

## **PERU**

### **Floods**

#### **February and April 1971**

... in five separate areas, kill 250 and directly affect 330,000 people.

Value of U.S. Assistance .....\$532,648

#### **DETAILS:**

The five flooded areas were North Coast—Trujillo to Tumbes; Jungle Area; Lake Titicaca Region; Chungar; and Callejon de Huaylas.

##### **North Coast—Trujillo to Tumbes**

In this area where rainfall is rare, heavy rains caused considerable damage in desert cities and towns. Additionally, the rainfall in nearby mountains caused flooding in the river valleys leading to the sea. Numerous villages were cut off temporarily and thousands of acres of cropland were damaged or destroyed, especially in the Piura and Chira valleys. Roads, including the PanAmerican highway, were cut in several places or made impassable.

##### **Jungle Area**

On the eastern side of the Andes, the region along the Ucayali and Amazon Rivers suffered the worst floods in years. Annual

floods in this jungle area cause damage to river towns, but on this occasion damage was more extensive and thousands of people lost their homes, crops and animals.

##### **Lake Titicaca Region**

Constant heavy rains along the northern shores of Lake Titicaca and nearby mountains from late February to April breached the flood-control dikes along the Ramis River close to the Lake. As a result more than 60 square kilometers were flooded. Rising waters of Lake Titicaca united with Lake Arapa and the mouth of the Ramis River. An estimated 2,000 families were affected by this flooding. These families who moved to higher ground lost most of their crops. Loss of housing, plantings and pasture for domestic animals was a serious blow and of grave concern to local authorities. It was estimated that the flooding might continue for several months after the rains ceased, as Lake Titicaca does not have an outlet, depending upon evaporation for lowering of the lake level.

##### **Chungar**

On March 18 a flood/avalanche destroyed the small mining town of Chungar in the Central Sierra, west of Cerro de Pasco killing at least 250 people. In this disaster the steady down-pour loosened thousands of tons of rock which fell into a mountain lake on which Chungar bordered. Most of the town was wiped out.

##### **Callejon de Huaylas**

In this valley between the Cordillera Negra and Cordillera Blanca, steady rainfall for several months added to the destruction caused by the earthquake of May 31, 1970. The people were still living primitively in tents or in temporary pre-fabricated housing provided by the Peruvian Government, Red Cross, U.S. Government or other international voluntary agencies. Their lives were far from pleasant. Several bridges washed away, some on the main highway between Huaraz and Caraz.

The bridge over the Ranrahirca River was swept away four times during the year, isolating the lower end of the valley. The highway between Caraz and the Huallanca electric power plant was cut several times by landslides. Landslides also fell on the entrance road into the Callejon making transportation of consumer items into the valley hazardous.

#### **ACTION TAKEN BY THE GOVERNMENT OF PERU AND LOCAL ORGANIZATIONS:**

##### **North Coast Area from Trujillo to Tumbes**

Local authorities declared a state of emergency over most of these regions.

##### **Jungle Area**

The Government of Peru considered the new flood in this area a continuation of the 1970 flood emergency. Additional relief efforts included establishment of an airlift from Lima to inland staging points to deliver local foods, clothes and medicines and to transport equipment to repair bridges and roads.

Outside food assistance was sought from the U.S. Government. A Food-for-Work Program in the Department of Loreto was approved. The program was placed under the general direction of the Ministry of Agriculture, and the Government of Peru designated Catholic Relief Services/Caritas del Peru as the distributing agent for P.L. 480 Food. The Government of Peru provided \$60,000 for inland transportation, handling and storage of the food.

##### **Lake Titicaca Region**

An emergency assistance committee composed of local authorities and representatives from the Army, Ministry of Agriculture, Education, Housing and Health and volunteer agencies, headed by the Military Commander of the Zone, was formed

to survey the requirements and to channel available assistance to the affected families.

USG Food for Peace commodities were requested and made available.

##### **Chungar**

The Peruvian Red Cross, the Junta de Asistencia Nacional (JAN), the police and other relief organizations immediately organized to assist the survivors and bury the dead. The Ministers of Health and Mines inspected the disaster site on March 19 to assess damage and personally direct assistance operations. JAN and the Peruvian Red Cross sent a caravan of trucks loaded with blankets, medicines, roofing sheets and foodstuffs. Peruvian Air Force assigned three helicopters for use in surveying the site and to transport urgently needed equipment and supplies to the survivors. Nearby towns sent workers to assist in a clean-up project.

##### **Callejon de Huaylas**

The Government expressed concern that the floods would slow reconstruction and economic development in this earthquake affected area. Assistance was given to the flood victims, but specifics were not available.

