

## Vietnam Forest Facts and Figures

39.7% —or about 12,931,000 hectares—of Viet Nam is forested. Of this, 0.7% —or roughly 85,000 hectares—is classified as primary forest, the most biodiverse form of forest.

**Change in Forest Cover:** Between 1990 and 2000, Viet Nam gained an average of 236,200 hectares of forest per year. The amounts to an average annual reforestation rate of 2.52%. Between 2000 and 2005, the rate of forest change decreased by 18.5% to 2.06% per annum. In total, between 1990 and 2005, Viet Nam gained 38.1% of its forest cover, or around 3,568,000 hectares. Viet Nam lost - 299,000 hectares—1—of its primary forest cover during that time. Deforestation rates of primary cover have decreased 77.9% since the close of the 1990s. Measuring the total rate of habitat conversion (defined as change in forest area plus change in woodland area minus net plantation expansion) for the 1990-2005 interval, Viet Nam gained 48.8% of its forest and woodland habitat.

**Biodiversity and Protected Areas:** Viet Nam has some 1534 known species of amphibians, birds, mammals and reptiles according to figures from the World Conservation Monitoring Centre. Of these, 8.2% are endemic, meaning they exist in no other country, and 7.9% are threatened. Viet Nam is home to at least 10500 species of vascular plants, of which 12.0% are endemic. 3.4% of Viet Nam is protected under IUCN categories I-V.

### Viet Nam: Forest Cover, 2005

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|                                       |            |
|---------------------------------------|------------|
| <b>Total Land Area (ha)</b>           | 32,549,000 |
| <b>Total Forest Area (ha)</b>         | 12,931,000 |
| <b>Percent Forest Cover</b>           | 39.73%     |
| <b>Primary Forest Cover (ha)</b>      | 85,000     |
| <b>Primary Forest, % total forest</b> | 0.66%      |
| <b>Primary Forest, % total land</b>   | 0.26%      |
| <b>Other wooded land (ha)</b>         | 2,259,000  |

### Viet Nam : Forest types

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|                                     |     |
|-------------------------------------|-----|
| <b>Tropical (% forest area)</b>     | 98% |
| <b>Subtropical (% forest area)</b>  | 2%  |
| <b>Temperate (% forest area)</b>    | 0%  |
| <b>Boreal/polar (% forest area)</b> | 0%  |

### Viet Nam: Breakdown of forest types, 2005

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|                                       |            |       |
|---------------------------------------|------------|-------|
| <b>Primary forest (ha   %)</b>        | 85,000     | 0.7%  |
| <b>Modified natural (ha   %)</b>      | 10,151,000 | 78.5% |
| <b>Semi-natural (ha   %)</b>          | -          | -     |
| <b>Production plantation (ha   %)</b> | 1,792,000  | 13.9% |
| <b>Production plantation (ha   %)</b> | 903,000    | 7.0%  |

## Viet Nam: Change in Forest Cover

### TOTAL FOREST COVER

|                                  |           |            |
|----------------------------------|-----------|------------|
| Forest 1990 (ha)                 |           | 9,363,000  |
| Forest 2000 (ha)                 |           | 11,725,000 |
| Forest 2005 (ha)                 |           | 12,931,000 |
| Annual Change 1990-2000 (ha   %) | 236,200   | 2.52%      |
| Annual Change 2000-2005 (ha   %) | 241,200   | 2.06%      |
| Total Change 1990-2005 (ha   %)  | 3,568,000 | 38.11%     |
| Change in rate (%)               |           | -18.45%    |

### PRIMARY FOREST COVER

|                                  |           |         |
|----------------------------------|-----------|---------|
| Primary 1990 (ha)                |           | 384,000 |
| Primary 2000 (ha)                |           | 187,000 |
| Primary 2005 (ha)                |           | 85,000  |
| Annual Change 1990-2000 (ha   %) | (19,700)  | -5.13%  |
| Annual Change 2000-2005 (ha   %) | (20,400)  | -10.91% |
| Total Change 1990-2005 (ha   %)  | (299,000) | -77.86% |
| Change in rate (%)               |           | 112.64% |

