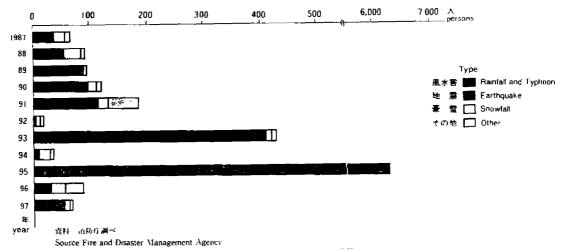
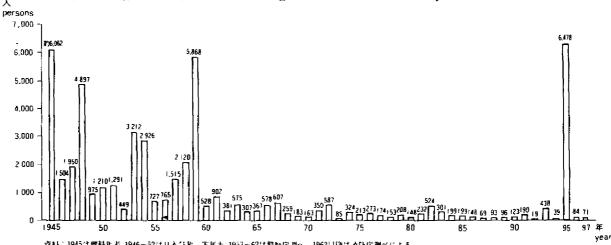
II. OUTLINE OF COUNTERMEASURES FOR PREVENTION DISASTERS IN JAPAN

- 1. Flood Control as part of Disaster Prevention Programs
 - a. Flood damage Prevention

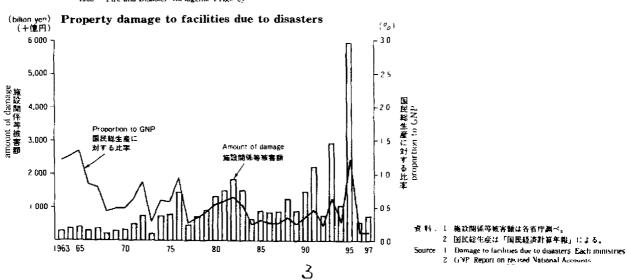
The number of casualties and the missing by type of disasters



The number of casualties and the missing in natural disasters in Japan

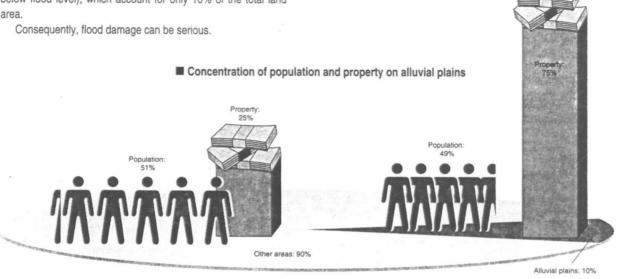


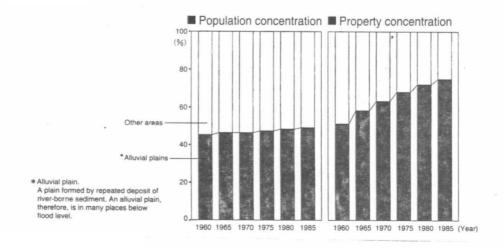
資料: 1945位理科年表, 1946~52は日本公集人方年表, 1953~62は野原庁期へ、1963以降は市防庁調べによる。 Source 1945: Chronological Scientific Tables, 1946~52 Japan Weather Disaster Annual Table, 1953~62 National Police Agency, 1963~ Fire and Disaster Management Agency



Japanese cities are quite susceptible to floods. Most population and property, and therefore most flood damage, concentrate on alluvial plains.

About 50% of the population and about 75% of the real estate of mountainous Japan is concentrated on alluvial plains (areas below flood level), which account for only 10% of the total land area.





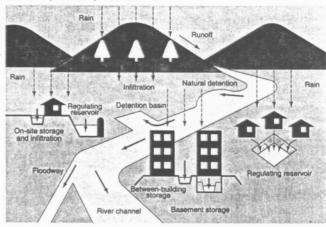
c. Integrated Flood Control Measures

Japan is in need of Integrated flood control to cope with rapid urbanization.

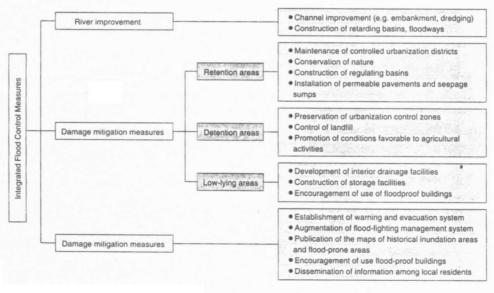
One consequence of rapid urbanization is the growing concentration of population and property in low-lying lands which have historically been subject to flooding. This trend is aggravating flood damage.

Conventional river improvement that relies on levees and detention basins is not enough. There is an urgent need for a comprehensive approach that combines (1) river basin measures, such as the construction of facilities designed to preserve and enhance the retention and detention capabilities of river basins and the development of land uses and buildings that are highly resistant to floods, and (2) damage mitigation measures, such as the establishment of warning and evacuation systems.

■ Concept of comprehensive flood control



Integrated of flood control measures





- a. Forest Conservation Projects
- b. Sediment Control Projects

