

DAMAGE ESTIMATES REPORTED BY ASIAN AND PACIFIC COUNTRIES

Meteorological disasters – tropical cyclones, floods, drought – during 1982

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Table 1

Country and source of data	Type of disaster	Region affected	Human damage				Damage to houses and buildings					Material damage to farmland (in ha) 5/	Damage to agricultural production					Damage to public work facilities						Other damage 2/		Total estimated or accounted damage cost
			dead/missing	injured	homeless 1/	affected persons	destroyed	damaged 2/	affected 3/	total 4/	monetary damage		crops (in tone)	livestock (in heads)	fruit plants (in numbers)	others 5/	monetary damage 1/	roads 5/ (km)	bridges (sites)	river embankment (sites)	irrigation facilities (sites)	reservoirs and dams (sites)	monetary damage			
AUSTRALIA 10/ Australian Bureau of Meteorology	tropical depression, record rainfall, floods	southwest western Australia, esp. Blackwood River Basin	0	0	some families temporarily	N.A.	N.A.	N.A.	N.A.	N.A.	considerable	considerable	considerable	considerable		N.A.	considerable	N.A.	N.A.	N.A.	N.A.	N.A.	0	N.A.		
	complex low pressure rain systems	east central Australia	0	0	0	0	0	0	0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	many interior roads closed	many bridges closed	N.A.	N.A.	N.A.	N.A.	0				
	tropical cyclone Doreen	North Queensland	1	0	0	0	0	0	N.A.	0	£ Aust 100,000	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0				
	drought	central and southern New South Wales, northern Victoria, southern Australia	0	0	0	0	0	0	0	0	0	considerable but not available	considerable but data not available			£ Aust 1200 mil.	0	0	N.A.	severe restrictions	generally dry	N.A.	0			
BURMA Department of Meteorology and Hydrology, Ministry of Transport and Communications	cyclone	Irrawaddy Division Rakhine State	1	N.A.	N.A.	320,182	65,600	N.A.	N.A.		N.A.	—	0	—	—	N.A.							Kyats 21,908,546			
	strong winds	entire country	0	N.A.	N.A.	47,272	10,363	N.A.	N.A.		N.A.	—	0	—	—	N.A.								N.A.		
	heavy rainfalls and floods	"	0	N.A.	N.A.	80,442	13,532	N.A.	N.A.		N.A.	1,263,438	N.A.	—	N.A.	—	N.A.									
	droughts	"	0	0	0	0	—	—	—	—	N.A.	3,582,397	N.A.	—	N.A.	—	N.A.									
CHINA 11/ Ministry of Water Resources and Electric Power	storm flood	middle and lower reaches of Huanghe River				1,049,000					166,400											Yuan 50 mil.				
		Wuhan				319,000					49,000															
		middle and upper reaches of Huanghe River				426,000																				
HONG KONG Royal Observatory	rainstorm, floods, land-spills	entire country	25	115	2,800	8,318	0	267	237	2,600	N.A.	1,000	N.A.	710,000	N.A.	570	£ HK 30.8 mil.	531	0	0	N.A.	various locations	£ HK 59.7 mil.	a 0 b 296	£ HK 152.8 mil.	
	tornado	Yuen Long	2	5	N.A.	N.A.	0	8	0	10	N.A.	0	0	0	0	0	0	0	0	0	0	0	0			
	tropical storm Tess	Tuen Mun, southern district	0	16	0	0	0	0	0	0	N.A.	0	0	0	0	0	0	0	0	0	0	0	1			
	subtropical storm Winona	southern district	0	0	0	15	0	3	0	3	N.A.	0	0	0	0	0	0	0	0	0	0	0	0			
