

**BUGINYANYA ZARDI – IKULWE
STATION
QUARTER -1 (JULY-SEPTEMBER)
2009
WORKPLAN**

**PROJECT: *IMPROVING THE PRODUCTIVITY
OF KEY CROPS IN THE LOW ALTITUDE
AREAS OF BUSOGA SUB- ZONE***

- **EXPERIMENT 7.1: ADAPTATION AND PRODUCTIVITY OF
MAIZE, CASSAVA, BEANS, GROUNDNUTS AND UPLAND RICE
AT IKULWE**
- **EXPERIMENT 7.2: MULTI-LOCATIONAL EVALUATION AND
ADAPTATION TRIALS OF PROMISING VARIETIES OF
CASSAVA, MAIZE, GROUNDNUTS AND UPLAND RICE IN
BUSOGA SUB- ZONE**
- **EXPERIMENT 7.3: VALIDATION OF THE PLANTING
MATERIAL MULTIPLICATION AND DELIVERY SYSTEM IN THE
BUSOGA SUB-ZONE**
- **EXPERIMENT 7.4: PERFORMANCE OF MAIZE BASED
INTERCROPPING SYSTEMS WITH LEGUMES AT DIFFERENT
FERTILISER LEVELS**

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EXPERIIMENT 7.1 : ADAPTATION AND PRODUCTIVITY OF MAIZE, CASSAVA, BEANS, GROUNDNUTS AND UPLAND RICE AT IKULWE

RESEARCH ACTIVITY	RESPONSIBLE PERSON	PLAN / OBJECTIVE	BUDGET (UShs)	
1.Acquiring planting materials , seed, fertilizers, pesticides , tools and equipment	Ikulwe scientists	Acquire materials for 6 experiments planned to be established on station	Seed (maize, upland rice, beans ,G/nuts)	70,000
			Herbicides	60,000
			Pesticides	80,000
			Fertilizers (50 kg Urea & 50 kg DAP)	240,000
			Tape measures	25,000
			Hand hoes (20 x 6,000/=)	120,000
			Pangas (5 x 8,000/=)	40,000
			Wheel barrows (2 x 60,000/=)	120,000
			Slashers (10x 6,000/=)	60,000
			Crop tags and tagging	30,000
Sub-total				845,000
2. Land preparation and laying out of experiments	Ikulwe scientists	Establish the experiments on 3 acres of land	Bush clearing (2 acres x 40,000/=)	80,000
			Ploughing 2 x 2 acres x 70,000/=	280,000
			Disc harrowing (2 acres x 50,000/=)	100,000
			Marking the field 2 season x 25,000/=	50,000
			Planting (2 acres x 50,000/=)	100,000
Sub-total				610,000
3.Weeding of experiments	Ikulwe scientists	Ensure proper weed management as per treatments	3 weeding x 2 acres x 50,000	300,000
Sub -total				300,000
4. Bird scaring in rice	Ikulwe scientist	No observed bird damage to the crops	30 man days x 2000/=	60,000
Sub-total				60,000
5. .Application of fertilizers, herbicides and pesticides	Ikulwe scientists	Timely and proper application of Agrochemicals and fertilizers	2 fertiliser applications x 10,000/=	20,000
			2 herbicide applications x 10,000/=	20,000
			2 applications of pesticides x10,000	20,000
Sub-total				60,000
6. Repair of fences	Ikulwe scientists	Protection of the experiments from farm and stray animals	2 rolls of barbed wires x 120,000	240,000
			50 poles	100,000