### OTHER WOODED LAND

|                                  |           |           |
|----------------------------------|-----------|-----------|
| Other 1990 (ha)                  |           | -         |
| Other 2000 (ha)                  |           | 1,816,000 |
| Other 2005 (ha)                  |           | 2,259,000 |
| Annual Change 1990-2000 (ha   %) | 181,600   | #DIV/0!   |
| Annual Change 2000-2005 (ha   %) | 88,600    | 4.88%     |
| Total Change 1990-2005 (ha   %)  | 2,259,000 | #DIV/0!   |
| Change in rate (%)               |           | #DIV/0!   |

### PLANTATIONS

|                                  |           |           |
|----------------------------------|-----------|-----------|
| Other 1990 (ha)                  |           | 967,000   |
| Other 2000 (ha)                  |           | 2,050,000 |
| Other 2005 (ha)                  |           | 2,695,000 |
| Annual Change 1990-2000 (ha   %) | 108,300   | 11.20%    |
| Annual Change 2000-2005 (ha   %) | 129,000   | 6.29%     |
| Total Change 1990-2005 (ha   %)  | 1,728,000 | 178.70%   |
| Change in rate (%)               |           | -43.81%   |

### TOTAL DEGRADATION/CONSERVSION

#### Forest area+Wooded Area-Plantations

|                                  |           |            |
|----------------------------------|-----------|------------|
| Other 1990 (ha)                  |           | 8,396,000  |
| Other 2000 (ha)                  |           | 11,491,000 |
| Other 2005 (ha)                  |           | 12,495,000 |
| Annual Change 1990-2000 (ha   %) | 309,500   | 3.69%      |
| Annual Change 2000-2005 (ha   %) | 200,800   | 1.75%      |
| Total Change 1990-2005 (ha   %)  | 4,099,000 | 48.82%     |
| Change in rate (%)               |           | -52.60%    |

#### Viet Nam: Primary

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##### Primary or "old-growth" vegetation

|                                           |        |
|-------------------------------------------|--------|
| Primary Forest 2005 (ha)                  | 85,000 |
| Other primary wooded land 2005 (ha)       | -      |
| Other primary wooded land 2005 (ha)       | 85,000 |
| Undisturbed vegetation 2005 (% land area) | 0.26%  |

#### Viet Nam: Forest designation

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##### Ownership of forest land, 2000

|             |       |
|-------------|-------|
| Public (%)  | 56.1% |
| Private (%) | 17.7% |
| Other (%)   | 26.1% |

##### Ownership of other wooded land, 2000

|             |   |
|-------------|---|
| Public (%)  | - |
| Private (%) | - |
| Other (%)   | - |

##### Designated functions of forest – primary function 2005

|                       |       |
|-----------------------|-------|
| Production (%)        | 39.8% |
| Protection (%)        | 45.5% |
| Conservation (%)      | 14.7% |
| Social Services (%)   | -     |
| Multiple Services (%) | -     |
| None of Unknown (%)   | -     |

#### Viet Nam: Protected areas

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|                                                      |       |
|------------------------------------------------------|-------|
| Protected areas ("Special Use Forests")              | 126   |
| Biosphere reserves, 2005                             | 4     |
| Wetlands of international importance (Ramsar sites), | 1     |
| World Heritage sites, 2004                           | 5     |
| Protected Areas: IUCN categories I-V, percent of     | 3.4%  |
| Protected Areas: IUCN categories Ia, Ib, and II,     | 0.80% |
| Protected Areas: IUCN categories III, IV, and V,     | 2.51% |
| Protected Areas: IUCN categories VI and other,       | 0.00% |

#### Viet Nam: Biodiversity - Wildlife

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##### Amphibians

|                 |     |
|-----------------|-----|
| total species   | 132 |
| endemic species | 37  |

|                           |      |
|---------------------------|------|
| threatened species        | 15   |
| <b>Birds</b>              |      |
| total species             | 837  |
| endemic species           | 29   |
| threatened species        | 41   |
| <b>Mammals</b>            |      |
| total species             | 279  |
| endemic species           | 8    |
| threatened species        | 41   |
| <b>Reptiles</b>           |      |
| total species             | 286  |
| endemic species           | 52   |
| threatened species        | 24   |
| <b>Wildlife diversity</b> |      |
| total species             | 1534 |
| endemic species           | 126  |
| threatened species        | 121  |

