## Brief introduction of Japan Water Agency (JWA)

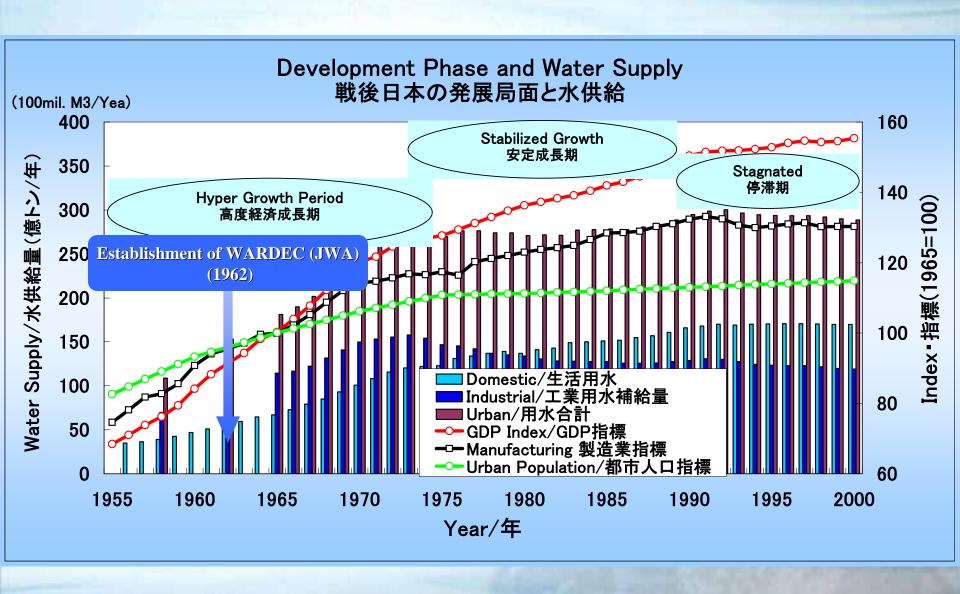


**January 23, 2006** 

Katsunori TAKAGI

**International Affairs Division, Japan Water Agency** 

#### **Establishment of JWA to Meet the Water Demand in the Hyper Growth Period**



#### **Activities of JWA**

#### 1. Water Resources Development Promotion Law

Water Resources Development Basic Plan ("Full Plan") for each river system

#### 2.Japan Water Agency Law

#### JWA's activities

New construction and reconstruction of *Water Resources Development Facilities* and operation of those completed structures

#### Water utilization

- Domestic Water
- •Industrial Water
- •Irrigation Water

Flood control

Ministers
supervising
JWA's
activities

## Ministers concerning to JWA projects

- Minister of Land, Infrastructure and Transport

  Flood control
- Minister of Health, Labor and Welfare

**Domestic Water** 

- Minister of Agriculture, Forestry and Fisheries
  Irrigation Water
- Minister of Economic, Trade and Industry

**Industrial water** 

## **Governments Related to Water in Japan**

#### Ministry of Health, Labour and Welfare

Water Supply for Domestic Use, Quality Preservation of Water Source, etc.

Ministry of Agriculture, Forestry and Fisheries

Water Supply for Agricultural Use, Forest Development for Headwaters Conservations, etc.

Ministry of Economy, Trade and Industry

Water Supply for Industrial Use, Hydropower, etc.

