%

5 71 to 100%

6 >100%

Aspect

0	Flat and undulating (0 to 10% slope)
1	N, azimuth 338 to 22 degrees
2	NE, 23 to 67 degrees
3	E, 68 to 112 degrees
4	SE, 113 to 157 degrees
5	S, 158 to 202 degrees
6	SW, 203 to 247 degrees
7	W. 248 to 292 degrees
8	NW, 293 to 337 degrees

Soil type

0	Clay
1	Clay loam
2	Loam
3	Sandy
4	Sandy loam

Tree grade

1	Straight and clean without damage, circular cross-section, apparently sound
2	Similar to 1 but up to half of surface is knotty or cross-section is irregular, or with slight sweep
3	Twisted and knotty, or with other defects which reduce usable volume by up to 25%, such as rot, burn, physical damage, forks or bends
4	Very knotty and bent, or with defects which reduce usable volume by up to 25 to 50%
5	Reject, with such defects that only less than 50% of volume is usable

Damage

0	No damage
1	Slight damage, tree will survive
2	Heavy damage, tree will die
3	Uprooted
4	Felled
5	Broken
6	Dead

Infestation

0	No infestation
1	Insect infestation
2	Climbed by rattan
3	Slightly infested with climbers
4	Severely infested with climbers
5	Infested with mistletoe (Loranthus sp.)
6	Others

PLOT/TREE DESCRIPTION CODES
(Mangrove Forest and Coastal Plantations)

Land use category

1 Tidal forest

2 Coastal forest

3 Natural hill forest

4 Forest plantation

5 Bush/shrubland

6 Fruit/other trees

7 Agriculture

8 No vegetation

9 Settlement

10 Others

Forest type

1 Mangrove forest

2 Nipa forest

3 Coastal forest

6 Forest plantation

Stand Condition:

Mangrove forest

1 Harvested, less than 5 years ago

2 Harvested, 5 or more years ago

Nipa forest

1 Newly harvested

2 Harvested, more than one year ago

3 Cleared

Forest plantations

1 Well-stocked (at least 50% crown cover or of original stocking)

2 Poorly stocked (< 50% crown cover or of original stocking)

3 Failure

4 Destroyed by fire

5 Eroded

6 Encroached

7 Handed over to Revenue Department

Damage

0	No damage
1	Slight damage, tree will survive
2	Heavy damage, tree will die
3	Uprooted
4	Felled
5	Broken
6	Dead

Infestation

0	No infestation
1	Insect infestation
2	Climbed by rattan
3	Slightly infested with climbers
4	Severely infested with climbers
5	Infested with mistletoe (Loranthus sp.)
6	"Top dying" (die-back)
7	Others

Tree grade

1	Straight and clean without damage, circular cross-section, apparently sound
2	Similar to 1 but up to half of surface is knotty or cross-section is irregular, or with slight sweep
3	Twisted and knotty, or with other defects which reduce usable volume by up to 25%, such as rot, burn, physical damage, forks or bends
4	Very knotty and bent, or with defects which reduce usable volume by up to 25 to 50%
5	Reject, with such defects that only less than 50% of volume is usable

APPENDIX 3

Species Codes

List of Forest Species, Codes and Commercial Class

Hill Forests:

	Vernacular Name	Botanical Name	Code Name	Code No.	Commercial Group/Class
Trees:					
1.	Agar	*Aquilaria agallocha*	AG	100	5
2.	Am	*Mangifera indica*	AM	101	5
3.	Am-Chundal/Civit	*Swintonia floribunda*	CI	102	3
4.	Amora	*Spondias mangifera*	AR	103	5
5.	Arjan/Arjun	*Polyalthia simiarum*	AJ	104	4
6.	Arsol/Awal/Goda/ Hornia	*Vitex spp.*	AW	105	3
7.	Australian Acacia	*Acacia auricoliformis*	AA	106	2
8.	Bahera	*Terminalia belerica*	BH	107	4
9.	Baittya/Garjan	*Dipterocarpus spp.*	GJ	108	2
10.	Banderhola/Kacha	*Duabanga grandiflora*	BD	109	2
11.	Batana/Batna	*Quercus spp./ Castanopsis tribuloides*	BT	110	5
12.	Bhadi/Jiulbhadi	*Lannea coromandelica*	BI	111	3
13.	Boilam/Boilsur	*Anisoptera glabra*	BM	112	1
14.	Bokain/Ghoranim	*Melia sempervirens/ Melia azaderach*	BK	113	3
15.	Bonak/Kanak	*Schima wallichii*	BN	114	4
16.	Cashew	*Anacardium occidentale*	CW	115	5
17.	Chakua/ Chakkua-Korai	*Albizzia chinensis*	CK	116	5
18.	Cham/Chapalish	*Artocarpus chapasha*	CP	117	2
19.	Champa/Champa-ful	*Michelia champaca*	CM	118	1
20.	Chapalish/Cham	*Artocarpus chapasha*	CP	117	2
21.	Chatim/Chhatian	*Alstonia scholaris*	CT	119	3
22.	Chikrassi	*Chickrassia tabularis*	CS	120	1
23.	Chundul/Mainakat	*Tetrameles nudiflora*	MK	121	3
24.	Civit/Am-Chundal	*Swintonia floribunda*	CI	102	3
25.	Dhakijam	*Syzygium grande*	DK	122	3
26.	Dharmara/Kamrang	*Stereospermum personatum*	DR	123	5
27.	Dudya/Tali	*Palaquium polyanthum*	DD	124	3
28.	Eucalyptus	*Eucalyptus spp.*	EU	125	3
29.	Gamar/Gamari	*Gmelina arborea*	GM	126	2
30.	Garjan/Baittya	*Dipterocarpus spp.*	GJ	108	2
31.	Ghoranim/Bokain	*Melia sempervirens/ Melia azaderach*	BK	113	3
32.	Goda/Hornia/ Arsol/Awal	*Vitex spp.*	AW	105	3
33.	Hargaza	*Dillenia pentagyna*	HG	127	4
34.	Hari/Jhaw	*Casuarina equisetifolia*	JW	128	5
35.	Haritaki	*Terminalia chebula*	HR	129	4
36.	Hijal	*Barringtonia acutangula*	HJ	130	5
37.	Hornia/Goda Arsol/Awal	*Vitex spp.*	AW	105	3
38.	Ipil-ipil	*Leucaena leucocephala*	IP	131	5
39.	Jam	*Syzygium spp.*	JM	132	2
40.	Jarul/Kanta Jarul	*Lagerstroemia speciosa*	JR	133	2
41.	Jhaw/Hari	*Casuarina equisetifolia*	JW	128	5

42.	Jiulbhadi/Bhadi	*Lannea coromandelica*	BI	111	3
43.	Kacha/Banderhola	*Duabanga grandiflora*	BD	109	2
44.	Kadam	*Anthocephalus cadamba*	KD	134	3
45.	Kainjal/Lohabhadi	*Bischofia javanica*	KJ	135	3
46.	Kala Koroi/Siris	*Albizzia lebbek*	KK	136	3
47.	Kamrang/Dharmara	*Stereospermum personatum*	DR	123	5
48.	Kanak-Cuampa/Moos	*Pterospermum acerifolium*	MS	137	5
49.	Kathal	*Artocarpus intergrifolia*	KT	138	2
50.	Khoirjam	*Eugenia barringtonii*	KM	139	3
51.	Kanta Jarul/Jarul	*Lagerstroemia speciosa*	JR	133	2
52.	Koroi	*Albizzia procera*	KO	140	2
53.	Kosturi/Tejbohal	*Cinnamomum cecidodaphne*	KS	141	5
54.	Kusum/Jaina	*Schleichera oleosa*	KU	142	5
55.	Lohabhadi/Kainjal	*Bischofia javanica*	KJ	135	3
56.	Lohakat/Pynkado	*Xylia dolabriformis*	LK	143	2
57.	Mahogany/Mehogini	*Swietenia spp.*	ME	144	1
58.	Mainakat/Chundul	*Tetrameles nudiflora*	MK	121	3
59.	Mangium	*Acacia mangium*	MG	145	4
60.	Mehogini/Mahogany	*Swietenia spp.*	ME	144	1
61.	Minjiri	*Cassia siamea*	MJ	146	5
62.	Moluccana	*Paraserianthes falcataria*	MO	147	3
63.	Monawal	*Vitex altissima*	MN	148	5
64.	Moos/Kanak-Cuampa	*Pterospermum acerifolium*	MS	137	5
65.	Nageswar/Nagkesar	*Mesua ferrea*	NS	149	2
66.	Narikel/Narikeli	*Pterygota alata*	NK	150	3
67.	Padauk	*Pterocarpus dalbergiodes*	PD	151	1
68.	Pine	*Pinus carribea*	PI	152	5
69.	Pitali	*Trewia nudiflora*	PL	153	3
70.	Pitraj	*Aphanamixis polystachya*	PT	154	2
71.	Pynkado/Lohakat	*Xylia dolabriformis*	LK	143	2
72.	Raktan/Sheradong	*Lophopetalum fimbriatum*	SH	155	3
73.	Rangkat/Haldu	*Adina cardifolia*	RK	156	2
74.	Rata	*Amoora wallichii*	RA	157	5
75.	Sal	*Shorea robusta*	SL	158	2
76.	Shagwan/Shegun/Teak	*Tectona grandis*	TE	159	1
77.	Sheradong/Raktan	*Lophopetalum fimbriatum*	SH	155	3
78.	Shishu	*Dalbergia sisso*	SI	160	1
79.	Shourala/Sonalu	*Cassia fistula*	SR	161	5
80.	Simul/Tula	*Salmania spp.*	SM	162	3
81.	Siris/Kala Koroi	*Albizzia lebbek*	KK	136	3
82.	Sonalu/Shourala	*Cassia fistula*	SR	161	5
83.	Suruj/Toon	*Cedrela toona*	TO	163	2
84.	Tali/Dudya	*Palaquium polyanthum*	DD	124	3
85.	Teak/Shegun/ Shagwan	*Tectona grandis*	TE	159	1
86.	Telsur/Tersol	*Hopea odorata*	TS	164	1
87.	Tetuya koroi	*Albizzia odoratissima*	TY	165	5
88.	Tejbohal/Kosturi	*Cinnamomum cecidodaphne*	KS	141	5
89.	Toon/Suruj	*Cedrela toona*	TO	163	2
90.	Udal	*Firmiana colorata*/ *Sterculia spp.*	UD	166	5
91.	Uriam	*Mangifera sylvatica*	UR	167	3
92.	Dhali Garjan	*Dipterocarpus gracilis*	DG	168	2
93.	Baita Garjan	*Dipterocarpus costatus*	BG	169	2
94.	Teli Garjan	*Dipterocarpus turbinatus*	TG	170	2

95.	Kamdeb	*Callophyllum polyanthum*	KA	171	3
96.	Banspata	*Podocarpus nerlifolia*	BA	172	3
97.	Chalmugra	*Gynocardia odorata*	CH	173	4
98.	Miscellaneous/Unknown tree species		UN	199	5

Forest Species: Sundarbans and Coastal Divisions

	Vernacular Name	Botanical Name	Code Name	Code No.	Commercial Group/Class
Trees:					
1.	Amur	*Amoora cucullata*	AU	201	5
2.	Babul	*Acacia nilotica*	BB	202	5
3.	Baen	*Avicennia officinalis*	BA	203	5
4.	Ban jam	*Eugenia fruticosa*	BJ	204	5
5.	Batla/Batul	*Excoecaria indica*	BL	205	5
6.	Bhaela/Baral	*Intsia bijuga*	BE	206	5
7.	Bhola	*Hibiscus tiliaceus*	BO	207	5
8.	Bon Lichu	*Lepisanthes rubiginosa*	BC	208	5
9.	Bon Notoy	*Mallotus repandus*	BY	209	5
10.	Choyla/Ora/Soyla	*Sonneratia caseolaris*	CY	210	5
11.	Dhundul	*Xylocarpus granatum*	DN	211	5
12.	Doyal	*Mucuna gigantea*	DY	212	5
13.	Gab	*Diospyros peregrina*	GB	213	5
14.	Garjan/Jhanna	*Rhizophora mucronata*	JN	214	5
15.	Gewa	*Excoecaria agallocha*	GW	215	3
16.	Goran	*Ceriops decandra*	GN	216	5
17.	Jhanna/Garjan	*Rhizophora mucronata*	JN	214	5
18.	Jhao	*Tamarix indica*	JA	217	5
19.	Jir	*Ficus sp.*	JI	218	5
20.	Kankra	*Bruguiera gymnorhiza*	KA	219	5
21.	Karanj/Karanja	*Pongamia pinnata*	KR	220	5
22.	Keora	*Sonneratia apetala*	KE	221	4
23.	Khalisha/Khalshi/ Khulsha	*Aegiceras corniculatum*	KC	222	5
24.	Kirpa/Kripa	*Lumnitzera racemosa*	KP	223	5
25.	Ora/Choyla/Soyla	*Sonneratia caseolaris*	CY	210	5
26.	Passur	*Xylocarpus mekongensis*	PS	224	5
27.	Sadda Baen/ White Baen	*Avicennia alba*	SB	225	5
28.	Shingra	*Cynometra ramiflora*	SG	226	5
29.	Sitka/Sitki	*Clerodendrum inerme*	SK	227	5
30.	Sundri	*Heritiera fomes*	SU	228	3
31.	Sundri Lota	*Brownlowia tersa*	SL	229	5
32.	White Baen/ Sadda Baen	*Avicennia alba*	SB	225	5
33.	Miscellaneous/Unknown species		UM	299	5

Legend:

1 - Special Class
2 - Class A
3 - Class B
4 - Class C
5 - Class D

Bamboos:

1.	Bariala Bans	*Bambusa vulgaris*	BR	301
2.	Bazali Bans	*Teinostachyum griffithii*	BZ	302
3.	Choitoya/Muli Bans	*Molocanna bambusoides*	MU	303
4.	Daloo Bans/Dalu	*MNeohouzeana(?) or Teinostachyum(?) dulloa*	DA	304
5.	Daral (climbing)	*Melocalamus compactiflorus*	DL	305
6.	Kali Bans	*Oxytenanthera nigrocilinta*	KB	306
7.	Kaligoda	*Bambusa tulda* (probably)	KG	307
6.	Kaliserri Bans	*Oxytenanthera auriculatam*	KI	308
7.	Khang/Orah Bans	*Dendrocalamus longispathus*	KH	309
8.	Mitenga Bans/ Mirtinga	*Bambusa tulda*	MI	310
9.	Muli/Choitoya Bans	*Molocanna bambusoides*	MU	303
10.	Orah Bans/Khang	*Dendrocalamus longispathus*	KH	309
11.	Parua	*Bambusa teres* (probably)	PR	311
12.	Pecha	*Dendrocalamus hamiltonii*	PC	312
13.	Rupahi	*Dendrocalamus longispathus* (?)	RU	313
14.	Miscellaneous/Unknown species		UB	399

Rattans/Canes:

1.	Galla	*Daemonorops jenkinianus*	GA	401
2.	Horna	*Calamus latifolius*	HO	402
3.	Jalli	*Calamus tenuis*	JL	403
4.	Sundi	*Calamus guruba*	SD	404

Palm:

1.	Golpatta	*Nypa fruticans*	GP	290

APPENDIX 4

Structure and Specifications of Data Entry/Validation Tables

Structure of Data Entry Table (with DEVP and final validation criteria) for Natural Forest: Enumeration Form 1

No	Field Name	Variable Name	Type	Width	Dec'l Pt.	Technical Specifications DEVP	Final
1	Data form	AFORM	C	1	0	=1, 2 or 3	=1
2	Plot cluster number	APCN	C	4	0	=001 to 1300	=001 to 1300
3	Longitude: degrees	ALONGDEG	C	2	0	=88 to 93	See Table A2-4
4	Lon: minutes	ALONGMIN	C	2	0	=0 to 59	=0 to 59
5	Lon: seconds	ALONGSEC	C	2	0	=0 to 59	=0,10,20,30,40,50
6	Latitude: degrees	ALATDEG	C	2	0	=20 to 27	See Table A2-4
7	Lat: minutes	ALATMIN	C	2	0	=0 to 59	=0 to 59
8	Lat: seconds	ALATSEC	C	2	0	=0 to 59	=0,10,20,30,40,50
9	Plot No.	APLOTNO	C	2	0	=1 to 5	=1,2,3,4 or 5
10	Control	ACONTROL	C	1	0	=0 or 1	=0 or 1
11	Record type1	ARECTYPE1	C	1	0	=1 to 6	=1
12	Division	ADIVISION	C	2	0	=1 to 30	See Table A2-5
13	Range	ARANGE	C	2	0	=1 to 50	See Table A2-5
14	Beat	ABEAT	C	2	0	=1 to 99	See Table A2-5
15	Block	ABLOCK	C	3	0	=1 to 500	=1 to 50
16	Land use category	ALUSEC	C	1	0	=1 to 9	=3, or 5,6,7,8 or 9
17	Forest type	AFOTY	C	1	0	=1 to 6	=4 or 5
18	Stand condition	ASTCO	C	1	0	=1 or 2	=1 or 2
19	Pilferage: no. of stumps	APILNOS	C	2	0	=0 to 30	=0 to 30
20	Terrain	ATERRAIN	C	1	0	=0 to 7	=0 to 7
21	Slope	ASLOPE	C	1	0	=0 to 6	=0 to 6
22	Aspect	AASPECT	C	1	0	=0 to 8	=0 to 8
23	Soil type	ASOTY	C	1	0	=0 to 4	=0 to 4
24	No. of records (NR): trees/poles	ANORETP	C	2	0	= 0 to 50	= 0 to 50
25	NR:seedlings	ANRSEED	C	2	0	=0 to 30	=0 to 30
26	NR: saplings	ANRSAP	C	2	0	=0 to 20	=0 to 20
27	NR: rattan	ANRRAT	C	2	0	=0 to 20	=0 to 20
28	NR: bamboo	ANRBAM	C	2	0	=0 to 20	=0 to 20
29	NR:medicinal plants	ANRMED	C	2	0	=0 to 50	=0 to 50
30	Crew No.	ACREWNUM	C	2	0	=0 to 30	=0 to 30
31	Date: day	ADAY	C	2	0	=1 to 31	=1 to 31
32	Date: month	AMONTH	C	2	0	=1 to 12	=1 to 12
33	Date: year	AYEAR	C	2	0	=95 to 98	=95 to 98

34	Invalid subplot(IS): seedlings	AISSE	C	1	0	=0	=0 or 1
35	IS: saplings	AISSA	C	1	0	=0	=0 or 1
36	IS:rattan<3m	AISRL3	C	1	0	=0	=0 or 1
37	IS:rattan>=3	AISRG3	C	1	0	=0	=0 or 1
38	IS: OB	AISOB	C	1	0	=0	=0 or 1
39	IS: med. plts.	AISMP	C	1	0	=0	=0 or 1
40	IS: SSB	AISSSB	C	1	0	=0	=0 or 1
41	IS: poles	AISPOLES	C	1	0	=0	=0 or 1
42	IS: trees	AISTREES	C	1	0	=0	=0 or 1
43	Record type2	ARECTYPE2	C	1	0	=1 to 6	=4
44	Consecutive number 1	ACONSNUM1	C	2	0	=1 to 50	=1 to 50
45	Species code: seedlings	ASCSEED	C	3	0	=100 to 299	=100 to 199
46	No. of stems: seedlings	ANSSEED	C	2	0	=0 to 20	=0 to 20
47	SC: saplings	ASCSAP	C	3	0	=100 to 299	=100 to 199
48	NS: saplings	ANSSAP	C	2	0	=0 to 20	=0 to 20
49	SC: rattan	ASCRAT	C	3	0	=401 to 409	=401 to 409
50	NS: rattan < 3.0m	ANSRATLT3	C	2	0	=0 to 50	=0 to 50
51	NS: rattan =or> 3.0m	ANSRATEG3	C	2	0	=0 to 99	=0 to 99
52	SC: other bamboo (OB)	ASCOB	C	3	0	=301 to 399; not 301/303	=302 to 399; but not 303
53	NS: immature stems, OB	ANSISOB	C	2	0	=0 to 99	=0 to 99
54	NS: mature stems, OB	ANSMSOB	C	2	0	=0 to 99	=0 to 99
55	SC: medicinal plants	ASCMED	C	3	0	=100 to 409	=100 to 409
56	NS: medicinal plants	ANSMED	C	2	0	=0 to 99	=0 to 99
57	SC: solitary stem bamboo (SSB)	ASCSSB	C	3	0	=303	=303
58	NS: immature stems, SSB	ANSISSSB	C	3	0	=0 to 200	=0 to 200
59	NS: mature stems, SSB	ANSMSSSB	C	3	0	=0 to 200	=0 to 200
60	Record type3	ARECTYPE3	C	1	0	=2, 3 or 5	=2

61	Consecutive number 2	ACONSNUM2	C	2	0	=1 to 50	=1 to 50
62	SC: poles	ASCPOLES	C	3	0	=100 to 299	=100 to 199
63	DBH: poles	ADBHPOLES	N	4	1	=2.5 to 19.5	=5.0 to 19.5
64	SC: trees	ASCTREES	C	3	0	=100 to 299	=100 to 199
65	DBH/DAB: trees	ADBHTREES	N	5	1	=14.6 to 120.0	=20.0 to 120.0
66	Buttress height	AHTBUT	N	3	1	=1.1 to 8.0	=1.1 to 8.0
67	Damage	ADAMAGE	C	1	0	=0 to 6	=0 to 6
68	Grade	AGRADE	C	1	0	=1 to 5	=1 to 5
69	Infestation	AINFEST	C	1	0	=0 to 6	=0 to 5
70	Bole height	ABOLEHT	N	4	1	=0.5 to 40.0	=0.5 to 40.0
71	Tree height	ATREEHT	N	4	1	=4.0 to 50.0	=4.0 to 50.0
72	Hor. distance	AHORDIS	N	4	1	=5.0 to 40.0	=5.0 to 40.0
73	Height of base	AHTBASE	N	3	1	=0.0 to 3.0	=0.0 to 3.0
74	Percent to base	APCTB	C	3	0	=0 or (+ or -) 1 to 30%	=0 or (+ or -) 1 to 30%
75	Percent to crown point	APCTCP	C	3	0	=0 or (= or -) 1 to 150%	=0 or (= or -) 1 to 150%
76	Percent to top	APCTTOP	C	3	0	=0 or (+ or -) 1 to 150%	=0 or (+ or -) 1 to 150%

C - Character

N - Numeric

Structure of Data Entry Table (with DEVP and final validation criteria) **for Hill Forest Plantations: Enumeration Form 2**

No	Field Name	Variable Name	Type	Width	Dec'l Pt.	Technical Specifications DEVP	Final
1	Data form	BFORM	C	1	0	=1, 2 or 3	=2
2	Plot cluster number	BPCN	C	4	0	=001 to 1300	=001 to 1300
3	Longitude: degrees	BLONGDEG	C	2	0	=88 to 93	See Table A2-4
4	Lon: minutes	BLONGMIN	C	2	0	=0 to 59	=0 to 59
5	Lon: seconds	BLONGSEC	C	2	0	=0 to 59	=0,10,20,30,40,50
6	Latitude: degrees	BLATDEG	C	2	0	=20 to 27	See Table A2-4
7	Lat: minutes	BLATMIN	C	2	0	=0 to 59	=0 to 59
8	Lat: seconds	BLATSEC	C	2	0	=0 to 59	=0,10,20,30,40,50
9	Plot No.	BPLOTNO	C	2	0	=1 to 5	=1,2,3,4 or 5
10	Control	BCONTROL	C	1	0	=0 or 1	=0 or 1
11	Record type1	BRECTYPE1	C	1	0	=1 to 6	=1
12	Division	BDIVISION	C	2	0	=1 to 30	See Table A2-5
13	Range	BRANGE	C	2	0	=1 to 50	See Table A2-5
14	Beat	BBEAT	C	2	0	=1 to 99	See Table A2-5
15	Block	BBLOCK	C	3	0	=1 to 500	=1 to 50
16	Land use category	BLUSEC	C	1	0	=1 to 9	=1 to 9 but not 3
17	Forest type	BFOTY	C	1	0	=1 to 6	=6
18	Stand condition	BSTCO	C	1	0	=1 or 2	=1 or 2, if bamboo; =1 to 4, otherwise
19	Pilferage: no. of stumps	BPILNOS	C	2	0	=0 to 30	=0 to 30
20	Year planted	BYEARP	C	2	0	=0 to 97	=0 to 97
21	Terrain	BTERRAIN	C	1	0	=0 to 7	=0 to 7
22	Slope	BSLOPE	C	1	0	=0 to 6	=0 to 6
23	Aspect	BASPECT	C	1	0	=0 to 8	=0 to 8
24	Soil type	BSOTY	C	1	0	=0 to 4	=0 to 4
25	No. of records (NR): trees/poles	BNORETP	C	2	0	= 0 to 50	= 0 to 50
26	NR:seedlings	BNRSEED	C	2	0	=0 to 30	=0 to 30
27	NR: saplings	BNRSAP	C	2	0	=0 to 20	=0 to 20
28	NR: rattan	BNRRAT	C	2	0	=0 to 20	=0 to 20
29	NR: bamboo	BNRBAM	C	2	0	=0 to 20	=0 to 20
30	NR:medicinal plants	BNRMED	C	2	0	=0 to 50	=0 to 50
31	Crew number	BCREWNUM	C	2	0	=0 to 30	=0 to 30
32	Date: day	BDAY	C	2	0	=1 to 31	=1 to 31
33	Date: month	BMONTH	C	2	0	=1 to 12	=1 to 12
34	Date: year	BYEAR	C	2	0	=95 to 98	=95 to 98

35	Invalid subplot (IS): seedlings	BISSE	C	1	0	=0	=0 or 1
36	IS: saplings	BISSA	C	1	0	=0	=0 or 1
37	IS:rattan<3m	BISRAL3	C	1	0	=0	=0 or 1
38	IS:rattan>=3	BISRAG3	C	1	0	=0	=0 or 1
39	IS: OB	BISOB	C	1	0	=0	=0 or 1
40	IS: med. plts.	BISMP	C	1	0	=0	=0 or 1
41	IS: SSB	BISSSB	C	1	0	=0	=0 or 1
42	IS: plntn B	BISPB	C	1	0	=0	=0 or 1
43	IS: poles	BISPOLES	C	1	0	=0	=0 or 1
44	IS: trees	BISTREES	C	1	0	=0	=0 or 1
45	Record type2	BRECTYPE2	C	1	0	=1 to 6	=4
46	Consecutive number 1	BCONSNUM1	C	1	0	=1 to 50	=1 to 50
47	Species code: seedlings	BSCSEED	C	1	0	=100 to 299	100 to 299
48	No. of stems: seedlings	BNSSEED	C	2	0	=0 to 20	=0 to 20
49	SC: saplings	BSCSAP	C	3	0	=100 to 299	=100 to 199
50	NS: saplings	BNSSAP	C	2	0	=0 to 20	=0 to 20
51	SC: rattan	BSCRAT	C	3	0	=401 to 409	=401 to 409
52	NS: rattan < 3.0m	BNSRATLT3	C	2	0	=0 to 50	=0 to 50
53	NS: rattan =or> 3.0m	BNSRATEG3	C	2	0	=0 to 99	=0 to 99
54	SC: other bamboo (OB)	BSCOB	C	3	0	=301 to 399; not 301/303	=302 to 399; but not 303
55	NS: immature stems, OB	BNSISOB	C	2	0	=0 to 99	=0 to 99
56	NS: mature stems, OB	BNSMSOB	C	2	0	=0 to 99	=0 to 99
57	SC: medicinal plants	BSCMED	C	3	0	=100 to 409	=100 to 409
58	NS: medicinal plants	BNSMED	C	2	0	=0 to 99	=0 to 99
59	SC: solitary stem bamboo (SSB)	BSCSSB	C	3	0	=303	=303
60	NS: immature stems, SSB	BNSISSSB	C	3	0	=0 to 200	=0 to 200
61	NS: mature stems, SSB	BNSMSSSB	C	3	0	=0 to 200	=0 to 200
62	SC: plant'n bamboo (PB)	BSCPB	C	3	0	=301	=301

63	NS: immature stems, PB	BNSISPB	C	3	0	=0 to 99	=0 to 99
64	NS: mature stems,PB	BNSMSPB	C	3	0	=0 to 99	=0 to 99
65	Record type3	BRECTYPE3	C	1	0	=2, 3 or 5	=3
66	Consecutive number 2	BCONSNUM2	C	2	0	=1 to 50	=1 to 50
67	SC: poles	BSCPOLES	C	3	0	=100 to 299	=100 to 199
68	DBH: poles	BDBHPOLES	N	4	1	=2.5 to 19.5	=2.5 to 14.5
69	SC: trees	BSCTREES	C	3	0	=100 to 299	=100 to 199
70	DBH/DAB: trees	BDBHTREES	N	5	1	=14.6 to 120.0	=14.6 to 120.0
71	Buttress ht.	BHTBUT	N	3	1	=1.1 to 8.0	=1.1 to 8.0
72	Damage	BDAMAGE	C	1	0	=0 to 6	=0 to 6
73	Grade	BGRADE	C	1	0	=1 to 5	=1 to 5
74	Infestation	BINFEST	C	1	0	=0 to 6	=0 to 5
75	Bole height	BBOLEHT	N	4	1	=0.5 to 40.0	=0.5 to 40.0
76	Tree height	BTREEHT	N	4	1	=4.0 to 50.0	=4.0 to 50.0
77	Hor. distance	BHORDIS	N	4	1	=5.0 to 40.0	=5.0 to 40.0
78	Height of base	BHTBASE	N	3	1	=0.0 to 3.0	=0.0 to 3.0
79	Percent to base	BPCTB	C	3	0	=0 or (+ or -) 1 to 30%	=0 or (+ or -) 1 to 30%
80	Percent to crown point	BPCTCP	C	3	0	=0 or (= or -) 1 to 150%	=0 or (= or -) 1 to 150%
81	Percent to top	BPCTTOP	C	3	0	=0 or (+ or -) 1 to 150%	=0 or (+ or -) 1 to 150%

