## Forest Inventory

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แผบที่แสดงสาาพพื้นกี่ป่าไบักาคเทนีอ ปี w.ศ. 2549


## แแบที่แสดงสกาพพื้นที่ป่าไบ้กากตะวันออกเลียงเหนีอ

 ปี ш.ศ. 2549

แแนที่แสดงสกาพพื้นที่ป่าไบ้กาคตะัันออก




## FOREST TYPE



## Evergreen forest



## Dry Evergreen Forest



## Hil] Evergreen Forest



## Pthe Forest



## Dry Dipterocarp with Pine Forest



## Mixed Deciduous Forest



## Dry Dipterocarp Forest



## Mangrove Forest Plantation



## Agriculture



## Disturbed Forest



## PLOT ESTABLISHMENT



## PLOT ESTABLISHMENT



## Data collected and sampling method

Sampling Method (See Figure 1)

| Data Gathered | Plot Type | Number | Radius <br> (m) | Total <br> Area <br> (ha) |
| :---: | :---: | :---: | :---: | :---: |
| Seedling density | Circular | 4 | 0.631 | 0.0005 |
| Understory vegetation \& sapling <br> density | Circular | 1 | 3.99 | 0.0050 |
|  <br> tree stump volume; site <br> description | Circular | 1 | 12.62 | 0.0500 |
| Tree attributes; human \& natural site <br> disturbance; wildlife habitat use | Circular | 1 | 17.84 | 0.1000 |
|  <br> climbers volume and length | 17.84 m | 2 |  |  |

## DATA ANALYSIS

## NATIONAL FOREST INVENTORY



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## North of Thailand Map

 Showing the $10 \times 10 \mathrm{~km}$. grid
## (Only in Forest)



## North-East of Thailand Map

Showing the $10 \times 10 \mathrm{~km}$. grid
(Only in Forest)

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Central of Thailand Map <br> \title{
Central of Thailand Map <br> <br> Showing the $10 \times 10 \mathrm{~km}$. grid <br> <br> Showing the $10 \times 10 \mathrm{~km}$. grid <br> <br> (Only in Forest) <br> <br> (Only in Forest) <br> th
}


## South of Thailand Map

## Showing the $10 \times 10 \mathrm{~km}$. grid <br> (Only in Forest)

## Summary of Sample Plots

| Forest Type | No. of Plots | Species | No. of Tree | Live Tree | Dead Tree | Volume (cu,m) | Area of Sample Plots |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Rai | Hectare |
| ปไาดิบจั้น (Tropical Evergreen Forest) | 322 | 816 | 22,879 | 22,250 | 629 | 6,103.36 | 201.25 | 32.20 |
| ป่าดิบแล้ง (Dry Evergreen Forest) | 942 | 1,202 | 52,823 | 51,569 | 1,254 | 10,955.36 | 588.75 | 94.20 |
| ปไาดิบเขา (Hill Evergreen Forest) | 203 | 481 | 12,335 | 11,799 | 536 | 2,440.99 | 126.88 | 20.30 |
| ป่าสนเขา (Pine Forest) | 24 | 86 | 1,377 | 1,332 | 45 | 307.47 | 15.00 | 2.40 |
| ปไาพรุหอออ่าบ์งน้ำจ习ด (Fresh Water Swamp Forest) | 15 | 7 | 866 | 807 | 59 | 37.30 | 9.38 | 1.50 |
| สวนป่าขายเลน (Mangrove Forest Plantation) | 3 | 4 | 301 | 272 | 29 | 6.20 | 1.88 | 0.30 |
| ป่าบุง ป่าทาม (Swamp Forest) | 7 | 30 | 195 | 194 | 1 | 28.93 | 4.38 | 0.70 |
| ป่าขายหาด (Beach Forest) | 1 | 5 | 63 | 63 | 0 | 4.32 | 0.63 | 0.10 |
| ปาเมญูพรรณ (Mixed Deciduous Forest) | 2,626 | 1,267 | 92,781 | 90,028 | 2,753 | 19,255.60 | 1,641.25 | 262.60 |
| ป่าเด็งรัง (Dry Dipterocarp Forest) | 1,184 | 799 | 88,776 | 85,992 | 2,784 | 10,238.68 | 740.00 | 118.40 |
| สวนป่า (Forest Plantation) | 223 | 286 | 9,905 | 9,774 | 131 | 925.55 | 139.38 | 22.30 |
| ปไาเสื่อมโทรม (Disturbed Forest) | 149 | 318 | 3,180 | 3,101 | 79 | 324.40 | 93.13 | 14.90 |
| Total | 5,699 | 2,151 | 285,481 | 277,181 | 8,300 | 50,628.15 | 3,561.88 | 569.90 |

## SAMPLING ERROR

1) \% SE of Volume
$m_{i}=$ number of sampling units in cluster i
$m=\sum_{i=1}^{n} m_{i}$, total number of sampling units in all clusters
$\bar{m}=m / n$, average number of sampling units per cluster
$y_{\mathrm{ij}}=$ observed value or the variable of interest for sampling unit j in cluster i ( $\mathrm{j}=1,2, \ldots, \mathrm{mi}$ )
$y_{i}=\sum_{j=1}^{m} y_{i j}$ sum of the observations in cluster $i$
$\bar{y}_{\mathrm{i}}=\mathrm{yi} / \mathrm{m}_{\mathrm{i}}$, mean of the observations in cluster i .

$$
\begin{aligned}
& \text { std. err. }(\bar{y})=\sqrt{\left(1-\frac{n}{N}\right) \frac{s^{2}}{\overline{n m}^{2}}} \\
& \text { ows: } \\
& s^{s^{2}}=\sum_{i=1}^{n} m_{i}^{2}\left(\overline{y_{i}}-\bar{y}\right)^{2} /(n-1) \\
& S E= \\
& s^{2} /(m \times \bar{m})^{\wedge 2}
\end{aligned}
$$

