Creating Fish Habitat for the First Time

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River Basin Policy Bureau, Shiga Prefecture The University of Shiga Prefecture, School of Environmental Sciences, River Basin Policy and Planning Laboratory Japan RiverFront Research Center

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Best Places for Fish to Live

Riffles / Pools





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Small inlets and Ponds

Still section connected to the mainstream is called Small inlets Still sections closed to the mainstream with little water replacement is called Ponds



- Provide temporary evacuation spots for swimming fish when the velocity increases during floods.
 - ← Provide temporary shelters for swimming fish as water remains when the river dries up or during droughts. !
- Provide the living, growing, and reproduction environment of various native species.







Topic]

Special forests

Defensive forests

A defensive forest is Semipermeable levee

that allows water to pass through gently.



Maintenance is a difficult problem.

Keep what needs to be kept.

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Too many trees may cause overflows.

Determine if:

trees do their part in maintenance management; and have plenty of discharge capacity.

Relation to Local Industry

There is a standing signboard near a defensive forest along the Ado River in Takashima City, describing "Gensai thickets" in Ota Village as excerpted below: Since the Ado River was defenseless against flooding in the middle of the Edo Era, Ota Village mourning the damage planted bamboos on the embarkments to withstand floods as recommended by Dr. Gensai and successfully grew a fine bamboo forest. The bamboo forest later provided blessings to the people there for a long time (e.g., fan bones for the local industry.



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Most domestic fans (made of bamboo) use bamboo from

Takashima Fan Bones

Takashima for the bones.





Premise 2 Approach without interfering water flow

When installing structures in a river, keep in mind:

- They could be broken or washed away by a large flood; and
- Natural materials should be used for structures as much as possible.

Premise 3 Many trials and errors

When dealing with living creatures and nature, things happen that are just unpredictable. **)** So, don't be afraid of making mistakes.

















Building Barb works with Different Materials















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