C - Character

N - Numeric

APPENDIX 5

Range and Beat Codes

Forest Division/Range/Beat Codes

HILL FOREST DIVISIONS

DIVISION	CODE	RANGE	CODE	BEAT	CODE
Sylhet	11	Juri	1	Sagarnal	1
				Ragna	2
				Putichara	3
				Barlekha	4
				Somanbag	5
				Lathitila	6
				Madhabchara	7
		Moulavi Bazar	2	Lawachara	1
				Chautali	2
				Kalachara	3
				Moulavibazar	4
				Satgoon	5
		Rajkandi	3	Kurma	1
				Adampur	2
				Kamarchara	3
		Kulduta	4	Muroichara	1
				Monchara	2
				Gazipur	3
				Baramchal	4
				Bhattera	5
				Nalduri	6
		Habigonj	5	Kalenga	1
				Rema	2
				Rashidpur	3
				Putijuri	4
		Raghunandan	6	Shahapur	1
				Shaltila	2
				Shahajibazar	3
				Jagadishpur	4
		Satchari	7	Satchari	1
				Telmachara	2
		North Sylhet	8	Jaflong	1
				Shari	2
				Gowainghat	3
				Kanairghat	4
				Rafargole	5
				Khadimnagar	6
				Tilagaor	7
				Ranikhal	8
				Salutikar	9
		Sunamgonj	9	Maheshkhola	1
				Dalergaon	2
				Saktiarkhola	3
				Sunamgonj Sadar	4
				Doarabazar	5
				Chatak	6

DIVISION	CODE	RANGE	CODE	BEAT	CODE	BLOCK	CODE
Chittagong	21	Olinagar	1	Olinagar	1	Feni	1
		Karerhat	2	Karerhat	1	Lakhichari	1
				Andermanik	2	Panua	2
						Nalua West	3
				Kolia	3	Kolia North	4
				Hiakhon	4	Hiakhon	5
						Nischinta	6
		Mirsarai	3	Hinguli	1	Hinguli	1
						Kolia South	2
				Zorarganj	2	Zorarganj	3
				Gobania	3	Raghunathpur	4
						Gobania	5
		Baralya-dhala	4	Baratakia	1	Kunderhat	1
				Baralyadhala	2	Wahidpur	2
						Baralyadhala	3
				Sitakunda	3	Sitakunda	4
						Chandranath	5
				Hazarikhil	4	Hazarikhil	6
						Rangapani	7
				Fatickchari	5	Fatickchari	8
						Harwalchari	9
		Kumira	5	Barabkunda	1	Barabkunda	1
				Kumira	2	Kumira	2
				Shitalpur	3	Shitlapur(P.F)	3
		Narayan-hat	6	Dantmara	1	Nalua East	1
						Dantmara	2
				Balukhali	2	Chandpur	3
						Idilpur	4
						Badurkhil	5
				Narayanhat	3	Kalyapukhia	6
						E. Kalyapukhia	7
				Dhurang	4	E. Kanchannagar	8
						W. Kanchannagar	9
		Hasnabad	7	Tarakhon	1	Tarakhon	1
				Hasnabad	2	Hasnabad	2
		Hathazari	8	Hathazari	1	Hathazari	1
				Sarta	2	Khiram	2
						Gopalghata	3
						Magkata	4
						Gamaritala	5
				Sobhanchari	3	Baramasid	6
						Sobhanchari	7
				Mondakini	4	Udolla	8
						Monaichari	9
						Lot udolia	10
						Hazirkhil	11
						Choto Kanchanpur	12

DIVISION	CODE	RANGE	CODE	BEAT	CODE	BLOCK	CODE
		Ichamati	9	Ischamati	1	Thandachari	1
				Nischintapur	2	Ghagra	2
						Nischintapur	3
		Dohazari	10	Lalutia	1	Lalutia	1
						Chiringhata	2
				Dhopachari	2	Mangala	3
						Dhopachari	4
				Sangu	3	Sangu	5
				Baltarani	4	Baltarani	6
		Rangunia	11	Kodala	1	Kodala	1
				Chiringa	2	Chiringa	2
						Sarapbhata	3
				Narischa	3	Tripura Sundari	4
						Narischa (P.F.)	5
				Pomora(P.F.)	4	Pomara (P.F.)	6
		Khurusia	12	Sukbilash	1	Sukbilash	1
				Dudpukuria	2	Dudpukaria	2
				Khurusia	3	Khurusia	3
				Kamaichari	4	Silchari	4
		Patiya	13	Bhandarjuri	1	Dumuria	1
				Kelishahar	2	Bhandarjuri	2
				Srimal	3	Silchari	3
						Srimal	4
				Barguni	4	Sonaichari	5
						Hashempur	6
						Elahabad(P.F.)	7
		Padua	14	Barduara	1	Mahalla	1
						Puranagar	2
				Hangar	2	Sarasia	3
				Tankawali	3	Charamba	4
						Tankawati	5
				Dalu	4	Narischa	6
						Farong	7
		Chunati	15	Harbang	1	Goyalmara	1
						Harbang	2
						Tetlakata	3
				Chunati	2	Chunati	4
				Baraltali	3	Baraltali	5
				Bara Hatia	4	Chhota Hatia	6
						Bara Hatia	7
				Satgar	5	Satgar	8
		Jaldi	16	Jaldi	1	Jaldi	1
						Balichari	2
				Chambal	2	Chambal	3
				Napura	3	Napura	4
				Puichari	4	Pulchari	5
		Barabakia	17	Toitang	1	Toitang	1
				Barabakia	2	Barabakia	2
				Paharchanda	3	Paharchanda	3
		Kalipur (P.F.)	18	Kalipur	1	Kalipur	1
				Chechuria	2	Chechuria	2
				Shadhanpur	3	Shadhanpur	3
				Pukuria	4	Pukuria	4

DIVISION	CODE	RANGE	CODE	BEAT	CODE	BLOCK	CODE
		Madarsha (P.F.)	19	Madarsha	1	Madarsha	1
				Churamoni	2	Churamoni	2
				Baramadarsha	3	Baromadarsha	3
		Town	20	Town(P.F.)	1	Purba pahartali	1
						Kuilshi	2
						Purba Nasirabad	3
						Muradpur	4
Cox's Bazar	26	Fashia-khali	1	Halbila	1	Halbila	1
				Kakra	2	Kakra	2
				Manikpur	3	Manikpur	3
				Bamu	4	Bamu	4
				Fashiakhali	5	Fashiakhali	5
						Rangbhang	6
				Dulahazara	6	Dulahazara	7
						Hargaza	8
		Fulchari	2	Khuntakhali	1	Khuntakhali	1
						Medhakachapia	2
				Fulchari	2	Fulchari	3
				Napitkhali	3	Napitkhali	4
		Idgaon	3	Bhomar laghona	1	Bhomar laghona	1
				Idgarh	2	Idgarh	2
						Tulatai	3
		Meher-ghona	4	Manchuakhali	1	Machuakhali	1
				Kalirchara	2	Kalirchara	2
				Joarianala	3	Joarianala	3
						Bengdepa	4
						Jumchari	5
		Bagkhali	5	Bagkhali	1	Bagkhali	1
						Manirjhil	2
				Ghilatali	2	Ghilatali	3
						Barabil	4
				Kachapia	3	Kachapia	5
						Jungchara	6
				Rajarkul	4	Rajarkul	7
						Ramkol	8
		P.M.Khali	6	P.M. Khali	1	P.M. Khali North(P.F.)	1
				Dighirghona	2	P.M. Khali South(P.F.)	2
				Tutuk Khali	3	Tutuk Khali(P.F.)	3
				Khuruskul	4	Jaturya(P.F.)	4
		Panerchara	7	Panerchara	1	Panerchara	1
						Mithachara	2
		Cox's Bazar	8	Chainda	1	Chainda	1
				Kalatali	2	Bhangamura	2
				Jhilanga	3	Jhilanga West(P.F.)	3
				Link Road	4	Jhilanga East(P.F.)	4
		Dhoapa-long	9	Dhoapalong	1	Dhoapalong	1
				Khuniapalong	2	Khuniapalong	2
						Himchari	3
				Dariadighi	1	Dariadighi	4
				Upper Rezu	2	Upper Rezu	5
				Paglarbil	3	Paglarbil(P..F.)	6
				Maracha	4	Marchapalong(P.F.)	7

DIVISION	CODE	RANGE	CODE	BEAT	CODE	BLOCK	CODE
		Inani	10	Jaliapalong	1	Jaliapalong	1
				Rajapalong	2	Rajapalong	2
				Inoni	3	Bara Inoni	3
				Chota inoni	4	Chota Inoni	4
				Swankhali	5	Ruppati	5
						Swankhali	6
		Ukhia	11	Ukhia	1	Uhalapalong	1
						Kutupalong	2
				Dochari	2	Dochari	3
				Ukhirarghat	3	Ukhiarghat	4
				Thainkhali	4	Thainkhali	5
						Battali	6
						Palongkhali	7
				Walapalong	5	Walapalong(P.F.)	8
				Holudiapalong	6	Holudiapalong(P.F.)	9
				Bhalukia	7	Ratnapalong(P.F.)	10
		Whykhe-ong	12	Whykheong	1	Whykheong	1
				Raikheong	2	Raikheong	2
				Monkhali	3	Monkhali	3
				Saplapur	4	Saplapur	4
		Teknaf	13	Madhya Hnila	1	Madhya Hnila	1
				Hnila	2	Dakhin Hnila	2
				Rajarchara	3	Rajarchara	3
				Silkhali	4	Silkhali	4
				Mochoni	5	Ledha	5
						Dumdumia North	6
				Mathabhanga	6	Mathabhanga	7
				Teknaf	7	Dumdumia South	8
						Teknaf	9

APPENDIX 6

Tree Volume Equations

Tree Volume Equations Used in FDPP

Hereunder are the tree volume equations used in the Field Data Processing Program. These include the new equations for Akashmoni (*Acacia auriculiformis*) based on 219 observations with DBH data range from 3.9 to 32.8 cm, Mangium (*Acacia mangium*) based on 272 observations with DBH data range from 4.9 to 45.3 cm, and *Eucalyptus camaldulensis* with 550 observations with DBH range from 2.7 to 3.6cm. These new studies were done in collaboration with BFRI Researchers. The new equations were derived using a system of four simple (combined variable model) equations in each case. The equations provide consistent and very accurate tree volumes for the whole range of diameter classes for each of the three species.

The tree volume equations below also include the corrected equations for plantations of Dhakijam (*Syzygium grande*), Gamar (*Gmelina arborea*), Chapalish (*Artocarpus chapasha*) and Teligarjan (*Dipterocarpus turbinatus*) as well as Civit (*Swintonia floribunda*) and Bahera (*Terminalia belerica*) in natural stands.

Species		Species Code	Volume Equations and Conversion Factors
1.	Akashmoni (*Acacia auriculiformis*); Plantation	106	$V_{tob} = 0.000043645*(D-3)^2*H$ $V_{tub} = 0.85342*V_{tob}$ $V_{5ub} = 0.99416*V_{tub}$ $V_{10ub} = 0.89330*V_{5ub}$
2.	Mangium (*A. mangium*); Plantation	145	$V_{tob} = 0.000038834*(D-3)^2*H$ $V_{tub} = 0.85018*V_{tob}$ $V_{5ub} = 0.99945*V_{tub}$ $V_{10ub} = 0.99970*V_{5ub}$
3.	Minjiri (*Cassia siamea*); Plantation	146	$\ln(V_{3ub}) = -10.1767+2.0642\ \ln D+0.8291\ \ln H$
4.	Pine (*Pinus carribea*); Plantation	152	$\ln(V_{3ub}) = -9.7505+1.9354\ \ln D+0.8517\ \ln H$
5.	Gamar (*Gmelina arborea*); Plantation	126	$\ln V_{tob} = -8.46871+1.63502*\ln D+0.78487*\ln H$ $F_{tub} = 0.74986+0.0031724*D-0.000024319*D^2$ $F_{5ub} = 1/(1.00001+0.93292*e^(-0.1894*D))$ $F_{10ub} = 0.99337-2.77683*e^(-0.14116*D)$ $F_{20ub} = 0.91606*(1-e^(-0.20480*D))^186.5$
6.	Dhakijam (*Syzygium grande*); Plantation	122	$V_{tob} = 0.00018987+0.000029903*D^2+0.00024887*D*H+$ $0.000024466*D^2*H$ $F_{tub} = D/(-0.23531+1.28175*D-0.0028786*D^2)$ $F_{5ub} = 0.99798*(1-e^(-0.30202*D))^1.71151$ $F_{10ub} = 0.98404*(1-e^(-0.24184*D))^16.65$ $F_{20ub} = 0.94094*(1-e^(-0.17372*D))^66.244$