##### **Summary**

In summarizing information on all of these flood conditions, the U.S. Mission commented: "On the credit side, the various government agencies concerned with immediate disaster relief are showing the experience gained in recent months and assistance of all types is rapidly reaching affected families. President Velasco, in a March 31 press conference, cited the capability of the Emergency Commission under the Chairmanship of the Minister of Health, to respond to such emergencies."

#### ASSISTANCE PROVIDED BY THE U.S. GOVERNMENT:

In the Lake Titicaca Region, at least 15 tons of USG Food for Peace commodities were made available from the national school feeding program. This food was assigned to the Military Commander in charge in the area and distributed to needy families. Value was not reported but is estimated at .. \$ 2,000

For the Department of Loreto, the USG was asked to approve a Food-for-Work Program for the flood victims, which called for a grant to the Government of Peru of 413 metric tons each of bulgur, cornmeal, rolled oats, and CSM and 225 metric tons of vegetable oil. Value of this 1,877 metric tons was \$357,648 plus ocean freight charges of approximately \$175,000 for a total of ..... \$532,648  
\$534,648

No USG assistance was requested for floods in the other areas of the country.

#### ASSISTANCE PROVIDED BY U.S. VOLUNTARY AGENCIES:

Catholic Relief Services and Seventh Day Adventist Welfare Services assisted flood victims through their regular programs, and Catholic Relief Services along with Caritas del Peru was given responsibility of distributing USG P.L. 480 food provided for the Food-for-Work projects.

#### ASSISTANCE PROVIDED BY OTHER NATIONS AND INTERNATIONAL ORGANIZATIONS:

None reported.

**JULY 1, 1970 TO JUNE 30, 1971—REPORTED FOREIGN DISASTER STATISTICS AND EMERGENCY RELIEF EXPENDITURES**

(Note: Includes FY 1972 funds on those disasters beginning in FY 1971 and continuing into FY 1972)

FUNDS EXPENDED OR VALUE OF ASSISTANCE PROVIDED IN THOUSANDS OF DOLLARS (\$1 million will appear as 1,000)											
COUNTRY AND DISASTER	NUMBER KILLED	TOTAL REPORTED VICTIMS	CONTIN- GENCY FUNDS	OTHER AID FUNDS	VALUE OF ASSIST- ANCE OTHER US AGENCIES	P. L. 480 FOOD FOR PEACE		VOLAGS, OTHER U. S. ASSIST- ANCE	TOTAL U. S. ASSIST- ANCE	REPORTED ASSIST- ANCE OTHER NATIONS	REPORTED ASSIST- ANCE HOST COUNTRY
						GOVTS., INT.	ORG. VOLAGS				
			\$	\$	\$	\$	\$	\$	\$	\$	\$
<b>AFRICA</b>											
Dahomey—Floods	—	*	4				100		104	16	18
Zambia—Mine Dis.	89	589	1						1	*	*
<b>Drought Emergencies</b>											
Cameroon	—	400,000					487		487	783	*
Gambia	—	150,000					174		174	—	*
Ghana	—	12,000					116		116	—	*
Kenya	—	150,000					349	62	411	276	700
Mali	—	52,000*					3,473		3,473	—	*
Mauritania	—	505,000					1,717		1,717	—	218
Morocco	—	137,000						78	78	—	*
Niger	—	*					282		282	—	*
Senegal	—	5,000					2,367		2,367	—	*
Togo	—	150,000					564		564	—	*
Upper Volta	—	*					3,410		3,410	—	*
<b>Cholera Epidemics</b>											
Chad	2,312	7,476	56**		40			X	96	558	*
Ethiopia	500	4,000	15						15	9	20*
Ivory Coast	120	1,500	9						9	—	*

(Note: Includes FY 1972 funds on those disasters beginning in FY 1971 and continuing into FY 1972)

