



REPUBLIC OF KENYA
COUNTY GOVERNMENT OF BUNGOMA

DEPARTMENT OF AGRICULTURE, IRRIGATION AND CO-OPERATIVES

COUNTY DIRECTOR OF AGRICULTURE

P.O Box 33-50200

Bungoma

15th November 2023

INTERNAL MEMO

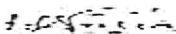
TO: The County Director of Agriculture

FROM: County Monitoring, Evaluation and Budgets Officer

AGRICULTURE DIRECTORATE REPORT- NOVEMBER 2023

Find attached the Farm Input support programme Monitoring and Evaluation report for your perusal and reference.

Thank you


Benson Masinde

County Monitoring, Evaluation and Budgets Officer
Bungoma
CC
Chief officer-Agriculture and

Irrigation



REPUBLIC OF KENYA

COUNTY GOVERNMENT OF BUNGOMA
DEPARTMENT OF AGRICULTURE, IRRIGATION
AND
CO-OPERATIVE
FARM INPUT SUPPORT PROGRAMME MONITORING AND EVALUATION
REPORT

NOVEMBER 2023



COMPILED AND PREPARED
BY
BENSON MASINDE
MONITORING AND EVALUATION OFFICER

BUNGOMA COUNTY INPUT SUPPORT PROGRAMME MONITORING AND
EVALUATION REPORT NOVEMBER 2023

INTRODUCTION

The County Government of Bungoma, through the Department of Agriculture, Livestock, Fisheries, Irrigation and Cooperatives, has also been implementing agricultural input support programmes since 2013. These support includes: free issuance of fertilizer and certified maize seed to vulnerable farmers. According to the Kenya National Bureau of Statistics, the Agricultural Sector in Bungoma contributed 43% of the total Gross County Product in 2022. The sector also contributes significantly to other economic activities in the county. The agriculture sector is key towards poverty alleviation in the county and offering employment to the growing county's youthful population.

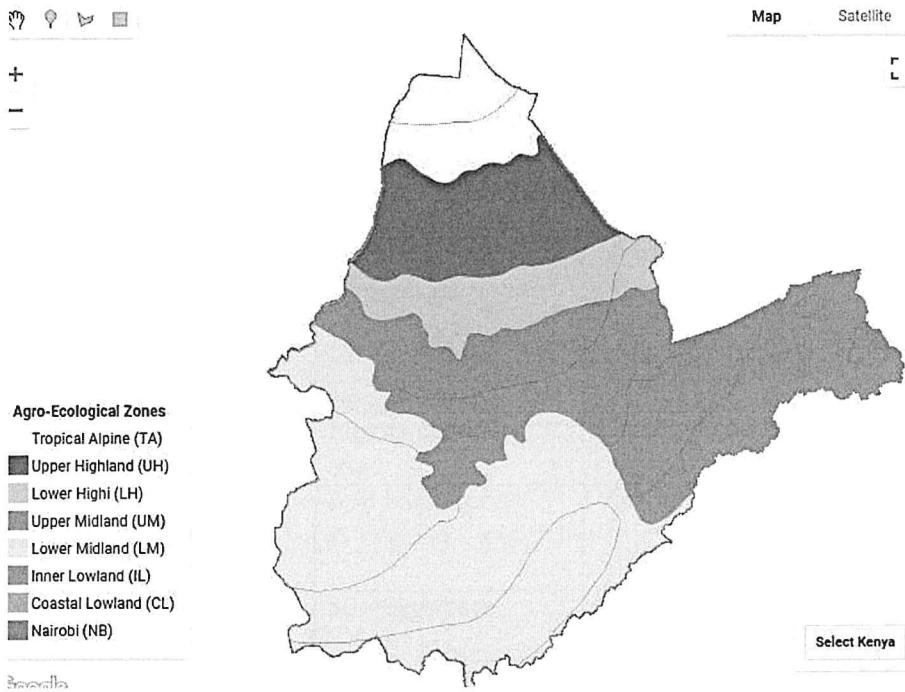
Farm input support programme has been implemented in the county for several years since devolution started. In the FY 2022/23 the county supported 21,900 vulnerable farmers (500 farmers per ward except Khalaba and Township wards which targeted 200 farmers each). Each of the vulnerable farmers received 2 bags of fertilizer (Basal and Top dress) and 10Kg bag of Hybrid maize seed of different varieties depending on the Agro ecological zones.