7.	TeliGarjan (*Dipterocarpus turbinatus*); Plantation	108	V_{tob} = 0.0025211+0.00010003*D^2+0.00014779*D*H+ 0.000024065*D^2*H F_{tub} = 0.75496+0.0030279*D-0.000019510*D^2) F_{5ub} = 0.99938-167.707*D^(-3.4686) F_{10ub} = 0.98176*(1-e^(-0.35582*D))^69.509 F_{20ub} = 0.92806*(1-e^(-0.27813*D))^1156.116 Note: For DBH>75 cm, use Factor for DBH=75 cm in all cases
8	Chapalish (*Artocarpus chapasha*); Plantation	117	ln(V_{tob}) = -8.94495+1.82851*lnD+0.73538*lnH F_{tub} = 0.76539+0.0035766*D-0.000032305*D^2; if D>50, F_{tub} = 0.864 F_{5ub} = 0.99939-(72.8549*D)^(-3.14844) F_{10ub} = 0.99400-(1556.2135*D)^(-3.23157) F_{20ub} = 0.92197*(1-e^(-0.26753*D))^604.5896
9.	Civit (*Swintonia floribunda*); Plantation	102	IF D^2H<1200, V_{20ub} = 0.01059+0.00002887D^2H IF $D^2H \geq$ 1200, V_{20ub} = 0.09790+0.00002499D^2H
10.	Teak (*Tectona grandis*) Plantation	159	lnV_{Tob} = -9.4808+1.6212lnD+1.1648lnH V_{5ub} = 0.1217+0.2257D^2H V_{10ub} = 0.0000465$D^{1.58}H^{1.603}$ (??) V_{20ub} = 0.0645+0.2322D^2H
11.	*Eucalyptus camaldulensis*; Plantation	125	V_{tob} = 0.000042692*(D-3)^2*H V_{tub} = 0.83847*V_{tob} V_{5ub} = 0.95916*V_{tub} V_{10ub} = 0.89239*V_{5ub}
12.	Molluccana *(Paraserianthes falcataria);* Plantation	147	lnV_{tob} = -8.9942+1.4963lnD+1.1461lnH F_{tub}= 0.9130 - 0.6636$e^{-0.3401D}$ F_{15ub} = 0.9352 $(1-e^{-0.2742D})^{244.88}$ F_{20ub} = 0.9329 $(1-e^{-0.2313D})^{502.64}$
13.	Keora (*Sonneratia apetala*); Plantation	221	<u>Noakhali/Bhola/Patuakhali</u> V_{7ub} = 0.0041+0.00002463D^2H <u>Chittagong C/A</u> V_{7ub} = -0.00088+0.0000297D^2H
14.	Baen (*Avicenia officinalis*); Plantation	203	V_{7ub} = -0.0012+0.00002580D^2H
<u>Natural Forests</u>: Total volume, outside bark, excluding branches			
15.	Pitraj (*Aphanamixis polystachya*)	154	lnV = -8.9863+1.9328lnD+0.6992lnH F_{vub} = 0.655+0.007937D-0.00005847D^2 if D≤68cm othewise F_{vub}=0.924 F_{v10} = 1.0001-24.8498$D^{-2.4467}$ F_{v20} = 0.9945-1.9156$e^{-0.09406D}$
16.	Chapalish (*Artocarpus chapasha*)	117	lnV= -8.6639+2.1320lnD+0.2946lnH (??) F_{vub} = 0.9849-3.8652$D^{-0.9334}$ F_{v10} = 1.0 F_{v20} = 1/(1.000084+0.6980$e^{-0.05446D}$)
17.	Simul (*Bombax ceiba*)	162	lnV = -9.1013+1.9419lnD+0.5276lnH (?) F_{vub} = 0.9440-7.1054$D^{-1.1609}$ F_{v10} = 1.0 F_{v20} = 0.9984-89452.6$D^{-3.865}$

18.	Garjan (NF) (*Dipterocarpus spp.*)	108	$\ln V = -9.1872+1.6485\ln D+1.1306\ln H$ $F_{vub} = 0.8994-0.0004973+0.000006729D^2$ $F_{v10} = 1/(0.9997+0.1012e^{-0.06447D})$ $F_{v20} = 1.0002-1609.2425D^{-2.2472}$
19.	Dhali Garjan (*Dipterocarpus gracilis*)	168	$\ln V = -9.4406+1.8660\ln D+0.9648\ln H$ $F_{vub} = 0.8493+0.001308D-0.0000007031D^2$ if D≤92cm otherwise, $F_{vub} = 0.910$ $F_{v10} = 1.000-0.03310e^{-0.05676D}$ $F_{v20} = 0.9975-0.1477e^{-0.06433D}$
20.	Baita Garjan (*Dipterocarpus costatus*)	169	$\ln V=-9.1693+1.7651\ln D+1.0011\ln H$ $F_{vub} = 0.9115-0.2543e^{-0.03883D}$ $F_{v10} = 1.0$ $F_{v20} = 0.9978-1.0016e^{-0.07375D}$
21.	Teli Garjan (*Dipterocarpus turbinatus*)	170	$\ln V= -9.1872+1.6485\ln D+1.1306\ln H$ $F_{vub} = 0.8994-0.0004973+0.000006729D^2$ $F_{v10} = 1/(0.9997+0.1012e^{-0.06447D})$ $F_{v20} = 1.0002-1609.2425D^{-2.2472}$
22.	Banderhola (*Duabanga grandiflora*)	109	$V = -0.5127+0.0004129D^2+0.001298H+0.0000247D^2H$ $F_{vub} = 0.8116+0.001650D-0.0000004651D^2$ if D≤178cm, otherwise $F_{vub} = 0.958$ $F_{v10} = 1.0$ $F_{v20} = 0.9986+0.9808e^{-0.07870D}$
23.	Uriam (*Mangifera sylvatica*)	167	$\ln V=-8.9048+2.0808\ln D+0.6926\ln H$ $F_{vub}=0.9556-16.5862D^{-1.4465}$ $F_{v10}=1.0008-0.01859e^{-0.03721D}$ $F_{v20} = 0.9960-1.9569e^{-0.09610D}$
24.	Bonak (*Schima wallichii*)	114	$V=0.05978-0.00003151D^2+0.01648H+0.00002781D^2H$ $F_{vub}=1/(1.1935+0.3931e^{-0.04512D})$ $F_{v10} = 1.0005-0.02896e^{-0.04055D}$ $F_{v20}= 1.0050-0.4304e^{-0.03969D}$
25.	Civit (*Swintonia floribunda*)	102	$\ln V=-8.8621+1.8148\ln D+0.8280\ln H$ $F_{vub}=0.8245+0.002289D-0.00001045D^2$, if D≤109 otherwise $F_{vub}=0.958$ $F_{v10}=0.9997-(2634.8723D)^{-0.3637}$ $F_{v20} = 1.004114-216.8436D^{-2.2260}$
26.	Dhakijam (*Syzygium grande*)	122	$V=0.08566+0.0002378D^2+0.01194H+0.00002365D^2H$ $F_{vub}=1/(1.0740+0.2996e^{-0.03586D})$ $F_{v10}= 1.0$ $F_{v20}=1/(1.003997+1.5662e^{-0.08216D})$
27.	Bahera (*Terminalia belerica*)	107	$\ln V=-8.3245+1.7826\ln D+0.6257\ln H$ $F_{vub} = 1.0$ $F_{v10} = 1.0$ $F_{v20}=0.9998-0.5266e^{-0.05224D}$
28.	Chundul (*Tetrameles nudiflora*)	121	$\ln V=-8.4925+1.8522\ln D+0.6879\ln H$ $F_{vub}=0.8316+0.002165D-0.00001211D^2$, if D≤89, otherwise, $F_{vub}=0.928$ $F_{v10}=1.0$ $F_{v20}=1/(0.9986+0.3712e^{-0.04786D})$
29.	Mixed species	199	$\ln V=-8.3367+1.5932\ln D+0.9400\ln H$ $F_{vub}=0.8401+0.002192D-0.00001404D^2$, if D≤80, otherwise, $F_{vub}=0.926$ $F_{v10} = 0.9899+0.0001877D-0.00000008710D^2$, if D≤110, otherwise, $F_{vub}=1.0$ $F_{v20} = 0.8438+0.003104D-0.00001553D^2$, if D≤100, otherwise, $F_{vub}=0.999$

APPENDIX 7

Detailed Stand and Stock Tables (per Hectare Estimates)

Stand and Stock Tables by Species Group, Stratum and Forest Division :
NT (No. of Trees/ha), BA (Basal Area in sqm/ha), Vol(Volume in cu m/ha) .

Division : Cox's Bazar (26) Date: 02/04/1998

Species Group : 1. Special class 2. Class A 3. Class B 4. Class C 5. Class D

Natural forest : Stratum 10 (HF/GF)

No. of plot clusters : 215

Species Group	Trees by Diameter Class											
	20-30			30-40			40-50			50-60		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. class	0.94	0.05	0.29	0.73	0.07	0.44	0.29	0.05	0.33	0.03	0.01	0.05
Class A	7.98	0.39	2.93	7.24	0.68	5.14	4.99	0.77	6.33	2.92	0.67	6.14
Class B	5.88	0.29	2.26	5.65	0.53	4.09	3.44	0.52	4.44	2.13	0.48	4.33
Class C	0.38	0.02	0.16	0.31	0.03	0.27	0.29	0.04	0.32	0.12	0.03	0.17
Class D	22.44	1.05	7.62	11.68	1.07	7.94	5.39	0.83	6.52	2.03	0.46	4.04
TOTAL	37.62	1.80	13.25	25.60	2.38	17.87	14.41	2.21	17.95	7.24	1.64	14.74

Species Group	Trees by Diameter Class												
	60-70			70-80			80+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. class	-	-	-	-	-	-	-	-	-	1.99	0.17	1.11	29.6
Class A	1.87	0.60	6.40	1.02	0.46	4.67	0.92	0.59	5.96	26.94	4.15	37.57	10.1
Class B	0.61	0.19	1.98	0.31	0.14	1.50	0.35	0.26	2.30	18.38	2.40	20.91	8.0
Class C	0.07	0.02	0.13	0.03	0.01	0.11	-	-	-	1.21	0.16	1.16	30.7
Class D	0.97	0.31	2.41	0.56	0.25	1.77	0.33	0.23	1.97	43.41	4.19	32.27	6.1
TOTAL	3.52	1.13	10.93	1.93	0.85	8.05	1.60	1.07	10.23	91.93	11.08	93.01	5.6

NOTE : NT - No. of trees
Vol - Volume in cu m/ha
Sp. Class - Special class
BA - Basal area in sqm/ha
S.E. - Sampling Error
HF - Large crown high forest, >50% crown closure
LF - Small crown high forest, >50% crown closure
ST - Scattered trees, about 20% crown closure
B/BO/OB - Bamboo (>80% stocking)/Bamboo (<80% stocking) /Bamboo (dominant) with other species

Natural forest : Stratum 20 (LF)

No. of plot clusters : 249

Species Group	Trees by Diameter Class											
	20-30			30-40			40-50			50-60		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. class	0.47	0.03	0.16	0.15	0.01	0.10	0.05	0.01	0.08	0.03	0.01	0.04
Class A	8.40	0.41	3.18	6.01	0.56	4.45	3.28	0.49	4.29	2.01	0.46	4.47
Class B	5.55	0.27	2.09	5.54	0.51	4.37	3.09	0.47	4.10	1.27	0.28	2.49
Class C	0.28	0.01	0.08	0.23	0.02	0.16	0.14	0.02	0.14	0.12	0.03	0.15
Class D	23.69	1.11	8.05	11.50	1.04	7.86	4.18	0.62	4.86	1.51	0.34	2.67
TOTAL	38.38	1.83	13.56	23.43	2.15	16.94	10.74	1.61	13.46	4.94	1.12	9.82

Species Group	Trees by Diameter Class												
	60-70			70-80			80+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. class	-	-	-	-	-	-	0.03	0.02	0.25	0.73	0.08	0.62	35.3
Class A	1.14	0.36	3.64	0.45	0.19	1.99	0.45	0.30	3.29	21.73	2.78	25.31	10.4
Class B	0.52	0.17	1.58	0.34	0.14	1.73	0.08	0.05	0.57	16.39	1.90	16.94	8.5
Class C	0.05	0.02	0.19	-	-	-	-	-	-	0.81	0.10	0.72	26.3
Class D	0.69	0.21	1.59	0.26	0.11	0.85	0.16	0.10	0.73	41.98	3.54	26.61	5.6
TOTAL	2.40	0.76	7.01	1.05	0.44	4.58	0.71	0.47	4.83	81.64	8.38	70.20	5.5

Natural forest : Stratum 30 (ST/TB)

No. of plot clusters : 80

Species Group	Trees by Diameter Class											
	20-30			30-40			40-50			50-60		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. class	0.68	0.03	0.19	0.13	0.01	0.03	-	-	-	-	-	-
Class A	2.30	0.12	0.71	1.56	0.16	1.07	0.77	0.13	0.80	0.35	0.08	0.64
Class B	1.89	0.10	0.62	2.56	0.25	1.96	1.87	0.28	2.11	0.87	0.19	1.58
Class C	-	-	-	-	-	-	-	-	-	0.05	0.01	0.08
Class D	10.34	0.51	3.37	4.01	0.36	1.94	2.09	0.32	1.91	0.50	0.11	0.55
TOTAL	15.22	0.76	4.88	8.27	0.78	4.99	4.73	0.72	4.82	1.78	0.39	2.84

Species Group	Trees by Diameter Class												
	60-70			70-80			80+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. class	-	-	-	-	-	-	0.03	0.02	0.01	0.85	0.07	0.22	131.9
Class A	0.24	0.08	0.76	0.47	0.20	1.43	0.42	0.25	2.31	6.10	1.01	7.71	28.6
Class B	0.59	0.18	1.44	0.11	0.05	0.13	-	-	-	7.89	1.05	7.84	19.6
Class C	-	-	-	-	-	-	-	-	-	0.05	0.01	0.08	122.2
Class D	0.71	0.23	0.69	0.21	0.09	0.23	0.25	0.14	0.62	18.12	1.77	9.31	12.4
TOTAL	1.54	0.50	2.89	0.79	0.34	1.79	0.70	0.42	2.94	33.02	3.91	25.16	12.8

Natural Forest : All strata

Total No. of plot clusters : 544

Trees by Diameter Class

Species Group	20-30			30-40			40-50			50-60		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. class	0.69	0.04	0.22	0.39	0.04	0.23	0.15	0.02	0.17	0.03	0.01	0.04
Class A	7.51	0.37	2.79	6.00	0.56	4.34	3.69	0.56	4.73	2.19	0.50	4.71
Class B	5.26	0.26	1.99	5.24	0.49	3.98	3.09	0.47	4.01	1.58	0.35	3.14
Class C	0.29	0.01	0.10	0.24	0.02	0.18	0.18	0.03	0.20	0.11	0.02	0.15
Class D	21.62	1.02	7.33	10.70	0.97	7.21	4.44	0.67	5.20	1.61	0.37	2.99
TOTAL	35.37	1.70	12.42	22.56	2.08	15.94	11.55	1.75	14.31	5.52	1.25	11.03

Trees by Diameter Class

Species Group	60-70			70-80			80+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. class	-	-	-	-	-	-	0.02	0.01	0.12	1.26	0.11	0.77	22.4
Class A	1.34	0.43	4.44	0.69	0.30	3.03	0.64	0.41	4.27	22.06	3.14	28.32	7.1
Class B	0.57	0.18	1.73	0.30	0.13	1.45	0.18	0.13	1.22	16.22	2.01	17.51	5.6
Class C	0.05	0.02	0.14	0.01	0.01	0.05	-	-	-	0.89	0.11	0.83	20.8
Class D	0.81	0.25	1.83	0.38	0.16	1.15	0.24	0.16	1.23	39.80	3.60	26.93	4.0
TOTAL	2.76	0.88	8.14	1.38	0.60	5.68	1.08	0.71	6.83	80.23	8.97	74.36	3.8

Simple random sample mean : 74.20
Variance of mean : 2.89
Simple random sample sampling error : 3.89

Stand and Stock Tables by Species Group, Stratum and Forest Division :
NT (No. of Trees/ha), BA (Basal Area in sqm/ha), Vol(Volume in cu m/ha) .

