

Cotton Germplasm resources

ICAR-CICR, Nagpur maintains one of the largest cotton gene banks, a germplasm collection, of the world with 12,409 accessions of the cultivated and wild species of *Gossypium* species including perennials, landraces and inter-specific derivatives.

Species	Number of accessions
<i>G. hirsutum</i>	8851
<i>G. barbadense</i>	538
<i>G. arboreum</i>	2105
<i>G. herbaceum</i>	576
Wild Species	32
Registered Genetic Stocks	52
Perennials and land races	254
Distantly related species (<i>Thespesia lumpus</i>)	01
Total Collection	12409

Conservation of traditional landraces

- ✚ Two hundred and fifty-four cotton germplasm including 177 perennials, 44 landraces and 33 traditional cultivars belonging to *G. arboreum*, *G. herbaceum* and *G. barbadense* were collected from different states of India viz., Assam, Arunachal Pradesh, Tripura, Manipur, Meghalaya and Mizoram (North Eastern Hill region), Gujarat, Maharashtra and Madhya Pradesh (Central India), Tamil Nadu, Andhra Pradesh and Karnataka (South India).
- ✚ The important landraces Karunganni cotton (*G. arboreum* race 'indicum'), Ponduru Cotton (*G. arboreum* race 'indicum'), Mathio (*G. arboreum* race 'indicum') and Comilla (*G. arboreum* race cernuum) were collected.
- ✚ A total of 3 and 22 cotton germplasm accessions were collected from Meghalaya and Karnataka respectively collaborating with ICAR-NBPGR, New Delhi during 2024 and 2025.
- ✚ All the collected germplasm variants were stored for conservation in the medium-term cold storage.

Regions Explored	State	Year	No. of accessions	Species	Annual/Perennial/Landrace
Bhandara, Wardha, Nagpur, Washim, Parbhani	Maharashtra	2011	22	<i>G. arboreum</i>	Perennials
			3	<i>G. barbadense</i>	Perennials
Sehore	Madhya Pradesh	2011	8	<i>G. arboreum</i>	Perennials
Jalpaiguri	West Bengal	2011	5	<i>G. barbadense</i>	Perennials
East Godavari, West Godavari, Jammikunta	Andhra Pradesh	2011	20	<i>G. arboreum</i>	Perennials
Srikakulam	Andhra Pradesh	2011	1	<i>G. arboreum</i> race <i>indicum</i>	Landrace

West Garo Hills	Meghalaya	2011	23	<i>G. arboreum</i> <i>race cernuum</i> (<i>Comilla cotton</i>)	Landrace
			3	<i>G. arboreum</i>	Perennials
Aizawl, Mamit, Kolasib & Serchip	Mizoram	2011	16	<i>G. barbadense</i>	Perennials
			13	<i>G. arboreum</i>	Landraces
Vishakhapatnam, Vizianagaram, Srikakulam	Andhra Pradesh	2012	2	<i>G. arboreum</i>	Perennials
			1	<i>G. arboreum</i> <i>race indicum</i>	Landrace
			1	<i>G. barbadense</i>	Perennials
Bhandara, Nagpur & Wardha	Maharashtra	2012	2	<i>G. arboreum</i>	Perennials
			5	<i>G. barbadense</i>	Perennials
Gomati, West Tripura, Kowai and Dhalai	Tripura	2012	10	<i>G. arboreum</i>	Primitive cultivars (Annuals)
			4	<i>G. barbadense</i>	Perennials
Bharuch, Bhavnagar, Rajkot, Ahmadabad, Surendranagar & Banaskantha	Gujarat	2012	7	<i>G. barbadense</i>	Perennials
			4	<i>G. herbaceum</i> (<i>Wagad cotton</i>)	Landrace
			5	<i>G. arboreum</i>	Annuals
			1	<i>G. arboreum</i> (<i>Mathio cotton</i>)	Landrace
Tuticorin	Tamil Nadu	2012	6	<i>G. arboreum</i> (<i>Karunganni</i> <i>cotton</i>)	Landrace
			1	<i>G. arboreum</i>	Annual
			1	<i>G. herbaceum</i> (<i>Uppam Cotton</i>)	Landrace
Imphal West, Senapati, Thoubal, Tamenglong, Bishnupur, Imphal East & Chandel	Manipur	2013	16	<i>G. barbadense</i>	Perennials
Wardha	Maharashtra	2013	2	<i>G. barbadense</i>	Perennials
Mehsana, Patan, Banaskantha & Kachchh	Gujarat	2013	5	<i>G. herbaceum</i>	Annuals
			4	<i>G. arboreum</i>	Annuals
			1	<i>G. barbadense</i>	Perennial
Mon & Tuensang	Nagaland	2013	3	<i>G. barbadense</i>	Perennials
West Garo Hills	Meghalaya	2013	1	<i>G. arboreum</i>	Annual
Barpeta	Assam	2013	3	<i>G. barbadense</i>	Perennials
West Siang, East Siang, Upper Siang and Dibang Valley	Arunachal Pradesh	2014	17	<i>G. arboreum</i>	Landrace
			14	<i>G. barbadense</i>	Perennials
Indore and Khandwa	Madhya Pradesh	2014	1	<i>G. arboreum</i>	Perennial
			2	<i>G. barbadense</i>	Perennials
Wardha, Hinganghat, Chandrapur, Nandurbar and Dhule	Maharashtra	2014	1	<i>G. arboreum</i>	Perennials
			8	<i>G. barbadense</i>	Perennials
	Karnataka	2014	10	<i>G. arboreum</i>	Perennials

Raichur, Bijapur, Bagalkot, Gadag, Dharwad, Haveri, Uttarkannada, Davangere, Chitradurga, Bellary			6	<i>G. barbadense</i>	Perennials
Wardha, Bhandara, Gondia and Yavatmal	Maharashtra	2015	2	<i>G. arboreum</i>	Perennials
			9	<i>G. barbadense</i>	Perennials
Kanyakumari (Western Ghats)	Tamil Nadu	2015	1	<i>G. arboreum</i>	Perennial
Nalgonda	Telangana	2015	2	<i>G. arboreum</i>	Perennials
Karbi angling	Assam	2016	2	<i>G. arboreum</i> <i>race cernuum</i>	Landrace
			6	<i>G. barbadense</i>	Perennials
			1	<i>G. hirsutum</i>	Perennial
Phek	Nagaland	2016	3	<i>G. arboreum</i>	Landraces
			5	<i>G. barbadense</i>	Perennials
South 24 Paraganas and North 24 Paraganas (Sundarbans Region)	West Bengal	2016	8	<i>G. barbadense</i> <i>var. brasilensis</i>	Perennials
			1	<i>G. barbadense</i>	Perennials
			32	<i>G. hirsutum</i>	Perennials
Nuapada	Odisha	2017	2	<i>G. barbadense</i>	Perennials
			1	<i>G. barbadense</i> <i>var. brasilensis</i>	Perennial
Mandya	Karnataka	2017	1	<i>G. barbadense</i>	Perennial
West Garo Hills	Meghalaya	2024	2	<i>G. arboreum</i> <i>race cernuum</i>	Landraces
			1	<i>G. barbadense</i>	Perennial
Dharwad, Gadag, Koppal, Raichur and Bellary	Karnataka	2025	11	<i>G. arboreum</i>	Perennials
			11	<i>G. herbaceum</i>	Annuals