COUNTRY AND DISASTER	NUMBER KILLED	TOTAL REPORTED VICTIMS	CONTIN- GENCY FUNDS	FUNDS EXPENDED OR VALUE OF ASSISTANCE PROVIDED IN THOUSANDS OF DOLLARS (\$1 million will appear as 1,000)							
				OTHER AID FUNDS	VALUE OF ASSIST- ANCE OTHER US AGENCIES	P. L. 480 FOOD FOR PEACE GOVTS., INT. ORG.	VOLAGS VOLAGS DOD	VOLAGS, OTHER U. S. ASSIST- ANCE	TOTAL U. S. ASSIST- ANCE	REPORTED ASSIST- ANCE OTHER NATIONS	REPORTED ASSIST- ANCE HOST COUNTRY
			\$	\$	\$	\$	\$	\$	\$	\$	\$
AFRICA—TOTAL	3,021	1,574,565	85		40	12,939	178	62	13,304	1,642	956*
WORLDWIDE CHOLERA ***	4,692*	44,266*	436					49	485	1,102	*
ASIA—NESA											
Cyprus—Cholera			1						1	1	*
E. Pakistan—Floods	*	10,000,000		21		7,150		62	7,233	1,086	12,185
E. Pakistan—Cyclone	300,000	3,648,000	2,658	497	400	12,747	X	2,032	18,334	30,384	51,200
E. Pakistan—C/Strife	200,000*	10,200,000	1,000	16,082**	160	16,168	X	722	34,132	25,236	*
Indian—EP Refugees	5,560*	10,000,000	5,000	15,250**	15,500	46,526	8,599	X	11,435	102,310	191,242
India—Floods	627	10,000,000	74				1,122	39	1,235	1	290*
Iraq—Drought	—	500,000				2,408			2,408	413	50,000
Jordan—Civil Strife	3,500*	1,000,000	4,212	5,000		1,015	191	X	1,398	11,816	7,352
Lebanon—Border Clashes	30	50,030	12				7	188	207	41	10,000*
Nepal—Floods	350	20,350	4					5	9	116	*
Turkey—Earthquake	878	60,000	177				8	40	225	689	33,853
Yemen AR—Drought	—	2,000,000	19			1,058	2,182	82	3,341	4,192	40*
ASIA—NESA TOTAL	510,945	47,478,380	13,157	36,850	16,060	87,072	12,109	16,003	181,251	260,753	494,388
ASIA—EAST											
Malaysia—Floods	61	243,061	260				4	X	2	266	605
Philippines											7,500*

(Note: Includes FY 1972 funds on those disasters beginning in FY 1971 and continuing into FY 1972)

FUNDS EXPENDED OR VALUE OF ASSISTANCE PROVIDED IN THOUSANDS OF DOLLARS (\$1 million will appear as 1,000)											
COUNTRY AND DISASTER	NUMBER KILLED	TOTAL REPORTED VICTIMS	CONTIN- GENCY FUNDS	OTHER AID FUNDS	VALUE OF ASSIST- ANCE OTHER US AGENCIES	P. L. 480 FOOD FOR PEACE		VOLAGS, OTHER U. S. ASSIST- ANCE	TOTAL U. S. ASSIST- ANCE	REPORTED ASSIST- ANCE OTHER NATIONS	REPORTED ASSIST- ANCE HOST COUNTRY
						GOVTS. INT. ORG.	VOLAGS DOD				
			\$	\$	\$	\$	\$	\$	\$	\$	\$
Floods/Typhoons (2)	137	78,137	10			63	118	X	119	310	
Typhoons Joan/Kate	1,551	1,215,551	1,540		100	2,184	155	X	115	4,094	323
Typhoon Patsy	786	430,786	39		200		161	X	187	587	11,050*
ASIA—EAST TOTAL	2,535	1,967,535	1,849		300	2,247	438		423	5,257	928 18,500
EUROPE											
Italy—Floods	37	1,300,000	17					X	—	17	5 120,000
LATIN AMERICA											
Barbados—Floods	3	203	5						5	20	79
Brazil—Drought	*	10,000,000				3,459	14		44	3,517	59 66,500
Brazil—Floods	172	104,543	1				13		22	36	— 500*
Brazil—Floods	109	11,109	5				5		*	10	5 600*
Chile—Snow/Rain Storm	—	90,000	93				10	X	5	108	2,010 *
Colombia—Earthquake	—	3,000	2	3					*	5	— 500
Colombia—Floods	307	5,000,000	36				262	X	*	298	47 41,500*
Colombia—Floods			26			205	250	X	*	481	—
Costa Rica—Floods	1	5,201	62	8			4	X	5	79	5 913
Ecuador—Floods	—	10,100					2			2	— 2*
Ecuador/Peru Border											
Earthquake—Ecuador	29	60,029	95				34	X	21	150	42 235*
Peru	29	15,029							8	8	— *

(Note: Includes FY 1972 funds on those disasters beginning in FY 1971 and continuing into FY 1972)