Division : Cox's Bazar (26) Date: 02/08/1998

Species Group : 1. Special Class 2. Class A 3. Class B 4. Class C 5. Class D

Plantation forest : Stratum 50 (T/OT, up to 1959, all cc)

No. of plot clusters : 39

Trees by Diameter Class

Species Group	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. class	14.02	0.33	2.46	17.88	0.81	5.07	8.72	0.83	4.31	2.99	0.44	2.36
Class A	3.84	0.09	0.09	9.33	0.44	1.05	6.04	0.57	3.35	2.62	0.39	2.81
Class B	3.59	0.09	0.56	11.11	0.51	3.03	6.35	0.60	5.62	1.89	0.28	3.79
Class C	0.10	0.00	0.00	0.76	0.03	0.01	-	-	-	-	-	-
Class D	6.09	0.14	0.07	13.80	0.67	2.63	4.57	0.41	2.00	1.59	0.22	1.96
TOTAL	27.64	0.66	3.18	52.88	2.45	11.79	25.67	2.40	15.28	9.08	1.32	10.91

Trees by Diameter Class

Species Group	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. class	1.06	0.27	1.60	0.66	0.20	1.44	-	-	-	45.32	2.87	17.23	22.8
Class A	0.59	0.13	0.46	0.10	0.03	0.27	0.50	0.45	2.48	23.01	2.10	10.52	20.9
Class B	0.32	0.07	0.18	0.79	0.22	4.80	-	-	-	24.05	1.77	17.97	24.6
Class C	-	-	-	-	-	-	-	-	-	0.86	0.03	0.02	43.5
Class D	0.22	0.05	0.02	0.20	0.07	0.03	-	-	-	26.46	1.54	6.71	19.7
TOTAL	2.19	0.52	2.26	1.75	0.52	6.53	0.50	0.45	2.48	119.7	8.31	52.44	12.7

NOTE : NT - No. of trees
Vol - Volume in cu m/ha
Sp. Class - Special Class
BA - Basal area in sqm/ha
S.E. - Sampling Error
T - Teak
OT - Teak with other species
LRS - Long Rotation Species
Mo - Moluccana
Eu - Eucalyptus spp.
Am - Acacia mangium
Ac - Acacia auriculiformis
Kd - Anthocephalus cadamba (chinensis)

Plantation forest : Stratum 60 (T/OT, 1960-1979, all cc)

No. of plot clusters : 135

Species Group	Trees by Diameter Class											
	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. class	13.06	0.31	2.43	16.78	0.76	5.10	3.52	0.31	2.09	0.66	0.10	0.69
Class A	7.91	0.18	0.64	10.06	0.44	1.54	3.86	0.34	1.94	1.55	0.24	1.97
Class B	7.25	0.17	0.85	15.05	0.67	3.50	2.85	0.24	1.30	0.75	0.12	1.06
Class C	1.13	0.02	0.08	0.35	0.01	0.08	0.09	0.01	0.01	-	-	-
Class D	3.19	0.07	0.05	6.65	0.31	1.53	2.82	0.26	1.12	1.18	0.17	0.91
TOTAL	32.54	0.76	4.04	48.88	2.19	11.75	13.14	1.16	6.45	4.14	0.63	4.64

Species Group	Trees by Diameter Class												
	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. class	0.06	0.01	0.08	-	-	-	-	-	-	34.08	1.49	10.38	13.5
Class A	0.47	0.10	0.80	0.25	0.08	0.67	0.38	0.19	1.38	24.49	1.58	8.94	14.4
Class B	0.20	0.05	0.18	0.19	0.07	0.77	0.20	0.14	1.48	26.50	1.45	9.14	13.3
Class C	0.05	0.01	0.00	0.13	0.04	0.02	-	-	-	1.74	0.10	0.19	81.5
Class D	0.58	0.14	1.40	0.28	0.09	0.59	0.04	0.02	0.01	14.73	1.06	5.61	19.7
TOTAL	1.37	0.32	2.47	0.85	0.27	2.05	0.63	0.35	2.88	101.6	5.67	34.27	10.2

Plantation forest : Stratum 70 (T/OT, 1980 and up, all cc)

No. of plot clusters : 47

Species Group	Trees by Diameter Class											
	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. class	10.91	0.25	1.94	6.44	0.26	1.72	0.36	0.04	0.21	-	-	-
Class A	6.14	0.15	0.50	8.13	0.36	1.04	1.32	0.11	0.17	0.86	0.12	0.05
Class B	1.53	0.04	0.09	3.22	0.14	0.29	0.11	0.01	0.00	-	-	-
Class C	5.91	0.14	0.35	0.32	0.01	0.03	-	-	-	-	-	-
Class D	3.51	0.08	0.04	2.83	0.11	0.25	0.54	0.04	0.02	0.43	0.05	0.02
TOTAL	27.99	0.66	2.93	20.94	0.88	3.33	2.32	0.20	0.41	1.29	0.18	0.08

Species Group	Trees by Diameter Class												
	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. class	-	-	-	-	-	-	-	-	-	17.71	0.55	3.88	44.7
Class A	0.13	0.03	0.17	-	-	-	0.18	0.12	1.00	16.75	0.89	2.94	46.7
Class B	-	-	-	-	-	-	-	-	-	4.86	0.18	0.39	47.7
Class C	-	-	-	-	-	-	-	-	-	6.23	0.15	0.38	104.3
Class D	0.54	0.12	0.05	-	-	-	-	-	-	7.84	0.41	0.39	55.1
TOTAL	0.67	0.15	0.23	-	-	-	0.18	0.12	1.00	53.38	2.18	7.97	34.8

Plantation forest : Stratum 90 (Other LRS, upto 1979, all cc)

No. of plot clusters : 83

Species Group	Trees by Diameter Class											
	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. class	11.29	0.25	1.84	6.51	0.28	1.72	0.25	0.02	0.15	0.07	0.01	0.05
Class A	6.47	0.15	0.50	6.45	0.29	1.05	1.05	0.09	0.41	0.21	0.03	0.20
Class B	7.17	0.16	0.73	4.10	0.17	0.67	0.58	0.06	0.23	0.21	0.03	0.11
Class C	2.02	0.04	0.15	0.28	0.01	0.05	-	-	-	-	-	-
Class D	5.44	0.12	0.07	3.82	0.16	0.08	0.82	0.03	0.03	0.35	0.05	0.02
TOTAL	32.39	0.72	3.29	21.17	0.91	3.57	2.70	0.24	0.81	0.84	0.13	0.39

Species Group	Trees by Diameter Class												
	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. class	0.07	0.02	0.12	-	-	-	-	-	-	18.19	0.57	3.88	22.6
Class A	0.07	0.01	0.06	-	-	-	-	-	-	14.26	0.57	2.21	23.6
Class B	-	-	-	-	-	-	-	-	-	12.06	0.42	1.73	22.5
Class C	-	-	-	-	-	-	-	-	-	2.30	0.06	0.21	50.0
Class D	0.14	0.04	0.02	0.09	0.03	0.01	-	-	-	10.66	0.48	0.23	19.7
TOTAL	0.28	0.07	0.19	0.09	0.03	0.01	-	-	-	57.47	2.10	8.26	15.1

Plantation forest : Stratum 100 (Other LRS, 1980 and up, all cc)

No. of plot clusters : 64

Species Group	Trees by Diameter Class											
	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. class	1.00	0.02	0.16	0.70	0.03	0.20	0.18	0.01	0.06	0.10	0.01	0.05
Class A	3.97	0.09	0.38	3.01	0.14	0.69	0.56	0.05	0.30	0.10	0.01	0.07
Class B	3.99	0.09	0.38	2.98	0.14	0.95	2.87	0.25	2.36	0.53	0.08	0.72
Class C	0.40	0.01	0.02	0.16	0.01	0.02	-	-	-	-	-	-
Class D	3.13	0.07	0.06	5.14	0.25	1.19	1.59	0.14	0.86	0.08	0.01	0.01
TOTAL	12.48	0.28	0.99	11.98	0.57	3.05	5.20	0.45	3.59	0.81	0.12	0.85

Species Group	Trees by Diameter Class												
	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. class	0.10	0.02	0.16	-	-	-	-	-	-	2.07	0.10	0.63	58.1
Class A	0.08	0.02	0.01	-	-	-	0.20	0.09	0.39	7.91	0.40	1.83	25.2
Class B	-	-	-	-	-	-	-	-	-	10.37	0.57	4.40	16.1
Class C	-	-	-	-	-	-	-	-	-	0.56	0.01	0.04	101.8
Class D	-	-	-	-	-	-	0.08	0.04	0.02	10.01	0.50	2.14	18.8
TOTAL	0.18	0.04	0.17	-	-	-	0.28	0.13	0.40	30.92	1.59	9.04	14.4

Plantation forest : Stratum 120 (Eu/Am/Ac/Others, all cc)

No. of plot clusters : 76

Species Group	Trees by Diameter Class											
	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. class	0.42	0.01	0.07	0.50	0.02	0.13	0.07	0.00	0.03	-	-	-
Class A	1.10	0.02	0.03	1.53	0.07	0.11	0.54	0.05	0.21	0.26	0.04	0.36
Class B	1.94	0.05	0.20	2.04	0.08	0.36	0.09	0.01	0.05	-	-	-
Class C	8.91	0.19	0.60	1.04	0.04	0.16	-	-	-	-	-	-
Class D	0.55	0.01	0.01	1.52	0.06	0.34	0.21	0.02	0.11	-	-	-
TOTAL	12.93	0.28	0.89	6.63	0.27	1.10	0.90	0.08	0.38	0.26	0.04	0.36

Species Group	Trees by Diameter Class												
	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. class	-	-	-	-	-	-	-	-	-	0.99	0.04	0.22	61.2
Class A	0.09	0.02	0.15	-	-	-	-	-	-	3.52	0.20	0.85	70.4
Class B	0.09	0.02	0.01	-	-	-	-	-	-	4.15	0.15	0.61	58.7
Class C	-	-	-	0.09	0.02	0.01	-	-	-	10.04	0.25	0.77	29.9
Class D	0.12	0.02	0.01	-	-	-	0.09	0.05	0.02	2.49	0.17	0.49	89.8
TOTAL	0.29	0.07	0.17	0.09	0.02	0.01	0.09	0.05	0.02	21.18	0.81	2.93	41.9

Plantation forest : Stratum 140 (Other plantations)

No. of plot clusters : 2

Species Group	Trees by Diameter Class											
	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Class D	-	-	-	1.32	0.09	0.66	1.32	0.09	0.74	-	-	-
TOTAL	-	-	-	1.32	0.09	0.66	1.32	0.09	0.74	-	-	-

Species Group	Trees by Diameter Class												
	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Class D	1.32	0.35	2.62	-	-	-	-	-	-	3.95	0.53	4.02	250.0
TOTAL	1.32	0.35	2.62	-	-	-	-	-	-	3.95	0.53	4.02	250.0

Plantation forest : Stratum 150 (Others (e.g. EN,FP))

No. of plot clusters : 168

Species Group	Trees by Diameter Class											
	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. class	3.23	0.07	0.55	3.35	0.15	0.99	0.35	0.03	0.19	0.11	0.02	0.07
Class A	1.94	0.04	0.22	2.31	0.11	0.78	1.77	0.18	1.57	1.10	0.17	1.21
Class B	1.55	0.04	0.15	1.78	0.09	0.62	1.57	0.14	1.17	1.13	0.18	1.99
Class C	0.67	0.02	0.04	0.53	0.02	0.15	0.09	0.01	0.08	-	-	-
Class D	2.20	0.05	0.33	4.89	0.24	1.64	3.87	0.38	2.58	1.45	0.23	1.40
TOTAL	9.58	0.22	1.28	12.87	0.61	4.17	7.65	0.74	5.58	3.78	0.59	4.67

Species Group	Trees by Diameter Class												
	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. class	-	-	-	-	-	-	-	-	-	7.03	0.27	1.80	38.3
Class A	0.95	0.22	2.37	0.96	0.32	3.15	1.67	0.83	8.69	10.69	1.87	17.99	11.9
Class B	0.62	0.14	1.17	0.52	0.17	1.45	0.28	0.15	2.35	7.46	0.91	8.88	14.0
Class C	-	-	-	-	-	-	-	-	-	1.29	0.05	0.27	27.0
Class D	0.89	0.20	1.59	0.45	0.14	0.66	0.56	0.28	1.93	14.32	1.51	10.13	9.9
TOTAL	2.47	0.57	5.12	1.93	0.62	5.25	2.51	1.26	12.98	40.79	4.60	39.06	8.2

Plantation Forest : All strata (Except 140/150) Total No. of plot clusters : 444

Trees by Diameter Class

Species Group	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. class	8.87	0.20	1.57	8.85	0.39	2.57	2.02	0.18	1.10	0.52	0.08	0.45
Class A	5.37	0.12	0.40	6.70	0.30	0.99	2.24	0.20	1.07	0.90	0.14	0.97
Class B	4.94	0.11	0.54	7.39	0.32	1.67	1.99	0.18	1.31	0.52	0.08	0.81
Class C	2.90	0.06	0.19	0.46	0.02	0.07	0.03	0.00	0.00	-	-	-
Class D	3.53	0.08	0.05	5.33	0.24	0.97	1.75	0.16	0.67	0.63	0.09	0.47
TOTAL	25.62	0.59	2.76	28.74	1.28	6.26	8.02	0.72	4.15	2.57	0.38	2.69

Trees by Diameter Class

Species Group	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. class	0.15	0.04	0.23	0.07	0.02	0.14	-	-	-	20.47	0.91	6.06	10.3
Class A	0.25	0.06	0.33	0.08	0.03	0.22	0.21	0.13	0.81	15.76	0.97	4.80	10.1
Class B	0.11	0.02	0.07	0.14	0.04	0.70	0.06	0.04	0.43	15.15	0.80	5.54	10.5
Class C	0.01	0.00	0.00	0.05	0.02	0.01	-	-	-	3.45	0.10	0.27	28.1
Class D	0.30	0.07	0.42	0.12	0.04	0.18	0.04	0.02	0.01	11.69	0.70	2.75	13.0
TOTAL	0.82	0.19	1.06	0.45	0.14	1.25	0.30	0.18	1.25	66.52	3.48	19.42	6.7

Simple random sample mean : 20.42
Variance of mean : 1.41
Simple random sample sampling error : 6.91

Stand Tables by Species, Stratum and Division for Seedlings, Saplings and Poles
(No. of stems/ha) .

