# Types of Silkworm

Silkworms are insects that produce silk fibres during the cocoon stage of their life cycle.

They are mainly classified into Mulberry and Non-Mulberry types based on the food plants they eat and the silk they produce.

# 1. Mulberry Silkworm

- Scientific name: Bombyx mori
- Food plant: Leaves of the Mulberry tree (Morus alba)
- Origin: Domesticated in China thousands of years ago.
- Silk quality: Produces fine, smooth, lustrous silk — Mulberry silk, which is white or off-white in colour.
- Climate requirement: Thrives in temperate and tropical climates.
- Economic importance: This is the most important commercial silkworm, contributing over 90% of the world's silk production.
- Distribution in India: Karnataka, Andhra Pradesh, Tamil Nadu, West Bengal, and Jammu & Kashmir.

## 2. Non-Mulberry Silkworm

Non-mulberry silkworms feed on plants other than mulberry.
India is special because it produces all three main types of non-mulberry silk: Tasar, Eri, and Muga.

#### a) Tasar Silkworm

- Scientific name: Antheraea mylitta (Tropical Tasar), Antheraea proylei (Temperate Tasar)
- Food plants: Arjun (Terminalia arjuna),
   Asan (Terminalia tomentosa), Sal (Shorea robusta).
- Silk quality: Coarse, strong, copper-brown coloured silk.
- Distribution: Jharkhand, Chhattisgarh,
   Odisha, Maharashtra, Madhya Pradesh.
- Use: Sarees, furnishings, and jackets.

## b) Eri Silkworm

- Scientific name: Samia ricini
- Food plants: Castor (Ricinus communis), Kesseru (Heteropanax fragrans).
- Silk quality: Soft, warm, and wool-like; often called Ahimsa silk because cocoons are harvested without killing the moth.
- Distribution: Assam, Meghalaya,
   Nagaland, Manipur, Bihar.
- · Use: Shawls, blankets, and winter wear.

## c) Muga Silkworm

- Scientific name: Antheraea assamensis
- Food plants: Som (Machilus bombycina), Soalu (Litsaea polyantha).
- Silk quality: Natural golden-yellow lustre, unique to Assam.
- Distribution: Exclusively in Assam.
- Use: Traditional Assamese dresses like Mekhela Chador, wedding attire.

#### Table – Types of Silkworm

Type	Example species	Food plant	Silk colour/quality	Distribution
Mulberry	Bombyx mori	Mulberry leaves	White, fine, lustrous	Karnataka, Tamil Nadu, West Bengal
Tasar	Antheraea mylitta	Arjun, Asan, Sal	Coarse, copper-brown	Jharkhand, Chhattisgarh
Eri	Samia ricini	Castor, Kesseru	Soft, wool-like (Ahimsa)	Assam, Meghalaya
Muga	Antheraea assamensis	Som, Soalu	Golden-yellow, lustrous	Assam