



By the end of 2023, over **330 million people** were eating biofortified food, including 103 million on farm who ate what they grew. These crops improve nutrition and health status when eaten regularly.

## HarvestPlus Focus Crops

### Iron Bean

*For Nutrition:* Provides up to 80% of daily iron needs  
*For Farmers:* High yielding, virus resistant, heat and drought tolerant  
*CGIAR Partner:* Bioversity/CIAT

### Iron Pearl Millet

*For Nutrition:* Provides up to 80% of daily iron needs  
*For Farmers:* High yielding, mildew resistant, drought tolerant  
*CGIAR Partner:* ICRISAT

### Zinc Maize

*For Nutrition:* Provides up to 70% of daily zinc needs  
*For Farmers:* High yielding, virus resistant  
*CGIAR Partner:* CIMMYT and IITA

### Zinc Rice

*For Nutrition:* Provides up to 40% of daily zinc needs  
*For Farmers:* High yielding, disease and pest resistant  
*CGIAR Partner:* IRRI and Bioversity/CIAT

### Zinc Wheat

*For Nutrition:* Provides up to 50% of daily zinc needs  
*For Farmers:* High yielding, disease resistant  
*CGIAR Partner:* CIMMYT

### Vitamin A Cassava

*For Nutrition:* Provides up to 100% of daily vitamin A needs  
*For Farmers:* High yielding, virus resistant  
*CGIAR Partner:* IITA and Bioversity/CIAT

### Vitamin A Maize

*For Nutrition:* Provides up to 50% of daily vitamin A needs  
*For Farmers:* High yielding, disease and virus resistant, drought tolerant  
*CGIAR Partner:* CIMMYT and IITA

### Vitamin A Orange Sweet Potato

*For Nutrition:* Provides up to 100% of daily vitamin A needs  
*For Farmers:* High yielding, virus resistant, drought tolerant  
*CGIAR Partner:* CIP

# Biofortified Crop Varieties Released (R) or in Testing (T) by Country

Africa	HIB	IPM	ZIM	ZIR	ZIW	ABP	VAC	VAM	OSP	IZC	IZP	IZL	ZIS
Angola								T	R				
Benin Rep		T					T	T					
Burkina Faso		T						T	R				
Burundi	R					R			R				
Cameroon						T	R	R					
Central African Rep							T						
Chad							T						
Côte d'Ivoire						T	T		R				
DR Congo	R					R	R	R					
Egypt					T			T					
Eritrea		T							T				
Ethiopia	T				T		T	R	R		T	T	
Gabon							T						
Gambia		T					T						
Ghana		T					R	R	R				
Guinea						T	T						
Kenya	R	T					T	T	R		T		
Liberia							T	T					
Madagascar		T		T					R				
Malawi	T	T					T	R	R		T		
Mali		T						R	T				T
Morocco									T			T	
Mozambique							T	T	R				
Niger		R					T	T	T				
Nigeria		R	T			T	R	R	R	T			T
Rwanda	R					T		R	R		T		
Senegal		T					T	T	T				
Sierra Leone							R	T					
South Africa					T			T	R				
South Sudan	T	T						T	T				T
Swaziland							T						
Tanzania	R	T				T	T	R	R				
Togo		T						T					
Tunisia		T											
Uganda	R	T				T	T	R	R		T		T
Zambia	z	T			T		T	R	R				
Zimbabwe	R	T			T			R	T				

HIB = Iron Bean

IPM = Iron Pearl Millet

ZIM = Zinc Maize

ZIR = Zinc Rice

ZIW = Zinc Wheat

ABP = Vit. A Banana/Plantain

VAC = Vit. A Cassava

VAM = Vit. A Maize

OSP = Vit. A Orange Sweet Potato

IZC = Iron/Zinc Cowpea

IZP = Iron/Zinc Irish Potato

IZL = Iron/Zinc Lentil

ZIS = Zinc/Iron Sorghum

Source: HarvestPlus, International Potato Center (2020)

Asia	HIB	IPM	ZIM	ZIR	ZIW	ABP	VAC	VAM	OSP	IZC	IZP	IZL	ZIS
Afghanistan					T								
Bangladesh				R	R				R			R	
Bhutan					T						T		
Cambodia				T									
China				T	T			T	R		T		
East Timor									R				
India		R		R	R			T	R	R	T	R	R
Indonesia				R					R				
Lebanon												T	
Myanmar				T									
Nepal					R			T			T	R	
Pakistan					R			T				T	
Philippines					T								
South Korea									R				
Syria												R	

LatAm/Caribbean	HIB	IPM	ZIM	ZIR	ZIW	ABP	VAC	VAM	OSP	IZC	IZP	IZL	ZIS
Bolivia	R		R		R						T		
Brazil	R			T	R		R	R	R	R			
Colombia	R		R	R			T	T	R				
El Salvador	R		R	R									
Guatemala	R		R	T			T		R				
Haiti	T		T	T			T	T	T				
Honduras	R		R						T				
Mexico			T		R		T	T					
Nicaragua	R		R	R					R				
Panama	R		T				T	T	R				
Peru									R		T		

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