

# 1011 Torrential Rain - Disaster Response Report (Flood)

Report Unit: Central Disaster Emergency Operations Center

Data Statistics Deadline: 10/15/2017 09:30

## I. Summary of Disaster (Data Source: Water Resources Agency, Ministry of Economic Affairs)

As recorded, cumulative flood disaster at 50 sites; 48 sites among them with water retreated, 2 sites not retreated yet (1 site at Hualien County, 1 site at Taitung County). Total 22314 households were electricity suspended once; at present, total 19 households electricity suspended (19 households at Sofeng Township, Hualien County) and road collapsed that estimated to finish repair on Oct. 15, 2017 at midnight.

## II. Basic information of disaster

### 1. Rainfall (Data Source: Central Weather Bureau, Ministry of Transportation and Communications)

(Statistics from Oct. 15, 2017 at 00:00 to Oct. 15, 2017 at 08:10)

Regions	Rainfall ( mm )
Luye Township, Taitung County	272.0
Yienping Township, Taitung County	247.0
Taiwu Township, Pingtung County	203.0
Kuansan Township, Taitung County	212.0
Kimfeng Township, Taitung County	211.0

### 2. River Water Level (Data Source: Water Resources Agency, Ministry of Economic Affairs)

Level 2 emergency alert: New Taipei City – Sankueishan Bridge; Taitung County- Talun, Rueyyuan, Luming Bridge

Level 3 emergency alert: Taitung County – Taitung Tachio, Shinwulu (4)

## III. Response Action

### 1. The established situation of Disaster Respond Centers in countries (Data source: Water Resources Agency, Ministry of Economic Affairs)

Category	Established	Names of country(ies) or county(ies)
Central	1	Central Emergency Operations Center
County/City	5	New Taipei City, Hsinchu County, Yilan County, Hualien County, Taitung County

### 2. Mudslide danger area distribution situation (Data source: Soil and Water Conservation Bureau, Council of Agriculture, Executive Yuan)

County/City	Mudflows and Landslides Alert Areas							
	Yellow Alert			Red Alert			Total	
	Potential mudslide rivers	Township Located	Village Located	Potential mudslide rivers	Township Located	Village Located	Potential mudslide rivers	Status
Yilan County	15	2	8	44	5	12	59	-
Keelung City	-	-	-	9	1	6	9	-
New Taipei City	4	2	3	17	3	8	21	-
Taitung County	92	11	36	71	8	29	163	-Newly increased 41 red alerts
Hualien County	88	11	36	80	9	30	168	-Newly increased 23 red alerts
Total	199	26	83	221	26	86	420	64

Note: Response to alert

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.
3. Status: (+) indicates the number of increased entries; (-) indicates the number of decreased entries.

### 3. Mountain climber contact (Data Source: National Police Agency, Ministry of the Interior)

Table made: on Oct. 15, 2017

Applied For Entering Mountain Area		Persuaded not to Enter Mountain Areas		People who have entered mountains and contact made with (240 cases, 1607 persons)								Entered mountain area but no contact made with as yet	
				Already left mountains		In safe accommodation in mountain area		Taking shelter on the spot		Currently leaving mountain area			
case	person	care	person	case	person	case	person	case	person	case	person	case	person
608	3450	336	1664	174	949	38	544	3	21	43	212	14	60

(Note: "Haven't responded" referred to the hikers in the mountain haven't connected with personnel, family or police for over 48 hours. The form is filed and reported by National Police Agency and Construction and Planning Agency.)

### 4. Work and class suspension (Data source: world wide web of Directorate-General of Personal Administration, Executive Yuan)

Taitung County: This afternoon (14<sup>th</sup>), all county was at suspended class and work; on 15<sup>th</sup>, Hongyeh Village and Shia Li Area of Taoyuan Village, Yienping Township, Sanyeh Area of Nuansan Village will be at suspended class and work.

## IV. Evacuation and Capacity situations

V.

**1. Number of Evacuation (Data source: Interior Ministry Civil Affairs Department)**

Municipal County/City	Estimated Evacuated Person	New Added Evacuated Person	Accumulated Evacuated Person
New Taipei City		0	122
Yilan County		0	128
Hualien County		1,126	1,408
Taitung County		85	116
Total		1,211	1,774

**2. Capacity Situation**

**(1) Refuge shelter (Data source: Ministry of Health and Welfare)**

25 shelters accumulated with total 284 sheltered persons, at present, total 25 shelters and 263 persons took shelter in total.