## SAMPLING ERROR

## 2) \% SE of Area

$$
\begin{aligned}
& m_{i}=\text { number of plots } \\
& P_{i}=\text { plot survey } / \text { total plot } \\
& \bar{P}=P_{i} / m_{i} \\
& S^{2}=\left((\mathrm{mi} \wedge 2)\left(P_{i} \bar{P}\right)^{\wedge 2}\right. \\
& S E=\sqrt{S^{\wedge 2} /\left(S u m \text { of cluster } x\left(\sum m_{i} / \text { Sum of cluster }\right)^{\wedge 2}\right)}
\end{aligned}
$$

## Forest Land Assessment By Forest Type in 2006

| Forest Type | North |  | North-East |  | Central |  | South |  | East |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ha | \% of region | ha | \% of region | ha | \% of region | ha | \% of region | ha | \% of region | ha | \% of region |
| Tropical Evergreen Forest | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,266,389.23 | 21.18 | 12,054.46 | 0.33 | 7,990,273.08 | 2.55 |
| Dry Everegreen Forest | 1,118,879.42 | 6.60 | 454,978.47 | 2.69 | 449,071.69 | 6.66 | 0.00 | 0.00 | 472,535.02 | 12.95 | 15,596,653.75 | 4.97 |
| Hill Evergreen Forest | 498,433.52 | 2.94 | 26,066.47 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3,278,124.99 | 1.04 |
| Pine Forest | 62,304.19 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 389,401.19 | 0.12 |
| Fresh Water Swamp Forest | 7,788.02 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 47,939.02 | 0.80 | 0.00 | 0.00 | 348,294.05 | 0.11 |
| Mangrove Forest Plantation | 0.00 | 0.00 | 0.00 | 0.00 | 10,952.97 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 68,456.05 | 0.02 |
| Swamp Forest | 0.00 | 0.00 | 16,587.76 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 103,673.48 | 0.03 |
| Beach Forest | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3,994.92 | 0.07 | 0.00 | 0.00 | 24,968.24 | 0.01 |
| Mixed Deciduous Forest | 4,678,006.29 | 27.58 | 924,175.02 | 5.47 | 1,263,242.31 | 18.74 | 35,954.27 | 0.60 | 190,460.54 | 5.22 | 44,323,990.24 | 14.12 |
| Dry Dipterocarp Forest | 2,089,786.39 | 12.32 | 751,188.41 | 4.45 | 204,455.40 | 3.03 | 0.00 | 0.00 | 14,465.36 | 0.40 | 19,124,347.25 | 6.09 |
| Forest Plantation | 236,236.72 | 1.39 | 130,332.37 | 0.77 | 73,019.79 | 1.08 | 91,883.13 | 1.54 | 81,970.36 | 2.25 | 3,834,014.84 | 1.22 |
| Disturbed Forest | 145,376.44 | 0.86 | 151,659.49 | 0.90 | 54,764.84 | 0.81 | 27,964.43 | 0.47 | 16,876.25 | 0.46 | 2,479,009.10 | 0.79 |
| Total | 8,836,811.00 | 52.09 | 2,454,988.00 | 14.54 | 2,055,507.00 | 30.50 | 1,474,125.00 | 24.66 | 788,362.00 | 21.60 | 97,561,206.25 | 31.08 |

Remark : Yala Province, Narathiwat Province and Pattani Province are not included.

## Total Tree Stock of The Country

| Foestipe | Noth |  | Noth : Ext |  | Central |  | South |  | East |  | Total (Contry) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Treas | Voume (amm) | Trees | Volume (aum.) | Tres | Voume (aum.) | Tress | Volume (aum.) | Tres | Volume (aum.) | Tres | Volume (am.m) |
| Tropid ligegreen foest | . |  | . |  |  |  | 594,101,01 | $1.65 .54,913,50$ | 1.2 .56457 | 1.207, 73.13 | 60,96558 | 1617134666 |
| Opferavenf Foest | 46,70,655 | 121,56, 94, 76 | 499912388 | 68,15, 12.663 | 260,90,33 | 34,182,20,6 |  |  | 20,920,518 | 76,32666.68 | 1,412459,93 | 30001, 160 |
| Hilleraven Fovest | 288,256644 | 599883, 4.6 | 34922,79 | 6887,301, 2 |  |  |  |  |  |  | $331,194,13$ | 6,889,994,60 |
| Pin forest | 3684902 | 8421.285.24 |  |  |  |  |  |  |  |  | 36,64020 | 8,421.85, 2.2 |
| Freesl lider Slamp Forest | 72.15 | 39881.11 |  |  |  |  | 2.239 .988 | 98.71650 |  |  | 2,14,6,59 | 1.102:50 |
| Nagrove Foest | . |  | . | . | 1,40,991 | 16980850 |  |  |  |  |  |  |
| Slampluest |  |  | 5;313,799 | 723,34,63 |  |  |  |  |  |  |  |  |
| Beadroves | . |  |  |  |  |  | 1.75,5\% | 11882140 |  |  | 1.175596 | 118.214 |
| Mred Decidus Foust | 1.59, 212886 | 30,990,6.14 | 51244515 | 76, 21292285 | 20,203, 265 | 5,3/5,50,66 | 5,116,87 | 955,9437 | 13,84,58 | 2.887,30.9 | 2,46,903,509 | 527,482,21 |
| Ony Diperapap Foeed | $1.6037672,116$ | 205,58,666.17 | $64.412,311$ | 6,5333313,4 | 125,50,85 | 10,262121.19 |  |  | 11.9696818 | 1.044368 .89 | $2355,35.886$ | 2004,4,588:14 |
| FousPalation | 10,783243 | 128849496 | 55882.160 | 233566646 | 11.60193 | 1,922,10:5 | 18,48855 | 5.00001234 | 73899318 | 3,120,5:63 | 267113,89 | 25,35] 314.6 |
| Oistred foeet | $30,0.886$ | 3,4010,3,3 | 3889438 | 426634407 | 5,966/760 | 33,6,2679 | 2,903,38 | 64,8076, 2 | 3334129 | 36,980, 2 | 84,937,62 | 8,8859565 |
| Total | 4,412, 21,750 | 188,206,85539 | 1,666,59, 78 | 21,931, 10475 | 698,564942 | 104,216882, 10 | 613,866299 | 173,46,7172,54 | 414,204,671 | 105,387,40,5 | 1,59, 336,48 | 1,385, 76,487 |

Remark: Yala Province, Narathiwat Province and Pattani Province are not included.