There was a series of activities in the implementation of the programme during the growing Long rain season in all the wards. This includes;

- 1) Reconstituting of the FISP vetting committees in all the wards
- 2) Sensitization barazas undertaken during before vetting
- 3) The committee vetting of vulnerable farmers
- 4) Distribution of fertilizers to beneficiaries
- 5) Training of farmers by the Maize Value chain officers on Good Agricultural practices
- 6) Monitoring and Evaluation by the sub county and County teams

AGRO ECOLOGICAL ZONES IN BUNGOMA COUNTY

There are different agro ecological zones in the county. Agricultural practices were undertaken on different months in the Long Rain season as per the agro ecological zones (AEZs) across county.



This is as illustrated in the tables below in the four major AEZs (LMs, UMs, LH and UHs)

AGRICULTURAL PRACTICES UNDERTAKEN ON MAIZE DURING THE GROWING SEASON IN THREE MAJOR AEZs

LOW MIDLAND(LM, 2 & 3) -BUMULA, KANDUYI AND WEBUYE WEST

| S/no | Practices | Seed variety and yields last season | Mode of practice | Period undertaken | Expected yields I this season(2023lr) |
|------|---|-------------------------------------|---|--|---------------------------------------|
| 1 | Type of seed used the previous year | Mostly certified seed | Certified seed | Last year LR season | N/A |
| 2 | Average Yields harvested previous season | 5 -8 bags/Acre | Various last season | Last Year LR season | N/A |
| 3 | Average Kgs of fertilizer applied | 30-40kgs/acre | Various last season | Last Year LR season | N/A |
| 4 | <u>Land preparations(1st and 2nd ploughing)</u> | | | Mid Feb to Mid-March 2023 | |
| 5 | Mode of land preparation | | Mostly hand digging and Ox plough A few hired tractors | | N/A |
| 6 | Planting | H516,WH507, | | 3 rd to 4 th week of | |

| | | | | | |
|----|----------------------------------|----------------------------------|---|--|----------------------|
| | | WH505 and KS 513 Maize varieties | | March 2023 | |
| 7 | 1 st Weeding | | | 1 st and 2 nd week of April 2023 | |
| 8 | 2 nd weeding | | | 3 rd and 4 th Week 9April 2023 | |
| 10 | Top dressing | | | 410 th week of April 2023 | |
| 11 | Management of pests and diseases | | Early planting, Spraying of agrochemicals, Field hygiene, rogueing, ITK | March, April and May 2023 | |
| 12 | Harvesting, drying and shelling | | Done by manually | July-September 2023 | |
| 13 | Postharvest handling | | Most farmers had storage facilities | July-September 2023 | |
| 14 | Average yields for the AEZs(LM) | | | | 14 bags(90kg s)/Acre |

UPPER MIDLAND (UM) 1, 2, 3 & 4(KABUCHAI, WEBUYE EAST, PARTS OF KIMILILI AND SISRISIA, AND TONGAREN, SUB COUNTIES)

| S/no | Practices | Seed variety and yields last season | Mode of practice | Period undertaken | Expected yields I this season(2023lr) |
|------|---|-------------------------------------|------------------------|---|---------------------------------------|
| 1 | Type of seed used the previous year | Mostly certified seed | Certified seed | Last year LR season | N/A |
| 2 | Average Yields harvested previous season | 9-15 bags/Acre | Various last season | Last Year LR season. | N/A |
| 3 | Average Kgs of fertilizer applied | 50Kgs /acre | Various last season | Last Year LR season. | N/A |
| 4 | <u>Land preparations(1st and 2nd ploughing)</u> | | | 4 th week of Feb to Mid-March 2023 | N/A |
| 5 | Mode of land preparation | | Ox plough and Tractors | | N/A |
| 6 | Planting | H517 and H6213 , Maize variety | | 2 nd week to 4 th week March 2023 | |
| 7 | 1 st Weeding | | | 4 th week March to 2 nd | |

| | | | | | |
|----|----------------------------------|--|--|------------------------------------|------------------------|
| | | | | week of April 2023 | |
| 8 | 2 nd weeding | | | 4 th Week April 2023 | |
| 9 | Top dressing | | | 4 th week of April 2023 | |
| 10 | Management of pests and diseases | | Early planting, Spraying of agrochemicals, Field hygiene, rogueing, ITK, | March, April and May 2023 | |
| 12 | Harvesting, Drying and shelling | | Done by manually | September-October 2023 | |
| 13 | Postharvest handling | | Most farmers had storage facilities | September-November 2023 | |
| 14 | Average yields for the AEZs(LM) | | | | 16.7 bags(90kg s)/Acre |