Municipal County/City	District/Township	Shelter		Set up time (year, month, day, time)	Closed time (year, month, day, time)	Current Number of People			Accumulative Number of People			Current Condition of Provision Available		Is hot food continuing to be provided on the basis of a verbal contract or by private groups
		subtitle	Name of the Shelter			Total	Male	Female	Total	Male	Female	Person	Day	
New Taipei City	Sijhih Dist.	1	Fushing Hotel	2017/10/13 10:00		8	2	6	8	2	6	5	0	Yes
New Taipei City	Sanzi Dist.	2	Yuansan Citizen Activity Center, Sanzi District Household Registration Center	2017/10/14 11:01		9	4	5	18	7	11	6	90	No
Hualien County	Zhuoxi Township	6	Qingshui Activity Center, Zhuoxi, Lunsan, Taiping, Cherlo, Kuheng Elementary Schools	2017/10/13 22:15	2017/10/13 22:16	29	17	12	41	22	19	3	10	yes

Hualien County	Fenglin Township	1	Loho Hall	2017/10/14 16:46		12	5	7	12	5	7	1	12	yes
Hualien County	Siolin Township	5	Santsan Shelter Station, Wenlan Shelter Station. Siolin Shelter Station, Fushi Shelter Station, Chongdeh Shelter Station	2017/10/14 18:36		46	23	23	46	23	23	0	0	yes
Hualien County	Yuli Township	1	Tungfeng Activity Center	2017/10/14 16:00		12	6	6	12	6	6	0	0	yes
Hualien County	Fengbin Township	3	Fl. 2 Complex Classroom of Shinshe Elementary School, Baliwan Christian Church, Gichi Village Office	2017/10/14 02:30		57	27	30	57	27	30	9	70	yes
Taitung County	Beinan Township	1	Taitung County Farmer's Association Tung Yio Chi Spring Resort	2017/10/14 15:30		3	1	2	3	1	2	0	0	yes
Taitung County	Chisan Township	1	LIFE Resort	2017/10/14 16:00		4	3	1	4	3	1	0	0	yes
Taitung County	Yienping Township	1	Hongyeh Elementary School	2017/10/14 16:48		46	23	23	46	23	23	0	0	yes
Taitung County	Dawu Township	1	Aikuopu Branch School	2017/10/14 18:00		31	14	17	31	14	17	0	0	yes
Yilan County	Nanao Township	1	Nanao Township Household Registration Center	2017/10/14 17:00		4	1	3	4	1	3	7	20	yes
		25				263	127	136	284	135	149	31	202	

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

0 settled person at 0 sheltered base.

## 3. Relief Material Release (Data source: Ministry of Health and Welfare)

None

## V. Disaster statistics

### 1. Death and injury (Data source: National Fire Agency, Ministry of the Interior)

None

### 2. Lifelines Damage (Data Source: Ministry of Economic Affairs, National Communication Commission)

Unit	Item	Number Affected	Has been repaired (household, location)	Waiting to be repaired (household, location)	Note
Ministry of Economic Affairs	Tap Water	0	0	0	
	Electricity	22314	22295	19	(19 households at Sofeng Township, Hualien County) with road collapsed.
	Gas	0	0	0	
NCC	Telephone (Local Telephone)	0	0	0	
	Telephone (Base Station)	0	0	0	

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

### 3. Transport situation –

(1) Highway situation –preventive closure at 3 sites, disaster closure at 3 sites.

No	Position of Route	County / City	Name of Nearby Place	Current Repair Measure (exact action)	Blocked Time	Estimated Repair Time
1	Provincial HWY No. 23 006K+900~012K+000	Fuli Township, Hualien County	Fengnan Village	Preventive Closure	2017/10/13 23:00	10/15 12:00
2	Provincial HWY No. 23 016K+568~025K+100	Tungho Township, Taitung County	Bei yuan, Tungho Township	Preventive Closure	2017/10/14 17:00	10/15 12:00
3	Provincial HWY No. 8 111K+000~189K+000	Shincherng Township, Hualien County	Dayuling to Taroko	Preventive Closure	2017/10/14 08:00	10/15 13:00

## Preventive Closure at 3 sites

### Disaster closure at 3 sites

No	Position of Route	County / City	Name of Nearby Place	Current Repair Measure (exact action)	Blocked Time	Estimated Repair Time
1	Provincial HWY No. 20 153K+000~174K+000	Hairuey Township, Taitung County	Shiangyang ~ Lidou	Disaster Closure	2017/10/14 10:30	10/16 14:00
2	Provincial HWY No. 7 093K+320~093K+400	Tatung Township, Yilan County	Niodou Bridge	Disaster Closure	2017/10/13 20:00	10/15 17:00
3	Provincial HWY No. 20 175K+570~184K+700	Hairuey Township, Taitung County	near Wulu	Disaster Closure	2017/10/14 17:00	10/15 10:00

(2) Railway situation – blocked railway has been repaired.

