

High-performance Plow Developed Independently in Conjunction with Increasingly Large Scale Agriculture in Hokkaido

Registration No.	Number 00238		
Registration Date	September 12, 2017	Registration Category	Category 1

Name (Model, etc.)	GY16×4 plastic plow
Location	Sorachigun, Hokkaido
	Tuchi no yakata
Owner (Custodian)	Owner : Tuchi no yakata Custodian : Sugano Farm Mashinery MFG. CO.
Manufacturer (Company)	Sugano Farm Mashinery MFG. CO.
Year Manufactured	1972
Year first appeared	1972
Reason For Selection	Companies embarked on development of plows required by large tractors in paving the way for increasingly large scale of agricultural operations in Hokkaido. At the time, farmers faced difficulties with respect to characteristics of the soil in Japan in that it would readily adhere to plowing equipment, which resulted in diminished efficiency when plowing and difficulty in maintaining proper tillage depths. By 1964 respective Japanese plow manufacturers had already developed commercial plows unique to Japan featuring plastic materials on bottom surfaces that come into contact with the soil, but that equipment lacked durability. This plow featured ultra-high molecular weight polyethylene (UHMWPE) plate offering exceptional resistance to abrasion and other such properties, and was designed with the aim of providing a more durable frame. In the era in Japan of increasingly moving toward larger-sized farm equipment offering greater efficiency and plowing performance, this particular machine, developed in 1972 as the first unit, was delivered to the Tokachi Agricultural Experiment Station in Hokkaido. This particular plow, of which the same model was manufactured up through 1993, is historically significant for its role in helping to increase the scale of agricultural operations in Japan.
Registration Standard	2-A (Played a notable role in improving people's way of life and creating new ways of living.)

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Other useful information	