

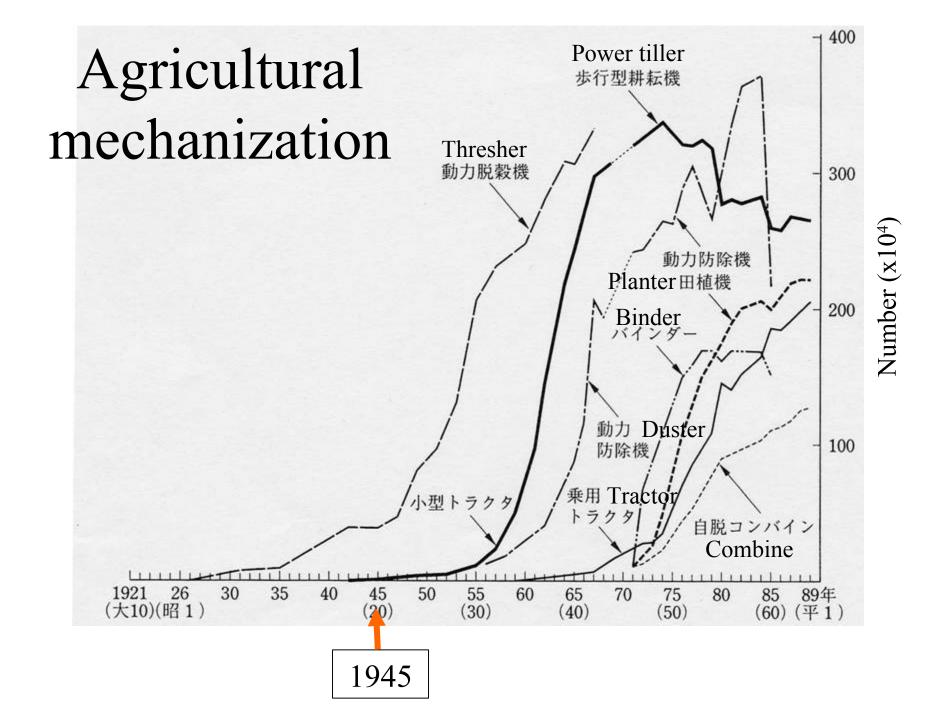


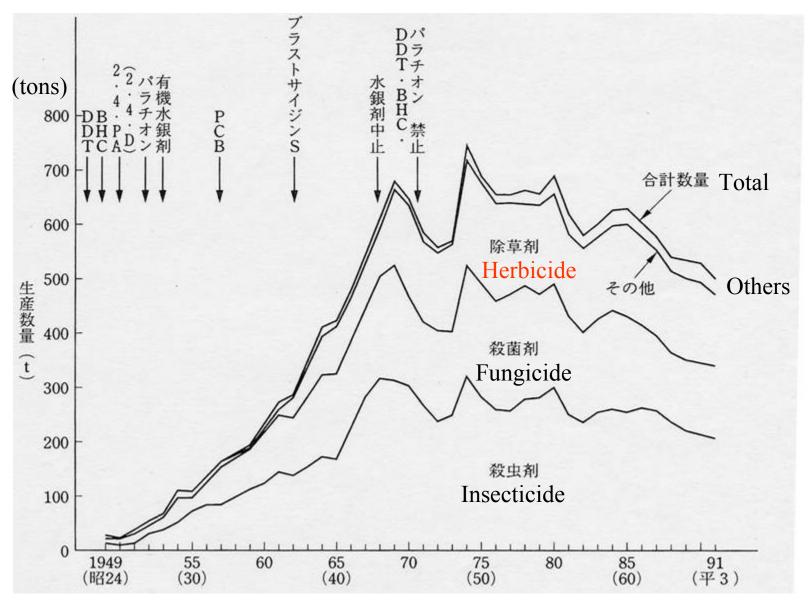




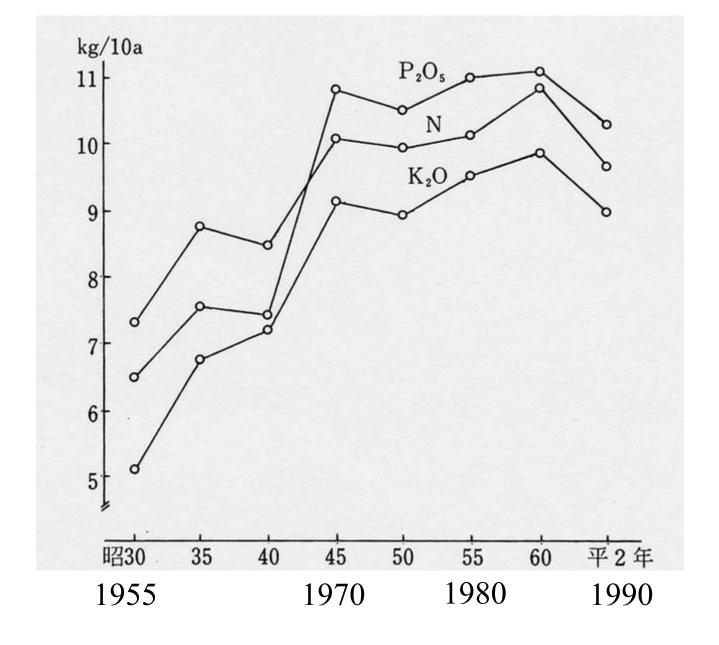


Rice farming in 1950s





Agricultural chemical production



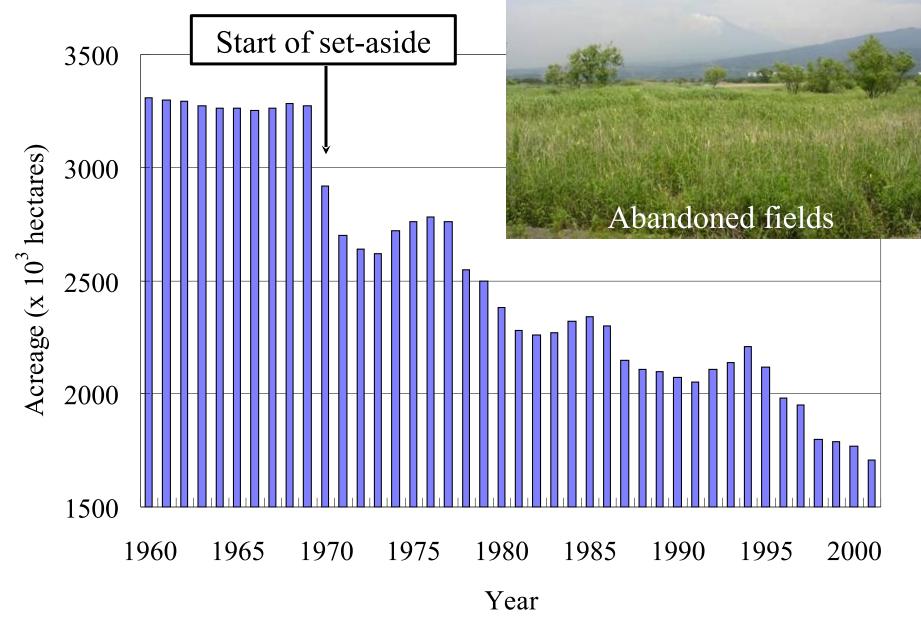
Chemical fertilizer application

Farmland consolidation rate and man hours for rice cultivation



1975 2002

Farm land consolidation



Planted acreage of rice fields

Threatened rice field weeds

Species*	Red List category
Marsilea quadrifolia	Vulnerable
Salvinia natans	Vulnerable
Azolla japonica	Vulnerable
Hypericum oliganthum	Endangered
Myriophyllum ussuriense	Near threatened
Veronica undulata	Near threatened
Utricularia australis	Vulnerable
Sagittaria aginashi	Near threatened
Blyxa echinosperma	Vulnerable
Monochoria korsakowii	Vulnerable

