

# Ba Vi National Park

## Alternative site name(s)

None

## Province(s)

Ha Tay

## Status

Decreed

## Management board established

Yes

## Latitude

21°01' - 21°07'N

## Longitude

105°18' - 105°25'E

## Bio-unit

10b - Northern Indochina



## Conservation status

Prior to 1977, Ba Vi was under the management of several organisations, including Ba Vi Forest Enterprise (Gilmour and Nguyen Van San 1999). On 24 January 1977, Ba Vi was included on Decision No. 41/TTg of the Prime Minister as a 2,144 ha nature reserve (MARD 1997). Management responsibility for the nature reserve originally lay with Ba Vi Forest Enterprise but, in July 1986, management responsibility was transferred to Ba Vi Nature Reserve Management Board, under the management of Hanoi City Department of Forestry (Gilmour and Nguyen Van San 1999).

In 1991, an investment plan was prepared, which proposed upgrading Ba Vi to national park status with a total area of 7,377 ha (Anon. 1991). This investment plan was approved by the government of Vietnam, following Decision No. 17/CT, dated 16 January 1991; and, at the same time, a management board was established (Ba Vi National Park Management Board 2000). Subsequently, the upgrading of the site to national park status was approved by Decision No. 407/CT of the Chairman of the Council of Ministers, dated 18 December 1991. Following the elevation of the site to national park status, management responsibility for the site was transferred to the former

Ministry of Forestry (now MARD) (Gilmour and Nguyen Van San 1999).

According to Ba Vi National Park Management Board (2000), the total area of the national park is currently 6,786 ha, comprising a strict protection area of 1,092 ha, a forest rehabilitation area of 4,646 ha and an administration and services area of 1,048 ha. Ba Vi is included on the 2010 list as a 6,726 ha national park, including 4,700 ha of natural forest (FPD 1998).

## Topography and hydrology

Ba Vi National Park is centred on Mount Ba Vi, a mountain isolate situated about 50 km west of Hanoi. The mountain rises steeply out of a plain that rarely exceeds 30 m in elevation. In general, slopes on the western side of Ba Vi mountain, at an average of 25°, are steeper than those on the east. Above 400 m, the slopes on the western side may reach a gradient of 35° and rocky cliffs are present. Mount Ba Vi has three peaks: the highest is Dinh Vua at 1,296 m, followed by Tan Vien at 1,226 m and Ngoc Hoa at 1,120 m. Because of the mountainous topography, the climate at Ba Vi varies with altitude. Above 500 m, fog enshrouds the top of the mountain on most days.

Except for the Da River on the western side of the national park, Ba Vi has no large, permanent water bodies. Streams in the national park are small, steep

sided and fast flowing. In the rainy season, the volume of water flowing through these small watercourses and over the surface of the ground is sometimes sufficient to cause landslides. In the dry season, however, many of the streams are dry.

## Biodiversity value

At Ba Vi National Park, natural forest is mainly distributed at elevations above 600 m. The natural forest types at Ba Vi are lowland evergreen forest, lower montane evergreen forest and lower montane mixed coniferous and broadleaf forest. In 1998, the national park supported 4,701 ha of forest, comprising 1,710 ha of natural forest and 2,991 ha of plantation forest. The plantation forest, however, is still in the early stages of development, with only small trees present (Gilmour and Nguyen Van San 1999).

According to the investment plan (Anon. 1991), Ba Vi supports 812 species of vascular plant, of which several species were described for the first time from the site, for example *Ixora balansae*, *Litsea baviensis* and *Lasianthus langkokensis*. Also according to the investment plan, Ba Vi supports 44 mammal species, 114 bird species, 15 reptile species and nine amphibian species. Due to relentless human encroachment into the forest at Ba Vi, however, the diversity and abundance of large mammals and birds are now low. Indeed, several species are believed to have become locally extinct (Gilmour and Nguyen Van San 1999).

## Conservation issues

In the past, the forest on Mount Ba Vi provided a range of natural resources, including fuelwood, fodder, timber, medicines and foods, for local communities. Following the establishment of a protected area at the site, exploitation of natural resources was prohibited. However, local communities and people from outside the area continued to exploit natural resources for both domestic use and commercial purposes. Rapid population growth, from both migration and natural increase, exacerbated the pressure on the remaining forest area. It was estimated that, in 1998, the total population in the buffer zone of the national park was 46,547 people (Gilmour and Nguyen Van San 1999).

In recent years, the biodiversity of the national park has undergone a dramatic decline. Logging activities, both by local people and state forest enterprises, have cleared large areas of forest. Agricultural encroachment from the lowlands and shifting cultivation practices have also been responsible for the loss of large areas of forest. Widespread fuelwood collection has resulted in forest degradation. Hunting pressure has been unsustainable, resulting in a loss of animal species. Finally, forest fire has degraded natural and plantation forest: it was estimated that, between 1992 and 1997, 365 ha of forest in the national park were destroyed by fire (Gilmour and Nguyen Van San 1999).

## Other documented values

The forest at Ba Vi National Park is an important source of forest products for local communities. For example, medicinal plant collection is a major economic activity in the area. Between 1997 and 1998, an estimated 250 tonnes of medicinal plants were extracted from the national park. It has been estimated that 80% of the Dao ethnic group in Ba Vi commune extract medicinal plants, which is their second most important source of income (Gilmour and Nguyen Van San 1999).

During the French colonial period, Ba Vi was developed as a hill station, and around 200 villas were constructed on the mountain. In addition, a road was built up the mountain to an elevation of 1,100 m (Gilmour and Nguyen Van San 1999). With a relatively favourable climate, good infrastructure and proximity to Hanoi, Ba Vi already attracts large numbers of visitors. Several tourism companies have developed resorts and visitor attractions in and around the national park. Ba Vi National Park is also an important site for education and scientific research.

## Related projects

Until 2000, the Australian NGO Association for Research and Environmental Aid (AREA) implemented a community development programme in the buffer zone of the national park, focussing on agriculture, aquaculture, medicinal plant development and food processing (Gilmour and Nguyen Van San

1999). Prior to this, AREA prepared a management plan for the national park (Jones 1993).

With funding from the Japan International Cooperation Agency (JICA), the Vietnam Forest Science Technology Association implemented a community forestry project in Yen Bai commune in the buffer zone of the national park (Gilmour and Nguyen Van San 1999).

The Institute of Ecological Economy (ECOECO) has been implementing a project to develop an "ecological village" in Ba Vi and Ba Trai communes (Gilmour and Nguyen Van San 1999).

The Quaker Organisation is implementing activities on medicinal plant development in Ba Vi commune (Gilmour and Nguyen Van San 1999).

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