	typhoon Andy	Tuen Mun	0	0	0	0	0	0	0	0	N.A.	0	0	0	0	0	0	0	0	0	0	0	1			
	rainstorms, floods and land-spills	entire country	5	1	889	867	0	69	37	450 +	N.A.	430	N.A.	7,100	N.A.	370	£ HK 14.6 mil.	136	0	0	N.A.	various locations	£ HK 51.4 mil.	0		
	typhoon Irving	Sai Kung	0	0	0	0	0	0	0	0	N.A.	0	0	0	0	0	0	0	0	0	0	0	2			
various thunderstorms		1	1	204 +	N.A.	N.A.	N.A.	N.A.	10 +	N.A.	0	0	0	0	0	0	0	0	0	0	N.A.	0	10 +			
INDIA 12/ Flood Wing, Central Water Commission	heavy rains, floods, cyclones	Andhra Pradesh, Assam, Bihar, Gujarat, Karnataka, Kerala, Madhya Pradesh, Orissa, Rajasthan, Uttar Pradesh, West Bengal	1,321	N.A.	N.A.	47,331,000	N.A.	2,639,000	N.A.		rupees 2,704 mil.	9,103,000	N.A.	57,800	N.A.	N.A.		rupees 4,850 mil.						rupees 14,103 mil.		
IRAN Research Section Iranian Meteorological Organization	heavy rainfall floods, hail	entire country	5	N.A.	738	5,374	738	93	—	831		N.A.	N.A.	205	N.A.	—										
	heavy rainfall, floods	North Khorasan	N.A.	23	187	14,945	187	N.A.	—	189		N.A.	N.A.	856	N.A.	—										
	heavy rainfall floods, thunderstorms	entire country	13	15	203	N.A.	203	1,202	—	1,408		N.A.	N.A.	707	N.A.	—										
JAPAN Statistics Division Japan Meteorological Agency	heavy rain, floods	Kanto, Tohoku Hokkaido	0	0			0	10	92	1,952		10,298					yen 2.31 mil.	170	7	168				a 0 b 58	N.A.	
	heavy rain, floods	Tohoku	2	0			0	6	1,393	3,764		17,026					7.45	30	3	1				1		
	floods, landslides	west of Tohoku	1	2			2	0	99	441		37					0.21	76	1	0				0		
	typhoon 8205	Chubu, Kanto, Tohoku	3	3			0	2	40	349		1,251					0.11	33	1	26				2		
	drought	Kinki, Chugoku, Shikoku, Kyushu	0	0			0	0	0	0		0					1.62	0	0	0				0		
	heavy rain, floods	Kanto and westwards	345	661			322	529	19,857	83,016		15,354					30.1	1,264	81	162				30		
	typhoon 8210	Shikoku, Chugoku, Chubu, Kanto, Tohoku	95	174			254	5,085	24,587	119,214	N.A.	28,300					255.77	6,411	368	1,942				12		
	typhoon 8211	Kyushu, Okinawa	7	3			56	280	56	745		1					4.67	25	0	0				N.A.		
	heavy rain, floods	Kanto, Chubu, Kinki	0	2			1	1	16	914		0					0.32	116	0	46				0		
	typhoon 8213	west of Chugoku, Kinki, Tohoku	7	28			11	48	374	1,326		1,851					24.82	393	7	1				4		
	heavy rain, floods	Tohoku, Hokkaido, Kinki	0	0			0	0	292	1,203		79					1.8	219	6	51				0		
	typhoon 8218	west of Japan	38	174			139	512	34,822	136,989		20,012					60.67	4,435	267	622				3		
	typhoon 8219	Kanto, west of Kinki	4	12			12	27	201	3,108		292					12.94	153	3	28				22		
	typhoon 8221	Kanto, Tohoku	7	6			8	30	1	43		0					0.14	13	0	0				10		
	heavy rain, floods	Hokkaido, Kinki	2	1			0	12	9	671		129					0.12	66	0	71				0		
	landslides	west of Kanto	15	19			1	75	624	8,776		0					0.48	103	0	0				12		
REPUBLIC OF KOREA Central Meteorological Office	heavy rainfall, floods	entire country	15	8	N.A.	N.A.	56	2	931	991	won 100 mil.	313	—				7,168	3	51	2	160			5	won 15,000 mil.	
	typhoon Cecil	Kyungpang, Cholla	68	45	N.A.	N.A.	139	28	1,587	2,194	400	1,050	32				42,691	25	160	6	599			—		