UPPER HIGHLAND AND LOWER HIGH LAND (UH & LH) (MT ELGON AND TONGAREN SUB COUNTIES)

| S/no | Practices | Seed variety and yields last season | Mode of practice | Period undertaken | Expected yields I this season(2023lr) |
|------|--|-------------------------------------|--|------------------------------------|---------------------------------------|
| 1 | Type of seed used the previous year | Mostly certified seed | Certified seed | Last year LR season | N/A |
| 2 | Average Yields harvested previous season | 15-20 bags/Acre | Various last season | Last Year LR season | N/A |
| 3 | Average Kgs of fertilizer applied | 50Kgs/acre | Various last season | Last Year LR season | N/A |
| 4 | Land preparations(1 st and 2 nd ploughing) | | Use of ox plough, hired and own tractors | January to Feb to 2023 | |
| 5 | Planting | H615 and WH 707 Maize variety | | Mid March2023 | |
| 6 | 1 st Weeding | | | 1 st week of April 2023 | |
| 7 | 2 nd Weeding | | | 4 th Week April 2023 | |
| 8 | Top dressing | | | 4 th week of April 2023 | |
| 9 | Management of pests and diseases | | Early planting, Spraying of | March, April and May 2023 | |

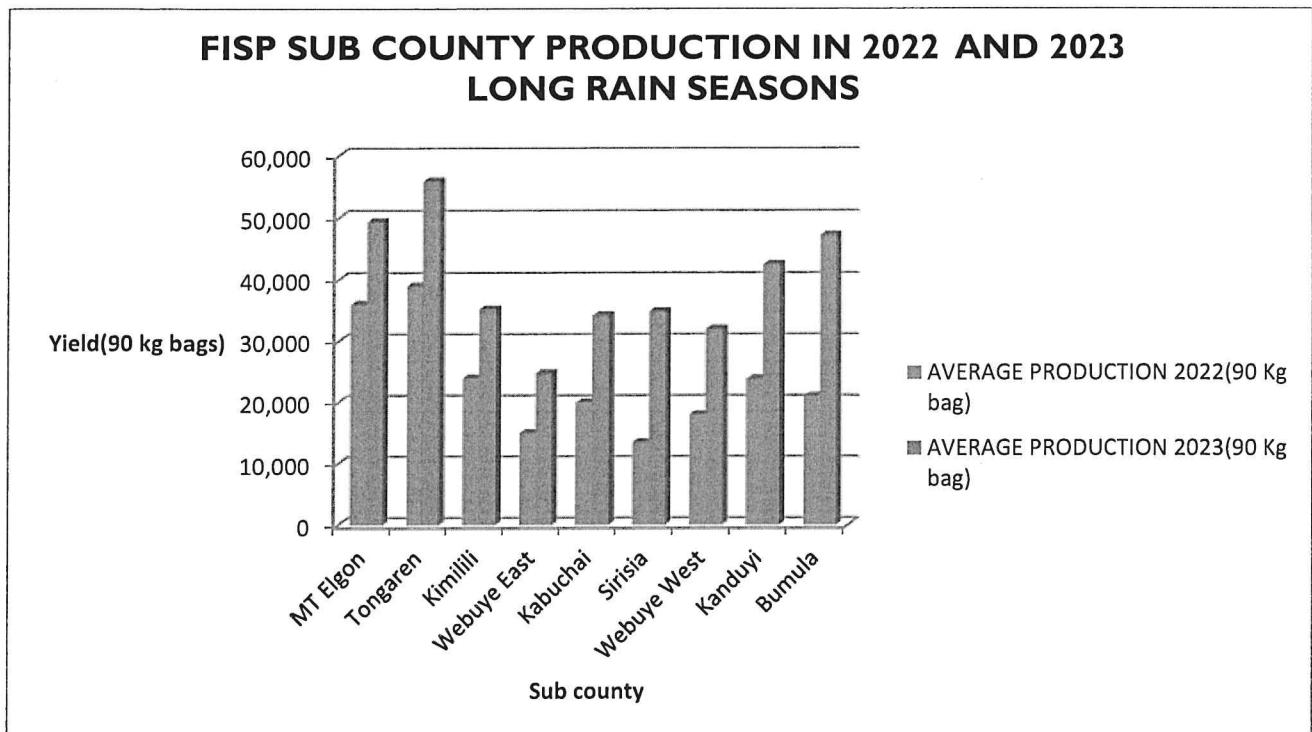
| | | | | | |
|----|---------------------------------|--|--|-------------------------|-------------------------|
| | | | agrochemicals, Field hygiene, rogueing | | |
| 12 | Harvesting | | Done by manually | October-November 2023 | |
| 13 | Postharvest handling | | Most farmers had storage facilities | September-November 2023 | |
| 14 | Average yields for the AEZs(LM) | | | | 17.57 bags(90kg s)/Acre |

