



Diversification of wheat-based cropping system in the highlands of Ethiopia

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International Center for Agricultural Research in the Dry Areas Planned activities

- Community based seed production and demonstration
- Crop technology scaling by AR & partners
- Food legumes and fenugreek PVS (19 varieties) for Belg season production
- Capacity development through PhD Theses research

Deliverables	Progress	
	Until Nov 2021 (2020/21 cropping season)	Until May 2022 (December 2021-May 2022)
Early generation seeds produced and scaled	<ul style="list-style-type: none"> 34.5 t of seeds planted on 324 ha Six varieties of cereal and food legumes Partners scaling covered 34931 ha 39294 HHs (17% females) benefited 	<ul style="list-style-type: none"> Yield data collections and report writing Collections of revolving seeds
Early maturing varieties identified	<ul style="list-style-type: none"> Farmers (M&F) selected six varieties 	<ul style="list-style-type: none"> Securing seeds for Belg season
Crop technology outputs communicated	<ul style="list-style-type: none"> Contribution a section in CGIAR-France Booklet on Agroecology https://doi.org/10.1371/journal.pone.0251958 Malt barley video: https://hdl.handle.net/10568/115004 Brief: https://hdl.handle.net/10568/110610 SeedInfo: https://hdl.handle.net/20.500.11766/11504 	<ul style="list-style-type: none"> Complete and submit two manuscripts
Three PhD students supported	<ul style="list-style-type: none"> https://doi.org/10.1007/s10722-021-01110-x https://doi.org/10.1080/09670874.2021.1998724 	<ul style="list-style-type: none"> Theses research writing One MS under preparation

Key lessons

- Unions and farmers play key roles in crop technology multiplications
- Linkages with BoA, Unions and key partners for validation and scaling
- Faba bean gall disease is major threat on faba bean
- We identified released crop varieties with wide adaptations
- Researchers got a chance to evaluate their released varieties in AR sites
- Market linkages are required for durum wheat and malt barley
- Malt barley and durum wheat are being used for home consumptions
- Outputs of AR become inputs to new development projects



Faba bean seed production-North Shoa (Photo credit:ICARDA /Yetsedaw Aynewa)

Partnerships

- Host farmers for on-farm action research
- District and Zonal Bureau of Agriculture
- Federal and Regional Research Centers
- Seed growers
- Agricultural Transformation Agency
- Raya University supporting community seed production
- OneCGIAR: ICARDA, ILRI and Alliance Bioversity-CIAT

Core partners



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