

Release of Improved Crop Varieties by IQQO

During the first round meeting of the National Variety Release Committee (NVRC), which held at Adama from June 3-5, 2021, twenty one improved crop varieties were released by IQQO/OARI. Of these, 7 are crop varieties from cereals, 9 crop varieties from pulses and Oil crops and 5 are crop varieties from seed spices. The varieties were released by Sinana, Bako, Haro Sabu, Mechara and Fedis Agricultural Research Centers (Table below).

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

No.	Crop	Merit Over Checks	Yield (kuntal/ha)	Releasing Center
1.	Bread wheat	17 % yield advantage over standard check (Liban), Better disease tolerance /resistance, quality traits, amber seed color	Research field=40.76 Farmer's field=37.76	Bako ARC
2.	Barley (Hulless)	31 % yield advantage over standard check, Better disease tolerance/ resistance to major barely diseases (net blotch, scald), and has high productive tillers, large seed size, easily dehulled	Research field=26.76 Farmer's field=22	Bako ARC
3.	Tef	Stable and high yielder (2.3 t/h) with yield advantage of ranging from 26.3-53% over the local and standard checks respectively. preferred seed color (white), high biomass yield, tolerant to lodging and shattering	Research field =22.79 Farmer's field=22.4-25.7	Bako ARC
4.	Field pea (Kiki type)	10.42 % yield advantage over standard check, resistant/tolerant to major field pea diseases, white seed color and idea for making 'kiki'	Research field= 28-37.60 Farmer's field= 25.40-34	Bako ARC
5.	Field pea (Shiro type)	It showed 10.15% grain yield advantage over the standard check, tolerant to major field pea diseases, stable and better adapted across locations, has grey seed color and ideal for shiro making	Research field=29.2-37.80 Farmer's field =24.7-36	Bako ARC
6.	Sesame	Showed 12.8% yield advantage over the standard check, tolerant to major seasm diseases including bacterial blight, stable and better adapted across locations, high oil contet (54.9%)	Research field= 6.34-9.3 Farmer's field=6.28-8.7	Bako ARC
7.	Hot pepper (large pod)	It has 36% yield advantage over standard check. Tolerant to major hot pepper diseases including fusarium, deep red color, early maturing, large pod size.	Research field=15.5-19.5 Farmer's field=11.7-13.1	Bako ARC
8.	Black cumin	19.0-32.8% yield advantages over the standard and local checks; Better disease tolerance/ resistance to major black cumin diseases	Research field=18-24.5 Farmers field=13-19	Sinana ARC
9.	Fenugreek	12.65-79.19% yield advantages over the standard and local checks; early mauring, better disease tolerance/ resistance to major fenugreek diseases	Research field=17-26 Farmer's field=15-21	Sinana ARC
10.	Coriander	2.63-74.24% yield advantages over the standard and local checks; better disease tolerance/ resistance to major coriander diseases	Research field=16-32 Farmer's field=13-25	Sinana ARC
11.	Lentil	It showed 45.7-74.8% yield advantage over standard and local checks. Large seed size and	Research field=22-25 Farmers= 14-16	Sinana ARC

		weight, Tolerant to major lentil diseases.		
12.	Field pea (shiro type)	It showed 10.66-37.20% grain yield advantage over the standard and local checks, tolerant to major field pea diseases, stable and better adapted across locations.	Research field=48-50 Farmers field=30-89	Sinana ARC
13.	Common bean (small red)	Showed 29.2% yield advantage over the standard check, tolerant to major common bean diseases, red seed color, stable and better adapted across locations	Research field =22-26 Farmer's field=13-18	Sinana ARC
14.	Common bean (large red)	Showed 10.1-65.2% yield advantage over the standard and local checks respectively, large seed size, tolerant to major common bean diseases, stable and better adapted across locations	Research field=23-25 Farmer's field=12-18	Sinana ARC
15.	Food barley	17.1-22.3% yield advantage over standard check and local checks respectively, Better disease tolerance/ resistance to major barely diseases (net blotch, scald), and has high productive tillers, showed better tolerance to barley shoot fly.	Research field=22-54 Farmers' field= 21-42	Sinana ARC
16.	Common bean	Showed 12.8% yield advantage over the standard check, tolerant to major common bean diseases, large seed size, red mottled seed color, stable and better adapted across locations	Research field=16.02 Farmers' field= 15.22	Harosabu ARC
17.	Hot pepper (small pod)	It exhibited 46.52-70.62% yield advantage over standard and local checks. Tolerant to major hot pepper diseases including fusarium.	Research field= 10-15 Farmers' field= 8.48-12.30	Harosabu ARC
18.	Groundnut	It showed 21.3% yield advantage over the standard check, tolerant to major ground nut diseases including root rot and leaf spot, large seed size and preferred seed color	Research field= 23-25 Farmer's field=18.20	Fedis ARC
19.	Sorghum	It showed 19.1% grain yield advantage over the standard check, early maturing, well performed under drought conditions, high plant height, tolerant to major sorghum diseases, better biomass yield, tolerant to major sorghum insects	Research field= 39.0-48.5 Farmer's field=35.0-43.0	Fedis ARC
20.	Finger millet	It has a yield advantage of 10-21% over local and standard checks, tolerant to lodging, tolerant to major finger millet diseases	Research field= 37.05 Farmer's field=3026.0	Mechara ARC
21.	Sorghum	It showed 4% grain yield advantage over the standard check, tolerant to major sorghum diseases, better biomass yield, tolerant to major sorghum insects	Research field= 41.15 Farmer's field=35.16	Mechara ARC

Summary

Cereals = 7

Pulses and oil crops= 9

Horticultural and seed spices crops= 5

Total Crops= 21

Compiled by:

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