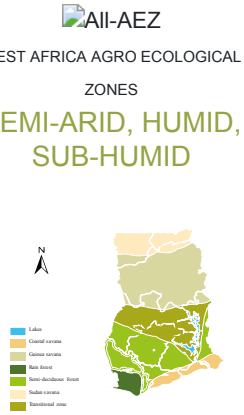
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA



WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID

COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 0 MM/YEAR

Maize

Variety Name:	Sanzal-sima
Local Name:	
Seed Type:	20
Quantity of seed:	0 kg/ha
Spacing:	White
Grain/Flesh Color:	15 April - 15 May, 15 July-15 August
Suitable Zone of Planting:	Rainfall
Production System:	
Cycle Sowing to maturity (number of days):	
Potential yield (kg/ha):	5.40
Pest Resistance:	no
Disease Resistance:	drought tolerant; tolerant to lodging; tolerant to rust, blight; streak and curvularia
Other Stresses:	Drought tolerant; tolerant to lodging; tolerant to rust, blight; streak and curvularia
Nutritional Quality:	
Other Qualities:	90N-60P2O5-60K2O+2.1Zn (Transition, semi-deciduous and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea)

NUTRIENT Recommendation

Information

organicRecommendation

Method of fertilizer application:

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **50**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **10**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Good Agricultural Practices & Management

Soil and Water Conservation	Side placement for NPK and burying for Urea fertilizers
Method of fertilizer application:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity

Soil Amendment:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Water Management:	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Pest Management	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Weed Control:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping
Cropping System:	Information

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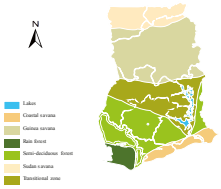
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

All-AEZ

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 0 MM/YEAR

Maize

Variety Name:	Aburohema
Local Name:	
Seed Type:	20
Quantity of seed:	0 kg/ha
Spacing:	White
Grain/Flesh Color:	15 April - 15 May, 15 July-15 August
Suitable Zone of Planting:	Rainfall
Production System:	
Cycle Sowing to maturity (number of days):	
Potential yield (kg/ha):	5.00
Pest Resistance:	
Disease Resistance:	
Other Stresses:	Quality Protein Maize
Nutritional Quality:	Quality Protein Maize
Other Qualities:	90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea) For farm specific recommendations, farmers should conduct soil testing

NUTRIENT Recommendation

Information

organicRecommendation

Method of fertilizer application:	When possible Organic manure, Compost, Biofortifiers, Biostimulants, Innoculants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **50**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **10**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Good Agricultural Practices & Management

Soil and Water Conservation	Side placement for NPK and burying for Urea fertilizers

Method of fertilizer application:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Soil Amendment:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Water Management:	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Pest Management	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. herbicides and GAP
Weed Control:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping
Cropping System:	Information

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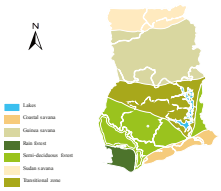
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

All-AEZ

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	CSIR-Abontem
Local Name:	Abontem
Seed Type:	Open Pollinated Variety (OPV)
Quantity of seed:	20 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 45cm; Seeds/hill: 2; Population/ha: 59,259;
Grain/Flesh Color:	Yellow (Flint)
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	75
Potential yield (kg/ha):	4.70
Pest Resistance:	no
Disease Resistance:	no
Other Stresses:	Drought Torelant, striga resistance
Nutritional Quality:	Quality Protein Maize. Good for poultry and livestock.
Other Qualities:	

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea)

organicRecommendation

Method of fertilizer application:	When possible Organic manure, Compost, Biofortifiers, Biostimulants, Innoculants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **10**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **50**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible

Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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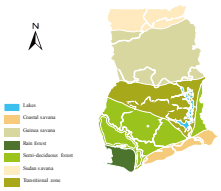
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

All-AEZ

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	Aburo Legon
Local Name:	Legon Aburo
Seed Type:	Hybrid
Quantity of seed:	20 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 45cm; Seeds/hill: 2; Population/ha: 59,259
Grain/Flesh Color:	White (Flint)
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	
Potential yield (kg/ha):	10.00
Pest Resistance:	no
Disease Resistance:	no
Other Stresses:	Fairly resistant to maize streak virus disease (MSVD)
Nutritional Quality:	
Other Qualities:	Suitable for food, feed and industrial purposes

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea). For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible If available add any of the following :Organic manure, Compost, Biofortifiers, Biostimulants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **50**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **10**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible

Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers.
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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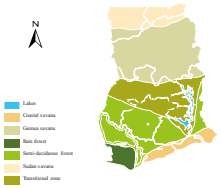
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 0 MM/YEAR

Maize

Variety Name:	Akposoe
Local Name:	
Seed Type:	20
Quantity of seed:	0 kg/ha
Spacing:	White
Grain/Flesh Color:	15 April - 15 May, 15 July-15 August
Suitable Zone of Planting:	Rainfall
Production System:	
Cycle Sowing to maturity (number of days):	
Potential yield (kg/ha):	5.00
Pest Resistance:	no
Disease Resistance:	no
Other Stresses:	Quality Protein Maize
Nutritional Quality:	Provitamin A
Other Qualities:	90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea). For farm specific recommendations, farmers should conduct soil testing

NUTRIENT Recommendation

Information

organicRecommendation

Method of fertilizer application:	When possible Organic manure, Compost, Biofortifiers, Biostimulants, Innoculants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **50**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **10**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Good Agricultural Practices & Management

Soil and Water Conservation	Side placement for NPK and burying for Urea fertilizers
Method of fertilizer application:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity

Soil Amendment:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Water Management:	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Pest Management	Weed Control (herbicides and GAP)
Weed Control:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping
Cropping System:	Information

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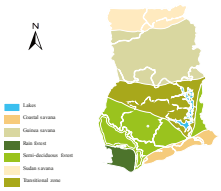
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	CSIR-Bihilifa
Local Name:	Bihilifa
Seed Type:	Open Pollinated Variety (OPV)
Quantity of seed:	20 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 45cm; Seeds/hill: 2; Population/ha: 59,259
Grain/Flesh Color:	Yellow (Flint)
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	
Potential yield (kg/ha):	4.60
Pest Resistance:	
Disease Resistance:	
Other Stresses:	Striga and drought tolerant; tolerant to lodging, tolerant to rust, blight, streak and curvularia
Nutritional Quality:	Quality Protein Maize
Other Qualities:	Most suitable for the striga hermonthica infested fields of the Guinea and Sudan savanna, and Forest-savannah transition

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea). For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible If available add any of the following :Organic manure, Compost, Biofortifiers, Biostimulants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **50**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **10**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 9

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible
Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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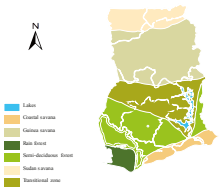
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	Dorke
Local Name:	
Seed Type:	Open Pollinated Variety (OPV)
Quantity of seed:	20 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 45cm; Seeds/hill: 2; Population/ha: 59,259
Grain/Flesh Color:	White (Flint)
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	80
Potential yield (kg/ha):	5.50
Pest Resistance:	no
Disease Resistance:	no
Other Stresses:	Striga and drought tolerant; tolerant to lodging, tolerant to rust, blight, streak and curvularia
Nutritional Quality:	Quality Protein Maize
Other Qualities:	Most suitable for the striga hermonthica infested fields of the Guinea and Sudan savanna, and Forest-savannah transition

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea). For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible Organic manure, Compost, Biofortifiers, Biostimulants, Innoculants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **50**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **10**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible

Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers.
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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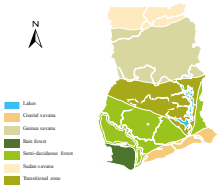
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	CSIR-Golden Jubilee
Local Name:	Golden Jubilee
Seed Type:	Open Pollinated Variety (OPV)
Quantity of seed:	20 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 45cm; Seeds/hill: 2; Population/ha: 59,259
Grain/Flesh Color:	Yellow (Dent)
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	
Potential yield (kg/ha):	5.00
Pest Resistance:	no
Disease Resistance:	no
Other Stresses:	
Nutritional Quality:	Quality Protein Maize. Suitable for poultry and livestock production
Other Qualities:	Excellent for enhanced nutrition and health of humans

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea)

organicRecommendation

Method of fertilizer application:	When possible If available add any of the following :Organic manure, Compost, Biofortifiers, Biostimulants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **50**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **10**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible

Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers.
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

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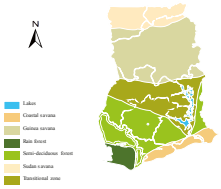
WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	LG 336
Local Name:	
Seed Type:	Hybrid
Quantity of seed:	16 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 25cm; Seeds/hill: 1; Population/ha: 53,333
Grain/Flesh Color:	Orange-yellow; type: Cornea
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	110
Potential yield (kg/ha):	8.00
Pest Resistance:	
Disease Resistance:	Helminthosporiosis, with rust streak
Other Stresses:	Drought resistant
Nutritional Quality:	
Other Qualities:	

