May 19 Torrential Rain Flooding: Disaster Response Reports

Central Emergency Operations Center Data as of 2013/05/21 15:30

1. Summary of the Disaster Situation (Data source: The disaster prevention and relief operations central responsible agency)

With a weather front continuing to affect Taiwan, the Central Weather Bureau issued a heavy rain or extremely heavy rain warning for parts of central and south Taiwan, the north, the northeast and Penghu, and an extremely heavy rain or torrential rain warning for parts of the mountain areas of central and southern Taiwan. Heavy rain in recent days has damaged some roads in central and southern Taiwan, caused agricultural losses, water accumulation and inundation, but luckily there have been no casualties so far. To respond to the disaster that may be caused by continuing torrential rain, the central government's May 19th Central Emergency Operations Center will remain in place. All related departments are requested to be vigilant and to effectively carry of all tasks relating to disaster avoidance, evacuation, provision of shelter and disaster prevention and relief.

2. Disaster Information

A. Cumulative Rainfall

(Data source: Central Weather Bureau, Department of Transportation and Communication)

(Statistics from May 19th, 2013 12:00am ~ May 21st 09:00pm)

Area	Cumulative Rainfall(mm)
Chiayi County Alishan Township Alishan (Mt. Ali)	625
Kaohsiung City Taoyuan District Nantiianshan	569
Taichung City Heping District Shangu uan	481
Nantou County Xinyi Township Shenmu Village	512.5
Tainan City, Nanhua District, Guanshan	448

B. River level (Date source Water Resources Agency, MOEA) Rivers that have not exceed Grade 1 warning (level)

3. Disaster Response:

A. Number of city-county emergency operation centers established (Data source: Ministry of Economic Affairs)

Type	Established	Location
County/City	1	Level 2:Tainan City

B. Danger area establishment situation (Date source: Ministry of Economic Affairs)

				danger areas	·	Implementation situation		
City/County	Low-laying area	Mountain	Sea	River	Others	Warning issued	Penalty notice issued	
Nantou County	0	1	0	0	0	0	0	
Total	0	1	0	0	0	0	0	

C. Mudslide danger area distribution situation

(Data source: Soil and Water Conservation Bureau, Council of Agriculture, Executive Yuan)

None

			Mudflo	ws and Landslid	es Alert Areas			
	Y	ellow Alert			Red Alert		Total	
County/City	Potential	Township	Village	Potential		Village	Potential	Status
	mudslide rivers	Located	Located	mudslide rivers	Township	Located	mudslide rivers	
					Located			
Taipei City	0	0	0	0	0	0		null
New Taipei City	0	0	0	0	0	0	0	null
Taichung City	0	0	0	0	0	0	0	null
Tainan City	0	0	0	0	0	0	0	null
Kaohsiung City	77	4	24	0	0	0	77	null
Taoyuan County	0	0	0	0	0	0	0	null
Hsinchu County	0	0	0	0	0	0	0	null
Miaoli County	0	0	0	0	0	0	0	null
Nantou County	0	0	0	0	0	0	0	null
Changhua County	0	0	0	0	0	0	0	null
Yunlin County	0	0	0	0	0	0	0	null
Chiayi County	0	0	0	0	0	0	0	null
Pingtung County	0	0	0	0	0	0	0	null
Yilan County	0	0	0	0	0	0	0	null
Hualien County	0	0	0	0	0	0	0	null
Taitung County	0	0	0	0	0	0	0	null
Keelung City	0	0	0	0	0	0	0	null
Hsinchu City	0	0	0	0	0	0	0	null
Chiayi City	0	0	0	0	0	0		null
Total	77	4	24	0	0	0	77	-

Note: Response to alert

D. Mountain climber contact

(Data Source: National Police Agency, Ministry of the Interior)

Date table made: May 21st, 2013

	A nnli	ad Eor	Dorguedo	Persuaded to not		People who have entered mountains and contact made with							Ente	ered
						J., 1.£	In s	safe	Tolvino	مر 4 امراد	Curr	ently	mounta	in area
	Ente Mountai	in Areas		lountain eas	mour	itaine		nodation	on the	shelter e spot	leav		but no	
					1110 611		in mountain area		spot	mounta	in area	made wi	th as yet	
	Case	Person	Case	Person	Case	Person	Case	Person	Case	Person	Case	Person	Case	Person
Ī	172	1063	164	901	7	150	1	12	0	0	0	0	0	0

(Note: People who have not been contacted means the climbers have not contacted rangers, family members, or police for more than 48 hours after entering mountain areas. This statistical data is filled in and reported by the National Police Agency, Ministry of the Interior after collecting

E. Ensconced fishermen from Mainland China (Data source: Council of Agriculture of Executive Yuan)

None

^{1.}Yellow alert (predicted rainfall higher than the mudslide warning base value: local government should begin to persuade potentially at risk people to leave

^{2.}Red alert (actual rainfall reached the mudslide warning base value): local government should, in accordance with the actual rainfall and situation in each area, carry out forced evacuation.

