# Kyoto-Osaka District National Forest Office Overview



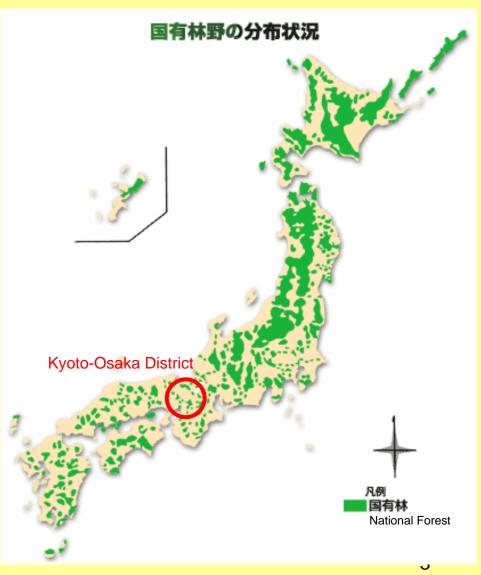
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### 1. National Forest in Japan

- 2/3 of Japan's land covered with forest.
- 1/3 of Japan's forest is "National Forest."
- Therefore, 20% of Japan's land is "National Forest."
- Ratio of National Forest differs among regions: higher ratio in the north and lower ratio in the west.



### 1. National Forest in Japan

- Three origins of Japan's National Forest:
  - forest owned by former feudal government (bakufu / han),
  - forest owned by temples and shrines,
  - forest owned by local communities.
- Ownership of these forests were transferred to the new Meiji Government during the Meiji Revolution in 1870s.
- National Forest is managed by the Forestry Agency, Ministry of Agriculture, Forestry and Fisheries.
- Organization: Forestry Agency seven Regional National Forest Office – 120 District National Forest Office

### 2. Kyoto-Osaka District National Forest Office

#### (Overview)

- A branch of Kinki-Chugoku Regional National Forest Office, Forestry Agency.
- Manages 5,700 ha of national forest in Kyoto and Osaka prefectures, comprising 1% and 2% of total forest area respectively.
- National forest areas scattered around.
- In Kyoto City, national forests located in the neighborhood of historical temples and shrines. These national forests are former temple/shrine forests.



National Forest in Kyoto & Osaka Prefectures

### 2. Kyoto-Osaka District National Forest Office

#### (Forest Resources)

- 54% of national forests managed by the Office "planted," while 46% "natural."
- Major species of planted forests: sugi (45%), hinoki (39%), matsu (11%), and others (6%).
- Age of planted forest centered around 40 years. Still maturing.

#### (Legal Regulations)

- 92% of national forests under the control of some legal regulations, incl. Forest Law, Urban Area Planning Law, Historical City Preservation Law, or Cultural Asset Preservation Law. Multiple regulations imposed.
- Each regulation sets the maximum ratio of logging, according to its objective.

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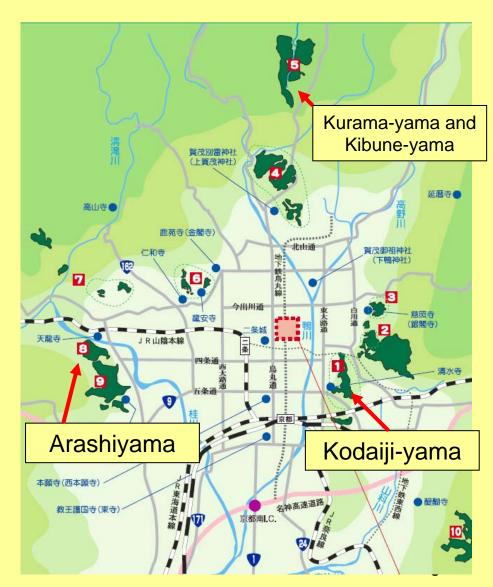
### 2. Kyoto-Osaka District National Forest Office

### (Forest Management)

- Each national forest area categorized into three functional types: "land and water conservation forest" (54% for K-O), "forest and human co-existence forest" (39%), and "sustainable resource use forest" (7%).
- "Thinning" is the most important treatment.
- Pest treatment is an emerging issue.

## 3. National Forests in Kyoto

- Kyoto city surrounded by mountains in three directions: north, east, and west.
- National Forests also exist in three directions.
- Most of national forests in Kyoto city were once owned by temples and shrines, but transferred to the government during Meiji Revolution in 1870s.



National Forest in Kyoto City

# 3.1. Kodaiji-yama National Forest

- Background of famous historical temples and shrines, incl. Kiyomizu-dera, Yasaka-jinja, or Chion-in.
- Once <u>akamatsu</u> (*Pinus densiflora*) forest due to intensive local use. Since Meiji era, local use prohibited. Natural succession progressed to <u>shii</u> (*Castanopsis cuspidata*) forest.
- Serious damage by pinewood nematode and *Platypus* quercivorus (kashi-no-naga-kikui-mushi).
- Activity field of the "Council for Kyoto Traditional Forest Culture."