#### Viet Nam: Biodiversity - Plants

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|                                                 |        |
|-------------------------------------------------|--------|
| <b>Growing stock composition</b>                |        |
| 3 most common species                           | 7.20%  |
| <b>Growing stock composition</b>                |        |
| 3 most common species                           | 18.50% |
| <b>Number of Native tree species</b>            |        |
| Native tree species                             | 800    |
| <b>Number of tree species in IUCN red list</b>  |        |
| Critically Endangered                           | 25     |
| Endangered                                      | 36     |
| Vulnerable                                      | 85     |
| <b>Vascular Plant Species, 2004</b>             |        |
| Total                                           | 10500  |
| Number endemic                                  | 1260   |
| <b>Number of Threatened Plant Species, 2004</b> |        |
| Species threatened                              | 145    |

#### Viet Nam: Value of forests

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|                                      |       |
|--------------------------------------|-------|
| <b>Biomass stock in forest, 2005</b> |       |
| Above-ground biomass (M t)           | 1,893 |
| Below-ground biomass (M t)           | 455   |
| Dead wood (M t)                      | 258   |

|                                                |                      |
|------------------------------------------------|----------------------|
| <b>Total (M t)</b>                             | <b>2,606</b>         |
| <b>Carbon stock in forest, 2005</b>            |                      |
| Carbon in above-ground biomass (M t)           | 947                  |
| Carbon in below-ground biomass (M t)           | 227                  |
| Carbon in dead wood (M t)                      | 129                  |
| Carbon in litter (M t)                         | 27                   |
| Soil carbon (M t)                              | 623                  |
| <b>Change in growing stock 1990 - 2005</b>     |                      |
| <b>Annual change rate (1000 cubic m/yr)</b>    |                      |
| 1990-2000                                      | 13,570               |
| 2000-2005                                      | 11,183               |
| <b>Growing stock per hectare 1990 - 2005</b>   |                      |
| <b>Annual change rate ( cubic m/ha per yr)</b> |                      |
| 1990-2000                                      | -0.26                |
| 2000-2005                                      | -0.4                 |
| <b>Wood removal 2005</b>                       |                      |
| Industrial roundwood (1000 cubic m)            | 2,500                |
| Wood fuel (1000 cubic m)                       | 21,235               |
| Total wood removal 2005 (1000 cubic m)         | 23,735               |
| Total wood removal 2005 (% of growing          | 3                    |
| <b>Plant products 2005</b>                     |                      |
| Food (t)                                       | 1,337                |
| Fodder (t)                                     | -                    |
| Raw material for medicine and aromatic         | 4,343                |
| Raw material for colorants and dyes (t)        | -                    |
| Raw material for utensils, handicrafts &       | 23                   |
| Ornamental plants (t)                          | -                    |
| Exudates (t)                                   | 318,000              |
| Other plant products (t)                       | -                    |
| <b>Animal products 2005</b>                    |                      |
| Living animals (units)                         | -                    |
| Hides, skins and trophies (units)              | -                    |
| Wild honey and bee-wax (t)                     | 56                   |
| Bush meat (t)                                  | -                    |
| Raw material for medicine and aromatic         | -                    |
| Raw material for colorants and dyes (t)        | -                    |
| Other edible animal products (t)               | -                    |
| Other non-edible animal products (t)           | -                    |
| <br><b>Industrial roundwood (US\$)</b>         | <br>\$91,579,000     |
| <b>Wood fuel (US\$)</b>                        | <b>\$77,788,000</b>  |
| <b>Non-wood forest products (US\$)</b>         | <b>\$289,507,000</b> |
| <b>Total value (US\$)</b>                      | <b>\$458,874,000</b> |

|                               |         |
|-------------------------------|---------|
| <b>Total value (\$USD/ha)</b> | \$35    |
| Employment in forestry 2000   |         |
| <b>Total people employed</b>  | 210,000 |