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea). For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible If available add any of the following :Organic manure, Compost, Biofortifiers, Biostimulants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **10**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **50**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible

Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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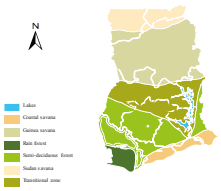
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

All-AEZ

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	LG 345
Local Name:	
Seed Type:	Hybrid
Quantity of seed:	16 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 25cm; Seeds/hill: 1; Population/ha: 53,333
Grain/Flesh Color:	Orange-yellow; type: Semi-Corné
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	
Potential yield (kg/ha):	7.00
Pest Resistance:	
Disease Resistance:	Helminthosporiosis, with rust streak
Other Stresses:	Drought resistant
Nutritional Quality:	
Other Qualities:	

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea). For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible If available add any of the following :Organic manure, Compost, Biofortifiers, Biostimulants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **10**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **50**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible

Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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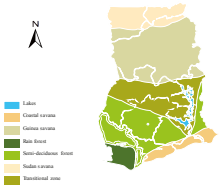
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

All-AEZ

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	Mamaba
Local Name:	Mamaba
Seed Type:	Hybrid
Quantity of seed:	20 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 45cm; Seeds/hill: 2; Population/ha: 59,259
Grain/Flesh Color:	White (Flint)
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	
Potential yield (kg/ha):	6.50
Pest Resistance:	no
Disease Resistance:	no
Other Stresses:	
Nutritional Quality:	Quality Protein Maize
Other Qualities:	

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea). For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible If available add any of the following :Organic manure, Compost, Biofortifiers, Biostimulants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **50**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **10**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible

Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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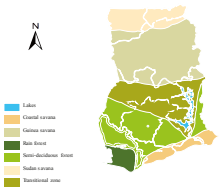
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

All-AEZ

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	CSIR-Omankwa
Local Name:	Omankwa
Seed Type:	Open Pollinated Variety (OPV)
Quantity of seed:	20 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 25cm; Seeds/hill:1; Population/ha: 53,333
Grain/Flesh Color:	White
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	
Potential yield (kg/ha):	5.00
Pest Resistance:	no
Disease Resistance:	Striga Resistant
Other Stresses:	
Nutritional Quality:	Quality Protein Maize
Other Qualities:	

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea)

organicRecommendation

Method of fertilizer application:	When possible If available add any of the following :Organic manure, Compost, Biofortifiers, Biostimulants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **50**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **10**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible

Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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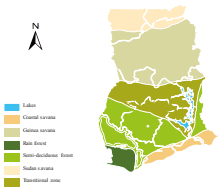
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	SC510
Local Name:	
Seed Type:	Hybrid
Quantity of seed:	20 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 25cm; Seeds/hill: 1; Population/ha: 53,333
Grain/Flesh Color:	Yellow (Flint)
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	
Potential yield (kg/ha):	5.00
Pest Resistance:	
Disease Resistance:	Resistant to most common maize diseases and less susceptile to the fall army worm
Other Stresses:	
Nutritional Quality:	ProVitamin A
Other Qualities:	

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea). For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible If available add any of the following :Organic manure, Compost, Biofortifiers, Biostimulants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **10**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **50**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible
Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers

Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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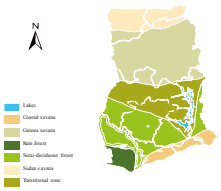
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	SC649
Local Name:	Hw3fo)
Seed Type:	Hybrid
Quantity of seed:	25 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 25cm; Seeds/hill: 1; Population/ha: 53,333
Grain/Flesh Color:	White (Semi-dented)
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	105
Potential yield (kg/ha):	8.00
Pest Resistance:	no
Disease Resistance:	no
Other Stresses:	Good tolerant to maize leaf blight and leaf rust
Nutritional Quality:	
Other Qualities:	

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea). For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible If available add any of the following :Organic manure, Compost, Biofortifiers, Biostimulants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **50**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **10**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible

Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers.
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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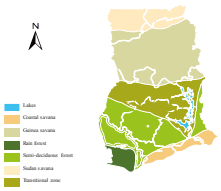
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	SC719
Local Name:	Gyemedi
Seed Type:	Hybrid
Quantity of seed:	20 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 25cm; Seeds/hill: 1; Population/ha: 53,333
Grain/Flesh Color:	White
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	115
Potential yield (kg/ha):	10.00
Pest Resistance:	no
Disease Resistance:	(MSV) Maize Streak Virus, Leave spot
Other Stresses:	Drought
Nutritional Quality:	
Other Qualities:	Very good for Ga Kenkey, and good for Fanta Kenkey and Banku