## Tree Stem (per-ha), Tree Volume (per-ha) of The Country

| Forest Type | North |  | North-East |  | Central |  | South |  | East |  | Total (Country) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Density | Volume | Density | Volume | Density | Volume | Density | Volume | Density | Volume | Density | Volume |
|  | (trees/ha) | (cu.m/ha) | (trees/ha) | (cu.m/ha) | (trees/ha) | (cu.m/ha) | (trees/ha) | (cu.m/ha) | (trees/ha) | (cu.m/ha) | (trees/ha) | (cu.m/ha) |
| Tropical Evergreen Forest | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 684 | 190.66 | 1,114 | 118.84 | 691 | 189.55 |
| Dry Evergreen Forest | 404 | 102.92 | 770 | 129.50 | 795 | 101.30 | 0 | 0.00 | 490 | 142.19 | 547 | 116.30 |
| Hill Evergreen Forest | 548 | 114.07 | 1,159 | 228.06 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 581 | 120.25 |
| Pine Forest | 555 | 128.11 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 555 | 128.11 |
| Fresh Water Swamp Forest | 87 | 4.85 |  | 0.00 |  | 0.00 | 651 | 29.87 | 0 | 0.00 | 538 | 24.87 |
| Mangrove Forest Plantation | 0 | 0.00 | 10 | 0.00 | 907 | 20.67 | 0 | 0.00 | 0 | 0.00 | 907 | 20.67 |
| Swamp Forest | 0 | 0.00 | 277 | 41.32 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 277 | 41.32 |
| Beach Forest | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 630 | 43.16 | 0 | 0.00 | 630 | 43.16 |
| Mixed Deciduous Forest | 323 | 75.00 | 480 | 71.19 | 296 | 60.51 | 210 | 38.78 | 341 | 105.73 | 343 | 73.33 |
| Dry Dipterocarp Forest | 727 | 93.24 | 707 | 73.17 | 818 | 67.13 | 0 | 0.00 | 728 | 62.33 | 726 | 86.48 |
| Forest Plantation | 433 | 51.61 | 371 | 15.50 | 213 | 35.45 | 293 | 80.64 | 794 | 33.60 | 438 | 41.50 |
| Disturbed Forest | 222 | 22.37 | 222 | 24.28 | 141 | 8.20 | 151 | 24.25 | 173 | 20.68 | 208 | 21.77 |
| Average | 444 | 83.88 | 587 | 78.21 | 453 | 67.58 | 637 | 171.31 | 493 | 117.66 | 486 | 88.84 |

Remark : Yala Province, Narathiwat Province and Pattani Province are not included.

## Total Tree Volume of The Country (cu.m.) by Forest Type

Forest Type
ป่าดิบชึ้น (Tropical Evergreen Forest)
ป่าดิบแล้ง (Dry Evergreen Forest)
ป่าดิบเขา (Hill Evergreen Forest)
ป่าสนเขา (Pine Forest)
ป่าพรุหรือป่าบึงน้ำจืด (Fresh Water Swamp Forest)
สวนป่าชายเลน (Mangrove Forest Plantation)
ป่าบุ่ง ป่าทาม (Swamp Forest)
ป่าชายหาด (Beach Forest)
ป่าเบญจพรรณ (Mixed Deciduous Forest)
ป่าเต็งรัง (Dry Dipterocarp Forest)
สวนป่า (Forest Plantation)
ป่าเสื่อมโทรม (Disturbed Forest)

| Volume (cu.m) | SE \% |
| :---: | :---: |
| $242,882,980.12$ | 22.85 |
| $286,760,438.40$ | 13.98 |
| $62,800,493.84$ | 12.97 |
| $7,982,056.26$ | 37.25 |
| $1,469,666.52$ | 159.12 |
| $226,345.31$ | 0.00 |
| $685,479.21$ | 808.62 |
| $172,416.34$ | - |
| $514,622,219.39$ | 9.11 |
| $264,443,623.98$ | 8.94 |
| $26,965,565.73$ | 31.94 |
| $8,410,079.84$ | 37.34 |

$1,417,421,364.94$

## Volume / Area (cu.m./Ha)

| ป่าดิบชึ้น (Tropical Evergreen Forest) | 189.55 | 30.33 |
| :--- | :---: | :---: |
| ป่าดิบแล้ง (Dry Evergreen Forest) | 116.30 | 18.61 |
| ป่าดิบเขา (Hill Evergreen Forest) | 120.25 | 19.24 |
| ป่าสนเขา (Pine Forest) | 128.11 | 20.50 |
| ป่าพรุหรือป่าบึงน้ำจืด (Fresh Water Swamp Forest) | 24.87 | 3.98 |
| สวนป่าชายเลน (Mangrove Forest Plantation) | 20.67 | 3.31 |
| ป่าบุ่ง ป่าทาม (Swamp Forest) | 41.32 | 6.61 |
| ป่าชายหาด (Beach Forest) | 43.16 | 6.91 |
| ป่าเบญจพรรณ (Mixed Deciduous Forest) | 73.33 | 11.73 |
| ป่าเต็งรัง (Dry Dipterocarp Forest) | 86.48 | 13.84 |
| สวนป่า (Forest Plantation) | 41.50 | 6.64 |
| ป่าเสื่อมโทรม (Disturbed Forest) | 21.77 | 3.48 |
| เฉลี่ย (Average) | $\mathbf{8 8 . 8 4}$ | $\mathbf{1 4 . 2 1}$ |

## Total Tree Volume in North of Thailand (cu.m.) by Forest Type

## ชนิดป่า (Forest Type)

| Volume (cu.m) |
| :---: |
| $115,160,052.90$ |
| $56,855,722.74$ |
| $7,982,056.26$ |
| $37,751.13$ |
| $350,867,213.89$ |
| $194,851,872.90$ |
| $12,192,648.82$ |
| $3,251,551.82$ |
| $\mathbf{7 4 1 , 1 9 8 , 8 7 0 . 4 7}$ |