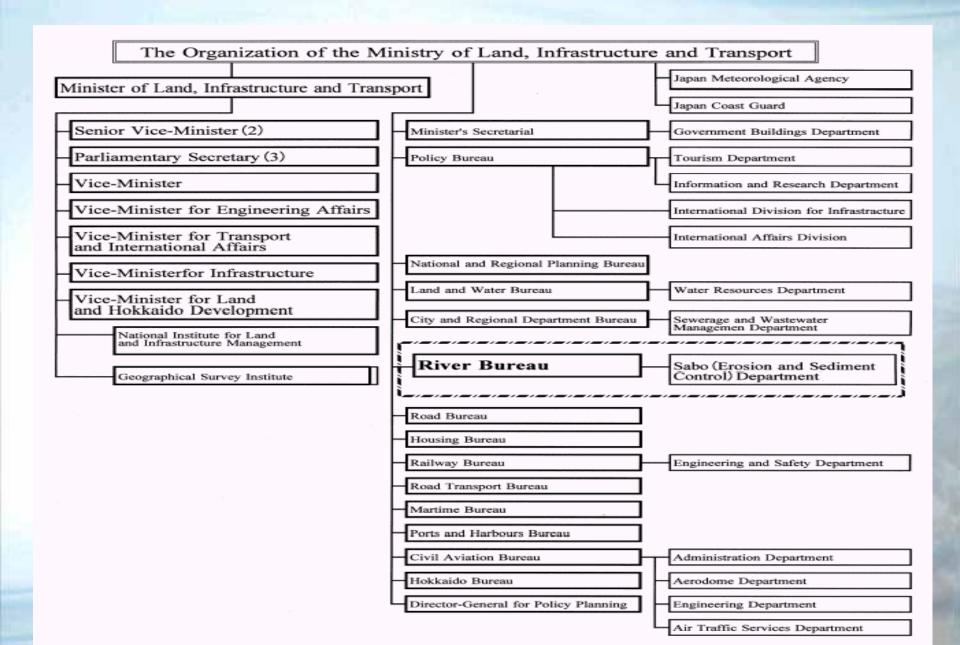
**Ministry of the Environment** 

Water Quality, Environmental Preservation, etc.

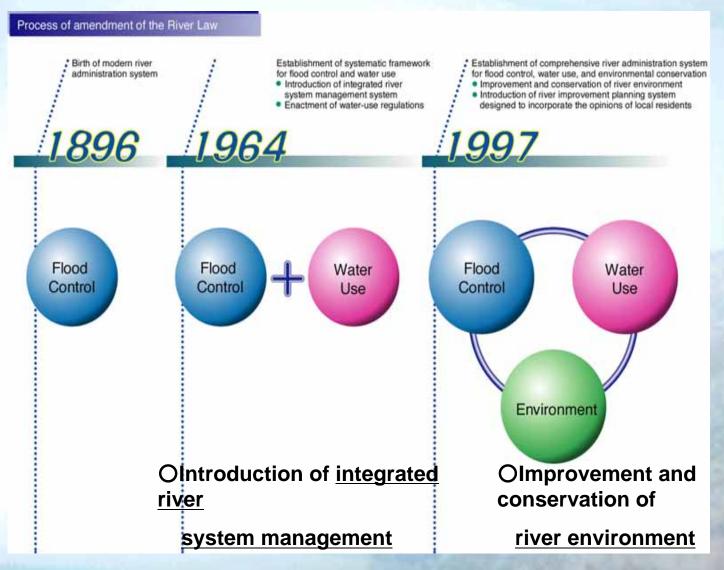
Ministry of Land, Infrastructure and Transport

Sewerage, River Improvement for Flood Control and Environment, Reservoir Area Development, Water Supply and Demand Planning, etc.

## Location of River Bureau at MLIT



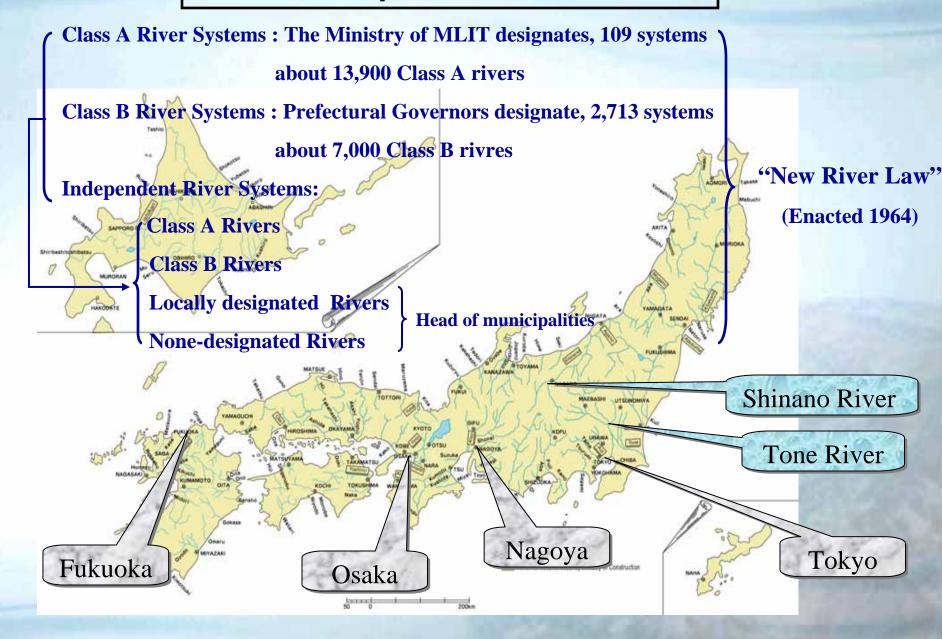
## **Outline of River Law during 100 years**



