

Food Legume Research Platform (FLRP)

International Center for Agricultural Research in the Dry Areas

Major Mandates

- Advancing food and nutrition security**
Closing yield gaps, reducing hunger, and improving access to nutritious food across dryland regions.
- Climate adaptation and mitigation**
Developing climate-smart crops and farming systems that enhance resilience, profitability, and water efficiency under climate stress.
- Sustainable farming systems**
Promoting the intensification and diversification of pulse-based systems to deliver economic, social, and environmental benefits.
- Water and land productivity**
Ensuring the sustainable management of scarce soil, water, and land resources in fragile dryland ecosystems.
- Income generation and livelihoods**
Strengthening rural incomes through climate-resilient crops, sustainable practices, and innovative solutions for smallholder farmers.
- Capacity building and knowledge sharing**
Building skills and institutional capacity by training

researchers, extension agents, and farmers in modern agricultural technologies.

Impact Areas

-  **Nutrition, Health & Food Security**
-  **Poverty Reduction, Livelihoods & Jobs**
-  **Gender Equality, Youth & Social Inclusion**
-  **Climate Adaptation & Mitigation**
-  **Environmental Health & Biodiversity**



Key Numbers

34
Projects Implemented

158
Varieties Released

550,000
(34% women)
Direct Beneficiaries

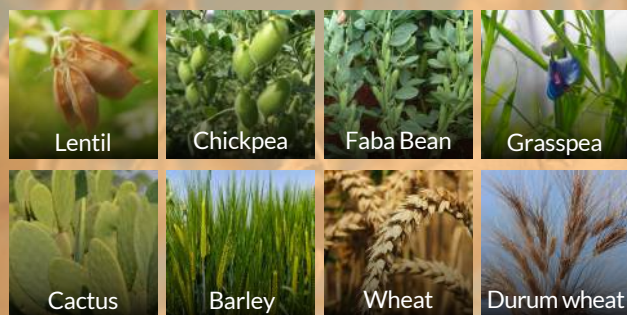
520
Scientific Publications

\$50 million
Resources Mobilized

240,662
hectares
Improved Technologies Deployed

15,000
Capacity Development Events

Mandate Crops



FLRP of ICARDA

ICARDA's engagement in India began in 2008 with the establishment of its South Asia and China Regional Program (SACRP) in New Delhi and was later strengthened in 2014 with the establishment of the Food Legume Research Platform (FLRP) at Amlaha, near Bhopal, Madhya Pradesh, with support from the Governments of India and Madhya Pradesh and various national and international donors. The FLRP is a well-developed 70-hectare research station equipped with modern facilities, including advanced laboratories for plant genomics, plant tissue culture, plant breeding, and plant pathology, and is staffed by a multidisciplinary team of scientists engaged in research-for-development. Through this platform, ICARDA delivers innovative, climate-smart, and science-based solutions to improve crop, land, and water productivity in the dry regions of South Asia.

Home to nearly one-fourth of the world's population, South Asia faces growing food security challenges due to climate change, erratic rainfall, rising temperatures, and increasing pest and disease risks, which ICARDA addresses through basic, strategic, and applied research in close collaboration with national agricultural research and extension systems to strengthen resilient and sustainable food systems.

Strategic Partners



Key Initiatives

- Development of improved varieties of lentil, chickpea, grasspea, faba bean, barley, and wheat through targeted product profiles.
- Sharing of germplasm, including crop wild relatives, landraces, mapping populations, and elite lines, with national partners.
- Enhancement of system productivity through optimized cropping systems, agronomic practices, and water management.
- Promotion of spineless cactus as a multi-purpose 5F crop (Food, Fodder, Fuel, Fertilizer, and Fashion).
- Capacity development and large-scale technology dissemination.
- Generation of high-impact scientific knowledge and publications.

About ICARDA

The International Center for Agricultural Research in the Dry Areas (ICARDA) is a non-profit international organization that has delivered research-for-development (R4D) solutions for dryland agriculture since 1975. Through field-proven, science-based innovations, ICARDA strengthens the resilience and livelihoods of smallholder farmers across Asia, Africa, and the Middle East. Working with research institutions, governments, NGOs, and the private sector, ICARDA advances scientific knowledge, informs policy, and improves agricultural practices in more than 50 countries.

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