

Agronomy and Soil Science

Objectives

- To promote, planned and harmonious growth of bivoltine silk industry by enhancing the quality mulberry leaf productivity.
- Promotion of eco-friendly technologies, maintenance of soil health and redress of agro-ecological condition with curtailment of inorganic fertilizers in mulberry cultivation production.
- To promote technological up-gradation for quality mulberry leaf production.
- To provide leadership in mulberry crop-based agronomic research by developing new concepts and approaches of sustainable quality mulberry leaf production suited to farmers.
- To develop appropriate technologies to enhance the production and productivity of mulberry leaf on a sustainable basis.

Technologies Promoted

- For cultivation of improved mulberry varieties like Goshoerami, TR-10 and KNG with wider spacing of 60 x 60 cm² (pit system) is recommended for tree type of cultivation in Kashmir region.
- For raising of saplings in nursery, inoculation of AM fungi is recommended in nursery beds for growth, root proliferation and curtailment of phosphate.
- A new pruning technique developed for temperate by top clipping in March followed by bottom pruning in June for dwarf plantation is recommended under irrigated conditions of Kashmir.
- To make sericulture more remunerative intercropping with saffron, Levendora and pulse crop (cowpea) for better additional income.

Institutional Research Projects

#	Project Code and Title	Duration	Objective
Concluded Research Projects			
1	PPS-3474: Survey, isolation, identification and characterization of native AM fungi and endophytic bacteria in the mulberry rhizosphere of Kashmir region	2012-2015	Collection, isolation and characterization of AM fungi and bacterial endophytes associated with mulberry root system
2	PPS-3490:	2012-2015	To evaluate the fertility status of

	Sustainability of soil health under temperate mulberry ecosystem		the soils under temperate plantation and plan an integrated nutrient management programme for soil sustainance
3	PPS-3603: Soil Sustainability of sericulture farmers of North Western India through soil health cards	2016-2019	To know the soil health of sericulture farmers of North Western India and provide them balanced recommendation of fertilizers for sustainable sericulture
4	PIN-3608: Development of package of practice for autumn rearing through fortification of mulberry leaf	2017 – 2020	To develop a package of practice for autumn rearing through fortification of mulberry leaf
Continuous Programme			
1	SS Pam-1	Nutrient analysis of soils and mulberry under temperate conditions	1. Evaluation of soil health status at CSR&TI, Pampore and nested units 2. Biochemical analysis of mulberry varieties