FUNDS EXPENDED OR VALUE OF ASSISTANCE PROVIDED IN THOUSANDS OF DOLLARS (\$1 million will appear as 1,000)											
COUNTRY AND DISASTER	NUMBER KILLED	TOTAL REPORTED VICTIMS	CONTIN- GENCY FUNDS	OTHER AID FUNDS	VALUE OF ASSIST- ANCE OTHER US AGENCIES	P. L. 480 FOOD FOR PEACE		VOLAGS, OTHER U. S. ASSIST- ANCE	TOTAL U. S. ASSIST- ANCE	REPORTED ASSIST- ANCE OTHER NATIONS	REPORTED COUNTRY ASSIST- ANCE HOST
						GOVTS., INT. ORG.	VOLAGS DOD				
			\$	\$	\$	\$	\$	\$	\$	\$	\$
Honduras—Poisoned Food	37	160	1				X		1	—	*
Martinique—Storm	45	5,045	6					18	24	—	*
Nicaragua—Volcano	—	3,000		5		1	X	24	30	18	56
Panama—Crop Failures	—	40,345				32			32	—	*
Paraguay—Floods	—	27,000	6			28	X		34	—	*
Peru—Floods	250	330,250				534			534	—	60*
LATIN AMERICA TOTAL	982	15,705,014	338	16		4,198	655	147	5,354	2,206	110,943
GRAND TOTAL—FY 71	522,212	68,069,760	15,882	36,866	16,400	106,456	13,380	16,684	205,668	266,636	744,837

\* Incomplete or not reported.

\*\* Both Fiscal 71 and 72 funds involved.

\*\*\* Worldwide Cholera statistics do not include those noted separately under individual countries on cholera, nor the 5,560 E. Pakistan refugees who died of cholera in India.

SEVEN-YEAR TOTALS—FOREIGN DISASTER STATISTICS AND EMERGENCY RELIEF EXPENDITURES—FY 1965 THROUGH FY 1971

FUNDS EXPENDED OR VALUE OF ASSISTANCE PROVIDED IN THOUSANDS OF DOLLARS (\$1 million will appear as 1,000)											
FISCAL YEAR	NUMBER KILLED	TOTAL REPORTED OR ESTIMATED VICTIMS	CONTIN- GENCY FUNDS	OTHER AID FUNDS	VALUE OF ASSIST- ANCE OTHER US AGENCIES	P. L. 480 FOOD FOR PEACE GOVTS. OR INT. ORG.	VOLAGS	VOLAGS, OTHER U. S. ASSIST- ANCE	TOTAL U. S. ASSIST- ANCE	REPORTED ASSIST- ANCE OTHER NATIONS	REPORTED ASSIST- ANCE HOST COUNTRY
1971	522,212 <sup>1</sup>	68,069,760	15,882	36,866	16,400	106,456	13,380	16,684	205,668	266,636*	744,837*
1970	72,915 <sup>2</sup>	11,743,040	6,259	11,563	296	21,908	8,709	12,202	60,937	59,493*	96,595*
1969	1,018,534 <sup>3</sup>	32,482,216	4,447	24,771	51	71,913	1,439	12,246	114,867	95,495*	130,974*
1968	4,103	5,455,602	1,357	6,398	3,112	20,440	1,223	7,866	40,396	16,504*	607,108*
1967	17,547	14,223,092	6,167	5,772	371	31,230	37,816	12,235	93,591	173,233*	2,964,747*
1966	7,086	4,139,646	652	983	56	21,459	2,271	1,572	26,993	9,566*	*
1965	47,089 <sup>4</sup>	5,504,173	2,433	18,728	—	21,137	4,077	3,751	50,126	3,576*	*
7-YEAR TOTAL	1,689,486	141,617,529	37,197	105,081	20,286	294,543	68,915	66,556	592,578	624,503	(billion) 4,544,261*

\* Incomplete or not available. Note that for FY 1965 and 1966 only limited information was available on assistance by other nations and none on self-help. In later years it became possible to obtain more information for these two columns but they are still incomplete.

<sup>1</sup> 500,000 deaths were result of Nov. 1970 Cyclone and 1971 Civil Strife in East Pakistan.

<sup>2</sup> Over 66,000 of total deaths due to May 31, 1970 earthquake in Peru.

<sup>3</sup> Of deaths shown, one million were result of civil strife in Nigeria. This was an estimate—may be too high.

<sup>4</sup> 36,000 of deaths were result of May 11, 1965 cyclone in East Pakistan.



REGION	NUMBER OF DISASTERS BY REGION							7-YEAR
	FY 1971	FY 1970	FY 1969	FY 1968	FY 1967	FY 1966	FY 1965	TOTAL
Africa	16	16	12	11	11	15	15	96
Asia—NESA	12	6	5	13	15	5	12	68
Asia—East	4	5	8	13	15	12	7	64
Europe	1	2	1	3	2	—	2	11
Latin America	17	22	10	15	19	16	14	113
Worldwide	1							1
	51	51	36	55	62	48	50	353