F. School and work suspension situation

(Data Source: National Fire Agency, Ministry of Interior)

The school and work are suspended at Zhang Shan Primary School and Taoyuan Junior High School, Taoyuan District, Kaohsiung City

4. Evacuation and Shelter Status

A. Evacuated people

(Data Source: Department of Civil Affairs, Ministry of Interior)

_ `	,	· /	
Directly-	Estimated number of evacuated	Number of Evacuated People	Accumulative number of
controlled municipality/ City /	people		Evacuated People
County			
Tainan City	2	2	2
Kaohsiung City	174	174	174
Total	176	176	176

B. Shelter situation

(1) Shelter (Data Source: Department of Social Affairs, Ministry of Interior)

An accumulated total of four shelters have been opened with an accumulated total of 174 people sheltered; at

present two shelters are open and hold 29 people.

present tv	Shelter						Current Number of People		N	Accumulative Number of		Current Number of		Is hot food	
County/ City	District/ Township	Total	Shelter	Set up time	Closed time			Female		Peop Male		Peop Person		to be provided on the basis of a verbal contract or by private groups	Note
	Yanchao District		Ganshan Veterans' Home	2013/05/19 13:00		23	12	11	24	12	12	0	0	Yes	
	Taoyuan District		Qinhe Platform	2013/05/19 20:00	2013/05/20 17:00	0	0	0	92	46	46	92	14	Yes	92
Kaohsiung City	Kaohsiung Taoyuan City District 4	4	Mashowaru Cultural Meeting House	2013/05/19 21:00	2013/05/20 17:00	0	0	0	33	21	12	33		Yes	33
	Taoyuan District		Fuxing Village Seventh-day Adventist Church	2013/05/19 20:00		6	4	2	25	13	12	25		Yes	25

(2) Residents sheltered in military bases (Data Source: Ministry of National Defense)

35896 residents are sheltered in 102 bases

33070 residents are si	3000 residents are sherered in 102 bases								
	Table of military camps that are planned for use as shelters for evacuated people								
Area	3 rd combat zone (North)	5 th combat area (Central)	4 th combat area	2 nd combat area (East)					
			(South)						
Military camp shelters	35	35	24	8					
total		10)2						
Capacity	13461 person	13153 person	7024 person	2258 person					
Total		35896	person	•					

C Relief supplies issued (Data source: MOI)

None

(Note: This form should be filled in by the disaster-affected area)

5. Disaster statistics

A. Death and injury

(Data source: National Fire Agency, MOI)

None

(Note: The personnel list is attached as a separate table)

B. Lifelines Damage

(Data Source: Ministry of Economic Affairs, National Communication Commission)

		NT1	Has been repaired	Waiting to be	,
Unit	Item	Number		repaired (household,	Note
		Affected	location)	location)	
	Tap Water	0	0	0	
Ministry of Economic Affairs	Electricity	290	290	0	Nationwide 290 households suffered power cuts; repairs have been carried out and power to all was restored by 09 : 20 on May 20
	Gas	0	0	0	
NCC	Telephone (Local Telephone)	0	0	0	No damage
	Telephone (Base Station)	3	0	3	will repair before 08:00 on May 24

(Note: This table is compiled by the MOEA using NCC statistics)

C. Transport situation -

(1) Transport situation -Blocked roads and repair situation

(Data Source: Ministry of Transportation and Communications)

(Data Source: Millisti	ry or rranspor	เลเบบน ล	na Commu	incations)
Item	Disaster-affected Places	Renaired	Not yet	Noted
Item	Places	псрапса	Repaired	
National Highway	0	0	0	
Provincial Highway	22	18	4	Roads Closed 1. Provincial HWY. No. 24 Ali 46.5K 2. Provincial HWY. No. 20 Qinhe (97K-102K) 3. Provincial HWY. No. 21 From Namaxia Township to Wulipu(209K-221K) 4. Provincial HWY. No. 20 Fuxin(102K+300-102K+400)
(Self) Adopted County Road	4	4	0	
Township Road	0	0	0	
Native village main access Route	0	0	0	
Agricultural Route	0	0	0	
City Road	0	0	0	
Total	26	22	4	

(Note: List of damaged roads is attached as a separate table)

(Note: This table has been filled in after compiling data from the Council for Indigenous Peoples, COA and CPA.)

