

1011 Torrential Rain - Disaster Response Report (Flood)

Report Unit: Central Disaster Emergency Operations Center

Data Statistics Deadline: 10/14/2017 12:00

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

As recorded, cumulative flood disaster at 25 sites; 5 sites among them with water retreated, 20 sites not retreated yet (12 sites at Yilan County, 8 sites at Hualien County). Total 14479 households were electricity suspended once; at present, total 281 households electricity suspended (22 households at Tatung Township, Yilan County and 259 households at Shiolin Township, Hualien County) and road collapsed that estimated to finish repair on Oct. 14, 2017 at 18:00.

II. Basic information of disaster

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

(Statistics from Oct. 14, 2017 at 00:00 to Oct. 14, 2017 at 11:00)

Regions	Rainfall (mm)
Taiwu Township, Pingtung County	283.0
Tungsho Township, Taitung County	247.5
Yienping Township, Taitung County	244.0
Beinan Township, Taitung County	234.5
Kinfeng Township, Taitung County	226.0

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

Level 2 emergency alert: New Taipei City – Lan Shen Bridge, Sankueishan Bridge

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)
Country and County	4	New Taipei City, 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
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	Yellow Alert		Red Alert		Total			Status
	Potential mudslide rivers	Township Located	Village Located	Potential mudslide rivers	Township Located	Village Located	Potential mudslide rivers	
Yilan County	14	2	7	23	3	5	37	-
Keelung City	-	-	-	9	1	6	9	-
New Taipei City	4	2	3	14	2	7	18	-
Taitung County	2	1	1	1	1	1	3	newly increased 2 red alerts
Hualien County	10	2	4	35	6	14	45	-
Total	30	7	15	82	13	33	112	2

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. 14, 2017

Applied For Entering Mountain Area		Persuaded not to Enter Mountain Areas		People who have entered mountains and contact made with (case, person)								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
0	0	0	0	0	0	0	0	0	0	0	0	0	0

(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, it reached the standard of work and class suspension, but Taitung County Government did not announce yet.

IV. Evacuation and Capacity situations

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

Municipal County/City	Estimated Evacuated Person	New Added Evacuated	Accumulated Evacuated Person
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		Person	
New Taipei City	0	8	8
Yilan County	0	4	4
Hualien County	0	6	6
Total	0	18	18

2. Capacity Situation

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

2 shelters accumulated with total 14 sheltered persons, at present, total 2 shelters and 14 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	0	0	Yes
Hualien County	Zhuoxi Township	1	Qingshui Activity Center	2017/10/13 22:15	2017/10/13 22:16	6	3	3	6	3	3	0	20	Yes
Total						14	5	9	14	5	9	0	20	

(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	Waiting to be repaired	Note
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			(household, location)	(household, location)	
Ministry of Economic Affairs	Tap Water	0	0	0	
	Electricity	14479	14198	281	(22 households at Tatung Township, Yilan County and 259 households at Shiolin 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 7 sites

Item	Name of Unit	Route Stakes	County/City	Nearby Place Name	Control Measures
1	Hualien Work Section	Provincial HWY No. 11 053K+000~062K+000	Fengbin Township, Hualien County	Fengbin Lide - Xitiping	Preventive closure
2	Yuli Work Section	Provincial HWY No. 23 006K+900~012K+000	Fuli Township, Hualien County	Fengnan Village	Preventive closure
3	Taitung Work Section	Provincial HWY No. 23 016K+568~025K+100	Tungho Township, Taitung County	Beiyuan, Tungho Township	Preventive closure
4	Dulisan Work Section	Provincial HWY No.7, A 005K+000~012K+500	Tatung Township, Yilan County	Dulisan	Preventive closure
5	Dulisan Work Section	Provincial HWY No.7 085K+600~094K+200	Tatung Township, Yilan County	Niodou, Chilan	Preventive closure
6	Gukuan Work	Provincial HWY No. 8085K+000~110K+00	Heping Dist.,	Dayulieng	Preventive closure

	Section	0	Taichung City		
7	Nanao Work Section	Provincial HWY No. 9 104K+700~179K+100	Yilan County	Suao - Chongdeh	Preventive closure

(2) Railway service: at normal operation

(3) Air flight service: delayed or suspended air transportation: domestic airline: 15 flights cancelled,0 delayed.
International airline: 1 flight canceled, 1 delayed.