			Assorted nails	12,000
			Labour	60,000
Sub-total				412,000
7. Procure stationery and computer utilities	Ikulwe scientists	Ensure timely data collection and reporting of experimental results	1 computer toner cartridge 2 reams of printing papers Pens and pencils 12 Counter books 2 Clip board files Photocopying	150,000 25,000 10,000 48,000 5,000 25,000
Sub-total				263,000
8..Acquiring Labels	Ikulwe scientists	Ease data collection and ensure proper data management	6 large labels (2x4ft) x 60,000	360,000
Sub-total				360,000
9.Slashing around experiments	Ikulwe scientists	Prevent damages from pests, rodents and keep experiment neat	Slashing 3 x 15,000/=	45,000
Sub-total				45,000
10. Harvesting and processing	Ikulwe scientists	Proper data collection and management of results	6 experiments x 15,000/=	90,000
Sub-total				90,000
11. .Data collection, entry analysis and reporting	Ikulwe scientists	Proper data collection , analysis and management of results	2 data collectors x 30,000/= x 4months Data analysis and reporting	240,000 400,000
Sub-total				640,000
12. .Acquiring analytical balance	Ikulwe scientists	Proper data collection, analysis and management of results	Analytical balance	400,000
Sub-total				400,000
13. Field day	Ikulwe scientists	Dissemination of results and getting feedback from farmers	Field day	3,000,000
Sub-total				2,955,000
GRAND TOTAL				7,330,000

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PROJECT: IMPROVING THE PRODUCTIVITY OF KEY CROPS IN THE LOW ALTITUDE AREAS OF BUSOGA SUB- ZONE
EXPERIMENT: 7.2: MULTI-LOCATIONAL EVALUATION AND ADAPTATION TRIALS OF PROMISING VARIETIES OF CASSAVA, MAIZE, GROUNDNUTS AND UPLAND RICE IN BUSOGA SUB- ZONE
LOCATION: MAYUGE, IGANGA, KAMULI, NAMUTUMBA, BUGIRI AND KALIRO DISTRICTS

RESEARCH ACTIVITY	RESPONSIBLE PERSON	OBJECTIVE	BUDGET (UShs)	
1.Identification of participating farmers	BugiZARDI scientists	Look for 6 farmers with capacity to manage the trials	Hire of a vehicle (3 x 100,000/=) Fuel (3 days x 60 litres x 2400/=) Allowances (2 scientists x 3 days x70,000/=)	300,000 432,000 420,000
Sub-total				1,152,000
2.Procurement of planting materials , seed, fertilizers and pesticides	BugiZARDI scientists	Acquire materials for 6 multi-locational experiments to be established	Seed (maize, upland rice, beans ,G/nuts and cassava) Herbicides (6 litres x 20,000/=) Pesticides /Antkiller (6 Litres x 20,000/=) Fertilizers (150 kg Urea & 150 kg DAP) Tape measures Crop tags and tagging Transport to procure materials Allowances (1 technician x 1 day x 55,000/=)	240,000 120,000 120,000 720,000 12,000 60,000 50,000 55,000
Sub-total				1,377,000
3. Laying out of trials	BugiZARDI scientists	Establish the trials in 6 multi-location / districts Transport the materials as go to establish trials	Marking and planting 6 trials x 80,000/= Hire of a vehicle (4 days x 100,000/=) Fuel (4 days x 60 litres x 2400/=) Allowances (2 technicians x 4 days x55,000/=)	480,000 400,000 576,000 440,000
Sub-total				1,896,000
4. Data collection and analysis	BugiZARDI scientists	Evaluate experiments	2 data collectors x 20,000/= x 4months x 6 sites Data entry and analysis	960,000 400,000
Sub-total				1,360,000
5. Management and supervision of trials	BugiZARDI scientists	Scientists to assess the progress of the trials and backstop	Hire of a vehicle (3 days x 100,000/=) Fuel (3 days x 60 litres x 2400/=) Allowances (2 Scientists x 3 days x 70,000/=)	300,000 432,000 420,000

Sub-total				1,152,000
6..Acquiring Labels	BugiZARDI scientists	Ease data collection and ensure proper data management	6 large labels (2x4ft) x 60,000 360 small labels x 1000/=	360.000 360,000
Sub-total				720,000
GRAND TOTAL				7,657,000

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PROJECT: IMPROVING THE PRODUCTIVITY OF KEY CROPS IN THE LOW ALTITUDE AREAS OF BUSOGA SUB- ZONE

