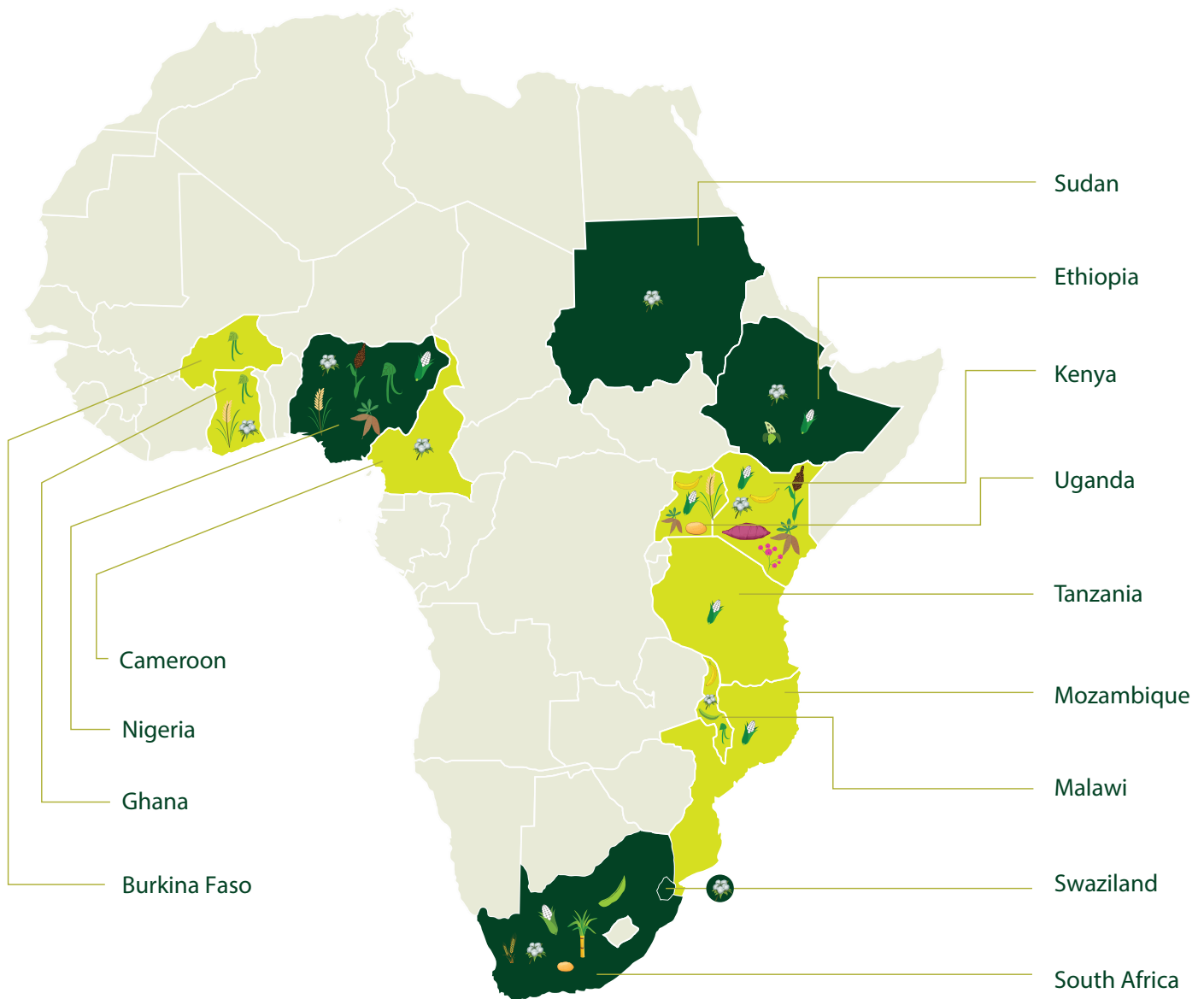


Africa Biotech/GM Research and Commercialization Status by August 2018

15 CROPS

13 COUNTRIES

14 TRAITS



KEY



Countries with on-going trials



Countries with commercialized GM crops and on-going trials



Banana



Banana plantain



Cassava



Cotton



Cowpea



enset



Gypsophila flower



Maize



Potato



Rice



Sorghum (ABS)