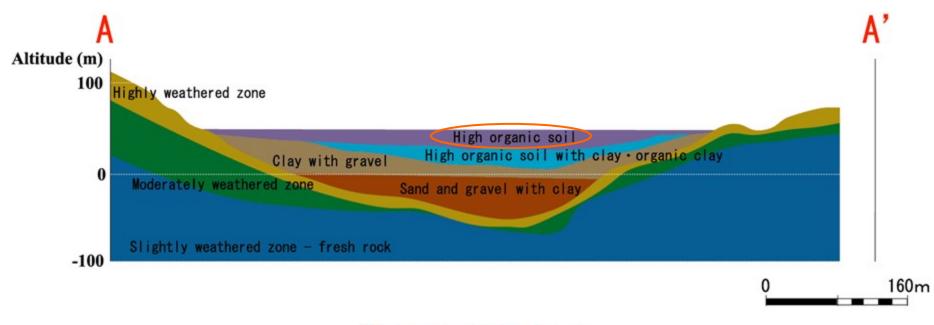
^{*}Regarded as harmful weeds all over Japan by Kasahara (1951)



Location of Nakaikemi



Nakaikemi and its surroundings





Cross section of Nakaikemi

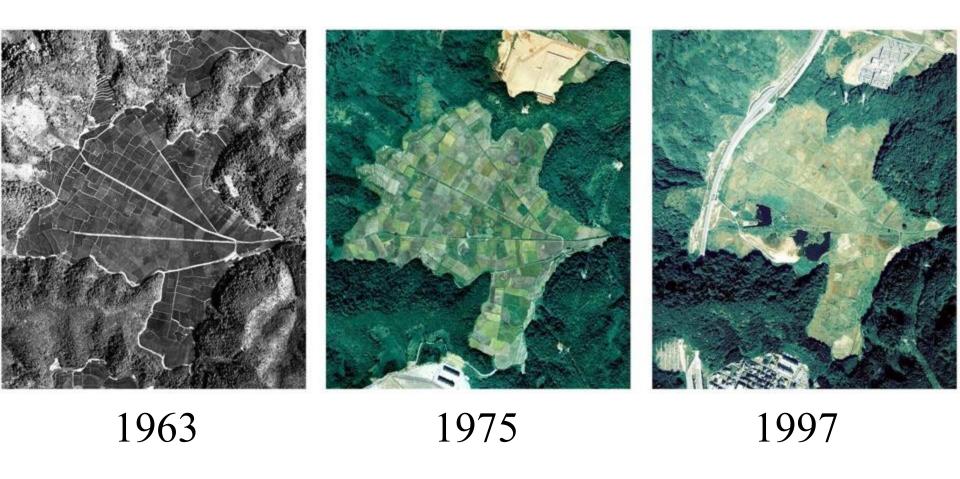




Field boat

Paddy sandals

Farming tools for deep fields



Changes in Nakaikemi





Threatened weeds





Vegetation changes of abandoned fields



Effect of plowing



1997 2000

Nakaikemi and study site



Study site

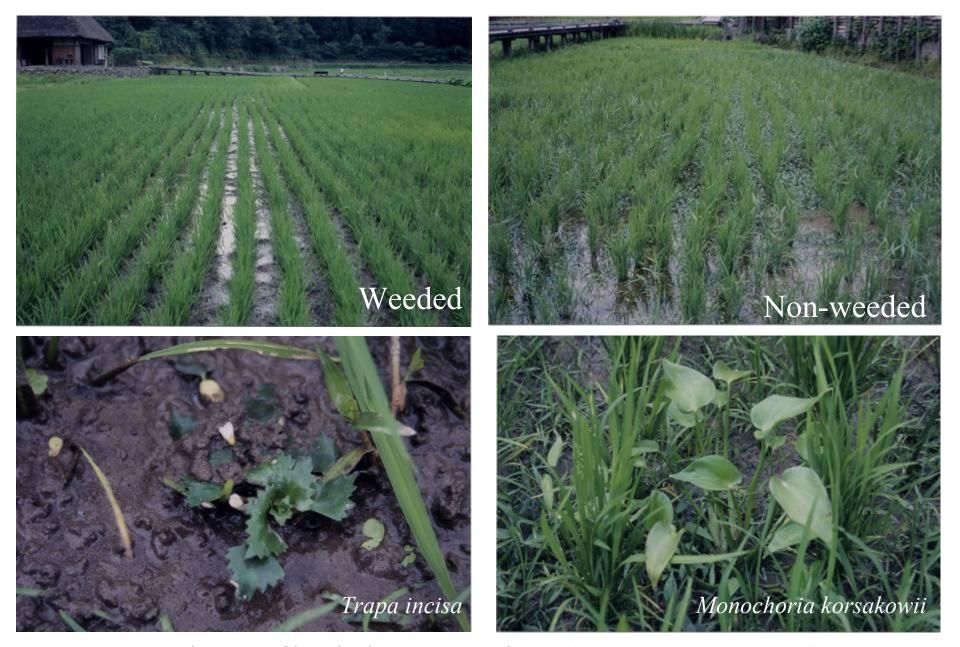
April 1998



May 2002



Management tasks by local farmers



