

## Chapter 4: Overview of Natural Disasters in Member Countries

### 4.1 Types of Disasters and their Effects in Member Countries:

This section deals with the pattern of disasters in ADRC member countries. Though ADRC has 24 member countries, here only 20 countries (excluding Singapore, Kazakhstan, Armenia, and Uzbekistan) are discussed due to the disaster records of 2002. The remaining four countries did not have record of significant disasters in CRED-EM-DAT database for 2002. Table 4 shows the disaster situation according to disaster type of each member country that recorded disasters.

According to Table 4, **drought** seriously affected India, highest affected population in the world in 2002. Further, droughts have also badly affected the countries of China, Thailand, Cambodia, Sri Lanka, and Vietnam. Drought has also had a severe impact on the economy of India.

The impact of **earthquakes** is quite high in countries like the Philippines, China, Indonesia, Papua New Guinea and Tajikistan in terms of affected people. Since there is no data on the economic loss due to earthquake disasters in 2002, we cannot say exactly how these disasters affected the economic conditions of these countries.

**Epidemics** had considerable impact on Bangladesh, India and Papua New Guinea in terms of *totally* affected people. Also, the number of people who died due to epidemics is also quite high in Papua New Guinea, Bangladesh, and India in 2002 among ADRC member countries.

**Extreme temperatures** inflicted human loss in India, Bangladesh, and Russia at significant levels and also the number of affected people is high in Bangladesh and Russia.

The most severe disasters in member countries are **windstorms** and **floods**. More than 50% of the total human loss in ADRC member countries is due to these two disasters. Further, about half of the affected population is also due to floods and windstorms. It can also be seen from the data that nearly 87% of the total economic loss in member countries is due to floods and windstorms. Among member countries, the severest damage in terms of human suffering and economic loss occurred in China, India, Bangladesh, Cambodia, Mongolia, Philippines, Thailand, and Vietnam, though most member countries are affected. Also, slides caused considerable human suffering in Nepal and Thailand. Volcanic activities inflicted damages and affected many people in Papua New Guinea and Indonesia. A small portion of people is affected by wildfire disasters in Japan and Russia.

**Table 4:**

<b>Natural Disasters in Member Countries (2002 Summary)</b> <b>(Disaster Type/Country/Disaster Characteristics)</b>					
		Data			
DisType	Country	Count of DisNo	Sum of Killed	Sum of TotAff	Sum of Damage US\$(000's)
Drought	Cambodia	1	0	650,000	38,000
	China, P Rep	2	0	1,218,000	
	India	1		300,000,000	910,721
	Mongolia	1			
	Philippines	1			453
	Sri Lanka	1	0	557,000	
	Thailand	1	0	5,000,000	2,300
	Viet Nam	1	0	1,000,000	
<b>Drought Total</b>		<b>9</b>	<b>0</b>	<b>308,425,000</b>	<b>951,474</b>
Earthquake	China, P Rep	2	2	65,870	
	India	1	2	200	
	Indonesia	4	11	11,847	
	Papua New Guinea	2	5	5,470	

DisType	Country	Count of DisNo	Sum of Killed	Sum of TotAff	Sum of Damage US\$(000's)
	Philippines	1	7	73,390	1,714
	Tajikistan	2	3	2,054	
<b>Earthquake Total</b>		<b>12</b>	<b>30</b>	<b>158,831</b>	<b>1,714</b>
Epidemic	Bangladesh	1	96	49,904	
	China, P Rep	1	5	300	
	India	2	50	5,150	
	Indonesia	1	17	757	
	Papua New Guinea	2	142	2,215	
<b>Epidemic Total</b>		<b>7</b>	<b>310</b>	<b>58,326</b>	
Extreme temp	Bangladesh	1	700	50,000	
	China, P Rep	1	7	3,500	
	India	2	1,930		
	Nepal	1	60	200	
	Russia	1	242	25,062	
<b>Extreme temp Total</b>		<b>6</b>	<b>2,939</b>	<b>78,762</b>	
Flood	Bangladesh	1	10	1,500,000	
	Cambodia	1	29	1,470,000	
	China, P Rep	10	1,228	113,255,696	5,236,680
	India	6	732	42,005,250	30,772
	Indonesia	7	230	133,180	16,000
	Korea, Rep	1	20	27,507	173,224
	Lao, P Dem Rep	1	2	74,500	
	Myanmar	1	21	50,000	
	Philippines	4	85	150,567	392
	Russia	4	174	336,313	507,970
	Sri Lanka	1		500,000	
	Tajikistan	4	32	4,251	2,836
	Thailand	2	154	3,290,920	35,827
Viet Nam	3	207	1,514,816	43,500	
<b>Flood Total</b>		<b>46</b>	<b>2,924</b>	<b>164,313,000</b>	<b>6,047,201</b>
Slide	China, P Rep	4	63	11	
	Indonesia	1	32	5	
	Kyrgyzstan	1	0	1,002	1,500

DisType	Country	Count of DisNo	Sum of Killed	Sum of TotAff	Sum of Damage US\$(000's)
	Malaysia	1	10		
	Nepal	1	472	265,865	
	Papua New Guinea	1	36	174	
	Russia	1	111		
	Thailand	1	39	500,000	
<b>Slide Total</b>		<b>11</b>	<b>763</b>	<b>767,057</b>	<b>1,500</b>
Volcano	Indonesia	1	0	5,000	
	Papua New Guinea	1	0	13,000	
<b>Volcano Total</b>		<b>2</b>	<b>0</b>	<b>18,000</b>	
Wild fire	Indonesia	1	0	200	
	Japan	1	0	222	
	Russia	3		120	
	Viet Nam	1			
<b>Wild fire Total</b>		<b>6</b>	<b>0</b>	<b>542</b>	
Wind storm	Bangladesh	4	122	101,400	
	China, P Rep	6	98	107,403,084	256,500
	India	4	144	15,250	416
	Japan	3	5	100,825	
	Korea, Rep	2	96	91,429	215,000
	Malaysia	1	2	155	
	Mongolia	2	3	665,000	
	Philippines	3	102	714,041	6,914
	Russia	2	17		
	Thailand	2	0	27,500	
	Viet Nam	1	0	1,800	100
<b>Wind storm Total</b>		<b>30</b>	<b>589</b>	<b>109,120,484</b>	<b>478,930</b>
<b>Grand Total</b>		<b>129</b>	<b>7,555</b>	<b>582,940,002</b>	<b>7,480,819</b>