AVERAGE PRODUCTION YIELDS/ACRE BY SUB COUNTY FOR 2022 AND 2023

| SUB COUNTY | ACREAGE | AVERAGE PRODUCTION (90KG BAGS)/ACRE 2022 | AVERAGE PRODUCTION(90KG BAGS)/ACRE 2023 | AVERAGE PRODUCTION 2022(90Kg bags) | AVERAGE PRODUCTION 2023 (90Kg bags) |
|---------------------------|---------------|--|---|------------------------------------|-------------------------------------|
| MT Elgon | 3,000 | 12 | 16.46 | 36,000 | 49380 |
| Tongaren | 3,000 | 13 | 18.64 | 39,000 | 55920 |
| Kimilili | 2000 | 12 | 17.63 | 24,000 | 35260 |
| Webuye East | 1500 | 10 | 16.51 | 15,000 | 24765 |
| Kabuchai | 2000 | 10 | 17.09 | 20,000 | 34180 |
| Sirisia | 1500 | 9 | 16.6 | 13,500 | 24900 |
| Webuye West | 2000 | 9 | 16 | 18,000 | 32000 |
| Kanduyi | 3400 | 7 | 12.5 | 23,800 | 42500 |
| Bumula | 3500 | 6 | 13.5 | 21,000 | 47250 |
| Total | 21,900 | 88 | 144.93 | 210,300 | 346155 |
| Average Yield/Acre | | 9.77 Bags/Acre | 16.10 Bags/Acre | | |

The table above shows average yields per acre and the total productions for each sub county. The production was high in Upper highland agro ecological zones (Mt Elgon, Tongaren and Kimilili) as compared to Upper midland and lower midland zones.

There was evidence yield increase from 210,300 bags produced in 2022 to 346,155 bags in 2023 giving a percentage increase of 64.6%. This was attributed from increase in fertilizer use by the targeted beneficiaries.



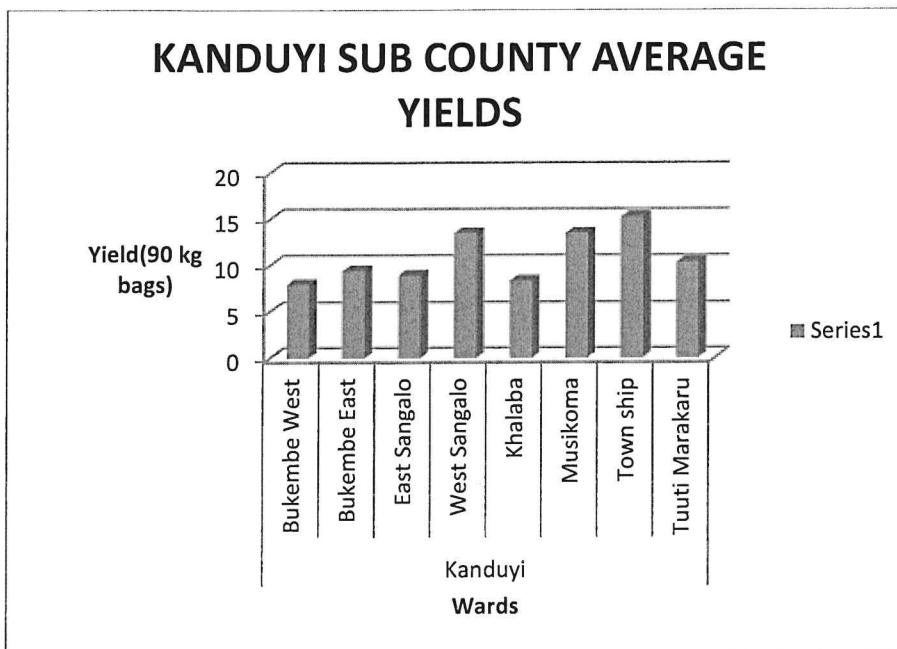
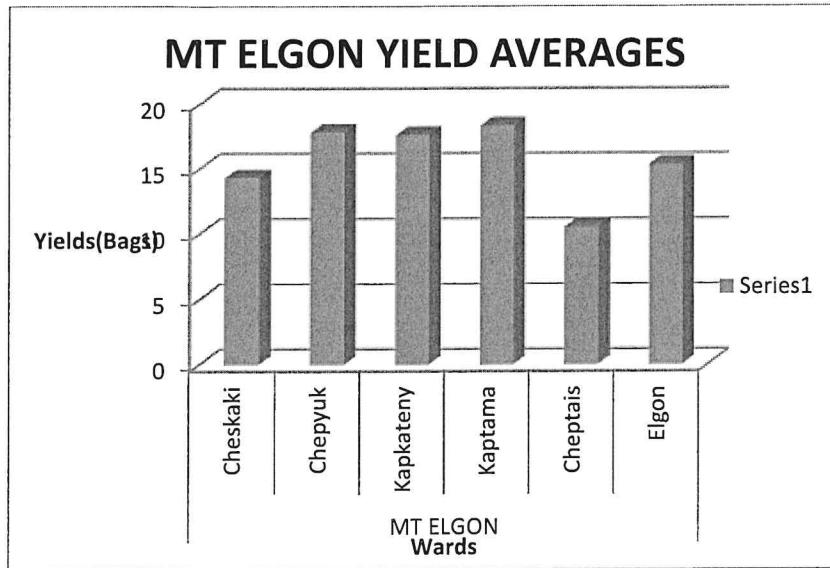
AVERAGE YIELD SUMMARY PER WARD

