Sediment-related disasters during the Niigata-Fukushima Heavy Rains in July 2004

Date: July 13, 2004

Place: Middle area of Niigata Prefecture

(Tochio City, Izumozaki Town, Yoita Town,

Teradomari Town, etc.)

Meteorological conditions: heavy rain due to the baiu

(seasonal rain) front which became active from July 12.

Observatory Tochio Gauging Station
Continuous rainfall 563 mm (7/12~18)

Maximum hourly rainfall 62 mm/hr (7/13 9:00~10:00)

Number of sediment-related disasters

Debris flow 18 Landslide 98

Slope failure 278 Total: 394

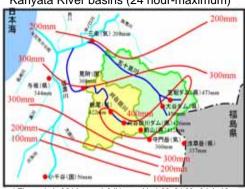
Sustained damage

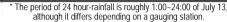
Human damage Killed: 2 Injured: 1

Housing damage Total collapse: 12 Half collapse: 9

Partial collapse: 48

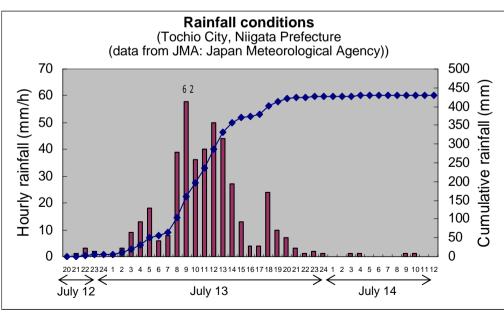
Isohyetal map of the Igarashi River and Kariyata River basins (24 hour-maximum)

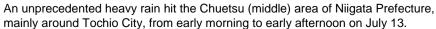




Distribution of total rainfall









Nakayama, Izumozaki Town, Niigata Prefecture (killed: 1, total collapse: 1)

Source: SABO Dept. MLIT, JAPAN