Rice field weeds (June 2002)



Seasonal changes of a plowed field



Plowed field (June 2002)



Removal and recovery of vegetation

July 2001



Re-cultivation

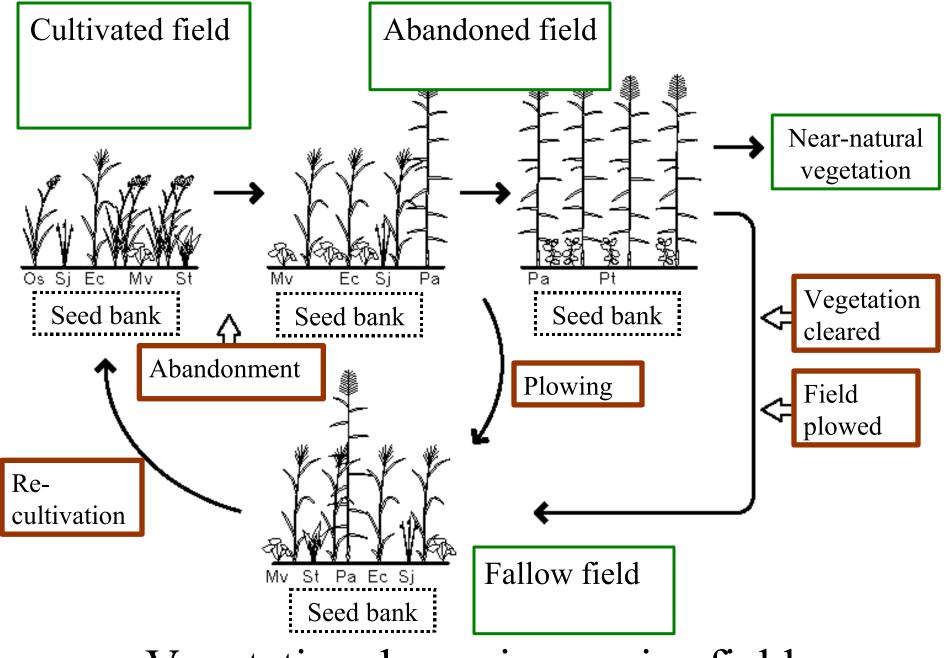




Doble Plowing



Effect of cultivation and plowing



Vegetation dynamics on rice field



The LNG Plant and Nakaikemi

- 1992: Offer for LNG plant from Tsuruga City
- 1993 1994: EIA
- 1996: Submission of EIS
- 1997 1999: Land management experiment and monitoring
- 2000 2004: Management and monitoring
- 2002: Cancellation of LNG plant
- March 2005: Donation to Tsuruga City