

The Information of Jyunkeng Station

In 1996, typhoon Herb caused small-scale debris flow in Jyunkeng area. In 1996, Jiji earthquake caused geological structure became fragile. Therefore, in 2001, typhoon Toraji caused large-scale debris flow at upstream in Erbukeng river, the riversides were extended by debris flow, and destroyed buildings, bridges, roads and caused casualties. In order to pre-warn the occurrence of debris flow, Soil and Water Conservation Bureau completed the construction of the Jyunkeng station in Jyunkeng Village, Shuili Township, Nantou County in 2002 (The potential debris flow torrent number, Nantou County DF167).

The information of station		Last updated : 2023/06/30	
District	Jyunkeng Village, Shuili Township, Nantou County	Debris Number	Nantou County DF167
Drainage	Zhuoshui River	River	Erbukeng river
Rainfall threshold value for debris flow warning	300 mm	Disaster	Stream debris flow
River length	2.517 km	Catchment area	158 hectares
Geology	Palaeogene period metamorphic rock	Slope	> 50°
Scale landslide in catchment area	Large-scale landslide, landslide rate < 1%	Downstream material accumulation	The average size of debris flow stones are > 12"
Plant growth in the catchment area	Natural forest, medium sparse vegetation	Hazards	Silting and burying, bumping
Facility	None	Priority processing level	High
Elevation	647 m	Coordinate (TWD97)	X coordinate : 236766 Y coordinate : 2626219
Protected object	Residential	Public building	Transportation facilities
	5 or more	Activity Centre	Provincial Highway 21, Jyunkeng bridge
Historical disaster	Typhoon Herb in July, 1996. Typhoon Toraji in July, 2001.		
Monitoring results	1. In 2007, typhoon Krosa caused Jyunkeng accumulated		

- precipitation risen to the warning (10/7 04:00), but did not occur debris flow.
2. In 2008, typhoon Kalmaegi caused Shang-an accumulated precipitation risen to the warning (7 /18 03:20), and steel wire 1 on the right tributary was fractured (7/18 02:36).
 3. In 2008, typhoon Sinlaku caused Jyunkeng accumulated precipitation risen to the warning (9/14 06:30), but did not occur debris flow.
 4. In 2008, typhoon Jangmi caused Jyunkeng accumulated precipitation risen to the warning (9/29 05:10), but did not occur debris flow.
 5. In 2009, typhoon Morakot caused Jyunkeng accumulated precipitation risen to the warning (8/8 22:00), but did not occur debris flow.
 6. The extremely heavy rain on July 19, 2011. Jyunkeng accumulated precipitation risen to the warning (7/19 10:05), but did not occur debris flow.
 7. In 2012, typhoon Saola caused Jyunkeng flooding.
 - (1) Accumulated precipitation risen to the warning (8/2 11:32).
 - (2) Steel wire on left tributary was fractured at downstream (8/2 10:48).
 - (3) Steel wire on left tributary was fractured at upstream (8/2 10:25).
 8. In 2013, typhoon Soulik caused Jyunkeng accumulated precipitation risen to the warning (7/13 09:24) but did not occur debris flow.
 9. In 2013, typhoon Trami caused Jyunkeng accumulated precipitation risen to the warning (8/22 07:22), but did not occur debris flow.
 10. The extremely heavy rain on June 1, 2017. Jyunjeng accumulated precipitation risen to the warning (6/3 08:04), but did not occur debris flow.

Note: Landslide rate= landslide in watershed area/watershed area