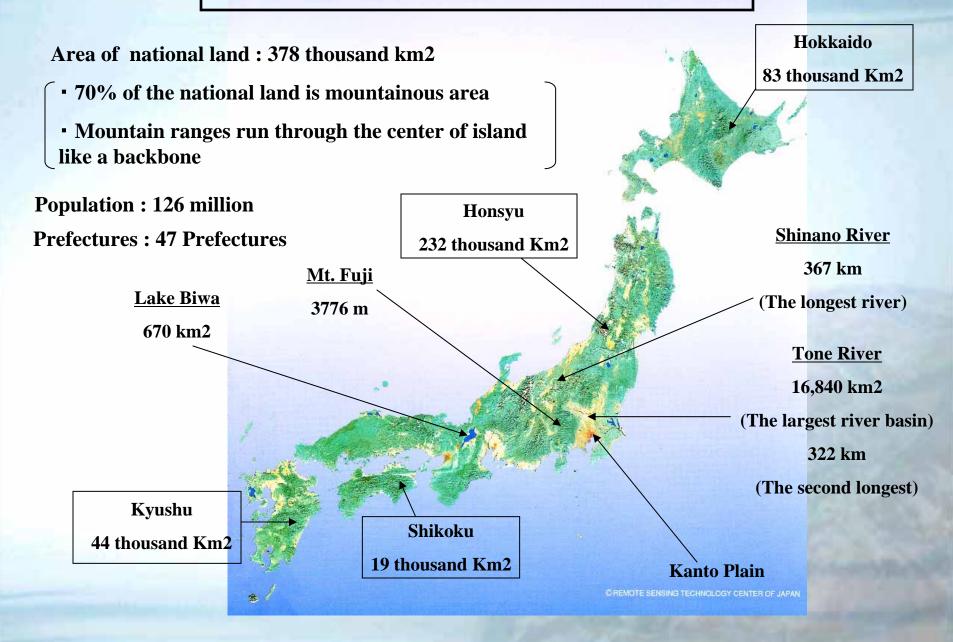
OEnhancement of water-use

OIntroduction of plans reflected

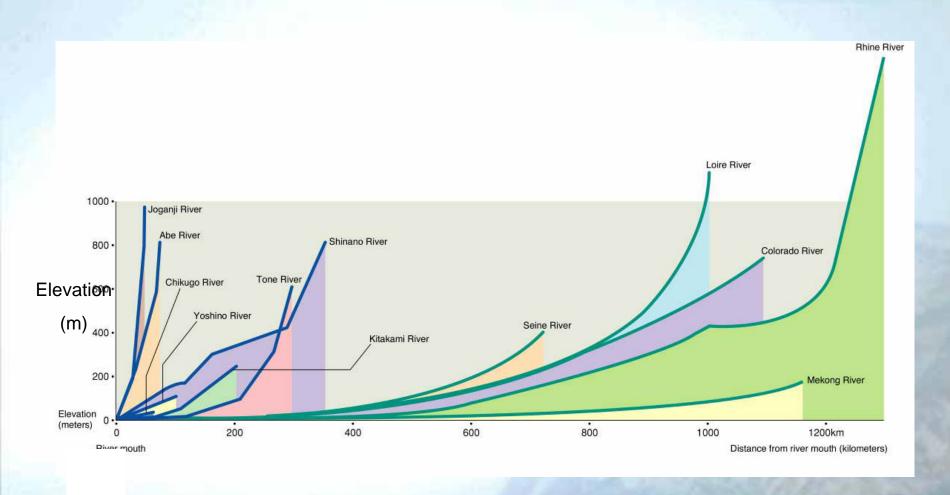
## Rivers in Japan (As of the end of 2000)