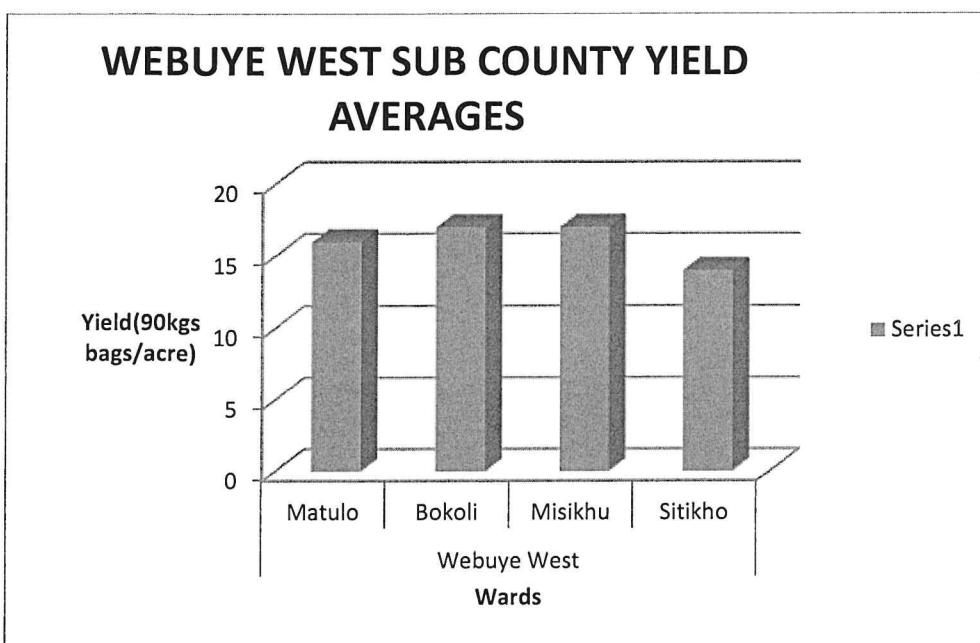
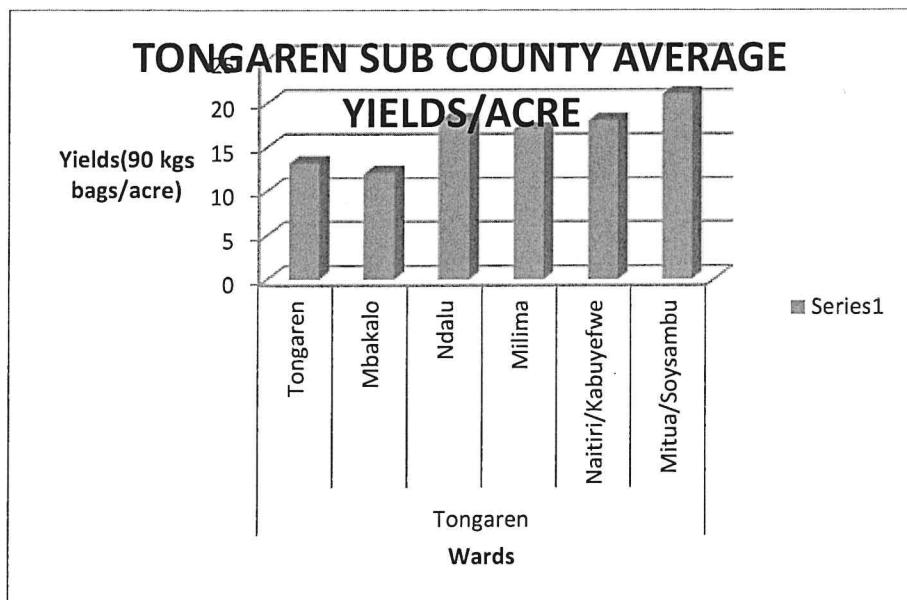
| SUBCOUNTY | WARD | AVERAGE YIELDS(90KG BAGS) /ACRE IN 2023 |
|-----------|----------------|---|
| MT ELGON | Cheskaki | 14.3 |
| | Chepyuk | 17.8 |
| | Kapkateny | 17.6 |
| | Kaptama | 18.3 |
| | Cheptais | 10.5 |
| | Elgon | 15.3 |
| | TOTAL | 93.8 |
| | AVERAGE | 15.63333333 |