(2) Closed bridges (Data source: MOTC)

None

(Note: This table has been filled in after compiling data from the Council for Indigenous Peoples, COA and CPA.)

(3) Cancelled Railway Service (Data source: MOTC)

None

(4) Air flight Cancellation Situation(Data source: MOTC)

None

Item	Day/Time	Airline	Flight	Delay or	Reason
			Information	Cancel	
1	05/21	HONGKONG	HKG/TPE	Delay	Climate
	13:20	AIR			Factors
2	05/21	UNI AIR	KHH/	Delay	Climate
	12:30		Magong		Factors
3	05/21	DAILY AIR	KHH/	Cancel	Climate
	10:20		Won-An		Factors

(5) Inundated areas (Data source MOEA)

None

D. Water control facility damage and repair

(Data source: Ministry of Economic Affairs)

Type of	Number	Repair	Under	Note	
Facility	Damaged	Completed	Repair	Note	
River Wall	1	1	0	09:25 05/19; the left bank 300 meters below Yongan Bridge on Qian Creek in Linnei Township, Yunlin County, collapsed; Repairs were completed at 6pm on May 19th, 2013.	
Sea wall	0	0	0		
Others	0	0	0		

E. Agriculture, forestry, fishing, animal husbandry product and equipment losses

(Data source: Council of Agriculture of Executive Yuan)

		Farming,	forestry, fishir	ng and anima	l hus	bandry					
		industry losses (unit NT\$1000)						husbandry industry			
City/County	Total	Sub-total	Agricultural product	Livestock and Poultry	Fish	Timber	Sub- total	Fields and farming facilities	Animal and poultry facilities	Fishermen's and fishing industry facilities	
Kaohsiung City	15668.67	15668.67	15668.67	0	0	0	0	0	0	0	
Taoyuan County	101.16	101.16	101.16	0	0	0	0	0	0	0	
Hsinchu County	235.8	235.80	235.80	0	0	0	0	0	0	0	
Yunlin County	1230.75	1015.75	995.75	20	0	0	215	0	215	0	
Tainan City	37.28	37.28	37.28								
Pintung County	57341.76	57341.76	57341.76	0	0	0	0	0	0	0	
Hsinchu Forest District Office	17	17	0	0	0	17	0	0	0	0	
Total	74632.42	74417.42	74380.42	20	0	17	215	0	215	0	

6. City and County Emergency Operations Support situation

A. City and County Emergency Operations Support situation(Data source: National Fire Agency, MOI)

B. Disaster relief personnel, equipment and mission implementation situation (Data source: MND, NFA MOI, NASC MOI, CPA MOI, Coastguard Administration)

MASC M	$\mathbf{o}_{\mathbf{i}}, \mathbf{c}_{\mathbf{i}}$	A MOI, Coasiguaru	Aummsu auon)			
Personnel, equipment, mission	military	(National Fire Agency (incl. volunteers)	Police (incl. volunteers and civil defense)	Flight crew	Coastguard p rsonnel	Total
Mobilized personnel (times)	20(20)	24(0)	0(0)	2671(2671)	0(0)	2715(2691)
Helicopter (flights)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Surveillance planes (flights)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Various vehicle (times)	1(1)	0(0)	0(0)	0(0)	0(0)	1(1)
Ships/boats(incl. inflatable boats)	()(())	0(0)	0(0)	0(0)	0(0)	0(0)
Various types of vehicle	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Number of people rescued	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Materials transported (ton))	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
Rations transpor ed (servings)	1 (7(())	0(0)	0(0)	0(0)	0(0)	0(0)
Earth, rock and trash removed (ton)	1 ()(())	0(0)	0(0)	0(0)	0(0)	0(0)
Area disinfected (square meters)	1 (((())	0(0)	0(0)	0(0)	0(0)	0(0)