## Topographical features of Japan

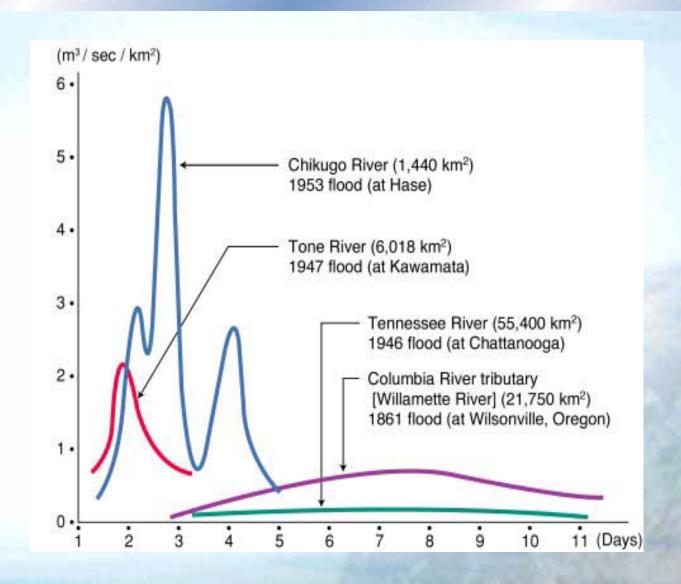


## **Comparison of Riverbed Gradients**

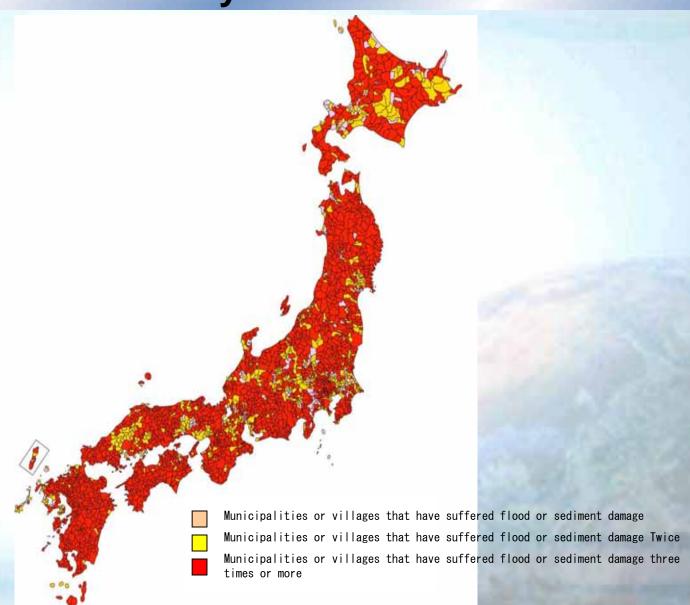


Distance from river mouse (km)

## Floods come short and quick

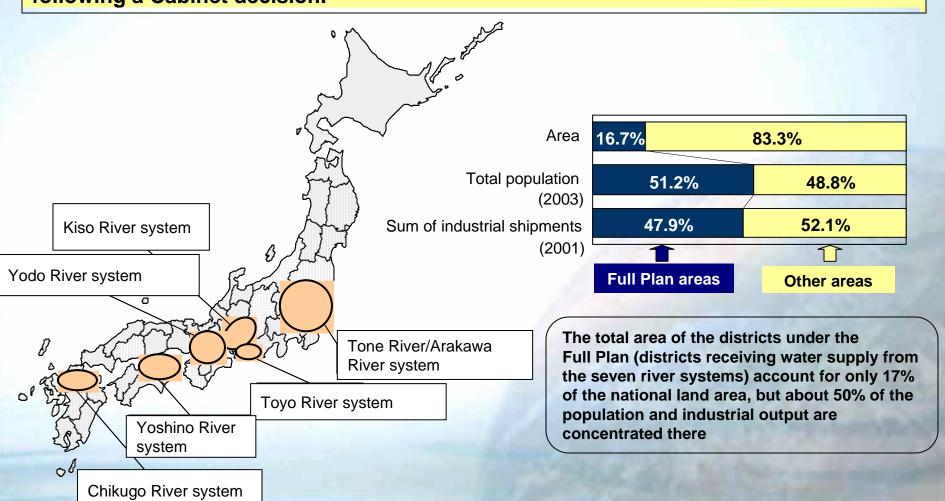


# Flood and Sediment Damage during the 10-years



## Water Resources Development Basic Plan (Full Plan)

The Water Resources Development Basic Plan (referred to as the Full Plan) stipulates purpose-specific demand forecasts and supply targets for seven designated river systems on the basis of the Water Resources Development Promotion Act, following a Cabinet decision.