| | | |
|---------------|-------------------|--------------------|
| BUMULA | Bumula | 15 |
| | Kabula | 13 |
| | Khasoko | 13 |
| | Kimaeti | 14 |
| | Siboti | 14 |
| | South Bukusu | 14 |
| | West Bukusu | 12 |
| | TOTAL | 95 |
| | AVERAGE | 13.57142857 |
| Kanduyi | Bukembe West | 7.9 |
| | Bukembe East | 9.4 |
| | East Sangalo | 8.9 |
| | West Sangalo | 13.46 |
| | Khalaba | 8.3 |
| | Musikoma | 13.46 |
| | Town ship | 15.2 |
| | Tuuti Marakaru | 10.3 |
| | TOTAL | 100.4914286 |
| | AVERAGE | 12.56142857 |
| Tongaren | Tongaren | 13.22 |
| | Mbakalo | 12.06 |
| | Ndalu | 18 |
| | Milima | 17 |
| | Naitiri/Kabuyefwe | 18 |
| | Mitua/Soysambu | 21 |
| | TOTAL | 111.8 |
| | AVERAGE | 18.64 |
| Webuye West | Matulo | 16 |
| | Bokoli | 17 |
| | Misikhu | 17 |
| | Sitikho | 14 |
| | TOTAL | 64 |

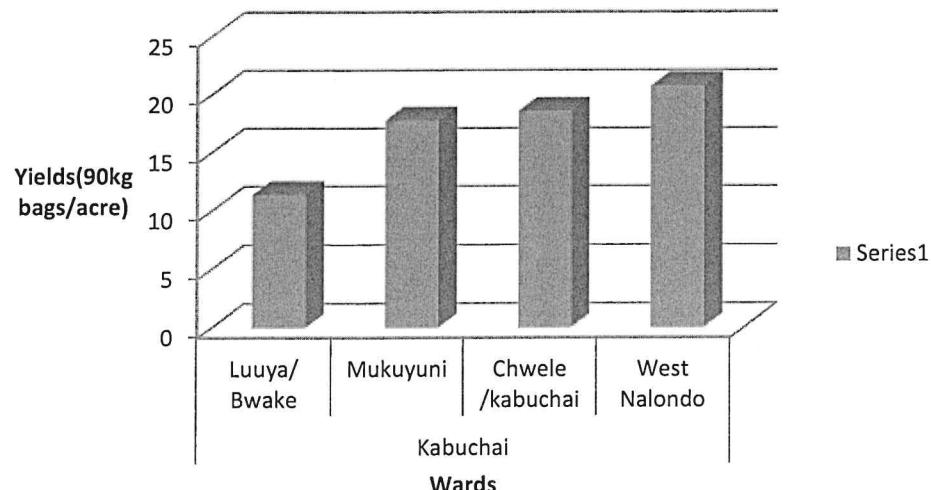
| | | |
|-------------|-------------------|--------------------|
| | AVERAGE | 16 |
| Webuye East | Maraka | 9.4 |
| | Mihuu | 12.88 |
| | Ndivisi | 11.25 |
| | TOTAL | 49.53 |
| | AVERAGE | 16.51 |
| Kabuchai | Luuya/ Bwake | 11.37 |
| | Mukuyuni | 17.76 |
| | Chwele /kabuchai | 18.56 |
| | West Nalondo | 20.7 |
| | TOTAL | 68.39 |
| | AVERAGE | 17.0975 |
| Sirisia | Namwela | 18 |
| | Lwandanyi | 16 |
| | Malakisi/Kulisiru | 16 |
| | TOTAL | 50 |
| | AVERAGE | 16.66666667 |
| Kimilili | Kamukuywa | 12.97 |
| | Maeni | 14.84 |
| | Kimilili | 13.08 |
| | Kibingei | 12.99 |
| | TOTAL | 70.54666667 |
| | AVERAGE | 17.63666667 |

