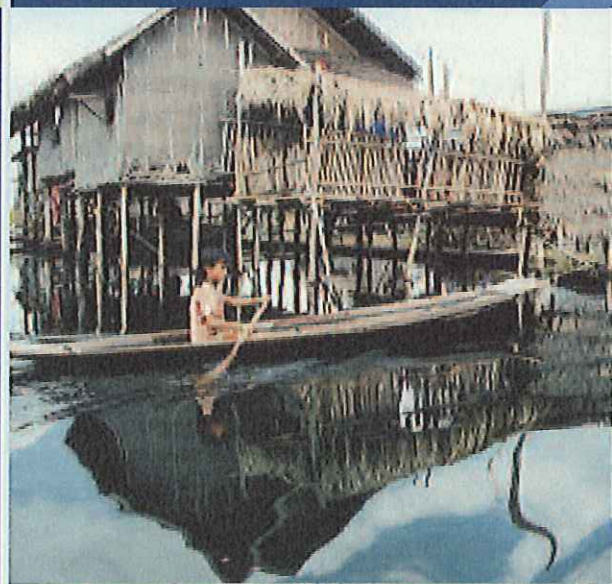


# Legal and Institutional Aspects of Integrated Flood Management



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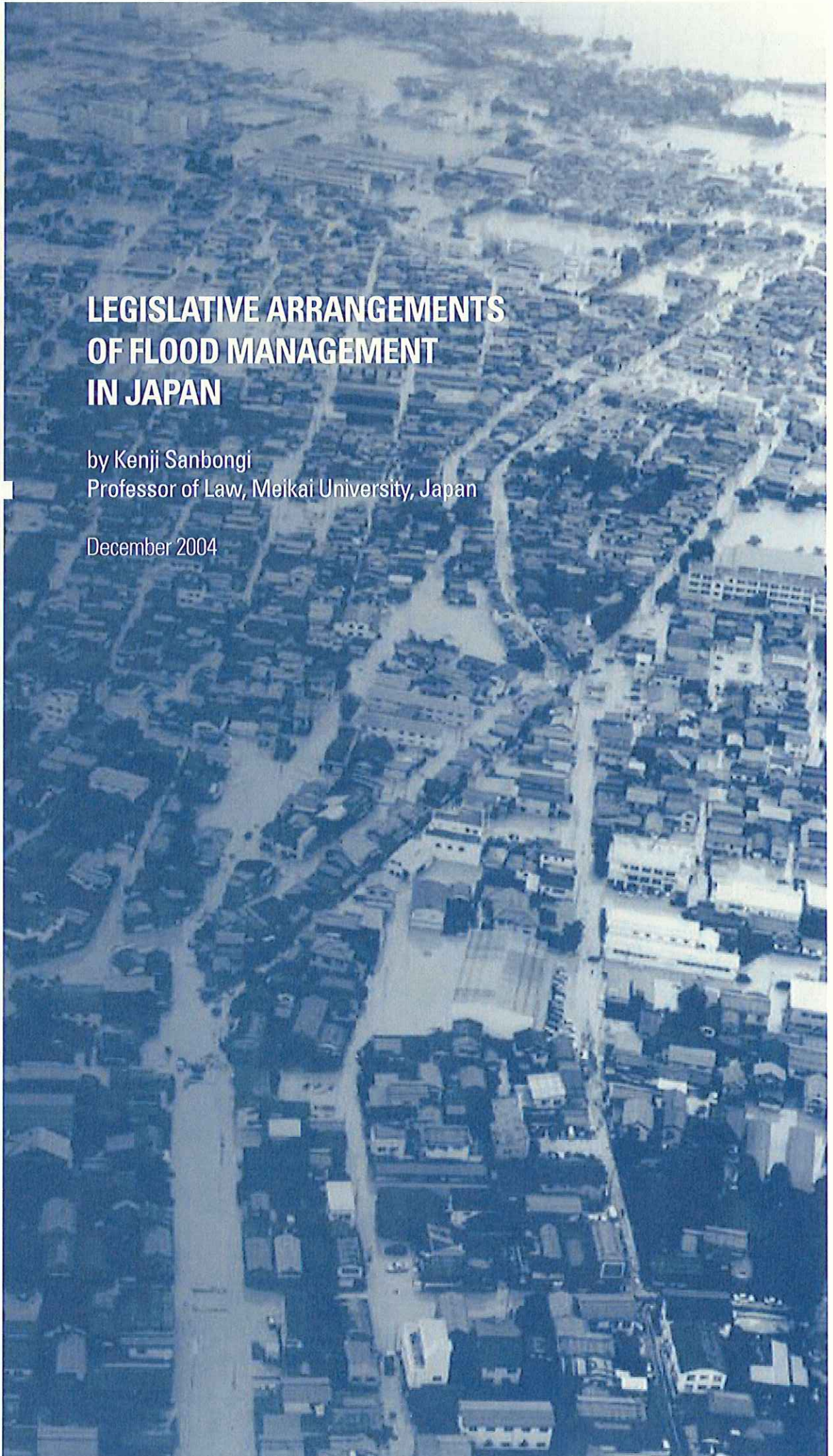


# Japan

## LEGISLATIVE ARRANGEMENTS OF FLOOD MANAGEMENT IN JAPAN

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## APPENDIX. MAJOR FLOOD DAMAGE IN JAPAN SINCE 1945

<i>Disaster</i>	<i>Date</i>	<i>Deaths<sup>a</sup></i>	<i>Damaged houses</i>	<i>New outcome around the time, etc.</i>
Typhoon	Sept. 1945	3 756	361 321	
Typhoon	Sept. 1947	1 930	394 041	River Works Plan Reviewed
Typhoon	Sept. 1948	838	138 052	Conference on Flood Warning
Typhoon	Aug. 1949	160	161 263	(Merit for Flood Warning)
Typhoon	Sept. 1950	508	222 736	(Land Subsidence Problems)
Typhoon	Oct. 1951	943	359 391	
Heavy rain	June 1953	1 013	489 298	Basic Guideline for Flood Control
Heavy rain	July 1953	1 124	97 368	Telemeter at Major Rivers
Typhoon	Sept. 1953	478	582 273	Seacoast Protection
Typhoon	Sept. 1954	1 761	311 075	(1 175 dead by shipwreck)
Heavy rain	July 1957	992	79 376	
Typhoon	Sept. 1958	1 269	538 458	Urban Flood Countermeasures
Typhoon	Sept. 1959	5 098	1 197 576	Long-term Flood Control Plan
Heavy rain	June 1961	357	422 826	Regulation of Urban Development
Typhoon	Sept. 1961	202	883 564	(Merit for Life Damage Decrease)
Typhoon	Sept. 1966	318	126 767	Slope Disaster Countermeasures
Heavy rain	July 1967	371	305 201	
Heavy rain	July 1972	442	199 030	(Frequent lawsuits on Flood Damages)
Typhoon	Sept. 1976	169	453 510	Comprehensive Flood Countermeasures
Heavy rain	July 1982	345	53 016	Subdivision of warning
Heavy rain	Aug. 1993	79	22 811	(Tokyo subway inundated)
Heavy rain	July 1995	5	17 928	
Heavy rain	Aug. 1998	25	14 413	(Public Utilities Damaged)
Heavy rain	June 1999	39	10 675	Regulation of land use and building
Heavy rain	Sept. 2000	10	71 603	Hazard Map of Urban Flood

<sup>a</sup> Deaths include the missing.