

GIAHS: Globally Important Agricultural Heritage Systems

GIAHS refers to agriculture, forestry, and fishery industries that have been inherited over multiple generations while adapting to society and the environment, and the culture, landscape and seascape, and agricultural biodiversity that have been nurtured in close connection with them, mutually connecting and coming together in areas where globally important traditional agriculture, forestry, and fishery industries are conducted (agriculture, forestry, and fishery systems). These systems are recognized by the Food and Agriculture Organization of the United Nations (FAO).







GIAHS Locations in Japan

(as of August 2025)



A mountainous area located in southeast Shimane Prefecture between elevations of 250~700m

Agricultural Data

1,311 agricultural management bodies, 2,970 people involved with agriculture, 2,014ha of cultivated land area (2020 Agriculture and Forestry Census)



GIAHS Promotion Association of the Okuizumo Area

Office: Okuizumo Town Hall Agricultural Promotion Division 1037 Yokota, Okuizumo-cho, Nita-gun, Shimane Prefecture 699-1832 TEL (+81) 854-52-2679





Globally Important Agricultural Heritage Systems

Japanese Nationally Important Agricultural Heritage Systems

Okuizumo Town, Shimane Prefecture

Sustainable Water Management and Agricultural, Forestry, and Livestock System Readapted from Tatara Ironmaking in the Okuizumo Area



From Tatara Ironmaking to Sustainable Agriculture

In Shimane Prefecture's Okuizumo area, a traditional ironmaking process called tatara was conducted mainly by iron producers including the Sakurai and Itohara families, with its peak coming between around 1600 CE to the early 1900s. Tatara was connected to rice cultivation, cattle raising, and forestry, and ironmaking and agriculture supported the livelihoods and economy of the area. In the times when mining for iron sand was conducted in the area, waterways and reservoirs were constructed to bring water to hilly areas at the bases of the mountains, and those hillsides were cut down using a method called kanna-nagashi to mine for that iron sand. After this, those mined areas were was renewed as farmland.

The waterways and reservoirs used for iron sand mining were readapted for agricultural use, and buckwheat was sown in the previously mined areas in order to improve the soil quality there, as they were mostly areas of barren soil with no nutrients. Also, by applying compost and barnyard manure from the cattle used for transport in the ironmaking process to the rice fields, agricultural productivity was

Furthermore, while the water source recharging function of forestry resources is maintained through their cyclical usage, a waterway system that provides water resources without waste and customs of water use and maintenance continue to be passed down, and sustainable agriculture, forestry, and livestock raising is carried out, centered around rice cultivation, cattle (Japanese black), and forestry.





rai Family Residence (Former Iron Producers)

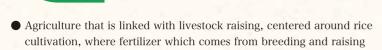




Food and Livelihood **Security**

Cyclical Agriculture that Coexists with Nature

Buckwheat noodles



cattle (Japanese black) is applied to farmland, has been inherited.

- Multi-faceted agricultural operations are carried out where rice cultivation, cattle raising, and production of specialty forest products and buckwheat cultivation are combined.
- Production of rice, cattle (Japanese black), buckwheat, and non-timber forest products accounts for approximately 90% of Okuizumo's agricultural production output.







Agro-biodiversity

Preservation of Genetic Resources

- Through agriculture, the environment of the waterfront areas of paddy fields and waterways, the grasslands along the ridges of terraced rice fields, and forests is preserved.
- Through agriculture, the ecosystem is preserved and maintained, and it is inhabited by diverse flora and fauna.
- By maintaining the forest environment, it has become a habitat for flower-visiting insects, improving the bearing rate of buckwheat, which preserves genetic resources.











Local and Traditional Knowledge System

Cyclical Use of Resources

- The waste matter of cattle is reused as fertilizer and applied to the fields to improve soil quality. [Farmland Usage]
- Production of charcoal and mushrooms through the cyclical use of forests is conducted. [Forest Usage]
- The joint maintenance and operation of waterways and reservoirs and customs of water use and maintenance in order to safely supply water are inherited. [Water Usage]



Cultures, Value Systems and Social Organizations



(Prayers for fire prevention and abundant har

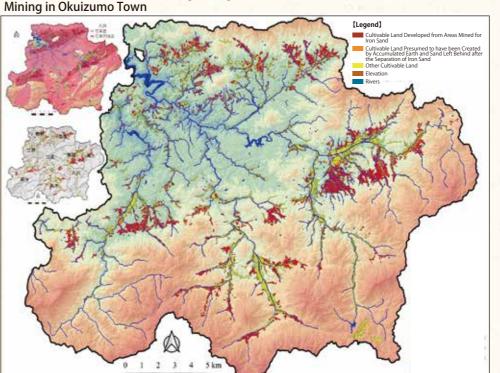






Landscape Landscape Features

Distribution of Cultivable Land Originating from Iron Sand Mining in Okuizumo Town











- Traditional events and local festivals connected to agriculture have been passed down. (Oro-Atago Festival, Ai Oshiko Ritual, etc.)
- Local food thrives within the four seasons, agriculture, and the lives of people here. (e.g., food culture such as Izumo soba buckwheat, noodles, sasamaki (rice-flour dumplings wrapped in bamboo leaves), etc.)
- Prayers for abundant crops, gratitude shown towards the harvest, prayer requests for the safety of cattle, etc., are held in the area. (Values)
- Water use organizations such as waterway unions jointly maintain the waterway networks, and the regulation of water usage is conducted. (Social Organizations)
- Mountainsides were cut down through *kanna-nagashi*, the method of mining for the iron sand used in tatara ironmaking, and vast farmland was developed.
- Land mined for iron sand was renewed as farmland, and the waterways and reservoirs used for mining were readapted for agricultural use.
- The mountain villages and the neighboring agricultural and forest areas, along with the landscape unique to this area, are maintained and preserved in the lives of people here.



View from the Fukuvori Observation Platform Through readapting the waterways and reservoirs, the areas mined for iron



mining (Inaĥara, Okuizumo Town) On small hills such as this, there were graves, sacred trees, or small shrines, so they were not cut down, and a unique landscape has been preserved

