Africa Biotech/GM Research and Commercialization Status by 2017

12 CROPS
13 COUNTRIES
14 TRAITS

KEY
Countries with on-going trials
Countries with commercialized GM crops and on-going trials

- Banana
- Banana plantain
- Cassava
- Cowpea
- Gypsophila flower
- Maize
- Potato
- Rice
- Soy bean
- Sweet potato
- Sorghum (ABS)
## CROP TRAITS UNDER VARIOUS STAGES OF RESEARCH IN AFRICA BY 2017

### Kenya
- **Maize**
  - Drought tolerance: Water Efficient Maize for Africa (WEMA)
  - WEMA Insect resistance (Bt maize)
  - Stacked maize event for Bt and Drought
- **Cotton**
  - Insect resistance
- **Gypsophila flower**
  - Pink Colouration of Petals

### 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

### Sudan
- **Cotton**
  - Insect resistance

### Ghana
- **Rice**
  - Nitrogen Use Efficiency/Water Use Efficiency and Salt Tolerance
- **Cowpea**
  - Insect resistance to maruca pest

### 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)
- **Cotton**
  - Insect resistance
- **Cowpea**
  - Insect resistance
- **Banana**
  - Bunchytop virus resistance
- **Gypsophila flower**
  - Pink Colouration of Petals

### 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