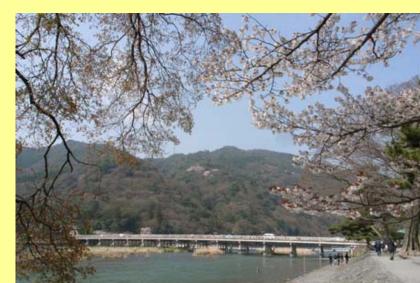


### 3.2 Kurama-yama and Kibune-yama National Forest

- Part of scenic landscape around Kurama-dera temple and Kibune-jinja shrine along Kibune-gawa river.
- Partly designated as "Kyoto Ancient Forest" for the production of large diameter timber for the repair of traditional wooden buildings.
- Developed walking trail around the "Kyoto Ancient Forest."
- Serious by deer bite.

### 3.3. Arashiyama National Forest

- Famous sightseeing spot for cherry blossoms (sakura) and pine trees (matsu) for more than one thousand years.
- Planting sakura for landscape conservation, in cooperation with local community.
- Steep slope & many sightseers. Prevention of falling rocks important.
- Initiated discussion with local community on the direction of forest management.



### 4. Current topics

- 4.1. Council for Kyoto Traditional Forest Culture
- 4.2. Combating Forest Pests
- 4.3. Stakeholder Participation in Arashiyama

### 4.1. Council for Kyoto Traditional Forest Culture

- In 2007, the Council established for the management of the Kodaijiyama National Forest, through the participation of various stakeholders: incl. temples, shrines, researchers, local communities, NGOs.
- Council receives financial / human assistance from local "supporters" for the implementation of forest management.
- Initiated experimental logging of shii trees for the transformation of shii-dominating forest.
- Discussing the future direction of forest management



## 4.2 Combating Forest Pests

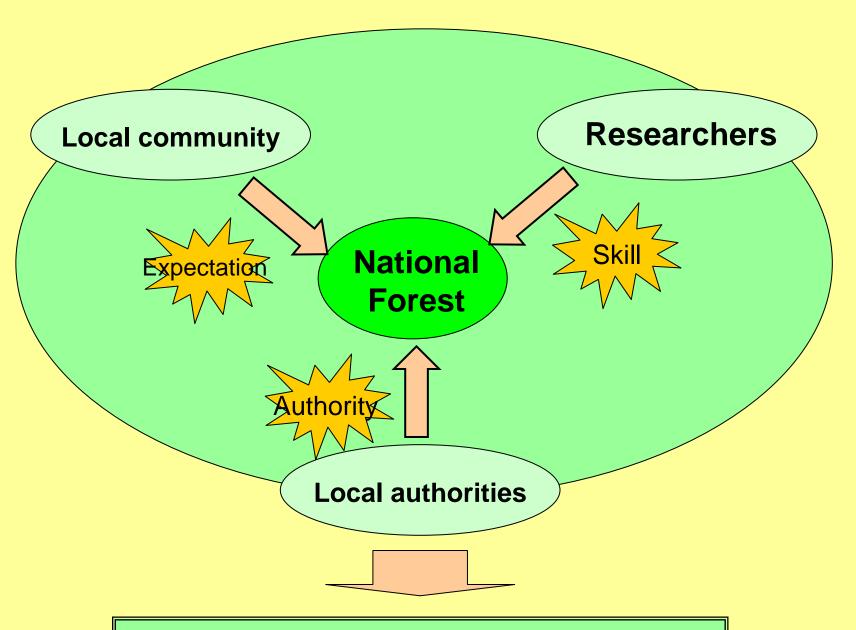
- Small insects called *Platypus quercivorus* (*kashi-no-naga-kikui-mushi*) damage *shii*, *kashi* and *nara* species, spreading harmful fungi in wood cells, when they dig into standing trees.
- Since 2005, the insects putting many standing trees into death in Kodaiji-yama NF. Recently, damage spreading around Kyoto city.
- Prevents from massive death of forest, through logging dead trees and fumigating with chemicals.



## 4.3 Stakeholder Participation in Arashiyama

- Conditions surrounding Arashiyama NF changing: too old sakura and kaede, deer damage, possibility of landslide, and many sightseers.
- Planting efforts unsuccessful, due to improper planting skill of non-coniferous trees. Further, coordination with local community insufficient.
- In 2009, initiated discussion with local community, researchers in four disciplines (vegetation, landscape, wildlife, disaster prevention), and local authorities.
- Developed the new direction of forest management of Arashiyama NF: e.g. cutting large area before planting, protecting planted trees from deer bite, developing walking trail.





National Forest as "Forest for the People"

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