Division : Cox's Bazar (26) Date : 02/04/1998

Species Group : 1. Special Class 2. Class A 3. Class B 4. Class C 5. Class D

Natural Forest : Stratum 10 (HF/GF) No. of plot Clusters : 215

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					5-10	10-15	15-20	Total	
	No./ha	S.E%	No./ha	S.E%	No./ha	No./ha	No./ha	No./ha	S.E%
Sp. class	46.56	69.1	18.49	46.7	4.35	3.73	1.16	9.24	60.4
Class A	809.60	15.1	144.69	14.8	13.85	14.22	8.67	36.74	13.0
Class B	404.61	19.0	119.15	19.3	18.21	12.83	11.81	42.84	22.8
Class C	32.13	50.7	12.57	27.7	1.28	0.83	1.04	3.15	21.2
Class D	3119.29	11.7	933.14	8.6	125.76	85.56	34.38	245.71	5.8
TOTAL	4412.18	10.4	1228.04	8.5	163.44	117.16	57.06	337.67	6.0

NOTE: S.E.% -> Sampling error

Natural Forest : Stratum 20 (LF) No. of plot Clusters : 249

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					5-10	10-15	15-20	Total	
	No./ha	S.E%	No./ha	S.E%	No./ha	No./ha	No./ha	No./ha	S.E%
Sp. class	41.47	50.8	8.27	45.4	5.45	1.78	0.38	7.61	60.2
Class A	896.47	13.1	142.85	13.2	19.41	18.09	8.02	45.52	11.8
Class B	431.48	13.7	122.53	12.1	15.42	15.44	8.97	39.83	20.2
Class C	44.08	122.3	16.95	63.9	2.89	1.75	0.16	4.80	90.8
Class D	4002.08	8.2	1353.93	7.3	130.38	85.94	34.46	250.78	5.2
TOTAL	5415.57	7.5	1644.53	6.9	173.55	123.01	51.98	348.54	5.6

Natural Forest : Stratum 30 (ST/TB) No. of plot Clusters : 80

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					5-10	10-15	15-20	Total	
	No./ha	S.E%	No./ha	S.E%	No./ha	No./ha	No./ha	No./ha	S.E%
Sp. class	116.45	44.4	53.22	62.7	5.94	1.62	-	7.57	68.4
Class A	1370.80	29.0	173.38	27.3	45.73	19.48	4.81	70.02	23.3
Class B	272.97	31.0	81.45	29.8	24.17	15.01	7.41	46.58	20.7
Class C	24.37	57.4	15.44	100.4	1.00	2.12	1.04	4.16	93.9
Class D	2648.77	21.3	702.68	19.5	110.72	50.20	16.24	177.16	14.1
TOTAL	4433.36	17.3	1026.16	15.6	187.55	88.43	29.49	305.48	15.1

Natural Forest : All strata Total No. of Plot clusters : 544

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					5-10	10-15	15-20	Total	
	No./ha	S.E%	No./ha	S.E%	No./ha	No./ha	No./ha	No./ha	S.E%
Sp. class	52.28	33.7	17.70	31.4	5.05	2.57	0.66	8.27	38.8
Class A	915.81	9.6	147.15	9.3	20.18	16.66	7.91	44.75	8.3
Class B	402.00	10.8	116.36	10.4	17.58	14.31	9.96	41.85	13.5
Class C	36.87	71.5	14.97	37.4	2.01	1.41	0.62	4.04	52.5
Class D	3481.32	6.5	1104.99	5.4	126.19	81.63	32.31	240.14	3.8
TOTAL	4888.27	5.8	1401.18	5.1	171.02	116.58	51.46	339.06	4.0

Simple random sample sampling errors of Seedlings, Saplings and Poles are :
5.8, 5.0 and 4.0

Stand Tables by Species, Stratum and Division for Seedlings, Saplings and Poles
(No. of stems/ha) .

Division : Cox's Bazar (26) Date : 02/08/1998

Species Group : 1. Special Class 2. Class A 3. Class B 4. Class C 5. Class D

Plantation forest : Stratum 50 (T/OT, up to 1959, all cc) No. of plot Clusters: 39

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)			
					2.5-5	5-10	10-15	Total
	No./ha	S.E%	No./ha	S.E%	No./ha	No./ha	No./ha	No./ha S.E%
Sp. class	192.29	33.8	75.61	27.5	20.30	21.82	37.84	79.96 35.0
Class A	814.20	30.6	118.93	27.0	11.85	20.34	13.93	46.12 23.9
Class B	537.80	38.4	145.47	27.2	5.77	16.94	8.01	30.71 44.9
Class C	-	-	-	-	1.44	2.40	-	3.84 106.6
Class D	3173.81	18.8	818.74	14.3	53.29	81.52	59.10	193.91 24.1
TOTAL	4718.09	16.9	1158.74	12.9	92.65	143.02	118.88	354.54 18.8

NOTE: S.E.% -> Sampling error

Plantation forest : Stratum 60 (T/OT, 1960-1979, all cc) No. of plot Clusters: 135

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)			
					2.5-5	5-10	10-15	Total
	No./ha	S.E%	No./ha	S.E%	No./ha	No./ha	No./ha	No./ha S.E%
Sp. class	99.52	35.7	63.13	33.9	19.91	37.06	43.16	100.13 16.7
Class A	1197.39	15.8	156.50	19.6	44.11	48.98	39.20	132.29 18.4
Class B	937.88	18.1	99.72	18.5	18.46	24.92	30.13	73.51 15.7
Class C	28.10	68.2	3.81	58.1	1.67	2.43	0.94	5.04 41.0
Class D	1940.08	21.7	485.31	16.8	77.56	68.58	26.57	172.72 13.6
TOTAL	4202.96	13.5	808.47	13.6	161.71	181.97	139.99	483.68 8.3

Plantation forest : Stratum 70 (T/OT, 1980 and up, all cc) No. of plot Clusters: 47

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					2.5-5	5-10	10-15	Total	
	No./ha	S.E%	No./ha	S.E%	No./ha	No./ha	No./ha	No./ha	S.E%
Sp. class	127.83	37.9	59.85	43.1	32.44	48.85	63.01	144.30	23.1
Class A	477.70	36.5	182.81	23.2	56.82	129.71	34.95	221.48	17.6
Class B	227.48	40.5	112.11	39.5	28.41	40.67	18.23	87.31	27.0
Class C	-	-	-	-	0.52	1.91	4.50	6.93	62.3
Class D	745.26	39.0	231.82	25.9	82.24	102.21	43.31	227.75	17.6
TOTAL	1578.26	23.4	586.59	20.0	200.43	323.34	164.01	687.77	11.5

Plantation forest : Stratum 90 (Other LRS, upto 1979, all cc) No. of plot Clusters: 83

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					2.5-5	5-10	10-15	Total	
	No./ha	S.E%	No./ha	S.E%	No./ha	No./ha	No./ha	No./ha	S.E%
Sp. class	89.17	83.3	92.89	22.0	41.93	77.50	49.06	168.49	15.3
Class A	705.59	22.5	194.98	18.3	45.41	91.16	35.48	172.06	26.8
Class B	477.00	23.7	222.22	27.5	45.64	89.24	56.56	191.44	15.8
Class C	-	-	12.74	76.6	2.12	12.11	15.99	30.22	56.6
Class D	3191.07	24.3	904.47	14.1	174.18	145.40	28.44	348.02	12.7
TOTAL	4462.83	20.5	1427.29	11.8	309.29	415.42	185.53	910.23	9.0

Plantation forest : Stratum 100 (Other LRS, 1980 and up, all cc) No. of plot Clusters: 64

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					2.5-5	5-10	10-15	Total	
	No./ha	S.E%	No./ha	S.E%	No./ha	No./ha	No./ha	No./ha	S.E%
Sp. class	96.51	76.2	12.67	59.8	8.20	17.94	9.26	35.40	31.3
Class A	802.61	23.5	253.54	18.1	95.78	130.92	34.72	261.43	15.8
Class B	395.67	32.5	162.85	24.9	53.44	120.15	55.75	229.34	20.8
Class C	77.20	59.5	28.15	38.9	10.42	16.08	9.74	36.24	39.7
Class D	1713.03	19.4	566.99	16.3	217.99	117.58	28.87	364.45	17.6
TOTAL	3085.02	16.5	1024.20	13.6	385.83	402.68	138.35	926.85	11.1

Plantation forest : Stratum 120 (Eu/Am/Ac/Others, all cc) No. of plot Clusters: 76

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					2.5-5	5-10	10-15	Total	
	No./ha	S.E%	No./ha	S.E%	No./ha	No./ha	No./ha	No./ha	S.E%
Sp. class	25.14	74.1	22.87	60.3	2.43	1.34	3.02	6.79	41.9
Class A	1662.20	17.4	408.57	16.7	64.44	126.38	19.13	209.95	21.4
Class B	993.83	31.9	257.19	23.0	82.76	101.92	19.74	204.42	20.9
Class C	155.05	49.9	55.35	58.3	93.26	176.86	79.77	349.89	21.5
Class D	4110.79	18.7	839.83	16.4	47.10	27.45	4.61	79.16	24.0
TOTAL	6947.00	14.7	1583.81	13.1	290.00	433.94	126.26	850.20	10.0

Plantation forest : Stratum 140 (Other plantations) No. of plot Clusters: 2

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					2.5-5	5-10	10-15	Total	
	No./ha	S.E%	No./ha	S.E%	No./ha	No./ha	No./ha	No./ha	S.E%
Sp. class	509.57	62.5	-	-	-	-	-	-	-
Class B	509.57	62.5	-	-	-	-	-	-	-
Class D	7133.96	62.5	1910.89	62.5	-	122.24	-	122.24	62.5
TOTAL	8153.09	62.5	1910.89	62.5	-	122.24	-	122.24	62.5

Plantation forest : Stratum 150 (Others (e.g. EN,FP)) No. of plot Clusters: 168

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					2.5-5	5-10	10-15	Total	
	No./ha	S.E%	No./ha	S.E%	No./ha	No./ha	No./ha	No./ha	S.E%
Sp. class	68.65	76.6	58.27	32.0	12.98	18.74	14.37	46.09	31.2
Class A	1267.99	15.1	177.76	18.0	28.23	54.55	19.11	101.88	23.3
Class B	444.20	24.3	138.59	19.3	27.68	52.49	18.96	99.13	23.0
Class C	45.30	215.7	21.94	133.7	5.07	10.45	5.05	20.58	44.3
Class D	3102.19	10.8	791.83	9.8	51.46	84.67	32.23	168.36	11.5
TOTAL	4928.33	9.1	1188.39	8.9	125.42	220.90	89.72	436.04	10.7

Plantation Forest : All strata (Except 140/150) Total No. of Plot clusters : 444

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					2.5-5	5-10	10-15	Total	
	No./ha	S.E%	No./ha	S.E%	No./ha	No./ha	No./ha	No./ha	S.E%
Sp. class	97.21	23.3	56.68	15.2	21.35	36.62	34.85	92.81	9.3
Class A	1003.65	8.9	217.69	8.3	52.83	87.15	31.57	171.56	9.1
Class B	663.06	12.1	164.77	11.3	39.02	64.34	33.76	137.12	8.9
Class C	43.90	34.5	16.53	35.5	17.75	34.67	18.35	70.77	18.3
Class D	2511.79	9.9	645.23	7.1	109.27	89.03	28.74	227.04	7.0
TOTAL	4319.61	7.4	1100.90	5.8	240.21	311.81	147.28	699.30	4.3

Simple random sample sampling errors of Seedlings, Saplings and Poles are :
7.38, 5.92 and 4.63

Stand Tables by Stratum and Division for Bamboo, Rattan and Medicinal Plants ;
No. of stems/ha

Division : Cox's Bazar (26) Date : 02/04/1998

Natural Forest :

Stratum	No. of Plot Cluster	SST Bamboo(303) No. of Im. Stems	SST Bamboo(303) NO. of mat stems	SST Bamboo(303) Total No of stems	SST Bamboo(303) S.E. (%)	Other Bamboo(301,302,304-39) NO. of Im. stems	Other Bamboo(301,302,304-39) No. of mat stems	Other Bamboo(301,302,304-39) Total No of stems	Other Bamboo(301,302,304-39) S.E. (%)
10	215	245.80	59.12	304.92	18.7	2044.01	498.47	2542.48	11.6
20	249	71.13	32.86	103.99	19.5	2075.54	456.74	2532.28	10.7
30	80	151.64	62.00	213.64	23.5	1984.59	236.44	2221.03	17.2
All strata	544	152.00	47.52	199.52	13.0	2049.70	440.84	2490.54	7.3

Stratum	No. of Plot Cluster	Rattan No. of Stems <3	Rattan NO. of stems>=3	Rattan Total No of stems	Rattan S.E. (%)	Medicinal Plants
10	215	78.18	5.14	83.32	28.1	25.71
20	249	73.91	9.95	83.86	37.2	10.36
30	80	47.91	2.01	49.92	56.2	17.86
All strata	544	71.77	6.88	78.65	22.8	17.53

NOTE: Stratum : 1. HF - large crown high forest, >50% crown closure
2. LF - small crown high forest, >50% crown closure
3. ST - scattered trees, about 20% crown closure
4. B/BO/OB - Bamboo (>80% stocking)/Bamboo (<80% stocking) /Bamboo (dominant) with other species

Im stems - Immature stems
Mat stems - Mature stems
SST Bamboo - Solitary stem Bamboo
S.E.% - Sampling error

Stand Tables by Stratum and Division for Bamboo, Rattan and Medicinal Plants ;
No. of stems/ha

Division : Cox's Bazar (26) Date : 02/08/1998

Plantation Forest :

Stratum	No. of Plot Cluster	SST Bamboo(303) No. of Im. Stems	SST Bamboo(303) NO. of mat stems	SST Bamboo(303) Total No of stems	SST Bamboo(303) S.E. (%)	Other Bamboo(301,302,304-39) NO. of Im. stems	Other Bamboo(301,302,304-39) No. of mat stems	Other Bamboo(301,302,304-39) Total No of stems	Other Bamboo(301,302,304-39) S.E. (%)
50	39	555.15	98.98	654.13	21.2	854.86	237.25	1092.11	24.1
60	135	401.86	159.44	561.30	16.7	528.67	101.81	630.48	30.3
70	47	174.61	49.89	224.51	37.7	637.70	178.37	816.07	29.9
90	83	110.69	24.11	134.79	39.5	661.56	258.36	919.92	29.6
100	64	86.52	66.94	153.46	50.9	788.57	275.51	1064.07	23.3
120	76	24.46	12.40	36.86	53.0	90.57	37.69	128.27	55.7
150	168	163.28	49.27	212.55	23.9	993.72	266.69	1260.40	15.8
All strata	444	288.57	97.37	385.94	9.2	932.18	266.05	1198.23	7.8

Stratum	No. of Plot Cluster	Rattan No. of Stems <3	Rattan NO. of stems>=3	Rattan Total No of stems	Rattan S.E.%	Medicinal Plants
50	39	132.14	9.61	141.75	32.8	3.00
60	135	94.80	13.48	108.28	18.6	14.04
70	47	16.24	-	16.24	74.4	3.25
90	83	38.20	4.07	42.27	32.9	65.78
100	64	31.35	3.47	34.82	93.0	21.70
120	76	33.51	3.02	36.52	45.3	370.14
150	168	43.15	2.04	45.19	33.6	40.32
All strata	444	75.87	7.49	83.36	11.5	98.92

Legend: Stratum :
5. T/OT, up to 1959
6. T/OT, 1960-1979
7. T/OT, 1980 and up
10. Other LRS
11. Mo, up to 1989
12. Eu/Am/Ac/Kd/Others, up to 1989
13. Eu/Am/Ac/Kd/Others, 1990 & up
15. Others

Im stems - Immature stems
Mat stems - Mature stems
SST Bamboo - Solitary stem Bamboo
S.E.% - Sampling error
All strata - All strata (Except 14/15)

APPENDIX 8

Detailed Forest Statistics (Division-Wide Estimates)