AVEREGE YIELD ANALYSIS PER SUB COUNTY AND WARD

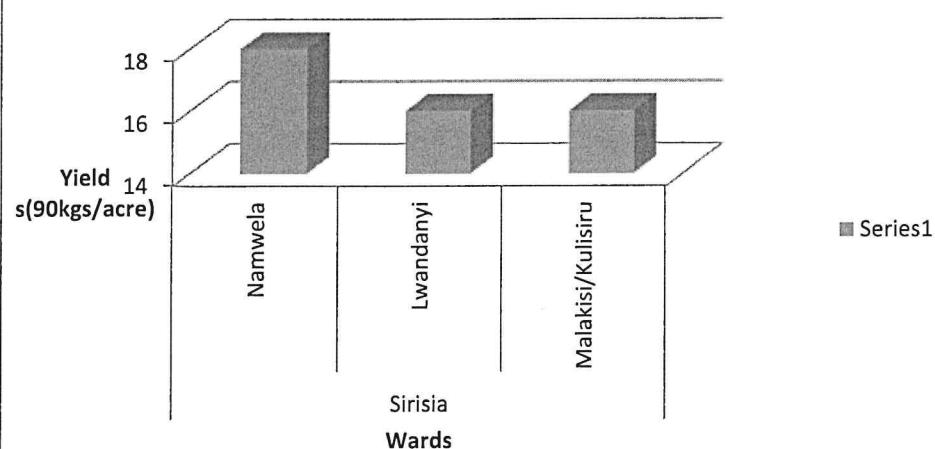




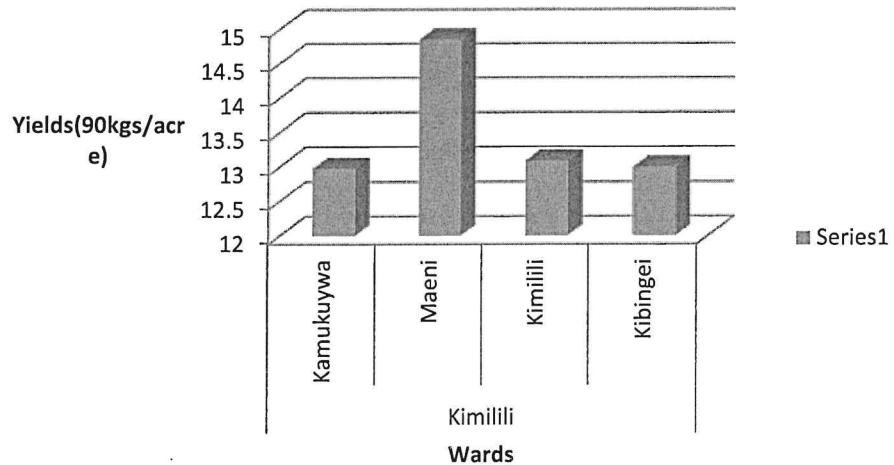
KABUCHAI SUB COUNTY YIELD AVERAGES



SIRISIA SUB COUNTY YIELD AVERAGES



KIMILILI SUB COUNTY YIELD AVERAGES



OUT COMES AND IMPACT OF THE PROGRAMME

The average production per targeted beneficiary was 16 bags (90kgs)/Acre. This translated to gross income of about Ksh. 64,000 per acre with a net income of Ksh.42, 700. The total estimated income was Ksh. 935,130,000 from an average of total production of 350,400 bags(90kg). This has seen the house holds improve their live hoods and create employment.

CHALLENGES

The programmes have faced critical challenges key being;

There were high incidences of pests and diseases especially Fall Armyworm and other emerging diseases like Maize Lethal Necrosis

Inadequate facilitation for farmers training and monitoring/follow up of the programme

There is high demand for the support beyond the funding limits.

Inadequate postharvest handling facilities like drying, shelling and storage facilities.

Inadequate policy framework for beneficiary targeting,

CONCLUSION

The programme has seen improved livelihoods among targeted beneficiaries across the county. Most farmers were faced with a major challenge of access to farm inputs especially certified seed and fertilizer. The farmers are also sensitized and trained on good agricultural practices in maize production, postharvest handling and marketing.