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea). For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible If available add any of the following :Organic manure, Compost, Biofortifiers, Biostimulants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **50**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **10**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 9

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible
Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

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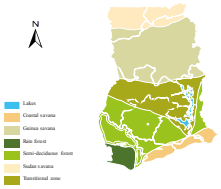
WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	CSIR-Wang-dataa
Local Name:	Wang-dataa
Seed Type:	Open Pollinated Variety (OPV)
Quantity of seed:	20 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 25cm; Seeds/hill:1; Population/ha: 53,333
Grain/Flesh Color:	White
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	
Potential yield (kg/ha):	4.70
Pest Resistance:	
Disease Resistance:	
Other Stresses:	Striga and drought tolerant; tolerant to lodging, tolerant to rust, blight, streak and curvularia
Nutritional Quality:	
Other Qualities:	

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea)

organicRecommendation

Method of fertilizer application:	When possible If available add any of the following :Organic manure, Compost, Biofortifiers, Biostimulants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **50**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **10**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible

Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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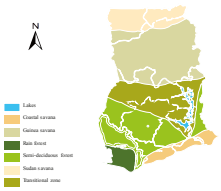
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	Obatampa 1
Local Name:	Obatanpa
Seed Type:	opv
Quantity of seed:	20 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 45cm; Seeds/hill: 2; Population/ha: 59,259
Grain/Flesh Color:	White
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August;
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	105
Potential yield (kg/ha):	6.00
Pest Resistance:	Insect pests
Disease Resistance:	Helminthosporiose, striga
Other Stresses:	Drought
Nutritional Quality:	Rich in quality protein
Other Qualities:	Good suitability for local dishes (porridge and fresh corn)

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea)

organicRecommendation

Method of fertilizer application:

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (), Apply at planting
2. **100**kg/ha of **Urea** (), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (), Apply at planting
2. **150**kg/ha of **Urea** (), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (), Apply at planting
2. **175**kg/ha of **Urea** (), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (), Apply 6 bags at planting and 3 bags 4 week after planting
2. **50**kg/ha of **MOP** (), At planting (together with the first 6 bags)

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (), Apply 6 bags at planting and 2 bags 4 week after planting
2. **10**kg/ha of **Urea** (), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible
Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers .
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate . Lime, rock phosphate and biochar to reduce soil acidity

Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted . herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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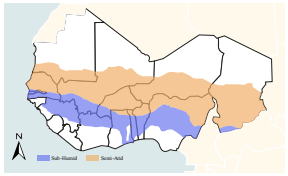
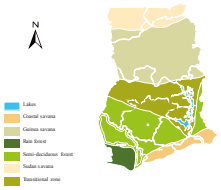
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM SOYBEAN/GHANA



WEST AFRICA AGRO ECOLOGICAL ZONES

SUB-HUMID, SEMI-ARID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Soybean

Variety Name:	Afayak
Local Name:	
Seed Type:	opv
Quantity of seed:	40 kg/ha
Spacing:	60 cm x 5 cm. Drilling is recommended
Grain/Flesh Color:	Cream
Suitable Zone of Planting:	July - August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	110
Potential yield (kg/ha):	2.00
Pest Resistance:	no
Disease Resistance:	no
Other Stresses:	Above average tolerance to common soybean pests and diseases
Nutritional Quality:	Protein content: 38%, Oil content: 18%; Carbohydrate content: 36%
Other Qualities:	Excellent seed quality; Good seed storability; High and stable yield across many environments

NUTRIENT Recommendation

20N-60P2O5-30K2O+1.2Zn. For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible Organic manure, Compost, Biofortifiers, Biostimulants, Innoculants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **100**kg/ha of **NPK 4-18-13 + 3S +3MgO +6CaO + 0.1B** (2 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **150**kg/ha of **NPK 14-31-0 +9S +1Zn +1B** (3 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 12-30-17+0.7Zn** (4 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible. e.g. irrigation, water harvesting techniques
Method of fertilizer application:	Drilling along the row and band placement Seed innoculation is recommended
Soil Amendment:	Compost, organic manure, rock phosphate, TSP could be applied
Water Management:	See "Soil and Water Conservation Techniques"
Pest Management	Integrated Pest Management
Weed Control:	Good agricultural practices (Integrated weed management) and combinations of herbicides can be adopted. Pre-emergence, early post and post emergence herbicides
Cropping System:	Rotation with cereals where applicable Intercropping with maize where applicable. At least plant in 3 years rotation