Division : Cox's Bazar (26) Date : 02/10/1998

Species Group : 1. Special Class 2. Class A 3. Class B 4. Class C 5. Class D

Natural Forest : Stratum 10 (HF/GF)

Stratum Area : 12517.70 Ha

Trees by Diameter Class

Species Group	20-30			30-40			40-50			50-60		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. clas	11750	590	3580	9120	850	5450	3690	580	4160	390	80	660
Class A	99860	4910	36610	90570	8480	64380	62470	9620	79290	36610	8350	76830
Class B	73610	3670	28240	70680	6610	51220	43120	6560	55600	26700	5960	54210
Class C	4810	230	1950	3910	400	3330	3590	550	4040	1540	330	2180
Class D	-	13150	95400	-	13420	99370	67530	10330	81590	25440	5800	50580
TOTAL	470880	22550	165800	320490	29760	223740	180390	27640	224680	90670	20520	184460

Trees by Diameter Class

Species Group	60-70			70-80			80+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. clas	-	-	-	-	-	-	-	-	-	24940	2100	13850	29.6
Class A	23430	7550	80110	12780	5710	58500	11520	7400	74580	337230	52010	470300	10.1
Class B	7620	2390	24820	3900	1720	18790	4430	3200	28800	230060	30100	261700	8.0
Class C	890	310	1680	390	180	1390	-	-	-	15130	2010	14570	30.7
Class D	12160	3870	30220	7050	3080	22090	4090	2840	24640	543340	52490	403880	6.1
TOTAL	44100	14120	136830	24120	10680	100770	20040	13440	128020	1150700	138710	1164300	5.6

Natural Forest : Stratum 20 (LF)

Stratum Area : 14348.80 Ha

Trees by Diameter Class

Species Group	20-30			30-40			40-50			50-60		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. clas	6770	370	2330	2130	190	1390	740	120	1090	460	100	520
Class A	-	5900	45630	86270	8060	63910	47010	7050	61570	28860	6600	64150
Class B	79640	3930	29980	79530	7350	62730	44330	6720	58800	18180	4080	35760
Class C	3970	190	1210	3250	320	2250	1990	310	2020	1670	380	2100
Class D	-	15930	-	-	14930	-	59980	8930	69710	21700	4930	38350
TOTAL	550690	26310	194600	336160	30840	243130	154050	23130	193180	70870	16090	140890

Trees by Diameter Class

Species Group	60-70			70-80			80+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. clas	-	-	-	-	-	-	370	300	3570	10480	1080	8900	35.3
Class A	16350	5210	52220	6400	2730	28600	6400	4310	47150	311750	39860	363230	10.4
Class B	7510	2440	22710	4920	2060	24880	1110	650	8150	235220	27220	243010	8.5
Class C	740	220	2710	-	-	-	-	-	-	11620	1420	10290	26.3
Class D	9830	3020	22870	3710	1540	12180	2320	1450	10460	602370	50740	381870	5.6
TOTAL	34440	10900	100510	15030	6330	65660	10200	6700	69350	1171430	120310	1007310	5.5

Natural Forest : Stratum 30 (ST/TB)

Stratum Area : 3531.90 Ha

Trees by Diameter Class

Species Group	20-30			30-40			40-50			50-60		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. clas	2420	120	650	470	40	100	-	-	-	-	-	-
Class A	8120	410	2500	5500	550	3760	2720	450	2830	1230	270	2250
Class B	6680	350	2200	9050	890	6940	6590	980	7450	3080	660	5560
Class C	-	-	-	-	-	-	-	-	-	190	40	280
Class D	36530	1820	11900	14170	1280	6840	7400	1120	6750	1770	390	1940
TOTAL	53750	2700	17250	29200	2760	17630	16700	2550	17030	6270	1360	10030

Trees by Diameter Class

Species Group	60-70			70-80			80+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. clas	-	-	-	-	-	-	100	80	40	2990	240	780	131.9
Class A	850	280	2690	1640	710	5040	1490	880	8140	21550	3560	27210	28.6
Class B	2090	650	5090	380	180	470	-	-	-	27870	3700	27700	19.6
Class C	-	-	-	-	-	-	-	-	-	190	40	280	122.2
Class D	2500	830	2420	760	310	820	890	510	2200	64010	6260	32870	12.4
TOTAL	5440	1750	10190	2780	1200	6330	2470	1470	10380	116610	13800	88850	12.8

Natural Forest : All strata

Total Area : 30398.40 Ha

Trees by Diameter Class

Species Group	20-30			30-40			40-50			50-60		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. clas	20940	1080	6560	11720	1080	6930	4430	700	5250	850	180	1180
Class A	228440	11220	84750	182330	17100	132050	112190	17120	143690	66700	15220	143230
Class B	159930	7950	60410	159270	14840	120890	94040	14250	121860	47960	10700	95530
Class C	8780	420	3160	7150	710	5580	5580	860	6070	3400	750	4560
Class D	657240	30900	222760	325370	29630	219030	134900	20380	158050	48920	11120	90880
TOTAL	1000000	51560	377650	685850	63360	484500	351150	53320	434890	167820	37980	335390

Trees by Diameter Class

Species Group	60-70			70-80			80+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. clas	-	-	-	-	-	-	470	380	3610	38400	3420	23530	22.4
Class A	40640	13040	135020	20830	9150	92140	19410	12590	129870	670530	95430	860740	7.1
Class B	17220	5480	52620	9190	3950	44140	5540	3840	36950	493150	61020	532410	5.6
Class C	1630	530	4390	390	180	1390	-	-	-	26930	3460	25140	20.8
Class D	24480	7710	55510	11520	4930	35100	7300	4810	37300	1209730	109490	818620	4.0
TOTAL	83980	26770	247540	41930	18220	172760	32710	21620	207750	2438740	272810	2260460	3.8

Simple random sample sampling error : 3.89

Forest Statistics by Species Group, Stratum and Forest Division :
No. of Trees (nearest 10), Basal Area (nearest 10 sqm) and Volume (nearest 10 cu m)].

Division : Cox's Bazar (26) Date : 02/08/1998

Species Group : 1. Special Class 2. Class A 3. Class B 4. Class C 5. Class D

Plantation Forest : Stratum 50 (T/OT, up to 1959, all cc)

Stratum Area : 1942.90 Ha

Species Group	Trees by Diameter Class											
	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. clas	27240	650	4780	34730	1570	9850	16940	1610	8370	5800	850	4580
Class A	7460	180	180	18130	850	2050	11730	1110	6510	5100	760	5460
Class B	6980	180	1090	21590	990	5880	12330	1160	10910	3670	540	7360
Class C	190	10	-	1480	50	30	-	-	-	-	-	-
Class D	11830	270	130	26810	1290	5110	8870	790	3890	3090	420	3800
TOTAL	53700	1270	6180	102740	4750	22920	49870	4670	29680	17650	2570	21200

Species Group	Trees by Diameter Class												
	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. clas	2060	530	3110	1290	380	2790	-	-	-	88060	5580	33470	22.8
Class A	1140	260	900	190	60	530	960	870	4820	44710	4080	20440	20.9
Class B	630	140	350	1540	430	9320	-	-	-	46720	3440	34910	24.6
Class C	-	-	-	-	-	-	-	-	-	1670	60	30	43.5
Class D	430	90	40	390	130	50	-	-	-	51420	3000	13030	19.7
TOTAL	4260	1020	4400	3410	1010	12690	960	870	4820	232590	16150	101890	12.7

Plantation Forest : Stratum 60 (T/OT, 1960-1979, all cc)

Stratum Area : 5636.70 Ha

Trees by Diameter Class

Species Group	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. clas	73610	1730	13670	94570	4280	28760	19860	1750	11750	3710	550	3870
Class A	44590	1030	3600	56700	2500	8680	21770	1930	10910	8760	1350	11120
Class B	40870	960	4800	84840	3750	19710	16050	1350	7320	4250	680	5980
Class C	6380	140	470	1960	80	420	490	50	80	-	-	-
Class D	17990	400	250	37470	1730	8640	15880	1460	6290	6630	960	5150
TOTAL	183450	4260	22780	275540	12340	66200	74050	6520	36350	23350	3550	26130

Trees by Diameter Class

Species Group	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. clas	360	80	470	-	-	-	-	-	-	192110	8390	58530	13.5
Class A	2650	590	4500	1420	430	3780	2160	1080	7800	138050	8910	50390	14.4
Class B	1150	270	1030	1090	370	4330	1150	760	8370	149390	8150	51530	13.3
Class C	270	60	20	710	230	100	-	-	-	9810	550	1090	81.5
Class D	3270	790	7910	1580	490	3320	220	130	60	83050	5960	31620	19.7
TOTAL	7710	1790	13950	4800	1510	11530	3530	1970	16220	572420	31940	193150	10.2

Plantation Forest : Stratum 70 (T/OT, 1980 and up, all cc)

Stratum Area : 2109.40 Ha

Trees by Diameter Class

Species Group	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. clas	23010	540	4100	13590	550	3630	760	80	450	-	-	-
Class A	12950	310	1060	17140	760	2190	2780	230	370	1810	260	110
Class B	3230	80	200	6800	290	610	230	20	10	-	-	-
Class C	12460	290	740	680	20	60	-	-	-	-	-	-
Class D	7400	170	90	5960	240	530	1130	90	40	910	110	50
TOTAL	59040	1390	6190	44170	1850	7020	4890	420	860	2720	370	160

Trees by Diameter Class

Species Group	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. clas	-	-	-	-	-	-	-	-	-	37350	1170	8170	44.7
Class A	280	60	370	-	-	-	380	250	2100	35340	1870	6200	46.7
Class B	-	-	-	-	-	-	-	-	-	10250	390	820	47.7
Class C	-	-	-	-	-	-	-	-	-	13140	310	800	104.3
Class D	1130	260	110	-	-	-	-	-	-	16530	870	820	55.1
TOTAL	1420	320	480	-	-	-	380	250	2100	112610	4600	16810	34.8

Plantation Forest : Stratum 90 (Other LRS, upto 1979, all cc)

Stratum Area : 3950.00 Ha

Trees by Diameter Class

Species Group	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. clas	44610	970	7280	25700	1100	6790	970	90	570	280	40	200
Class A	25560	590	1960	25490	1130	4140	4160	360	1620	830	130	790
Class B	28310	640	2880	16210	660	2630	2290	220	890	830	130	450
Class C	7990	170	610	1110	60	210	-	-	-	-	-	-
Class D	21480	490	270	15100	630	320	3260	300	130	1390	210	90
TOTAL	127950	2850	13000	83610	3580	14080	10670	960	3210	3330	500	1530

Trees by Diameter Class

Species Group	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. clas	280	60	460	-	-	-	-	-	-	71840	2250	15310	22.6
Class A	280	50	240	-	-	-	-	-	-	56320	2260	8750	23.6
Class B	-	-	-	-	-	-	-	-	-	47640	1640	6850	22.5
Class C	-	-	-	-	-	-	-	-	-	9100	230	820	50.0
Class D	550	140	60	350	130	50	-	-	-	42120	1900	920	19.7
TOTAL	1110	260	760	350	130	50	-	-	-	227010	8280	32630	15.1

Plantation Forest : Stratum 100 (Other LRS, 1980 and up, all cc)

Stratum Area : 2625.00 Ha

Species Group	Trees by Diameter Class											
	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. clas	2620	50	410	1830	90	530	470	40	160	260	40	140
Class A	10410	240	980	7900	360	1810	1470	130	800	260	40	190
Class B	10460	240	990	7830	380	2480	7530	660	6200	1400	220	1880
Class C	1050	20	60	420	10	40	-	-	-	-	-	-
Class D	8210	190	150	13480	650	3130	4170	360	2270	210	30	10
TOTAL	32750	740	2590	31460	1490	7990	13640	1180	9420	2130	330	2220

Species Group	Trees by Diameter Class												
	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. clas	260	50	430	-	-	-	-	-	-	5440	270	1660	58.1
Class A	210	50	20	-	-	-	520	250	1010	20770	1060	4810	25.2
Class B	-	-	-	-	-	-	-	-	-	27220	1500	11560	16.1
Class C	-	-	-	-	-	-	-	-	-	1470	40	100	101.8
Class D	-	-	-	-	-	-	210	90	40	26280	1320	5610	18.8
TOTAL	470	100	450	-	-	-	730	340	1050	81180	4180	23730	14.4

Plantation Forest : Stratum 100 (Other LRS, 1980 and up, all cc)

Stratum Area : 2625.00 Ha

Species Group	Trees by Diameter Class											
	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. clas	2620	50	410	1830	90	530	470	40	160	260	40	140
Class A	10410	240	980	7900	360	1810	1470	130	800	260	40	190
Class B	10460	240	990	7830	380	2480	7530	660	6200	1400	220	1880
Class C	1050	20	60	420	10	40	-	-	-	-	-	-
Class D	8210	190	150	13480	650	3130	4170	360	2270	210	30	10
TOTAL	32750	740	2590	31460	1490	7990	13640	1180	9420	2130	330	2220

Species Group	Trees by Diameter Class												
	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. clas	260	50	430	-	-	-	-	-	-	5440	270	1660	58.1
Class A	210	50	20	-	-	-	520	250	1010	20770	1060	4810	25.2
Class B	-	-	-	-	-	-	-	-	-	27220	1500	11560	16.1
Class C	-	-	-	-	-	-	-	-	-	1470	40	100	101.8
Class D	-	-	-	-	-	-	210	90	40	26280	1320	5610	18.8
TOTAL	470	100	450	-	-	-	730	340	1050	81180	4180	23730	14.4

Plantation Forest : Stratum 120 (Eu/Am/Ac/Others, all cc)

Stratum Area : 3174.60 Ha

Species Group	Trees by Diameter Class											
	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. clas	1320	30	210	1590	70	410	220	20	80	-	-	-
Class A	3500	80	80	4870	230	340	1700	150	650	820	130	1130
Class B	6170	140	620	6470	250	1150	280	20	140	-	-	-
Class C	28300	590	1900	3300	130	500	-	-	-	-	-	-
Class D	1760	40	20	4840	190	1090	660	70	340	-	-	-
TOTAL	41040	880	2820	21060	870	3490	2860	250	1210	820	130	1130

Species Group	Trees by Diameter Class												
	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. clas	-	-	-	-	-	-	-	-	-	3130	110	700	61.2
Class A	280	70	490	-	-	-	-	-	-	11170	640	2690	70.4
Class B	280	70	30	-	-	-	-	-	-	13190	490	1940	58.7
Class C	-	-	-	280	80	30	-	-	-	31870	800	2430	29.9
Class D	370	80	30	-	-	-	280	160	70	7890	530	1540	89.8
TOTAL	920	210	550	280	80	30	280	160	70	67250	2580	9300	41.9

