

A Cornerstone of Global Ice Engineering

Registration No.	Number 00370		
Registration Date	September 10, 2024	Registration Category	Category 2

Name (Model, etc.)	『Research into River Ice, and Particularly Ice-Top Train Tracks』		
Location	Nagoya-shi, Aichi		
	Engineering Library, Nagoya University.		
Owner (Custodian)	Nagoya University.		
Manufacturer (Company)	Bureau of Construction, Railway General Bureau, South Manchuria Railway		
Year Manufactured	1941		
Year first appeared	1941		
Reason For Selection	This material is the results report of an ice-top track train operation experiment conducted at the Second Songhua River, a river in northern Manchuria for two winters from the autumn of 1939. In order to test whether or not it was possible for trains to run over a frozen river, various experiments were conducted from 1939 to 1941 on the Second Songhua River, which runs between Changchun and Harbin. The experiments included frozen ice plate load bearing tests and actual train operation. The report was printed in August 1941 as top-secret materials in a limited run of 300 copies, and approximately 260 copies were distributed. After WWII, it became widely recognized internationally as well, and a reprint edition was subsequently published. This research is significant not only as a cornerstone in global ice engineering but also in the fields of civil and railway engineering.		
Registration Standard	1-A (Show an important aspect or stage of the development of science and technology.)		

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Photo		
Other useful information		