Disaster Prevention Functions of Irrigation Facilities and Maintenance Activities

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Fig. 1 Study Area and an Outline of Nasunogahara Irrigation Canal System

Nasunogahara Land Improvement District (Tochigi Prefecture)
Fig. 2  Drainage discharge chart of the irrigation main canals

No. 804  29.0  3.2
No. 554  No. 444  16.8  2.6
No. 361  No. 247  33.0 ~ 35.0  30.0  17.0

Buffer pond
Wasteway
Naka Riv.
Head work

(unit: m³/sec)
Photo.1  Main irrigation canal has conducted a inlet channel for flood flow passing

No.1  Side inlet of flood flow

No.2  Flood flow in irrigation canals

No.3  Damage of the irrigation canals
Photo.2 The irrigation canal systems supply fire extinguisher water

No.4 Supply from a wasteway of the Irrigation canal

No.5 Using irrigation water for extinction
Requirements for disaster prevention functions of irrigation facilities

Water release from wasteway

- Irrigation Districts (Public Agencies)
- Operating Procedures for control of water releases
- Operating Systems (TC/TM)
- Local Communication (Water users, Fire station)

Natural river
Supply of irrigation water
Extinction by using irrigation water
Thank you for your kind attention