Note: the table's data is the accumulated numbers (Single newly added)

C. Emergency force preparation (Data source: Ministry of National Defense)

The first emergency response force has 800 people and can be deployed within 10 minutes of being ordered; the second response force of 1200 persons can be deployed within three hours of being ordered.

the second response to	ice of 1200 persons c	an be deployed with	in unce hours or being (nacica.					
Table of military emergency response forces of various combat zones on main island Taiwan									
Area	3rd combat zone (North)	5 th combat zone (Central)	4th combat zone (South)	2nd combat zone (East)					
First emergency response force	200 people	200 people	200 people	200 people					
Place									
Total		800	people						
Second response force	300 people	300 people	300 people	300 people					
Place									
Total		800	people						

D. Military personnel deployed in high risk areas in advance (Data source: Ministry of National Defense)

The military has deployed 130 servicemen and 55 vehicles of 6 types in advance in high risk areas.

Table of	Table of military personnel and vehicles deployed in advance in various combat zones on main island Taiwan									
Area	3rd combat zone	5th combat zone 4th combat zone 2nd combat zone		2nd combat zone	Area					
Aica	(North)	(Central)	(South)	(East)	Alca					
	West base, Xihu,	Artillery Testing	Huoniu base							
Place	Linkou	Center, Dapu,	Truomu basc							
	Lilikou	Yunlin								

Number of forward personnel	23 people	13 people	94 people	0 people	130 people
Number of vehicles in place	12 of 2 types	3 of 2 types	40 of 2 types	0 of 0 types	55 of 6 types

7. Dispatch of helicopter to carry out a mission (Data source: National Rescue Command Center)

None

8. Key response measures (Data source: Central Emergency Operations Center)

- 1. The Central Emergency Operation Center held its first advance information judging meeting at 16:00 on May 16 and the second on May 19 at 14:30; the level 2 Central Extremely Heavy Rain Emergency Operations Center at 19:00 on May 19; the first work meeting was held at 20:00.
- 2. Various departments will remain on alert 24 hours a days, closely monitor Central Weather Bureau rain reports, keep abreast of the disaster situation in key areas and be prepared for horizontal coordination and communication, and to provide for mutual cooperation and support.
- (1) The MOEA continues to strengthen reservoir flood discharge warnings, river water level warnings and flood prevention preparations, and is flexibly dispatching pumps and strengthening testing of pump operation in accordance with Central Weather Bureau reports and maintaining a grasp of the disaster situation together with the MOI
- (2) In coordination with local county/city government, the MOI and the MOTC has restricted access to blocked roads and is closely monitoring the daily essential supply situation for stranded residents; the CLA and the MOI are monitoring the rainfall situation for villages within the scope of debris flow warnings issued by country government; if it is judged that preventive evacuation is necessary, township chiefs are requested to use their authority to directly issue an evacuation order and implement shelter provision work.
- (3) The MOTC is closely monitoring the river water level and upstream rainfall situation and is inspecting roads and bridges where danger can easily occur; in the event that concerns about safety arise, the road or bridge will be closed following a Standard Operating Procedure and vehicles and people prevented from passing. The public will also be provided with a guide to an alternative route; when there is no alternative route, an effort will be made to reopen the bridge/rod as soon as possible.
- (4) The Ministry of Defense's various combat zones continue to prepare personnel, vehicles, helicopters and equipment, have carried out preparations for forward deployment of relief manpower, and are ready to engage in disaster relief at any time
- (5) Media channels are requested to disseminate points for attention for flood-prone areas; members of the public are called upon to take precautions against extremely heavy rain; do not be complacent; to stay safe, avoid the seashore and mountain areas unless necessary.
- (6) The CWD forecasts that May 21-23 Taiwan will still be affected by a plum rain front and southwesterly air current and, although the rain will ease, there is still a chance of heavy or extremely heavy rain in parts of west Taiwan; people in low-lying areas in the west should take precautions against inundation; in mountain areas, precautions should be taken against slope and road disaster.

9. List of casualties and missing persons

None

Number of evacuated persons (Data source: Department of Civil Affairs)

City/County To	Township Location	Passon	Time of	Number of people who	Actual number of	Shelter	
	TOWNSHIPL	Location	incason	evacuation	should be evacuated	evacuated persons	location
Tainan City					2	2	
Kaohsiung					174	174	

City							
Total	-	-	_	-	176	176	-