**Viet Nam : Production, trade and consumption of forest products,**

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|                                                      |        |
|------------------------------------------------------|--------|
| <b>Woodfuel ('000 cubic m), 2002</b>                 |        |
| Production                                           | 26,547 |
| Imports                                              | -      |
| Exports                                              | 0      |
| Consumption                                          | 26,547 |
| <b>Industrial roundwood ('000 cubic m), 2002</b>     |        |
| Production                                           | 4,183  |
| Imports                                              | 54     |
| Exports                                              | 15     |
| Consumption                                          | 4,222  |
| <b>Sawnwood ('000 cubic m), 2002</b>                 |        |
| Production                                           | 2,950  |
| Imports                                              | 207    |
| Exports                                              | 15     |
| Consumption                                          | 3,142  |
| <b>Wood-based panels ('000 cubic m), 2002</b>        |        |
| Production                                           | 40     |
| Imports                                              | 42     |
| Exports                                              | 9      |
| Consumption                                          | 73     |
| <b>Pulp for paper ('000 metric tons), 2002</b>       |        |
| Production                                           | 314    |
| Imports                                              | 33     |
| Exports                                              | 0      |
| Consumption                                          | 347    |
| <b>Paper and paperboard ('000 metric tons), 2002</b> |        |
| Production                                           | 384    |
| Imports                                              | 140    |
| Exports                                              | 2      |
| Consumption                                          | 522    |

**Vietnam: Environment**

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**Environment -  
current issues**

Logging and slash-and-burn agricultural practices contribute to deforestation and soil degradation; water pollution and overfishing threaten marine life populations; groundwater contamination limits potable water supply; growing urban industrialization and population migration are rapidly degrading environment in Hanoi and Ho Chi Minh City

|                                               |                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environment - international agreements</b> | Party to: Biodiversity, Climate Change, Climate Change-Kyoto Protocol, Desertification, Endangered Species, Environmental Modification, Hazardous Wastes, Law of the Sea, Ozone Layer Protection, Ship Pollution, Wetlands<br>signed, but not ratified: none of the selected agreements |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                        |                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------|
| <b>Natural hazards</b> | Occasional typhoons (May to January) with extensive flooding, especially in the Mekong River delta |
|------------------------|----------------------------------------------------------------------------------------------------|

#### Vietnam: Land use / Resources

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|                     |                                                                       |
|---------------------|-----------------------------------------------------------------------|
| <b>Land use (%)</b> | arable land: 19.97%<br>permanent crops: 5.95%<br>other: 74.08% (2001) |
|---------------------|-----------------------------------------------------------------------|

|                          |                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------|
| <b>Natural resources</b> | phosphates, coal, manganese, bauxite, chromate, offshore oil and gas deposits, forests, hydropower |
|--------------------------|----------------------------------------------------------------------------------------------------|

#### Vietnam: Economy

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Economy - overview:</b> | Vietnam is a densely-populated, developing country that in the last 30 years has had to recover from the ravages of war, the loss of financial support from the old Soviet Bloc, and the rigidities of a centrally-planned economy. Substantial progress was achieved from 1986 to 1997 in moving forward from an extremely low level of development and significantly reducing poverty. Growth averaged around 9% per year from 1993 to 1997. The 1997 Asian financial crisis highlighted the problems in the Vietnamese economy and temporarily allowed opponents of reform to slow progress towards a market-oriented economy. GDP growth of 8.5% in 1997 fell to 6% in 1998 and 5% in 1999. Growth then rose to 7% in 2000-05 even against the background of global recession. Since 2001, however, Vietnamese authorities have reaffirmed their commitment to economic liberalization and international integration. They have moved to implement the structural reforms needed to modernize the economy and to produce more competitive, export-driven industries. However, equitization of state-owned enterprises and reduction in the proportion of non-performing loans has fallen behind schedule. Vietnam's membership in the ASEAN Free Trade Area (AFTA) and entry into force of the US-Vietnam Bilateral Trade in December 2001 have led to even more rapid changes in Vietnam's trade and economic regime. Vietnam's exports to the US doubled in 2002 and again in 2003. Vietnam became a member of the WTO in 2005. Among other benefits, accession allows Vietnam to take advantage of the phase out of the Agreement on Textiles and Clothing, which eliminated quotas on textiles and clothing for WTO partners on 1 January 2005. Vietnam is working to promote job creation to keep up with the country's high population growth rate. However, high levels of inflation have prompted Vietnamese authorities to tighten monetary and fiscal policies. |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                         |                     |
|-------------------------|---------------------|
| <b>GDP - per capita</b> | \$3,000 (2005 est.) |
|-------------------------|---------------------|