No	Date/Time	Route	Airline	Route or Flight No	Start/Terminal	Delayed or Canceled	Cause(Airport Closure, Weather Factor, Flight Scheduling)	Note
1	10/14/2017 08:50	domestic	UNI Air	B78782	Bengan-Taipei	canceled	Weather factor	1011 Torrential Rain
2	10/14/2017 08:40	domestic	Daily Air	DA7502	Lanyu-Taitung	canceled	Weather factor	1011 Torrential Rain
3	10/14/2017 10:00	domestic	Daily Air	DA7504	Lanyu-Taitung	canceled	Weather factor	1011 Torrential Rain
4	10/14/2017 07:05	Int'l	Cathay Air	CX465	Taoyuan-HK	canceled	Weather factor	1011 Torrential Rain
5	10/14/2017 07:50	Int'l	Thailand Air	TG637	Taoyuan - Bangkok (BKK)	delayed	Weather factor	1011 Torrential Rain
6	10/14/2017 07:20	domestic	Daily Air	DA7301	Taitung-Green Island	canceled	Weather factor	1011 Torrential Rain
7	10/14/2017 07:40	domestic	Daily Air	DA7501	Taitung - Lanyu	canceled	Weather factor	1011 Torrential Rain
8	10/14/2017 08:40	domestic	Mandarin Airlines	AE392	Taitung-Taipei	canceled	Weather factor	1011 Torrential Rain
9	10/14/2017 09:00	domestic	Daily Air	DA7503	Taitung-Lanyu	canceled	Weather factor	1011 Torrential Rain
10	10/14/2017 06:45	domestic	UNI Air	B78751	Taipei-Nangang	canceled	Weather factor	1011 Torrential Rain
11	10/14/2017	domestic	Mandarin	AE391	Taipei-	canceled	Weather factor	1011

	7 07:20	stic	n Airlines		Taitung			Torrential Rain
12	10/14/2017 07:30	dome stic	UNI Air	B78781	Taipei-Bengang	canceled	Weather factor	1011 Torrential Rain
13	10/14/2017 08:30	dome stic	UNI Air	B79091	Taipei-Nangang	canceled	Weather factor	1011 Torrential Rain
14	10/14/2017 08:30	dome stic	Mandarin Airlines	AE764	Kinmen-Taichung	canceled	Weather factor	1011 Torrential Rain
15	10/14/2017 08:10	dome stic	Daily Air	DA7302	GreenIsl and-Taitung	canceled	Weather factor	1011 Torrential Rain
16	10/14/2017 08:05	dome stic	UNI Air	B78752	Nangang-Taimei	canceled	Weather factor	1011 Torrential Rain
17	10/14/2017 09:50	dome stic	UNI Air	B79092	Nangang-Taimei	canceled	Weather factor	1011 Torrential Rain

(4) Port and Sea shipment: 53 shifts of sea shipment canceled.