ป่าดิบแล้ง (Dry Evergreen Forest)
ป่าดิบเขา (Hill Evergreen Forest)
ป่าสนเขา (Pine Forest)
ป่าพรุหรือป่าบึงน้ำจืด (Fresh Water Swamp Forest)
ป่าเบญจพรรณ (Mixed Deciduous Forest)
ป่าเต็งรัง (Dry Dipterocarp Forest) สวนป่า (Forest Plantation)
ป่าเสื่อมโทรม (Disturbed Forest)
รวม (Total)

## Volume / Area (cu.m./Ha) in North of Thailand

## Forest Type

Volume (cu.m/ha) Volume (cu.m/rai)

| ป่าดิบแล้ง (Dry Evergreen Forest) | 102.92 | 16.47 |
| :--- | :---: | :---: |
| ป่าดิบเขา (Hill Evergreen Forest) | 114.07 | 18.25 |
| ป่าสนเขา (Pine Forest) | 128.11 | 20.50 |
| ป่าพรุหหืออ่าบึงน้ำจืด (Fresh Water Swamp Forest) | 4.85 | 0.78 |
| ป่าเบญจพรรณ (Mixed Deciduous Forest) | 75.00 | 12.00 |
| ป่าเต็งรัง (Dry Dipterocarp Forest) | 93.24 | 14.92 |
| สวนป่า (Forest Plantation) | 51.61 | 8.26 |
| ป่าเสื่อมโทรม (Disturbed Forest) | 22.37 | 3.58 |
| เฉลี่ย (Average) | $\mathbf{8 3 . 8 8}$ | $\mathbf{1 3 . 4 2}$ |

## Total Tree Volume in Central of Thailand (cu.m.) by Forest Type

## Forest Type

Volume (cu.m)
SE \%

| $45,491,025.14$ | 48.47 |
| :---: | :---: |
| $226,345.31$ | - |
| $76,435,716.45$ | 27.61 |
| $13,724,278.96$ | 34.64 |
| $2,588,818.95$ | 260.75 |
| $449,152.71$ | 74.52 |

ป่าเบญจพรรณ (Mixed Deciduous Forest)
ป่าเต็งรัง (Dry Dipterocarp Forest) สวนป่า (Forest Plantation) ป่าเสื่อมโทรม (Disturbed Forest) รวม (Total)
$138,915,337.53$

## Volume / Area (cu.m./Ha) in Central of Thailand

## Forest Type

Volume (cu.m/ha) Volume (cu.m/rai)

ปไาดิบแล้ง (Dry Evergreen Forest)
ป่าดิบเขา (Hill Evergreen Forest)
สวนป่าชายเลน (Mangrove Forest Plantation)
ป่าเบญจพรรณ (Mixed Deciduous Forest)
ป่าเด็งรัง (Dry Dipterocarp Forest)
สวนป่า (Forest Plantation)
ป้าเสื่อมโทรม (Disturbed Forest) เฉลี่ย (Average)
101.30
0.00
20.67
60.51
67.13
35.45
8.20
67.58
10.81

## Total Tree Volume in East of Thailand (cu.m.) by Forest Type

## Forest Type

| Volume (cu.m) | SE\% |
| :---: | :---: |
| $1,432,583.54$ | 17.97 |
| $67,187,671.97$ | 23.01 |
| $20,136,519.08$ | 53.29 |
| $901,670.16$ | 359.39 |
| $2,754,173.78$ | 115.44 |
| $348,996.28$ |  |

Total
92,761,614.80

## Volume / Area (cu.m./Ha) in East of Thailand

## Forest Type

Volume (cu.m/ha) Volume (cu.m/rai)

| ป่าดิบชึ้น (Tropical Evergreen Forest) | 118.84 | 19.01 |
| :--- | :---: | :---: |
| ป่าดิบแล้ง (Dry Evergreen Forest) | 142.19 | 22.75 |
| ป่าเบญจพรรณ (Mixed Deciduous Forest) | 105.73 | 16.92 |
| ป่าเต็งรัง (Dry Dipterocarp Forest) | 62.33 | 9.97 |
| สวนป่า (Forest Plantation) | 33.60 | 5.38 |
| ป่าเสื่อมโทรม (Disturbed Forest) | 20.68 | 3.31 |
| เฉลี่ย (Average) | $\mathbf{1 1 7 . 6 6}$ | $\mathbf{1 8 . 8 3}$ |

## Total Tree Volume in North-East of Thailand (cu.m.) by Forest Type

## Forest Type

Volume (cu.m)
SE\%
ป่าดิบแล้ง (Dry Evergreen Forest) ป่าดิบเขา (Hill Evergreen Forest) ป่าบุ่ง ป่าทาม (Swamp Forest) ป่าเบญจพรรณ (Mixed Deciduous Forest) ป่าเต็งรัง (Dry Dipterocarp Forest) สวนป่า (Forest Plantation) ป่าเสื่อมโทรม (Disturbed Forest)

Total

| $58,921,688.39$ | 18.47 |
| :---: | :---: |
| $5,944,771.10$ | 449.23 |
| $685,479.21$ | 808.62 |
| $65,788,500.81$ | 18.04 |
| $54,965,801.96$ | 14.87 |
| $2,020,674.57$ | 120.93 |
| $3,682,365.04$ | 57.18 |

192,009,281.08

## Volume / Area (cu.m./Ha) in North-East of Thailand

## Forest Type

ป่าดิบแล้ง (Dry Evergreen Forest) ป่าดิบเขา (Hill Evergreen Forest) ป่าบุ่ง ป่าทาม (Swamp Forest) ป่าเบญจพรรณ (Mixed Deciduous Forest) ป่าเต็งรัง (Dry Dipterocarp Forest) สวนป่า (Forest Plantation)
ป่าเสื่อมโทรม (Disturbed Forest)
เฉลี่ย (Average)

Volume (cu.m/ha)
129.50
20.72
228.06
41.32
71.19
11.39
73.17
15.50
2.48
24.28
3.88
78.21
12.51

## Total Tree Volume in South of Thailand (cu.m.) by Forest Type

## Forest Type

ป่าดิบชื้น (Tropical Evergreen Forest)
ป่าพรุหรือป่าบึงน้ำจืด (Fresh Water Swamp Forest)
ป่าชายหาด (Beach Forest)

| Volume (cu.m) | SE \% |
| :---: | :---: |
| $241,450,396.59$ | 24.02 |
| $1,431,915.39$ | 223.57 |
| $172,416.34$ | - |
| $1,394,269.16$ | 0.00 |
| $7,409,249.61$ | 86.92 |
| $678,013.99$ | 62.89 |

