

Analysis of house-damage structure due to flood disaster, 2004 Niigata heavy rainfall

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This survey reports the social environment for damaged house obtained from the field investigation of flood disaster, 2004 Niigata heavy rainfall.

The inundation depth became over 4m near the dyke break point.

In dyke break point and the circumference, the following were confirmed : Runoff of the house and scour of the ground.

The overflow style is regarded as being strong.

In the hearing investigation, the house run in the overflow style drifted, and it collided to other house, and in addition, the case in which the damage was generated was asked.

The large damage house arose, when the inundation depth exceeded 2m, and large damage house and middle damage house occupied the majority in the 3m depth.

In this investigation, it was proven that there was the close relation during damage and building year of the house.

However, the relation could not be confirmed in damage and scale of the house.

It is important to examine the reason of locating the weak building in order to reduce the flood damage.

In present report, the relation between house and resident is also examined.