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Western Seed Company Limited
 P.O. Box 1022
 30200 KITALE
 KENYA

info@westernseedcompany.com
 www.weslernseedcompany.com
 +254 54 30232
 +254 54 31282

County Government of Bungoma

Delivery

Delivery No. 7921
 Date 08.03.2024
 Customer Number CWE0065
 Cont P. Suppl. -No Sales Employee-
 Customer Ref
 Cont P. Cust.

| S/N | Item Code | Batch | Description | Qty | Price per Unit | Total |
|-----|-----------|---------------------|----------------|-----|----------------|----------------|
| 1 | 100108001 | MAI-WSC-23-04108-HP | WH507(12x2kgs) | 104 | KSH 8,640.00 | KSH 898,560.00 |
| - | 100108001 | MAI-WSC-23-04108-HP | WH507(12x2kgs) | 2 | KSH 720.00 | KSH 1,440.00 |
| | | | | | | KSH 900,000.00 |

0.00 Discount %

VAT

Total KSH 900,000.00

ALL GOODS REMAIN THE PROPERTY OF WSC UNTIL PAID FOR IN FULL

Remarks DDELIVERY TO KABULA
 KAU 478S-JAFAR

Shipping Type

0.000

External Appearance of Goods

3912

Gross Weight

Type and Number of Packaging

104X12X2kgs/25/2

Place of Load

Date and Time of Delivery

8/3/24

to

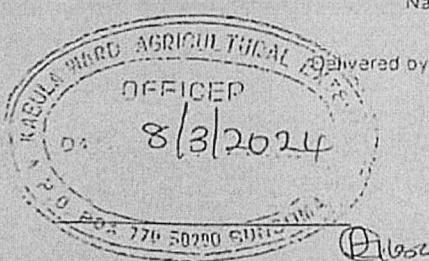
Lorry Plate

KAU 478S

Receiver Signature

Name and Address of Carrier

WSCL



Coreen

Sender

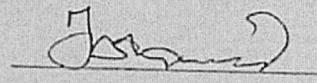
Jafar

Recipient

WSCL

Carrier

Carrier Signature



Fax ID

Managing Director WSCL -LIVE

IBAN

CO-OP

01136258721600

Page Number 1

Western Seed Company Ltd

KRAMW004202207079014 08.03.2024 11:56:35
004079014000002801



INVOICE

Date: 08.03.2024
Invoice No.: 64733
Order Number:

P.O BOX 1022, 30200
KITALE
Tel: (254) 054 30232, 30994
Fax: (254) 054 31282
PIN NO: Poco613949Y

To: County Government of Bungoma

Page: 1

Customer PIN:

Currency: KSH Exc. Rate: 1.0000

| HS Code | Acct Code. | Description | Qty | Price Bef. Dsc. | Disc. % | Tax % | Total |
|------------|------------|----------------|-----|-----------------|---------|-------|------------|
| 0111.11.00 | 401010001 | WH507(12x2kgs) | 104 | 8,640.00 | 0.00 | 0.00 | 898,560.00 |
| 0111.11.00 | 401010001 | WH507(12x2kgs) | 2 | 720.00 | 0.00 | 0.00 | 1,440.00 |

0.00 % Discount

| | | | | | |
|-----------|---------------|------------|----------|------|------------|
| Net Price | Exempt Output | 900,000.00 | 0.00 | 0.00 | 900,000.00 |
| Total | | 900,000.00 | 0.000000 | 0 | 900,000.00 |

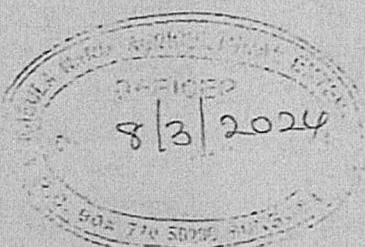
ALL GOODS REMAIN THE PROPERTY OF WSC UNTIL PAID FOR IN FULL

Payment Terms:

DELIVERY TO KABULA
KAU 478S-JAFAR Based On Deliveries 7921.

For Western Seed Co. Ltd

Signature



Q5

Head Office
Midland House
Kenyatta Avenue

DRAFT NOTE

MIDLAND EMPORIUM (KAKAMEGA) LTD

| Quantity | Particulars | Unit Price | Value | Remarks |
|----------|--|------------|-------|-----------|
| 500 bags | 500 bags x 50Kgs | | | |
| | MAWUNDO PHANTUNG FERTILIZER | | | |
| | NPK : 15% 20% 10% NPK | | | |
| | OFFICE | | | |
| | DATE : 8/3/2024 | | | |
| | P.D. 1000 | | | |
| | BOX 770 5000 GUNGS | | | |
| | TRANSPORTER MIDLAND EMPIRUM KAKAMEGA LTD | | | PLUS |
| | DRIVER'S NAME CONSTANT SAGE DE | | | V.A.T 16% |
| | L.D NO LICENCE NO 2573438 | | | TOTAL |
| | 0727762156 | | | VALUE |

L.P.O. No

H.O. Ref. No.

Re

Collected / Delivered

Receiver's signature 