Total
252,536,261.07

## Volume / Area (cu.m./Ha) in South of Thailand

## Forest Type

| ป่าดิบขึ้น (Tropical Evergreen Forest) | 190.66 | 30.51 |
| :--- | :---: | :---: |
| ป่าพรุหรือป่าบึงน้ำจืด (Fresh Water Swamp Forest) | 29.87 | 4.78 |
| ป่าชายหาด (Beach Forest) | 43.16 | 6.91 |
| ป่าเบญจพรรณ (Mixed Deciduous Forest) | 38.78 | 6.20 |
| สวนป่า (Forest Plantation) | 80.64 | 12.90 |
| ป่าเสื่อมโทรม (Disturbed Forest) | 24.25 | 3.88 |
| เฉลี่ย (Average) | $\mathbf{1 7 1 . 3 1}$ | $\mathbf{2 7 . 4 1}$ |

## Total Volume of Protected Area

| Forest Type | Noth |  | Noth - East |  | Central |  | South |  | East |  | Total (Country) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tres | Volume (cum.) | Trees | Volume (cum.) | Trees | Volume(cum.) | Tres | Volume (cum. | Trees | Volume (cum. | Trees | Volume (cum. |
| Tropical Evergreen Forest | . | - | . | . | . | . | 654,893, 809 | 183,198,63979 | 18,12, 503 | 1,468,128.81 | 673,021,312 | 188,66,7882,60 |
| Dy Evergrien Forest | 421,23, 849 | 121,477,54.32 | 417,801,17 | 91,900, 86.55 | 222,56,541 | 33,775,57.13 | - | - | 200,211,395 | 71,481,478.40 | 1,311,826,922 | 318,675,366.40 |
| Hill Vergrien Fovest | 123,30,786 | 32,266,869,30 | 41,731,022 | 8,466,341.87 | - | . | - | . | . | . | 165,035,08 | 40,693,188.17 |
| Pine Forest | 24,50, 895 | 4,054,796.28 | . | - | . | . | - | - | . | . | 24,50, 895 | 4,054,796.28 |
| Fresh Water Svamp Forest | 981,96 | 54,918,76 | . | . | . | . | 17,477122 | 945,625.85 | . | . | 18,42,628 | 1,000,54.61 |
| Swamp Forest | . | . | 4,229,751 | 779,597.12 | . | . | . | . | . | . | 4,229,51 | 779,597.12 |
| Mxeed Decidious Forest | 911,171,381 | 266,560,032.88 | 287,899,60 | 58,688,87,63 | 146,568,414 | 48,664,492.93 | 4,305,282 | 1,247,666.65 | 54,04,852 | 18,378,66,34 | 1,403,899,50 | 391,488,414, |
| Ory Diperocap Forest | 781,333,142 | 124,826,518.16 | 242,002,64 | 35,315,386,12 | 44,752, 73 | 4,072,175,78 |  |  |  |  | 1,068,087,59 | 164,214,0800, 0 |
| Forest Paration | 9,479,173 | 3,295,50,53 |  |  |  |  | 9,970,127 | 2,327,63,79 | 10,94, 267 | 1,561,122.18 | 30,36,567 | 7,184,636.49 |
| Disurbed Forest | 1,699,45 | 531,600.81 | 3,26,501 | 408,883.96 |  |  |  |  |  |  | 5,34,554 | 900,564,76 |
| Total | 2,273,171,586 | 551,037,078,44 | 997,239,255 | 195,179,503,25 | 433,897,228 | 86,812,205,84 | 686,616,939 | 187,19,676,08 | 303,258,018 | 92,889,507,73 | 4,704,72,025 | 1,113,637,971,34 |

Remark : Yala Province, Narathiwat Province and Pattani Province are not include.

## Tree Stem (per-ha), Tree Volume (per-ha) of Protected Area

| Forest Type | North |  | North - East |  | Central |  | South |  | East |  | Total (Country) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Density } \\ & \text { (trees/ha) } \end{aligned}$ | $\begin{aligned} & \text { Volume } \\ & \text { (cu.m./ha) } \end{aligned}$ | Density (trees/ha) | $\begin{aligned} & \text { Volume } \\ & \text { (cu,m./ha) } \end{aligned}$ | Density (trees/ha) | $\begin{aligned} & \text { Volume } \\ & \text { (cu,m./ha) } \end{aligned}$ | Density (tress/ha) | Volume (cu.m./ha) | Density (tress/ha) | Volume (cu.m./ha) | Density (trees/ha) | $\begin{aligned} & \text { Volume } \\ & \text { (cu,m./ha) } \end{aligned}$ |
| Tropical Evergreen Forest | - | - | - | - | - | - | 714 | 199.63 | 1,200 | 97.19 | 721 | 197.97 |
| Dry Evergreen Forest | 416 | 120.02 | 601 | 132.31 | 796 | 106.47 | - | . | 511 | 166.03 | 534 | 129.82 |
| Hill Evergreen Forest | 495 | 129.29 | 1,228 | 249.09 | - | - | - | - | - | - | 583 | 143.67 |
| Pine Forest | 590 | 97.61 | - | - | - | - | - | - |  | - | 590 | 97.61 |
| Fresh Water Swamp Forest | 87 | 4.85 | - | - | - | - | 924 | 50.08 | - | - | 610 | 33.12 |
| Swamp Forest | - |  | 280 | 51.61 | - | - | 228 | 66.07 | - | - | 280 | 51.61 |
| Mixed Deciduous Forest | 295 | 85.64 | 485 | 98.27 | 240 | 80.03 |  | - | 386 | 131.53 | 315 | 87.91 |
| Dry Dipterocarp Forest | 635 | 101.39 | 668 | 97.41 | 658 | 59.90 | - | - | - | - | 643 | 98.82 |
| Forest Plantation | 359 | 124.67 | - | - | - | - | 528 | 123.27 | 578 | 82.67 | 473 | 111.91 |
| Disturbed Forest | 113 | 35.20 | 120 | 13.53 | - | - | - | - | - | - | 118 | 20.75 |
| Average | 401 | 97.08 | 577 | 112.84 | 445 | 87.07 | 705 | 192.66 | 502 | 153.73 | 471 | 111.57 |

Remark: Yala Province, Narathiwat Province and Pattani Province are not include.