No	Category	Position of Route	County/City	Name of Nearby Place	Current Repair Measure (exact action)	Damaged Condition	Traffic Control Measure	Blocked Time	Exact Repaired Time
1	TRA	Sulin =Sanchia West Line	Sulin Dist., New Taipei City	Banchio Dist.	Electricity facility under repair	From 09:18, Sulin=Sudiou small shuttle line) tram line is broken and fallen. After emergent repair, it is repaired and at normal operation at 14:21.	Banchio = Sulin = Sanchia, east line, single direction drive	10/14/2017 09:18	10/14/2017 14:21
2	TRA	Rueyyuan~Kuansank131+700~k132+100	Luyeh Township, Taitung County	Kuansan Township	Work section staff is monitoring at site and waits for rain stop and water retreat.	Since flooded water is retreating gradually, the route will recover operation (10k/h slow drive)	Route recovers at 10k/h slow drive.	10/14/2017 12:24	10/14/2017 14:15

(3) Air flight service: delayed or suspended air transportation: International airline: 9 flights canceled.

No	Date/Time	Route	Airline	Route or Flight No	Start/Terminal	Delayed or Cancelled
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1	106/10/15 21:10	Int'l	EVA Air	BR820	Macau-Taichung	Canceled
2	106/10/15 13:35	Int'l	Tiger Air	IT371	Taichung-Macau	Canceled
3	106/10/15 15:20	Int'l	EVA Air	BR819	Taichung-Macau	Canceled
4	106/10/15 14:30	Int'l	EVA Air	BR830	Macau-Kaohsiung	Canceled
5	106/10/15 18:20	Int'l	Macau Air	NX668	Macau-Kaohsiung	Canceled
6	106/10/15 19:25	Int'l	Tiger Air	IT322	Macau-Kaohsiung	Canceled
7	106/10/15 09:10	Int'l	EVA Air	BR829	Kaohsiung-Macau	Canceled
8	106/10/15 15:25	Int'l	Tiger Air	IT321	Kaohsiung-Macau	Canceled
9	106/10/15 19:20	Int'l	Macau Air	NX667	Kaohsiung-Macau	Canceled

(4) Port and Sea shipment: 9 lines, 42 shifts of sea shipment canceled.

<b>No</b>	<b>Flight Center</b>	<b>Suspended Date/Time</b>	<b>Shipping Co (Name of Ship)</b>	<b>Shipping Route</b>	<b>Suspended Shift No.</b>	<b>Note</b>
1	Northern Flight Center	106/10/15 00:00	Chishing Shipping(Pearl of East Sea)	Nangang-- Tungying	1	
2	Northern Flight Center	106/10/15 00:00	Daho Shipping(Mingchi No. 8)	Beigang Baisa-- Fuchou Huangchi	2	
3	Northern Flight Center	106/10/15 00:04	Charngyi Shipping (Kimlung Wheel)	Matsu Fuao-- Fuchou Mawei	2	
4	Northern Flight Center	106/10/15 00:00	Kinmen Ship(Anchi No. 2)	Beigang Baisa-- Fuchou Huangchi	2	
5	Northern Flight Center	106/10/15 00:00	Tunglien Shipping (Linan Wheel)	Suao--Hualien	2	
6	Northern Flight Center	106/10/15 00:00	North-south Shipping (Chisoon Fleet)	Nangang--Beigang	12	12 shifts canceled before noon, estimate 10 shifts will work at afternoon.
7	Northern Flight	106/10/15 00:00	Chishing Shipping	Nangang--Lukuang	2	07:00 suspended shipment, depends on sea condition

	Center		(Matsu Star)			
8	Eastern Flight Center	106/10/15 08:35	Lunghong ( Star of Green Island )	Fugang—Green Island	2	1 ship went; 1 ship returned
9	Eastern Flight Center	106/10/15 08:40	Fangli, Kaishuan No. 2	Fugang—Green Island	6	3 ships went; 3 ships returned
10	Central Flight Center	106/10/15 00:00	Bafang Wheel, Pengchiang Wheel	Kinmen-- Xijiang	10	
11	Southern Flight Center	106/10/15 08:00	Yungyieh Shipping	Tainan General Fishing Port--Penghu Tongji Fishing Port	1	