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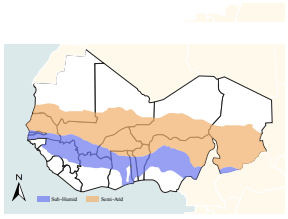
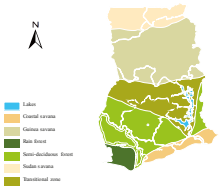
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM SOYBEAN/GHANA



WEST AFRICA AGRO ECOLOGICAL ZONES

SUB-HUMID, SEMI-ARID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Soybean

Variety Name:	Anidaso
Local Name:	
Seed Type:	opv
Quantity of seed:	40 kg/ha
Spacing:	60 cm x 5 cm. Drilling is recommended
Grain/Flesh Color:	Cream
Suitable Zone of Planting:	July - August
Production System:	Rainfed
Cycle Sowing to maturity (number of days):	105
Potential yield (kg/ha):	1.20
Pest Resistance:	no
Disease Resistance:	no
Other Stresses:	
Nutritional Quality:	
Other Qualities:	

NUTRIENT Recommendation

20N-60P2O5-30K2O+1.2Zn For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible Organic manure, Compost, Biofortifiers, Biostimulants, Innoculants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **100**kg/ha of **NPK 4-18-13 + 3S +3MgO +6CaO + 0.1B** (2 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **150**kg/ha of **NPK 14-31-0 +9S +1Zn +1B** (3 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 12-30-17+0.7Zn** (4 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible. e.g. irrigation, water harvesting techniques
Method of fertilizer application:	Drilling along the row and band placement Seed innoculation is recommended
Soil Amendment:	Compost, organic manure, rock phosphate, TSP could be applied
Water Management:	See "Soil and Water Conservation Techniques"
Pest Management	Integrated Pest Management
Weed Control:	Good agricultural practices (Integrated weed management) and combinations of herbicides can be adopted. Pre-emergence, early post and post emergence herbicides
Cropping System:	Rotation with cereals where applicable Intercropping with maize where applicable. At least plant in 3 years rotation

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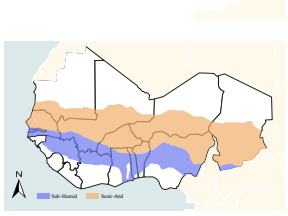
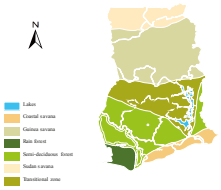
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM SOYBEAN/GHANA



WEST AFRICA AGRO ECOLOGICAL ZONES

SUB-HUMID, SEMI-ARID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Soybean

Variety Name:	CSIR-Favour
Local Name:	Favour
Seed Type:	
Quantity of seed:	40 kg/ha
Spacing:	60 cm x 5 cm. Drilling is recommended
Grain/Flesh Color:	Cream
Suitable Zone of Planting:	July - August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	115
Potential yield (kg/ha):	2.00
Pest Resistance:	no
Disease Resistance:	no
Other Stresses:	Resistance to pod shattering (up to 5% shattering), Fairly tolerant to common soybean pests and diseases
Nutritional Quality:	Contains up 43% protein; 18% oil content; Carbohydrate: 39.9%.
Other Qualities:	Excellent seed quality for soymilk; High and stable yield across many environments

NUTRIENT Recommendation

20N-60P2O5-30K2O+1.2Zn For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible Organic manure, Compost, Biofortifiers, Biostimulants, Innoculants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **100**kg/ha of **NPK 4-18-13 + 3S +3MgO +6CaO + 0.1B** (2 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **150**kg/ha of **NPK 14-31-0 +9S +1Zn +1B** (3 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 12-30-17+0.7Zn** (4 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible. e.g. irrigation, water harvesting techniques
Method of fertilizer application:	Drilling along the row and band placement Seed innoculation is recommended
Soil Amendment:	Compost, organic manure, rock phosphate, TSP could be applied
Water Management:	See "Soil and Water Conservation Techniques"
Pest Management	Integrated Pest Management
Weed Control:	Good agricultural practices (Integrated weed management) and combinations of herbicides can be adopted. Pre-emergence, early post and post emergence herbicides
Cropping System:	Rotation with cereals where applicable Intercropping with maize where applicable. At least plant in 3 years rotation

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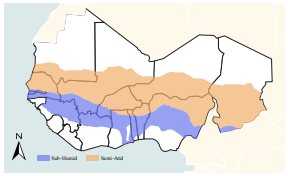
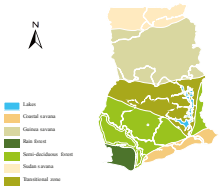
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM SOYBEAN/GHANA