### **Outline of Water Resources Development Basic Plan**

(As of February 2006)

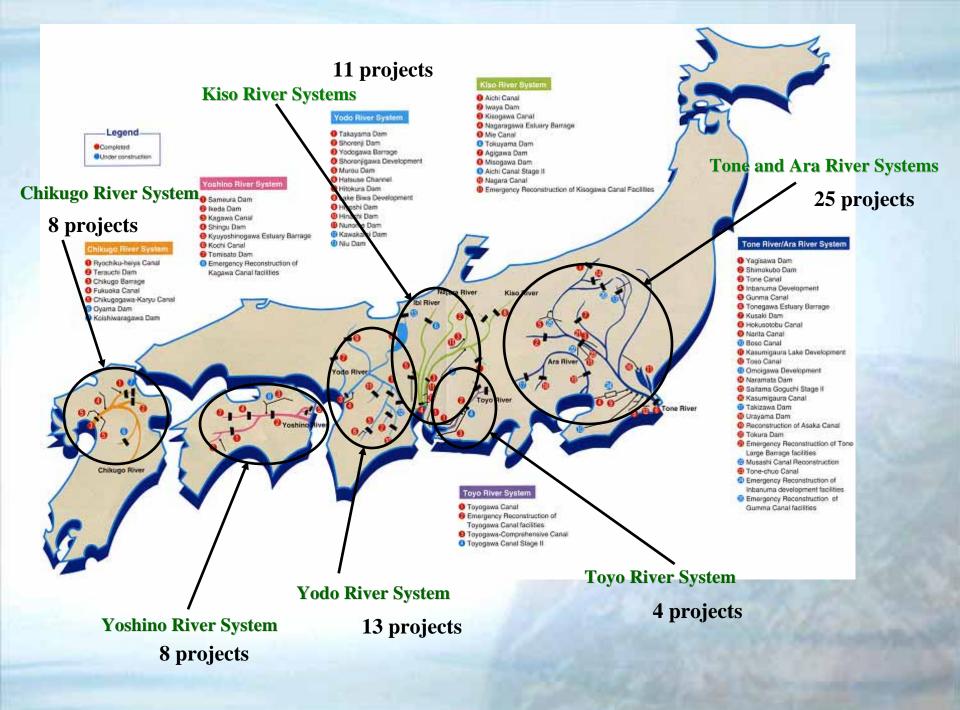
	Tone River System, Ara River System	Toyo River System	Kiso River System (*)	Yodo River System	Yoshino River System (*)	Chikugo River System
Designation of River System	April 1962 (Tone River system) December 1974 (Arakawa River System)	February 1990	June 1965	April 1962	November 1966	October 1964
Decision on plan	February 1988 (4th Plan)	February 2006 (2nd Plan)	June 2004 (4th Plan)	August 1992 (4th Plan)	February 2002 (3rd Plan)	April 2005 (4th Plan)
Target Fiscal Year	FY2000	FY2015	FY2015	FY2000	FY2010	FY2015
Volume of developed water (**)	Approx. 117m <sup>3</sup> /s	Approx. 0.5m <sup>3</sup> /s	6.6m <sup>3</sup> /s	Approx. 49m <sup>3</sup> /s	-	Approx. 2.6m <sup>3</sup> /s
Facilities Improvement (***)	34 Projects Takizawa Dam, others	2 Projects Shidara Dam, others	2 Projects Tokuyama Dam, others	15 Projects  Kawakami Dam, others	1 Project Kagawa water supply facility	6 Projects Oyama Dam, others

<sup>\*</sup> All changes made following "Report by Research/Planning Subcommittee under Water Resources Development Council" (December 2000).