	typhoon Ellie	Kwangwon, Kyungpang	12	—	N.A.	N.A.	35	—	—	101	200	578	—				35,478	9	190	6	187			8		
	wild winds, rainstorm	entire country	14	2	N.A.	N.A.	4	—	—	8	500	—	—				14	—	—	—	1			530		
MALAYSIA Drainage and Irrigation Department	flood	Kelantan, Trengganu	11	—	—	10,261	—	—	N.A.			500					Malaysian ringgit 2.7 mil.								Malaysian ringgit 5.0 mil.	
	flood	north west Johore	1	—	—	5,188	—	—	N.A.			3,000					N.A.								N.A.	
NEW ZEALAND Meteorological Service	cyclone Bernie	northern, eastern and central areas of north island	2	2	N.A.		1	60	—	—	£ NZ 750,000	N.A.	10,000	N.A.	N.A.	11,200	£ NZ 21.2 mil.	N.A.	2	N.A.	N.A.	N.A.	N.A.	a 5 b 1 c 1	£ NZ 22,995	
	heavy rainfall and floods	Westland, Fiordland	—	—	N.A.		—	2	—	—	N.A.	2,000	0	N.A.	0	—	0	200	4	4	—	—	£ NZ 750,000	0		
THAILAND Meteorological Department	tornado	Auckland	—	2	N.A.		5	60	—	—	£ NZ 500,000	0	0	N.A.	0	—	0	N.A.	0	0	0	0	0	0	0	Baht 226,021 mil.
	monsoon, heavy rainfall and floods	Kanchanaburi, Ratchaburi, Nong Khai	—	—	201	743	N.A.	698	N.A.			14,972	N.A.	—	N.A.			57	11						Baht 5,526 mil.	
	tropical depression Hope	upper Thailand, esp. northeast	28	—	2,729	47,487	N.A.	689	N.A.		Baht 1,480 mil.	475,276	N.A.	51,993	N.A.			Baht 9,999 mil.	2,294	285					Baht 204,017 mil.	
	monsoon, heavy rainfall and flood	southern Thailand east coast	4	1	12	3,573	N.A.	4	N.A.			10,267	N.A.	2	N.A.			Baht 8,000 mil.	227	60					Baht 4,731 mil.	
VIETNAM Central Committee for Typhoon and Flood Control	typhoon 8217 and 9 cyclones	northern Vietnam	38	162	N.A.		1,636	10,794				74,140												a b c	N.A.	
	typhoon 8222	Nghe Tinh	75		N.A.		68,984	125,930				414,200														5,015

Source: Reports on damage caused by cyclones, floods and drought, as returned to Natural Resources Division of ESCAP from ESCAP member countries. The reporting agency is listed under each country heading.

Note: N.A. = not available; — = not applicable.
 1/ for Thailand: families, not persons.
 2/ for Republic of Korea: houses flooded.
 3/ for China: evacuated houses, in the case of Wuhan, figure refers to area flooded; for Hong Kong: buildings.
 4/ for Japan: houses affected by floods rising above the first floor matting; for Republic of Korea: houses and attached buildings.
 5/ for Hong Kong: including weather structures; for Japan: including houses flooded below first floor matting; for Republic of Korea: including furnishings.
 6/ for Japan and Vietnam: inundated, washed away; for Thailand: inundated; for China: acres not heeded.
 7/ for Hong Kong: tons of pond fish; for New Zealand: forests.

7/ for Japan: calculated for crops only.
 8/ for Japan: sites inundated or otherwise damaged.
 9/ a) ships lost or damaged; b) landslides and collapses; c) schools, kindergartens, for Thailand: official premises, schools, temples; for Vietnam: schools, kindergartens, hospitals.
 10/ verbal description given where data not available.
 11/ data refers only to regions mentioned.
 12/ only period 1 June to 10 November covered.