WEST AFRICA AGRO ECOLOGICAL ZONES

SUB-HUMID, SEMI-ARID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Soybean

Variety Name:	Jenguma
Local Name:	
Seed Type:	Inbred line
Quantity of seed:	40 kg/ha
Spacing:	60 cm x 5 cm
Grain/Flesh Color:	Cream
Suitable Zone of Planting:	July - August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	110
Potential yield (kg/ha):	2.50
Pest Resistance:	yes
Disease Resistance:	yes
Other Stresses:	Resistance to pod shattering (up to 3% shattering). tolerant to common soybean pests and diseases; relatively tolerant to low soil P; trap-crop for Striga hermonthica
Nutritional Quality:	Protein content: 38%, Oil content: 14%; Carbohydrate content: 37%.
Other Qualities:	Excellent seed quality; High and stable yield across many environments

NUTRIENT Recommendation

20N-60P2O5-30K2O+1.2Zn For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible Organic manure, Compost, Biofortifiers, Biostimulants, Innoculants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **100**kg/ha of **NPK 4-18-13 + 3S +3MgO +6CaO + 0.1B** (2 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **150**kg/ha of **NPK 14-31-0 +9S +1Zn +1B** (3 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 12-30-17+0.7Zn** (4 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible. e.g. irrigation, water harvesting techniques
Method of fertilizer application:	Drilling along the row and band placement Seed innoculation is recommended
Soil Amendment:	Compost, organic manure, rock phosphate, TSP could be applied
Water Management:	See "Soil and Water Conservation Techniques"
Pest Management	Integrated Pest Management
Weed Control:	Good agricultural practices (Integrated weed management) and combinations of herbicides can be adopted. Pre-emergence, early post and post emergence herbicides
Cropping System:	Rotation with cereals where applicable Intercropping with maize where applicable. At least plant in 3 years rotation

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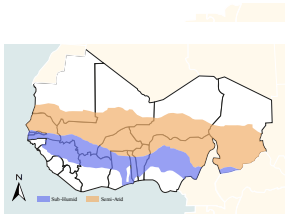
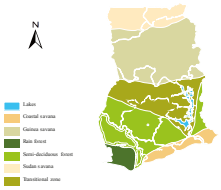
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM SOYBEAN/GHANA



WEST AFRICA AGRO ECOLOGICAL ZONES

SUB-HUMID, SEMI-ARID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Soybean

Variety Name:	Salintuya-I
Local Name:	
Seed Type:	
Quantity of seed:	40 kg/ha
Spacing:	60 cm x 5 cm. Drilling is recommended
Grain/Flesh Color:	Cream
Suitable Zone of Planting:	July - August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	
Potential yield (kg/ha):	2.20
Pest Resistance:	no
Disease Resistance:	yes
Other Stresses:	Tolerance to diseases: tolerant to bacterial pustule and Cercospora leaf spot
Nutritional Quality:	
Other Qualities:	Excellent seed quality; good trap-crop for S. hermonthica

NUTRIENT Recommendation

20N-60P2O5-30K2O+1.2Zn For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible Organic manure, Compost, Biofortifiers, Biostimulants, Innoculants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **100**kg/ha of **NPK 4-18-13 + 3S +3MgO +6CaO + 0.1B** (2 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **150**kg/ha of **NPK 14-31-0 +9S +1Zn +1B** (3 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 12-30-17+0.7Zn** (4 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible. e.g. irrigation, water harvesting techniques
Method of fertilizer application:	Drilling along the row and band placement Seed innoculation is recommended
Soil Amendment:	Compost, organic manure, rock phosphate, TSP could be applied
Water Management:	See "Soil and Water Conservation Techniques"
Pest Management	Integrated Pest Management
Weed Control:	Good agricultural practices (Integrated weed management) and combinations of herbicides can be adopted. Pre-emergence, early post and post emergence herbicides
Cropping System:	Rotation with cereals where applicable Intercropping with maize where applicable. At least plant in 3 years rotation

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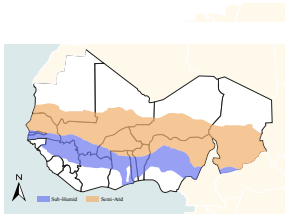
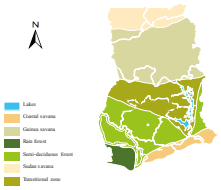
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM SOYBEAN/GHANA