|                                   |                  |
|-----------------------------------|------------------|
| <b>GDP - real growth rate (%)</b> | 7.6% (2005 est.) |
|-----------------------------------|------------------|

|                               |                                                                                                                             |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Agriculture - products</b> | paddy rice, coffee, fish and seafood, rubber, cotton, tea, pepper, soybeans, cashews, sugar cane, peanuts, bananas, poultry |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------|

|                                        |                                                                |
|----------------------------------------|----------------------------------------------------------------|
| <b>GDP - composition by sector (%)</b> | agriculture: 21%, industry: 40.9%, services: 38.1% (2005 est.) |
|----------------------------------------|----------------------------------------------------------------|

|                   |                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Industries</b> | food processing, garments, shoes, machine-building, mining, cement, chemical fertilizer, glass, tires, oil, coal, steel, paper |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------|

|                                          |                                                                                     |
|------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Economic aid - recipient</b>          | \$2.8 billion in credits and grants pledged by international donors for 2000 (2004) |
| <b>Debt - external</b>                   | \$19.17 billion (2005 est.)                                                         |
| <b>Population below poverty line (%)</b> | 28.9% (2002 est.)                                                                   |
| <b>Labor force - by occupation (%)</b>   | agriculture 63%, industry and services 37% (2000 est.)                              |

#### Vietnam: Population / Demographics

|                                                   |                                                                                                                         |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Population (July 2005)</b>                     | 83,535,576                                                                                                              |
| <b>Population growth rate (%) (2005)</b>          | 1.04%                                                                                                                   |
| <b>Population density (people/sq km) (2005)</b>   | 256.7                                                                                                                   |
| <b>Median age (years)</b>                         | total: 25.51 years                                                                                                      |
| <b>Total fertility rate (children born/woman)</b> | 1.94 (2005 est.)                                                                                                        |
| <b>Ethnic groups (%)</b>                          | Kinh (Viet) 86.2%, Tay 1.9%, Thai 1.7%, Muong 1.5%, Khome 1.4%, Hoa 1.1%, Nun 1.1%, Hmong 1%, others 4.1% (1999 census) |

#### Largest Cities in Vietnam

Cities and urban areas in Vietnam with population over 100,000 All figures are estimates for 2002.

| City                      | Country | City Population | Urban Area Population |
|---------------------------|---------|-----------------|-----------------------|
| Ho Chi Minh City (Saigon) | Vietnam | 3378500         | 5728900               |
| Hanoi                     | Vietnam | 1372800         | 2503000               |
| Haiphong                  | Vietnam | 572100          | 1792400               |
| Danang                    | Vietnam | 446000          | 446000                |
| Bien Hoa                  | Vietnam | 365500          | 365500                |
| Hue                       | Vietnam | 266800          | 266800                |
| Nha Trang                 | Vietnam | 265300          | 265300                |
| Can Tho                   | Vietnam | 248300          | 248300                |
| Qui Nhon                  | Vietnam | 196200          | 196200                |
| Rach Gia                  | Vietnam | 194900          | 194900                |
| Nam Dinh                  | Vietnam | 188800          | 188800                |
| Vung Tau                  | Vietnam | 184100          | 184100                |
| Long Xuyen                | Vietnam | 153000          | 153000                |
| Hong Gai                  | Vietnam | 142800          | 142800                |
| Phan Thiet                | Vietnam | 141500          | 141500                |
| Cam Ranh                  | Vietnam | 141200          | 141200                |
| Cam Pha                   | Vietnam | 139700          | 139700                |
| Buon Me Thuot             | Vietnam | 133400          | 133400                |
| Thai Nguyen               | Vietnam | 131900          | 131900                |
| Da Lat                    | Vietnam | 125000          | 125000                |