## Total Stock of National Parks

| Foestipe | Noth |  | Noth -axt |  | Central |  | South |  | East |  | Total (Contry) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Treas | Volume (aum) | Tres | Volume (aum) | Tres | Volume(am.m) | Tres | Volume (aum.) | Tres | Volume (amm) | Tres | Volume (umm) |
| Tropical liggeerforest | . |  | . |  | . | . | 26,9917, 171 | 70,1588098 | 17,60,113 | 14077,9932 | 20,979,44 | 71,56,70,30 |
| Dyplegreenfouest | 283,844824 | 87224,401.3 | 26,1,59487 | 60,87, 88, 0, 6 | 228,717,877 | 31,40,54,17 | . | . | 126,324,416 | 35,923,71.137 | 915,94,54 | 24,5,5,030363 |
| Hilliegreen Foest | 71,24,9,94 | 19,268830, 9 | . | . | . |  |  |  |  |  | 71,41,934 | 19,24,883, ${ }^{\text {a }}$ |
| Pin Forest | 15,05, 785 | 278,1/1717.81 | . | . | . | . | . | . |  |  | 15,95, 785 | 2,713, 171.81 |
| Fresi Ulates Slamp Foest | 9594,64 | 53411.18 | . | . | . | . | . | . |  |  | 954,64 | 534,11888 |
| Mreedocidus Fouest | 54,4,9,411 | 145,55, 60, 36 | 171,66699 | 33,12,84,71 | 112,66,488 | 37,998,88, 3 | 4,18,152 | 1,2,13,413,3] | 12,98,750 | 7,162,15.83 | 85,221,49 | 24,4,4,70,0,66 |
| Dypjitecarap foest | 336,884,69 | 66,121,01, 15 | 171599933 | 26,882,86,10 | 2,179,58 | 2,120, 2771.13 |  | . |  | - | 59,5637,60 | 95,15,20:18 |
| FoustParation | 6,50,104 | 29772,56.49 |  |  | . |  | 9,965,52 | 2,668989,68 |  |  | 16,197667 | 5,237,501. |
| Distreal foest | 1,62,833 | 51, 21234 | 3,42,564 | 366,45, 36 | . |  |  |  |  |  | 5,10,587 | 91.5377 .69 |
| Total | 1,296,584,65 | 344,431,763.34 | 619,908,83 | 121,24,999883 | 378,019013 | 70,660,60,84 | 275,801,08 | 73,36,177.89 | 156,811,29 | 43, 222178452 | 2,769,94,504 | 633,56,243,17 |

## Tree Stem (per-ha), Tree Volume (per-ha) of National Parks

| Forest Type | North |  | North - East |  | Central |  | South |  | East |  | Total (Country) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Density (trees/ha) | Volume (cu.m./ha) | Density (trees/ha) | Volume (cu.m./ha) | Density (trees/ha) | Volume (cu.m./ha) | Density (trees/ha) | Volume (cu.m./ha) | Density (trees/ha) | Volume (cu.m./ha) | Density (trees/ha) | Volume (cu.m./ha) |
| Tropical Evergreen Forest | - | - | - | - | - | - | 631 | 169.04 | 1,200 | 97.19 | 651 | 166.58 |
| Dry Evergreen Forest | 394 | 121.16 | 543 | 123.61 | 823 | 108.36 | - | - | 537 | 149.03 | 527 | 123.49 |
| Hill Evergreen Forest | 568 | 141.69 | - | - | - | - | - | - | - | - | 568 | 141.69 |
| Pine Forest | 685 | 123.94 | - | - | - | - | - | - | - | - | 685 | 123.94 |
| Fresh Water Swamp Forest | 87 | 4.85 | - | - | - | - | - | - | - | - | 87 | 4.85 |
| Mixed Deciduous Forest | 298 | 82.73 | 502 | 96.98 | 256 | 84.86 | 228 | 66.07 | 320 | 177.27 | 318 | 86.32 |
| Dry Dipterocarp Forest | 602 | 102.87 | 653 | 98.91 | 740 | 58.01 | - | - | - | - | 622 | 100.01 |
| Forest Plantation | 295 | 134.92 | - | - |  | - | 528 | 123.27 | - | - | 401 | 129.62 |
| Disturbed Forest | 113 | 35.20 | 134 | 15.42 | - | - | - | - | - | - | 126 | 22.61 |
| Average | 390 | 97.49 | 548 | 107.18 | 495 | 92.49 | 610 | 162.99 | 541 | 150.34 | 457 | 106.22 |

## Total Stock of Wildilife Sanctuary

| Forest Type | Noth |  | Noth East |  | Central |  | South |  | East |  | Total (Country) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tres | Volume (aum.) | Tres | Voume(cum.) | Tres | Volume(cum.) | Tres | Volume(cum.) | Tres | Volume(cumm) | Tres | Voume(cum.) |
| Tropid Eliegreen Forest | . | . | . | . | . | . | 422,65, 125 | 127,494801.02 | . | . | 42,645,125 | 127,94,801.02 |
| Op Elergreen Forest | $1111,818,271$ | 27,318,972,51 | 142,466,37 | 29,22, 28.308 | 17121,965 | 3,799,82,42 | . | . | 680,50,667 | 26,899,188.86 | 339,22, 8, 80 | 87,26,511.96 |
| Hill liegreen Foest | 37,709,688 | 10,680, 18.57 | 41,499,627 | 8,418,900,9 | . | . | - | - | . | . | 79,007095 | 19,099,6095, |
| Pine Forest | 7,73,26 | 1,071,056.00 | . | . | . | . | . | . | . | . | 1,723,66 | 1,071,156.40 |
| Sump Forest | . | . | 4,26,094 | 75, 236.96 | . | . | . | . | . | . | 4,20,094 | 75, 233.96 |
| Mreed Deciduow Forest | 274,72,860 | 93,122,360.03 | 110,747,966 | 24,000,62, 97 | 87,54,391 | 30,316,23478 | . | . | 19,88,703 | 7,6888056,67 | 493,093,20 | 155,198,522.45 |
| On Dipercocarp Forest | 291,518,200 | 44,603, 298.84 | 47,84,323 | 6,235,772.36 | 47,99,041 | 5,267,220, 09 | . | . |  |  | 386,411,564 | 561,106093,30 |
| Forest Paration | 2,40, 164 | 205,039.74 | . | . | . | . | . | . | 8,76,886 | 1,188884433 | 10,678,39 | 1,388994407 |
| Disurued Fovest | . | - | 75,109 | 1,24687 |  |  |  |  |  |  | 75,109 | 1,24687 |
| Total | 125,306,888 | 177,000,500,0 | 346,717,457 | 68,724,13,18 | 151,931,397 | 39,371,299,29 | 42,645,125 | 127,998,801.02 | 96,601,85 | 35,664,208,96 | 1,763, 62,722 | 488,361,052,54 |

