

# Quick installation of Johkasou after the Great East Japan Earthquake

The Great East Japan Earthquake and tsunami caused severe damage to residents, with roughly 470,000 people evacuated at the peak.

Many evacuees later moved out of the evacuation centers (public facilities such as public schools and community halls) to temporary housing.

At that time, sewage treatment plants and pipes were severely damaged, causing substantial problems for household wastewater treatment in disaster hit areas.

Johkasou were quickly installed at many temporary housing facilities.

## ■ Effects of johkasou installed at temporary housing

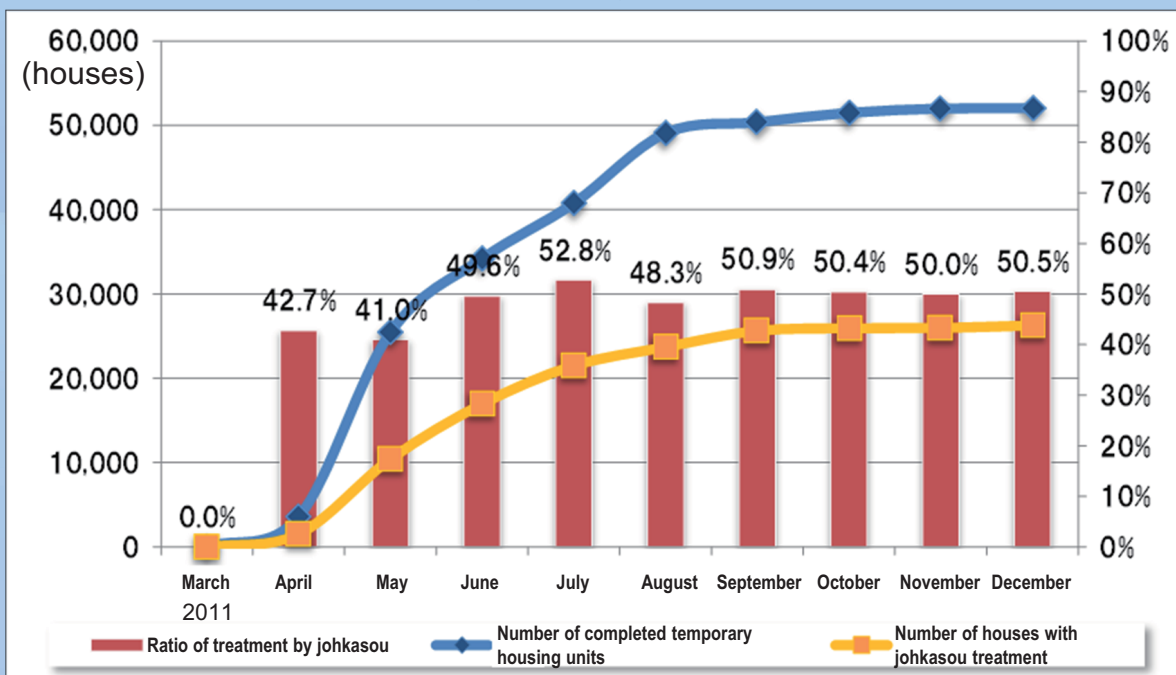
- Quality of life of the evacuees was quickly restored.
- Hygiene safety in disaster hit areas was regained.
- Easy to remove after use.

## ■ Johkasou installed at temporary housing after the Great East Japan Earthquake

- Ratio of johkasou installed  
50.5%  
(= 26,278 houses / 52,028 houses)
- Number of johkasou installed  
1,748 units  
(Johkasou for 21~50 people was the mainstay)



## ■ Number of constructed temporary housing units/number of supplied johkasou after the Great East Japan Earthquake (cumulative)



○ Source: Ministry of the Environment, Government of Japan:: Manual of anti-disaster for Johkasou, 2nd Edition, Collection of Examples (2012)