Details of Technology

Name of Technology	Prevention of rodent damage in roll-wrap silage	Agriculture, Forestry and Fisheries
Name/Post/Faculty	Yoshitaka Deguchi / Associate Professor / Animal Science Academic Group	
Key words	dent corn, feed rice plant, roll-wrap silage	

What kind of technology is this?

Outline

The effects of physical preventive methods such as rodent return and of repellents on rodents taking outdoor roll-wrap silage have been examined.

【Research output contents】

We elucidated that rodent food damage in outdoor roll-wrap silage occurred in the winter continuous snow season (continuous snow cover) and that the rodent hole in the roll underground was important as the invasion route. On the other hand, it was clarified that the indoor rodent repellents could not be used in the outdoors and that the repellents for farm products had no rodent preventive action. It was found that a physical preventive method, spreading of the wire net under the roll, could prevent the rodent invasion from the roll underground. It was also suggested that the mowing of the grass around the roll might be effective for the invasion prevention.

What are its applications?

Besides the existing roll-wrap grass silage, dent corn cutting roll-wrap silage and whole crop silage have been used. Then the rodent damage to roll-wrap silage has occurred. The study on rodent control performed until now was mainly in the indoor facilities such as building, and in young trees and vegetables in a plantation. Until now, no preventive method for outdoor rodent food damage has been studied. If the present technology is established, the rodent damage to outdoor roll-wrap silage in farmers etc. can be decreased.

Related patents	None
Related materials	Tomohiro Kumagai, Yoshitaka Deguchi and Junpei Yasuda (2008). Cases of wild rodent damage to corn cutting roll-bale silage in the winter of 2006. Animal Behaviour and Management, 44: 36-37

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