<sup>\*\*</sup> Newly developed water supply under current Water Resources Development Basic Plan.

<sup>\*\*\*</sup> All projects incorporated in Water Resources Development Basic Plan.

<sup>\*\*\*\*</sup> Red-lettered facilities are JWA's project



#### What is Japan Water Agency (JWA) (1)

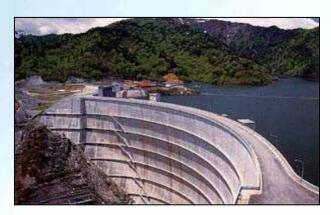
- Water Resources Development Public Corporation (WARDEC) was transformed into JWA in October 2003 by administrative reform
- JWA is a semi-governmental river basin organization as WARDEC was
- JWA has been developing water resources for domestic, industrial and agricultural purpose by construction of dams, canals, barrages and developing lakes and doing flood control at the same time
- JWA is prohibited taking on the new projects whose purpose are increase of water supply excepting the projects that JWA takes over from WARDEC
- JWA has been operating, maintaining completed facilities and refurbished them to fulfill their functions

#### What is Japan Water Agency (JWA) (2)

- JWA has been operating and maintaining 53 facilities and still implementing 15 projects in 6 major river systems
- JWA has 4 Regional Bureaus in Chubu, Kansai, Shikoku and Kyushu and 36 site offices except the headquarters in Saitama
- The number of staff is about 1,660 including the President, Vice President, 5 Executive Directors and 2 Auditors
- The budget scale is around 270 billion yen including paying back loan with interests in installments.

(As of April 2006)

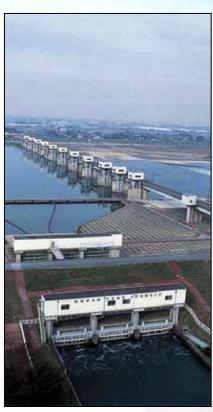
# Construction and Management of Water Resources Development Facilities (JWA)



Yagisawa Dam (Arch Concrete Dam)



Lake Biwa Development



**Tone Barrage** 

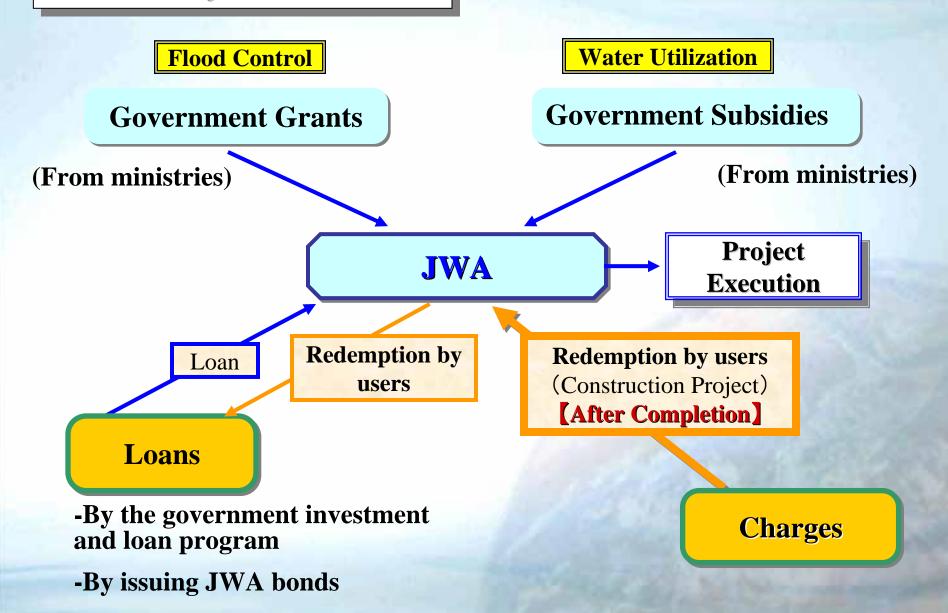


Terauci Dam (Rock Fill Dam)



Tone Chuo Canal (Saitama Canal)

## Finance system of JWA



## Project implementation procedure

Basic investigations

Designation of river system for water resources development

Basic Plan for water resources development

Project implementation plan

Commencement of construction

Project completion

Facilities management regulation

Commencement of management