No	Flight Center	Suspended Date/Time	Shipping Co (Name of Ship)	Shipping Route	Suspended Shift No.	Causes	Note	Filled Time
1	Northern Flight Center	10/14/2017 08:44	1. At 06:25, informed by the central bureau by phone that because of 1011 Torrential Rain, Ministry of Economic Affairs reported Level 2 Emergency Response.	Nangang--Tungjin	1	Affected by Typhoon Khanun		10/14/2017 09:03
2	Northern Flight	10/14/2017 08:35	Chisoon Fleet	Nangang--Beigang	20	Affected by	partially	10/14/2017 08:44

	Center					Typhoon Khanun	suspended (2 shifts worked, 20 shifts canceled)	
3	Southern Flight Center	10/14/2017 08:33	Taiwan Navigation Co., Ltd.	Kaohsiung--Makong	1	Bad sea condition		10/14/2017 08:41
4	Southern Flight Center	10/14/2017 08:37	Yujie Sea Shipping	General Fishing Port, Tainan – Tunggi Fishing Port, Penghu	1	Bad sea condition		10/14/2017 08:40
5	Central Flight Center	10/14/2017 08:00	Bafeng Wheel, Pengchian g Wheel	Kinmen--Xijin	10	bad weather and odd object at route not exclude yet		10/14/2017 08:36
6	Northern Flight Center	10/14/2017 08:34	Matsu Star	Nangang--Gukuang	6	Affected by Typhoon Khanun		10/14/2017 08:35
7	Eastern Flight Center	10/14/2017 08:33	Kinlung Wheel	Fuao, Matsu -- Fuchou	2	Affected by Typhoon Khanun		10/14/2017 08:33
8	Southern Flight Center	10/14/2017 08:20	Lunghong (Green Island Star)	Fugang - Lanyu	2	Affected by Typhoon Khanun and northeast wind		10/14/2017 08:24
9	Northern Flight Center	10/14/2017 08:22	Mingchu No. 8	Beigang Baisa – Fuchou Huangchi	2	Affected by Typhoon Khanun		10/14/2017 08:22

10	Northern Flight Center	10/14/2017 08:14	Anchi No. 2	Beigang Baisa – Fuchou Huangchi	2	Affected by Typhoon Khanun		10/14/2017 08:21
11	Northern Flight Center	10/14/2017 08:12	Lina Wheel	Suao - Hualien	2	Affected by Typhoon Khanun		10/14/2017 08:14
12	Northern Flight Center	10/14/2017 08:11	Fujian Strait, Kegun	Taipei--Pingtang	2	Affected by Typhoon Khanun		10/14/2017 08:12
13	Northern Flight Center	10/14/2017 08:08	Taima Star	Keelung--Matsu	2	Affected by Typhoon Khanun		10/14/2017 08:11

(5) Tourism: at normal operation

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

Total 25 sites with accumulated water; 5 sites water retreated, 20 sites under handling (5 sites at Tungsan Township; 5 sites at Wjie Township, 1 site at Yilan City, 1 site at Guanwei Township, Yilan County and 3 sites at Fuli Township, 1 site at Fengbin Township, 1 site at Kuangfu Township, 2 sites at Fenglin Township, and 1 site at Chian Township, Hualien 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	4	13	1	12
Hualien County	5	8	0	8
Shinchu City	1	1	1	0
Total	12	25	5	20

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)	50
Helicopter (flights)	0
Surveillance planes (flights)	0
Various vehicle (times)	0
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.

Area	3rd combat zone (North)	5 th combat zone (Central)	4th combat zone (South)	2nd combat zone (East)
Area	200	200	200	200
First emergency response force	Chungli Dist, Taoyuan City	Xinshe Dist., Taichung City	Chisan Dist., Kaohsiung City	Nanmeilun, Hualien County
Place	800 persons(standby force)			
Total	200	200	200	200
Second response force	Chungli Dist,	Xinshe Dist.,	Chisan Dist.,	Nanmeilun,

	Taoyuan City	Taichung City	Kaohsiung City	Hualien County
Place	800 persons			
Total				

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.

Area	3rd combat zone (North)	5th combat zone (Central)	4th combat zone (South)	2nd combat zone (East)	Total
Place	stationed at Yilan area	-	-	Stationed at Hualien area	-
Number of forward personnel	34 persons (Liaison Officer)	-	-	16 persons (Liaison Officer)	50 persons (Liaison Officer)
Number of vehicles in place	-	-	-	-	-

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.