## Tree Stem (per-ha), Tree Volume (per-ha) of Wildilife Sanctuary

| Forest Type | North |  | North - East |  | Central |  | South |  | East |  | Total (Country) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Density (trees/ha) | Volume <br> (cu.m./ha) | Density (trees/ha) | Volume (cu.m./ha) | Density <br> (trees/ha) | Volume (cu.m./ha) | Density (trees/ha) | $\begin{aligned} & \text { Volume } \\ & \text { (cu.m./ha) } \end{aligned}$ | Density (trees/ha) | Volume (cu.m./ha) | Density (trees/ha) | Volume (cu.m./ha) |
| Tropical Evergreen Forest | - | - | - | - | - | - | 785 | 226.21 | - | - | 785 | 226.21 |
| Dry Evergreen Forest | 476 | 116.92 | 758 | 155.63 | 405 | 89.71 | - | - | 478 | 187.79 | 555 | 147.43 |
| Hill Evergreen Forest | 401 | 113.48 | 1,228 | 249.09 | - | - | - | - | - | - | 597 | 145.60 |
| Pine Forest | 476 | 66.01 | - | - | - | - | - | - | - | - | 476 | 66.01 |
| Swamp Forest | - | - | 280 | 51.61 | - | - | - | - | - | - | 280 | 51.61 |
| Mixed Deciduous Forest | 285 | 96.62 | 461 | 100.15 | 193 | 66.68 | - | - | 301 | 116.72 | 303 | 95.22 |
| Dry Dipterocarp Forest | 691 | 105.72 | 749 | 97.67 | 556 | 62.27 | - | - |  | - | 690 | 102.60 |
| Forest Plantation | 740 | 63.18 | - | - | - | - | - | - | 578 | 82.67 | 605 | 79.43 |
| Disturbed Forest | - | - | 20 | 0.33 | - | - | - | - |  | - | 20 | 0.33 |
| Average | 419 | 102.14 | 637 | 126.21 | 261 | 67.72 | 785 | 226.21 | 432 | 160.10 | 495 | 125.76 |

## Total Stock of Wildife Non-hunting Area

| Forestipe | Noth |  | Noth - East |  | Central |  | South |  | East |  | Total (Coutry) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Trees | Voume(amm) | Trees | Volume (cumm) |  | Voume (cumin) | Treas | Volume (cum. | Tress | Voune (cum.m) | Trees | Volume (cumm) |
| Dy Elegreen Foeest | . | . | . |  | 7,271750 | 715,58799 | . |  |  | . | 7,271750 | 715,577,99 |
| Frest Water Suamp Foest | . |  |  |  | . |  | 233, 1071784 | 12.578, 21.18 |  |  | 231, 107,784 | 12,580, 1.196 |
| Mreel Deidulus Foeest | 13,3867,13 | 1.68, 122.80 | . |  | . |  |  | . | 5,00,993 | 31.511121 | 18,580776 | 1,90,344.11 |
| On Diptecarap Foest | 11,30, 160 | 1,266271.28 | 36,616,200 | 4,55, 127.63 |  |  |  |  |  |  | 47,96,30 | 5,800.3989,91 |
| Total | 24,766,872 | 2,944,394,19 | 36,96, 200 | 4,535,12, 63 | 1,171,50 | 715,587,99 | $2311,707,84$ | 12,558,01.96 | 5,101,993 | 312,511.21 | 305,50,600 | 21,065,64 |

## Tree Stem (per-ha), Tree Volume (per-ha) of Wildilife Non-hunting Area

| Forest Type | North |  | North - East |  | Central |  | South |  | East |  | Total (Country) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Density (trees/ha) | Volume <br> (cu.m./ha) | Density (trees/ha) | Volume <br> (cu.m./ha) | Density (trees/ha) | Volume <br> (cu.m./ha) | Density (trees/ha) | Volume <br> (cu.m./ha) | Density (trees/ha) | Volume (cu.m./ha) | Density (trees/ha) | Volume (cu.m./ha) |
| Dry Evergreen Forest | - | - | - | - | 250 | 24.58 | - | - | - | - | 250 | 24.58 |
| Fresh Water Swamp Forest | - | - | - | - | - | - | 924 | 50.08 | - | - | 924 | 50,08 |
| Mixed Deciduous Forest | 329 | 41.22 | - | - | - | - | - | - | 1,287 | 77.30 | 393 | 43.62 |
| Dry Dipterocarp Forest | 559 | 62.21 | 600 | 74.31 | - | - | - | - | - | - | 567 | 64.53 |
| Average | 406 | 48.21 | 600 | 74.31 | 250 | 24.58 | 924 | 50,08 | 1,287 | 77,30 | 484 | 50.86 |

## Permanent Plots (Plot C)

| Forest Type | Density |  | Volume |  | Total |  |
| :--- | ---: | ---: | ---: | ---: | ---: | :---: |
|  | Trees/rai Trees/ha | cu.m. $/$ rai | cu.m./ha | Trees | Volume |  |
| Tropical Evergreen Forest | 144 | 898 | 34.56 | 216.03 | $763,352,090$ |  |