(5) Tourism: tourists were trapped

No	Place	Trapped Date/Time	Trapped Cause	Trapped Number	Countermeasures (exact action)	Note
1	Green Island	10/14/2017 14:44	Initially, Chen Shen Concert would be held on 14 <sup>th</sup> (at present, it's announced to prolong.) so ship is at normal operation before noon and stops at afternoon to cause that.	2660	At present, no food and accommodation problem, no need to accommodate and still under concern.	
2	Lanyu	10/14/2017 14:45	Ships to and fro between Taitung and Lanyu were canceled because of weather factor.	60	At present, no food and accommodation problems, no need to accommodate.	

(6) Situation of Drowned Areas (Data Source: Ministry of Economic Affairs)

Total 50 sites with accumulated water; 48 sites water retreated, 2 sites under handling (1 site at Hualien County and 1 site at Taitung County).

Counties and Cities	Current Number of Counties/Cities	Total Disaster Number	Water Retreated (sites)	Water Not Retreated (sites)
Taipei City	1	2	2	0
New Taipei City	1	1	1	0
Yilan County	6	20	20	0
Hualien County	7	9	8	1
Taitung County	5	17	16	1
Hsinchu City	1	1	1	0



Total	21	50	48	2
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#### 4. Water control facility damage and repair (Data source: Ministry of Economic Affairs)

Type of Facility	Number Damaged	Repair Completed	Under Repair	Note
River Wall	0	0	0	
Sea Wall	0	0	0	
Others	0	0	0	

#### V. Agriculture, forestry, fishing, animal husbandry product and equipment losses (Data source: Council of Agriculture of Executive Yuan)

None

### VI. City and County Emergency Operations Support situation

#### 1. Support Situation of City and County Emergency Operations (Data Source: National Fire Agency, MOI)

Personnel, equipment, mission	Military
Mobilized personnel ( times )	72
Helicopter (flights	0
Surveillance planes ( flights )	0
Various vehicle ( times )	1
Ships/boats(incl. inflatable boats)	0
Various types of vehicle	0
Number of people rescued	0
Materials transported (ton )	0
Rations transported (servings)	0
Earth, rock and trash removed (ton)	0
Area disinfected (square meters)	0

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

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

The first emergency response force has 800 people and can be deployed within 30 minutes of being ordered; the second response force of 800 persons can be deployed within 30 minutes of being ordered.

Table of military emergency response forces of various combat zones on main island Taiwan				
Area	3rd combat zone (North)	5 <sup>th</sup> combat zone (Central)	4th combat zone (South)	2nd combat zone (East)
First emergency response force	200	200	200	200
Place	Chungli Dist, Taoyuan City	Xinshe Dist., Taichung City	Chisan Dist., Kaohsiung City	Nanmeilun, Hualien County
Total	800 persons(standby force)			

Second response force	200	200	200	200
Place	Chungli Dist, Taoyuan City	Xinshe Dist., Taichung City	Chisan Dist., Kaohsiung City	Nanmeilun, Hualien County
Total	800 persons			

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

The military has deployed 50 servicemen and 0 vehicles of 0 types in advance in high risk areas.

Table of military personnel and vehicles deployed in advance in various combat zones on main island Taiwan					
Area	3rd combat zone (North)	5th combat zone (Central)	4th combat zone (South)	2nd combat zone (East)	Total
Place	stationed at New Taipei City, Yilan area			Stationed at Hualien and Taitung areas	
Number of forward personnel	34 persons (Liaison Officer)			27 persons (Liaison Officer) 24 persons (dispatched force)	61 persons (Liaison Officer)
Number of vehicles in place				3 sets	

### VII. Dispatch of helicopter to carry out a mission (Data source: National Rescue Command Center, Executive Yuan )

None

### VIII. Key response measures (Data source: Ministry of Economic Affairs)

1. Ministry of Economic Affairs has informed the River Bureau of Water Resources Agency and local governments to conduct water pump testing, preparation and pre-planned works and have finished the preparation of 1,017 sets of large moveable pumping machine in Taiwan.
2. Pre-laid 952 sets (681 sets at local and 271 sets at Water Resources Agency) shall be used and handled by the local governments and dispatched to work according to local flood situations at all places.