Soy bean



Sugar cane










Sweet potato









Wheat

CROP TRAITS UNDER VARIOUS STAGES OF RESEARCH IN AFRICA BY AUGUST 2018

Kenya

| | | | | | |
|--|-------------------------|--|---|---------------------|---|
|  | Maize | Drought tolerance: Water Efficient Maize for Africa (WEMA) WEMA Insect resistance (Bt maize) Stacked maize event for Bt and Drought |  | Cassava | Cassava Brown Streak Disease (CBSD) Cassava Mosaic Disease (CMD) |
|  | Cotton | Insect resistance |  | Sweet potato | Resistance to Sweet potato virus disease |
|  | Gypsophila flower | Pink Colouration of Petals |  | Banana | Banana bacterial -Xanthomonas Wilt (BXW) resistance |
| | | |  | Sorghum (ABS) | Biofortification |

Nigeria

| | | |
|--|---------------------|--|
|  | Cowpea | Insect resistant to Maruca pest |
|  | Sorghum (ABS) | Biofortification |
|  | Rice | Nitrogen use ,Water efficiency and salt tolerant (NUWEST) Rice |
|  | Maize | Insect resistance Bt + Herbicide tolerant Ht corn |
|  | Cotton | Insect resistance |
|  | Cassava | Delayed postharvest starch deterioration |




Ethiopia

| | | |
|--|--------------|--|
|  | Cotton | Insect resistance |
|  | Enset | Bacterial -Xanthomonas Wilt (BXW) resistance |
|  | Maize | Drought tolerance: Water Efficient Maize for Africa (WEMA) |

Sudan

| | | |
|--|--------------|-------------------|
|  | Cotton | Insect resistance |
|--|--------------|-------------------|


Ghana

| | | |
|--|--------------|---|
|  | Rice | Nitrogen Use Efficiency/Water Use Efficiency and Salt Tolerance |
|  | Cowpea | Insect resistance to maruca pest |
|  | Cotton | Insect resistance |






Burkina Faso

| | | |
|--|--------------|----------------------------------|
|  | Cowpea | Insect resistance to maruca pest |
|--|--------------|----------------------------------|

Cameroon

| | | |
|--|--------------|---|
|  | Cotton | Stacked insect resistance and herbicide tolerance |
|--|--------------|---|

Uganda

| | | |
|---|---------------|---|
|  | Maize | Drought tolerance and Insect resistance stacked events (WEMA) |
|  | Banana | Banana bacterial -Xanthomonas Wilt (BXW) resistance Banana parasitic nematode resistance Biofortification |
|  | Cassava | Cassava brown streak Disease (CBSV) resistance Cassava Mosaic Disease |
|  | Rice | Nitrogen Use/Water Efficiency and salt tolerant |
|  | Potato | Late blight Disease resistance |


Tanzania

| | | |
|---|-------------|---|
|  | Maize | Drought tolerance; Stacked – Bt/DT (WEMA) |
|---|-------------|---|

Malawi

| | | | | | |
|---|--------------|-------------------|---|-----------------------|----------------------------|
|  | Cotton | Insect resistance |  | Banana | Bunchytop virus resistance |
|  | Cowpea | Insect resistance |  | Banana plantain | Bunchytop virus resistance |







Mozambique

| | | |
|---|-------------|---|
|  | Maize | Stacked trait- Drought tolerance and insect resistance (WEMA) |
|---|-------------|---|

Swaziland

| | | |
|---|--------------|-------------------|
|  | Cotton | Insect resistance |
|---|--------------|-------------------|

South Africa

| | | | | | |
|---|----------------|---|---|-----------------|---|
|  | Cotton | Insect resistance/ Herbicide tolerance multi-stacks |  | Maize | Drought tolerance and insect resistance Insect resistance/ Drought tolerant Multi-stacks |
|  | Soy bean | Stacked trait with modified fatty acid composition | | | |
|  | Potato | Insect resistance |  | Sugarcane | Insect resistance |
| | | |  | Wheat | Drought /salt tolerance |