WEST AFRICA AGRO ECOLOGICAL ZONES

SUB-HUMID, SEMI-ARID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Soybean

Variety Name:	Salintuya-II
Local Name:	
Seed Type:	
Quantity of seed:	40 kg/ha
Spacing:	60 cm x 5 cm. Drilling is recommended
Grain/Flesh Color:	Cream
Suitable Zone of Planting:	July - August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	
Potential yield (kg/ha):	3.20
Pest Resistance:	yes
Disease Resistance:	yes
Other Stresses:	Tolerant to common soybean pests and diseases
Nutritional Quality:	
Other Qualities:	Excellent seed quality, high and stable yield across many environments

NUTRIENT Recommendation

20N-60P2O5-30K2O+1.2Zn For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible Organic manure, Compost, Biofortifiers, Biostimulants, Innoculants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **100**kg/ha of **NPK 4-18-13 + 3S +3MgO +6CaO + 0.1B** (2 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **150**kg/ha of **NPK 14-31-0 +9S +1Zn +1B** (3 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 12-30-17+0.7Zn** (4 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible. e.g. irrigation, water harvesting techniques
Method of fertilizer application:	Drilling along the row and band placement Seed innoculation is recommended
Soil Amendment:	Compost, organic manure, rock phosphate, TSP could be applied
Water Management:	See "Soil and Water Conservation Techniques"
Pest Management	Integrated Pest Management
Weed Control:	Good agricultural practices (Integrated weed management) and combinations of herbicides can be adopted. Pre-emergence, early post and post emergence herbicides
Cropping System:	Rotation with cereals where applicable Intercropping with maize where applicable. At least plant in 3 years rotation

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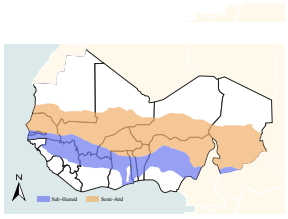
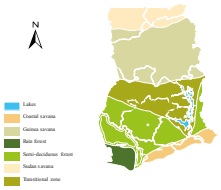
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM SOYBEAN/GHANA



WEST AFRICA AGRO ECOLOGICAL ZONES

SUB-HUMID, SEMI-ARID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Soybean

Variety Name:	Suong-Pungun
Local Name:	
Seed Type:	Inbred line
Quantity of seed:	40 kg/ha
Spacing:	60 cm x 5 cm. Drilling is recommended
Grain/Flesh Color:	Cream
Suitable Zone of Planting:	July - August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	85
Potential yield (kg/ha):	1.50
Pest Resistance:	no
Disease Resistance:	no
Other Stresses:	Resistance to pod shatering (less than 5%); Fairly tolerance to common soybean pests and diseases
Nutritional Quality:	
Other Qualities:	Excellent seed quality; Good seed storability; High and stable yield across many environment

NUTRIENT Recommendation

20N-60P2O5-30K2O+1.2Zn For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible Organic manure, Compost, Biofortifiers, Biostimulants, Innoculants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **100**kg/ha of **NPK 4-18-13 + 3S +3MgO +6CaO + 0.1B** (2 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **150**kg/ha of **NPK 14-31-0 +9S +1Zn +1B** (3 bags x 50 kg/ha), Apply at planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Semi-arid,Sub-humid (Ghana-Transitional zone,Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 12-30-17+0.7Zn** (4 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible. e.g. irrigation, water harvesting techniques
Method of fertilizer application:	Drilling along the row and band placement Seed innoculation is recommended
Soil Amendment:	Compost, organic manure, rock phosphate, TSP could be applied
Water Management:	See "Soil and Water Conservation Techniques"
Pest Management	Integrated Pest Management
Weed Control:	Good agricultural practices (Integrated weed management) and combinations of herbicides can be adopted. Pre-emergence, early post and post emergence herbicides
Cropping System:	Rotation with cereals where applicable Intercropping with maize where applicable. At least plant in 3 years rotation

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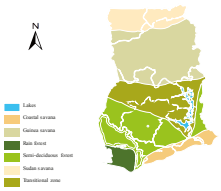
AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	LG 501
Local Name:	
Seed Type:	Hybrid
Quantity of seed:	16 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 25cm; Seeds/hill: 1; Population/ha: 53,333
Grain/Flesh Color:	Orange-yellow; type: Semi-Corné
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfed
Cycle Sowing to maturity (number of days):	105
Potential yield (kg/ha):	7.00
Pest Resistance:	
Disease Resistance:	Helminthosporiosis, with rust streak
Other Stresses:	Drought resistant
Nutritional Quality:	
Other Qualities:	

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea) For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible If available add any of the following :Organic manure, Compost, Biofortifiers, Biostimulants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **10**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **50**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possible

Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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AGRO-INPUT RECOMMENDATIONS FOR

FeSeRWAM MAIZE/GHANA

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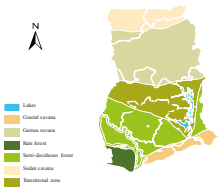
WEST AFRICA AGRO ECOLOGICAL ZONES

SEMI-ARID, HUMID, SUB-HUMID



COUNTRY AGRO ECOLOGICAL ZONES

RAINFALL VOLUME RANGE 600 MM/YEAR

Maize

Variety Name:	CSIR-CRI Tintim
Local Name:	Tintim
Seed Type:	Hybrid
Quantity of seed:	20 kg/ha
Spacing:	Between Rows: 75cm; Within Rows: 45cm; Seeds/hill: 2; Population/ha: 59,259
Grain/Flesh Color:	White (Flint)
Suitable Zone of Planting:	15 April - 15 May, 15 July-15 August
Production System:	Rainfall
Cycle Sowing to maturity (number of days):	110
Potential yield (kg/ha):	7.90
Pest Resistance:	no
Disease Resistance:	no
Other Stresses:	Moderately tolerant to drought
Nutritional Quality:	
Other Qualities:	Very good for domestic purposes

NUTRIENT Recommendation

90N-60P2O5-60K2O+2.1Zn (Transition, semi-decidious and rain forest) 100N-40P2O5-40K2O+2.1Zn (Sudan and Guinea). For farm specific recommendations, farmers should conduct soil testing

organicRecommendation

Method of fertilizer application:	When possible If available add any of the following :Organic manure, Compost, Biofortifiers, Biostimulants

Fertilizers Recommendation 1

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 2

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **275**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (5.5 bags x 50 kg/ha), Apply at planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 3

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **100**kg/ha of **Urea** (2 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 1 bag 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 4

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 15-20-20 + 0.7Zn** (4 bags x 50 kg/ha), Apply at planting
2. **150**kg/ha of **Urea** (3 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1 bag 5-6 weeks after planting

Fertilizers Recommendation 5

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **200**kg/ha of **NPK 11-22-21 + 5S + 0.7Zn + 0.5B** (4 bags x 50 kg/ha), Apply at planting
2. **175**kg/ha of **Urea** (3.5 bags x 50 kg/ha), 3-5 weeks after planting or split application; first top dress, 2 bags 3-4 weeks after planting and second top dress 1.5 bag 5-6 weeks after planting

Fertilizers Recommendation 6

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **450**kg/ha of **NPK 23-10-5 + 2MgO + 3S + 0.3Zn** (9 bags x 50 kg/ha), Apply 6 bags at planting and 3 bags 4 week after planting
2. **50**kg/ha of **MOP** (0.2 bags x 50 kg/ha), At planting (together with the first 6 bags)

Fertilizers Recommendation 7

Agro-Ecological Zones Suitable:
Sub-humid,Semi-arid (Ghana-Guinea Savanna,Sudan Savanna)

Method of fertilizer application

1. **400**kg/ha of **NPK 20-10-10 + 3S** (8 bags x 50 kg/ha), Apply 6 bags at planting and 2 bags 4 week after planting
2. **10**kg/ha of **Urea** (1 bags x 50 kg/ha), 6 weeks after planting

Fertilizers Recommendation 8

Agro-Ecological Zones Suitable:
Humid,Semi-arid (Ghana-Rain Forest,Coastal Savanna,Semi-deciduous forest,Transitional zone)

Method of fertilizer application

1. **300**kg/ha of **NPK 15-20-20 + 0.7Zn** (6 bags x 50 kg/ha), Apply at planting

Good Agricultural Practices & Management

Soil and Water Conservation	Plough and harrow where applicable, mulching, use of cover crops. Minimum/zero tillage is also a recommended land preparation method when possiblex

Method of fertilizer application:	Side placement for NPK and burying for Urea fertilizers
Soil Amendment:	Add organic manure when necessary, Biochar, lime and rock phosphate. Lime, rock phosphate and biochar to reduce soil acidity
Water Management:	Use supplementary irrigation where appropriate even during rainfed production. e.g. irrigation, water harvesting techniques
Pest Management	Scout for insects and apply pesticide (IPM) especially for Fall Army Worms. Emamectin benzoate or Bacillus thuringiensis (or Bt) rotate chemical to avoid resistance
Weed Control:	Good agricultural practices (mechanical weeding) and combinations of herbicides can be adopted. Herbicides and GAP
Cropping System:	Rotation (maize and legumes on the same field over time is recommended. E.g. rotation, inter-cropping/mixed cropping, Continuous monocropping

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