## All Plots (Plot C,N/E,S,W)

| Forest Type | Density |  | Volume |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Trees/rai | Trees/ha | cu.m./rai | cu.m./ha | Trees | Volume |
| Tropical Evergreen Forest | 111 | 691 | 30.33 | 189.55 | 609,436,558 | 167,173,486,64 |
| Dry Evergreen Forest | 88 | 547 | 18.61 | 116.30 | 1,412,495,903 | 300,071,679.68 |
| Hill Evergreen Forest | 93 | 581 | 19.24 | 120.25 | 323,179,413 | 66,859,694.68 |
| Pine Forest | 89 | - 555 | 20.50 | 128.11 | 36,484,022 | 8,421,845.24 |
| Fresh Water Swamp Forest | 86 | 538 | 3.98 | 24.87 | 22,104,059 | 1,021,596.91 |
| Mangrove Forest | 145 | 907 | 3.31 | 20.67 | 7,450,191 | 169,808.50 |
| Swamp Forest | 44 | 277 | 6.61 | 41.32 | 5,313,739 | 792,324.63 |
| Beach Forest | 101 | 630 | 6.91 | 43.16 | 1,725,596 | 118,214.01 |
| Mixed Deciduous Forest | 55 | 343 | 11.73 | 73.33 | 2,465,903,569 | 527,418,721.91 |
| Dry Dipterocarp Forest | 116 | 726 | 13.84 | 86.48 | 2,355,355,886 | 280,441,578.14 |
| Forest Plantation | 70 | 438 | 6.64 | 41.50 | 267,713,839 | 25,351,304.66 |
| Disturbed Forest | 33 | 208 | 3.48 | 21.77 | 84,937,652 | 8,885,365.92 |
| Total |  |  |  |  | 7,592,100,427 | 1,386,725,620.92 |
| Average | 78 | 486 | 14.21 | 88.84 |  |  |

## Permanent Plots (Plot C) vs All Plots (Plot C,N,E,S,W)

| Forest Type | Density |  |  |  | Volume |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Trees/rai |  | Trees/ha |  | cu.m./rai |  | cu.m./ha |  |
|  | plot C | All plots | plot C | All plots | plot C | All plots | plot C | All plots |
| Tropical Evergreen Forest | 144 | 111 | 898 | 691 | 34.56 | 30.33 | 216.03 | 189.55 |
| Dry Evergreen Forest | 105 | 88 | 655 | 547 | 21.61 | 18.61 | 135.03 | 116.30 |
| Hill Evergreen Forest | 117 | 93 | 734 | 581 | 19.95 | 19.24 | 124.66 | 120.25 |
| Pine Forest | 87 | 89 | 542 | 555 | 24.43 | 20.50 | 152.70 | 128.11 |
| Fresh Water Swamp Forest | 84 | 86 | 523 | 538 | 4.22 | 3.98 | 26.38 | 24.87 |
| Mangrove Forest | 194 | 145 | 1,210 | 907 | 4.31 | 3.31 | 26.95 | 20.67 |
| Swamp Forest | 55 | 44 | 345 | 277 | 4.97 | 6.61 | 31.05 | 41.32 |
| Beach Forest | 22 | 101 | 140 | 630 | 4.50 | 6.91 | 28.12 | 43.16 |
| Mixed Deciduous Forest | 62 | 55 | 390 | 343 | 13.24 | 11.73 | 82.75 | 73.33 |
| Dry Dipterocarp Forest | 129 | 116 | 808 | 726 | 15.04 | 13.84 | 93.98 | 86.48 |
| Forest Plantation | 82 | 70 | 512 | 438 | 9.56 | 6.64 | 59.73 | 41.50 |
| Disturbed Forest | 39 | 33 | 245 | 208 | 3.85 | 3.48 | 24.09 | 21.77 |
| Average | 90 | 78 | 560 | 486 | 16.04 | 14.21 | 100.23 | 88.84 |

## Tree Stem (per-ha), Tree Volume (per-ha) of Non-Protected Area

| Forest Type | North |  | North - East |  | Central |  | South |  | East |  | Total (Country) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Density <br> (trees/ha) | Volume <br> (cu.m./ha) | Density <br> (trees/ha) | Volume <br> (cu.m./ha) | Density <br> (trees/ha) | Volume <br> (cu.m./ha) | Density <br> (trees/ha) | Volume (cu.m./ha) | Density <br> (tress/ha) | Volume <br> (cu.m./ha) | Density <br> (trees/ha) | Volume <br> (cu.m./ha) |
| Tropical Evergreen Forest | - | - | - | - | - | - | 572 | 145.06 | - | - | 572 | 145.06 |
| Dry Evergreen Forest | 482 | 71.10 | 806 | 102.53 | 856 | 98.52 | - | - | 671 | 49.71 | 629 | 83.21 |
| Hill Evergreen Forest | 572 | 103.85 | 850 | 133.44 | - | - | - | - | - |  | 576 | 104.34 |
| Pine Forest | 570 | 155.42 | - | - | - | - | - | - | - | - | 570 | 155.42 |
| Fresh Water Swamp Forest | - | - | - | - | - | - | 456 | 15.43 | - | - | 456 | 15.43 |
| Mangrove Forest | - | - | - | - | 907 | 20.67 | - | - | - | - | 907 | 20.67 |
| Swamp Forest | - | - | 273 | 27.61 | - | - | - | - | - | - | 273 | 27.61 |
| Mixed Deciduous Forest | 371 | 64.04 | 487 | 56.30 | 341 | 47.74 | 188 | 4.66 | 339 | 66.48 | 385 | 60.04 |
| Dry Dipterocarp Forest | 796 | 84.80 | 723 | 59.70 | 894 | 70.55 |  |  | 752 | 56.33 | 778 | 76.18 |
| Forest Plantation | 429 | 45.22 | 371 | 15.50 | 213 | 35.45 | 228 | 68.79 | 831 | 25.14 | 431 | 35.52 |
| Disturbed Forest | 230 | 21.38 | 245 | 26.90 | 136 | 7.47 | 151 | 24.25 | 87 | 11.07 | 219 | 22.36 |
| Average | 510 | 71.51 | 574 | 56.83 | 454 | 53.17 | 467 | 111.23 | 577 | 42.88 | 519 | 67.08 |