Plantation Forest : All strata (Except 140/150) Total Area : 19438.60 Ha

Trees by Diameter Class

Species Group	15-20			20-30			30-40			40-50		
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol
Sp. clas	172410	3970	30450	172010	7650	49970	39220	3580	21380	10050	1480	8790
Class A	104470	2420	7860	130230	5820	19200	43600	3900	20850	17580	2660	18810
Class B	96020	2230	10580	143730	6320	32460	38700	3440	25480	10140	1570	15660
Class C	56360	1220	3780	8940	360	1260	490	50	80	-	-	-
Class D	68670	1560	920	103670	4730	18810	33970	3060	12960	12220	1730	9100
TOTAL	497920	11390	53570	558580	24880	121700	155980	14020	80740	50000	7440	52360

Trees by Diameter Class

Species Group	50-60			60-70			70+			Total			
	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	NT	BA	Vol	S.E%
Sp. clas	2960	720	4480	1290	380	2790	-	-	-	397940	17770	117840	10.3
Class A	4840	1080	6510	1610	490	4310	4030	2450	15740	306360	18820	93270	10.1
Class B	2050	480	1410	2630	800	13650	1150	760	8360	294410	15600	107600	10.5
Class C	270	60	20	980	300	130	-	-	-	67050	1980	5270	28.1
Class D	5760	1360	8150	2310	740	3430	700	380	160	227300	13570	53540	13.0
TOTAL	15880	3690	20570	8830	2720	24300	5880	3590	24260	1293060	67730	377510	6.7

Simple random sample sampling error : 6.91

Statistics by Species group, Stratum and Division for Seedlings, Saplings and Poles;
No of stems (nearest 10)

Division : Cox's Bazar (26) Date : 02/04/1998

Species Group : 1. Special Class 2. class A 3. Class B 4. Class C 5. Class D

Natural Forest : Stratum 10 (HF/GF) Stratum Area : 12517.70 Ha

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					5-10	10-15	15-20	Total	
	No. stems	S.E%	No. stems	S.E%	No. stems	No. stems	No. stems	No. stems	S.E%
Sp. class	582810	69.1	231430	46.7	54400	46680	14560	115640	60.4
Class A	10134380	15.1	1811140	14.8	173360	177980	108510	459850	13.0
Class B	5064750	19.0	1491530	19.3	227950	160540	147810	536310	22.8
Class C	402140	50.7	157360	27.7	15960	10370	13050	39380	21.2
Class D	39046300	11.7	11680820	8.6	1574240	1071050	430380	3075670	5.8
TOTAL	55230380	10.4	15372270	8.5	2045920	1466630	714310	4226850	6.0

Natural Forest : Stratum 20 (LF) Stratum Area : 14348.80 Ha

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					5-10	10-15	15-20	Total	
	No. stems	S.E%	No. stems	S.E%	No. stems	No. stems	No. stems	No. stems	S.E%
Sp. class	595060	50.8	118590	45.4	78180	25580	5390	109150	60.2
Class A	12863230	13.1	2049770	13.2	278490	259600	115070	653160	11.8
Class B	6191150	13.7	1758090	12.1	221250	221560	128680	571490	20.2
Class C	632450	122.3	243270	63.9	41520	25100	2240	68860	90.8
Class D	57425100	8.2	19427290	7.3	1870840	1233170	494450	3598450	5.2
TOTAL	77706990	7.5	23597000	6.9	2490270	1765010	745830	5001110	5.6

Natural Forest : Stratum 30 (ST/TB) Stratum Area : 3531.90 Ha

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					5-10	10-15	15-20	Total	
	No. stems	S.E%	No. stems	S.E%	No. stems	No. stems	No. stems	No. stems	S.E%
Sp. class	411290	44.4	187950	62.7	20990	5740	-	26730	68.4
Class A	4841520	29.0	612370	27.3	161520	68790	16980	247290	23.3
Class B	964110	31.0	287660	29.8	85350	53000	26160	164510	20.7
Class C	86080	57.4	54520	100.4	3520	7490	3670	14680	93.9
Class D	9355180	21.3	2481790	19.5	391040	177320	57360	625710	14.1
TOTAL	15658180	17.3	3624290	15.6	662420	312340	104170	1078920	15.1

Natural Forest : All strata Total Area : 30398.40 Ha

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					5-10	10-15	15-20	Total	
	No. stems	S.E%	No. stems	S.E%	No. stems	No. stems	No. stems	No. stems	S.E%
Sp. class	1589160	33.7	537970	31.4	153570	78000	19950	251520	38.8
Class A	27839130	9.6	4473270	9.3	613370	506380	240550	1360300	8.3
Class B	12220010	10.8	3537280	10.4	534550	435100	302650	1272300	13.5
Class C	1120680	71.5	455150	37.4	61000	42960	18960	122920	52.5
Class D	105826580	6.5	33589900	5.4	3836120	2481540	982190	7299840	3.8
TOTAL	148595550	5.8	42593560	5.1	5198610	3543980	1564300	10306880	4.0

Simple random sample sampling errors of Seedlings, Saplings and Poles are :
5.8, 5.0 and 4.0

Statistics by Species group, Stratum and Division for Seedlings, Saplings and Poles;
No of stems (nearest 10)

Division : Cox's Bazar (26) Date : 02/08/1998

Species Group : 1. Special Class 2. class A 3. Class B 4. Class C 5. Class D

Plantation Forest : Stratum 50 (T/OT, up to 1959, all cc) Stratum Area: 1942.90 Ha

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					2.5-5	5-10	10-15	Total	
	No. stems	S.E%	No. stems	S.E%	No. stems	No. stems	No. stems	No. stems	S.E%
Sp. class	373600	33.8	146910	27.5	39440	42400	73510	155350	35.0
Class A	1581900	30.6	231060	27.0	23030	39520	27070	89620	23.9
Class B	1044880	38.4	282620	27.2	11200	32900	15560	59660	44.9
Class C	-	-	-	-	2800	4670	-	7470	106.6
Class D	6166400	18.8	1590720	14.3	103540	158380	114830	376750	24.1
TOTAL	9166770	16.9	2251320	12.9	180010	277870	230970	688840	18.8

Plantation Forest : Stratum 60 (T/OT, 1960-1979, all cc) Stratum Area: 5636.70 Ha

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					2.5-5	5-10	10-15	Total	
	No. stems	S.E%	No. stems	S.E%	No. stems	No. stems	No. stems	No. stems	S.E%
Sp. class	560970	35.7	355830	33.9	112230	208890	243270	564390	16.7
Class A	6749320	15.8	882160	19.6	248640	276080	220930	745650	18.4
Class B	5286520	18.1	562080	18.5	104050	140460	169830	414340	15.7
Class C	158390	68.2	21450	58.1	9410	13720	5280	28410	41.0
Class D	10935640	21.7	2735570	16.8	437210	386560	149790	973550	13.6
TOTAL	23690840	13.5	4557090	13.6	911530	1025700	789110	2726340	8.3

Plantation Forest : Stratum 70 (T/OT, 1980 and up, all cc) Stratum Area: 2109.40 Ha

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					2.5-5	5-10	10-15	Total	
	No. stems	S.E%	No. stems	S.E%	No. stems	No. stems	No. stems	No. stems	S.E%
Sp. class	269640	37.9	126240	43.1	68420	103050	132920	304390	23.1
Class A	1007660	36.5	385610	23.2	119850	273610	73730	467190	17.6
Class B	479840	40.5	236490	39.5	59930	85780	38460	184170	27.0
Class C	-	-	-	-	1100	4020	9500	14620	62.3
Class D	1572050	39.0	489000	25.9	173480	215590	91350	480430	17.6
TOTAL	3329190	23.4	1237350	20.0	422780	682040	345960	1450780	11.5

Plantation Forest : Stratum 90 (Other LRS, upto 1979, all cc) Stratum Area: 3950.00 Ha

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					2.5-5	5-10	10-15	Total	
	No. stems	S.E%	No. stems	S.E%	No. stems	No. stems	No. stems	No. stems	S.E%
Sp. class	352230	83.3	366910	22.0	165630	306120	193800	665550	15.3
Class A	2787070	22.5	770160	18.3	179380	360100	140150	679630	26.8
Class B	1884140	23.7	877780	27.5	180270	352500	223410	756190	15.8
Class C	-	-	50320	76.6	8380	47840	63150	119360	56.6
Class D	12604730	24.3	3572640	14.1	688010	574350	112320	1374680	12.7
TOTAL	17628170	20.5	5637800	11.8	1221680	1640900	732830	3595410	9.0

Plantation Forest : Stratum 100 (Other LRS, 1980 and up, all cc) Stratum Area: 2625.00 Ha

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					2.5-5	5-10	10-15	Total	
	No. stems	S.E%	No. stems	S.E%	No. stems	No. stems	No. stems	No. stems	S.E%
Sp. class	253330	76.2	33250	59.8	21520	47100	24310	92920	31.3
Class A	2106860	23.5	665530	18.1	251430	343680	91150	686250	15.8
Class B	1038630	32.5	427490	24.9	140270	315400	146350	602020	20.8
Class C	202660	59.5	73890	38.9	27350	42200	25570	95120	39.7
Class D	4496690	19.4	1488350	16.3	572230	308650	75790	956670	17.6
TOTAL	8098170	16.5	2688510	13.6	1012790	1057030	363180	2432990	11.1

Plantation Forest : Stratum 120 (Eu/Am/Ac/Others, all cc) Stratum Area: 3174.60 Ha

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					2.5-5	5-10	10-15	Total	
	No. stems	S.E%	No. stems	S.E%	No. stems	No. stems	No. stems	No. stems	S.E%
Sp. class	79820	74.1	72610	60.3	7710	4260	9570	21540	41.9
Class A	5276810	17.4	1297040	16.7	204590	401190	60720	666500	21.4
Class B	3155000	31.9	816470	23.0	262730	323540	62670	648940	20.9
Class C	492210	49.9	175710	58.3	296060	561460	253250	1110770	21.5
Class D	13050130	18.7	2666120	16.4	149540	87140	14630	251300	24.0
TOTAL	22053960	14.7	5027950	13.1	920630	1377580	400840	2699040	10.0

Plantation Forest : All strata (Except 140/150) Total Area : 19438.60 Ha

Species group	Seedlings		Saplings		Poles by Diameter Class (in cm)				
					2.5-5	5-10	10-15	Total	
	No. stems	S.E%	No. stems	S.E%	No. stems	No. stems	No. stems	No. stems	S.E%
Sp. class	1889580	23.3	1101760	15.2	414960	711790	677380	1804130	9.3
Class A	19509620	8.9	4231560	8.3	1026910	1694170	613750	3334830	9.1
Class B	12889010	12.1	3202930	11.3	758450	1250590	656280	2665330	8.9
Class C	853260	34.5	321370	35.5	345100	673900	356750	1375740	18.3
Class D	48825630	9.9	12542410	7.1	2124000	1730670	558710	4413380	7.0
TOTAL	83967100	7.4	21400020	5.8	4669410	6061120	2862870	13593400	4.3

Simple random sample sampling errors of Seedlings, Saplings and Poles are :
7.38, 5.92 and 4.63

Statistics by Stratum and division for Bamboo, Rattan and Medicinal plants ;
No. of stems(nearest 10)

Division : Cox's Bazar (26)

Date : 02/04/1998

Natural Forest :

Stratum	Area (Ha)	SST Bamboo(303) No. of Im. Stems	SST Bamboo(303) NO. of mat stems	SST Bamboo(303) Total No of stems	SST Bamboo(303) S.E. (%)	Other Bamboo(301,302,304-39) NO. of Im. stems	Other Bamboo(301,302,304-39) No. of mat stems	Other Bamboo(301,302,304-39) Total No of stems	Other Bamboo(301,302,304-39) S.E. (%)
10	12517.7	3076840	740060	3816900	18.7	25586300	6239720	31826020	11.6
20	14348.8	1020610	471480	1492090	19.5	29781490	6553730	36335220	10.7
30	3531.9	535580	218960	754540	23.5	7009380	835070	7844450	17.2
All strata	30398.4	4620620	1444610	6065240	13.0	62307700	13400740	75708450	7.3

Stratum	Area (Ha)	Rattan No. of Stems <3	Rattan NO. of stems>=3	Rattan Total No of stems	Rattan S.E. (%)	Medicinal Plants
10	12517.7	978670	64310	1042980	28.1	321830
20	14348.8	1060490	142750	1203240	37.2	148690
30	3531.9	169210	7110	176320	56.2	63090
All strata	30398.4	2181820	209150	2390960	22.8	532920

Legend: Stratum : 1. HF - large crown high forest, >50% crown closure
2. LF - small crown high forest, >50% crown closure
3. ST - scattered trees, about 20% crown closure
4. B/BO/OB - Bamboo (>80% stocking)/Bamboo (<80% stocking) /Bamboo (dominant) with other species

Im stems - Immature stems
Mat stems - Mature stems
SST Bamboo - Solitary stem Bamboo
S.E.% - Sampling error

Statistics by Stratum and division for Bamboo, Rattan and Medicinal plants ;
No. of stems(nearest 10)

Division : Cox's Bazar (26) Date : 02/08/1998

Plantation Forest :

Stratum	Area (Ha)	SST Bamboo(303) No. of Im. Stems	SST Bamboo(303) NO. of mat stems	SST Bamboo(303) Total No of stems	SST Bamboo(303) S.E. (%)	Other Bamboo(301,302,304-39) NO. of Im. stems	Other Bamboo(301,302,304-39) No. of mat stems	Other Bamboo(301,302,304-39) Total No of stems	Other Bamboo(301,302,304-39) S.E. (%)
50	1942.9	1078590	192310	1270910	21.2	1660910	460950	2121860	24.1
60	5636.7	2265190	898690	3163880	16.7	2979940	573890	3553820	30.3
70	2109.4	368330	105240	473570	37.7	1345160	376260	1721420	29.9
90	3950.0	437220	95220	532440	39.5	2613150	1020530	3633680	29.6
100	2625.0	227120	175720	402840	50.9	2069990	723210	2793190	23.3
120	3174.6	77650	39360	117010	53.0	287530	119670	407200	55.7
All strata	19438.6	5609350	1892790	7502130	9.2	18120220	5171610	23291820	7.8

Stratum	Area (Ha)	Rattan No. of Stems <3	Rattan NO. of stems>=3	Rattan Total No of stems	Rattan S.E.%	Medicinal Plants
50	1942.9	256730	18670	275400	32.8	5830
60	5636.7	534340	76000	610340	18.6	79160
70	2109.4	34260	-	34260	74.4	6850
90	3950.0	150880	16090	166970	32.9	259850
100	2625.0	82290	9120	91410	93.0	56970
120	3174.6	106370	9570	115940	45.3	1175050
All strata	19438.6	1474820	145650	1620480	11.5	1922810

Legend: Stratum : 5. T/OT, up to 1959
6. T/OT, 1960-1979
7. T/OT, 1980 and up
10. Other LRS
11. Mo, up to 1989
12. Eu/Am/Ac/Kd/Others, up to 1989
13. Eu/Am/Ac/Kd/Others, 1990 & up
15. Others

Im stems - Immature stems
Mat stems - Mature stems
SST Bamboo - Solitary stem Bamboo
S.E.% - Sampling error
All strata - All strata (Except 14/15)