

Release of Improved Crop Varieties by IQQO in 2022

During the first round meeting of the National Variety Release Committee (NVRC), which held at Adama from June 2-3, 2022, fourteen improved crop varieties (food and forage crops) were released by IQQO/OARI. Of these, 4 are crop varieties from cereals and 10 crop varieties from pulses and Oil crops. The varieties were released by Sinana, Bako, Bore, and Adami Tullu Agricultural Research Centers (Table below).

Table 1. Summary of Crop Varieties Released by IQQO/OARI, in 2020/21

No.	Crop	Merit Over Checks	Yield average (kuntal/ha)	Releasing Center
1.	Bread wheat	48.7 and 83 % yield advantage over standard checks Hidase and Danda'a respectively. Better disease resistance specially yellow and stem rusts, quality traits, amber seed color	49	Bore ARC
2.	Durum wheat	30.3 and 27 % yield advantage over Bullala and Ingiliz (checks) respectively, Better disease tolerance/ resistance to major wheat diseases (yellow, stem and leaf rusts), has best industrial qualities	41	Sinana ARC
3.	Sorghum	Stable and high yielder (39 t/ha) with yield advantage of 44.4% over the standard check Bonsa. Early maturing, resistant to major sorghum diseases	39	Bako ARC
4.	Finger millet	51.4 % yield advantage over standard check (Bako 09), resistant/tolerant to major finger millet disease, tolerant to lodging, better seed colour (brown seeded). Developed from local cross	32	Bako ARC
5.	Linseed	It showed 16.8 and 63.6 % yield advantage over the standard checks jitu and dibane respectively, tolerant to major linseed diseases, stable and better adapted across locations, has higher oil content	24.8	Sinana ARC
6.	Linseed	It showed 13.8 and 59.4 % yield advantage over the standard checks jitu and dibane respectively, tolerant to major linseed diseases, stable and better adapted across locations, has higher oil content and better seed colour which is preferred in the market	24.2	Sinana ARC
7.	Faba bean	18.8-30.9% yield advantages over the standard checks Gebelcho and Alloshe respectively; Better disease tolerance/ resistance to major faba bean diseases (chocolate spot, aschochyta blight and rust), large seed size	49.6	Bore ARC
8.	Common bean	15.9-22.0% yield advantages over the standard checks SER-119 and IBADO; better disease tolerance/ resistance to major common bean diseases (CBB, ALS and anthracnosis, attractive seed color (red color)	29	Bore ARC
9.	Common bean	11.15-17.0% yield advantages over the standard checks SER-119 and IBADO; better disease tolerance/ resistance to major common bean diseases (CBB, ALS and anthracnosis, attractive seed color and shape (creamy color)	27.8	Bore ARC
10.	Faba	14.8-25.7% yield advantages over the standard	33.2	Sinana ARC

	bean	checks Shallo and mosisa respectively; Better disease tolerance/ resistance to major faba bean diseases (chocolate spot, aschochyta blight and rust), large seed size		
11.	Lentil	It showed 39.9 to 45.7% grain yield advantage over the standard checks Asano and Alemaya, tolerant to major lentil diseases, stable and better adapted across locations.	23.2	Sinana ARC
12.	Cowpea (early set)	Showed 45.6% herbage yield advantage over the standard check Adulala, tolerant to major common cowpea diseases, better nutritional values (crude protein, dry matter etc), early maturing	15.6	Bako ARC
13.	Cowpea (late set)	Showed 41.8% herbage yield advantage over the standard check Adulala, tolerant to major common cowpea diseases, better nutritional values (crude protein, dry matter etc)	14.3	Bako ARC
14.	Snap bean	11.4-26.7.3% yield advantage over standard checks Plati and Contender respectively, Better disease tolerance/ resistance to major snap bean diseases (CBB, Anthracnosis, angular leaf spot etc), and has higher pod number, suitable for fresh market.	108.5	Adami Tullu ARC

Summary

Cereals = 4

Pulses and oil crops= 10

Horticultural and seed spices crops= 0

Total Crops= 14

Compiled by:

Tesfaye Letta (PhD)

Crop Research Director, IQQO/OARI