EXPERIMENT: 7.3: VALIDATION OF THE PLANTING MATERIAL MULTIPLICATION AND DELIVERY SYSTEM IN THE BUSOGA SUB-ZONE

LOCATION: IGANGA. NAMUTUMBA, KAMULI, BUGIRI, JINJA AND KALIRO DISTRICTS

RESEARCH ACTIVITY	RESPONSIBLE PERSON	ACTIV ITY OBJECTIVE	BUDGET (UShs)	
1.Identification of participating farmers	BugiZARDI scientists	Look for farmers in organized groups with capacity to manage the multiplication of selected crop varieties	Hire of a vehicle (3 x 100,000/=) Fuel (3days x 60 litres x 2400/=) Allowances (2 scientists x 3days x70,000/=)	300,000 432,000 420,000
Sub-total				1,152,000
2.Procurement of cassava stems and groundnuts seeds , herbicides, fertilizers and pesticides	BugiZARDI scientists	Acquire and distribute materials for 6 multi-locational multiplication sites	Seed (Groundnuts and cassava) Glyphosate herbicide (12 Litres x 20,000/=) Pesticides /Antkiller (12 Litres x 20,000/=) Fertilizer for groundnuts (150 kg TSP x 3000/=) Hire of vehicle to distribute materials to 6 districts (2 days x 100,000/=) Fuel (2 days x 70 Litres x 2400/=) Allowances (1 technician x 2 days x 55,000/=)	2,040,000 240,000 240,000 450,000 200,000 336,000 110,000
Sub-total				3,616,000
3. Laying out of 6 multi location multiplication gardens	BugiZARDI scientists	Establish the multiplication gardens in 6 districts	Marking and planting 6 gardens x 50,000/= Hire of a vehicle (3 x 100,000/=) Fuel (3 days x 40 litres x 2400/=) Allowances (2 technicians x 3 days x55,000/=)	305,000 300,000 288,000 330,000
Sub-total				1,223,000
4. Data collection and reporting	BugiZARDI scientists		6 data collectors x 20,000/= x 4 months Reporting	480,000 120,000
Sub-total				600,000
5. Management and supervision of multiplication gardens	BugiZARDI scientists	Scientists to assess the progress of multiplication gardens and backstop	Hire of a vehicle (3 days x 100,000/=) Fuel (3 days x 40 litres x 2400/=) Allowances (2 Scientists x 3 days x 70,000/=)	300,000 288,000 420,000
Sub-total				1,008,000
6. Evaluation and	Directors of Research	Directors to give technical back	Fuel (2 vehicles x 3 days x 70 litres x 2400/=)	1,008,000

monitoring of the trials		up	Allowances (Director x 2 days x 90,000/=) Allowances (1 Driver x 2 days x 45,000/=)	180,000 90,000
Sub-total				1,278,000
7..Acquiring Labels	BugiZARDI scientists	Ease data collection and ensure proper data management	12 large labels (2x4ft) x 60,000	720.000
Sub-total				720,000
GRAND TOTAL				9,597,000

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EXPERIMENT: 7.4: PERFORMANCE OF MAIZE BASED INTERCROPPING SYSTEMS WITH LEGUMES AT DIFFERENT FERTILISER LEVELS

RESEARCH ACTIVITY	RESPONSIBLE PERSON	ACTIVITY OBJECTIVE	BUDGET (UShs)	
1.Acquiring planting materials , seed, fertilizers, pesticides and tools	IKULWE SCIENTISTS	Acquire materials for one experiment planned to be established on station	2 varieties x 5 kg of Groundnuts seed x 4,000/=	40,000
			1 variety of beans x 5 kg x 4,000/=	20,000
			Hybrid maize seed (3kg x 4000/=)	12,000
			Pesticides and ant killers (2 litres x 25,000/=)	50,000
			Fertilizers (25 kg Urea & 25 kg DAP)	125,000
			Tape measure (3m)	5,000
			Crop tags and tagging	15,000
Sub-total				267,000
2. Soil sampling and testing	IKULWE SCIENTISTS	Verification of inherent soil nutrients	Testing 6 soil samples x 3 nutrients (NPK) x 10,000/=	180,000
			Public transport to and from NARL x 2 x 30,000/=	60,000
			Allowances (2 nights x 70,000/=)	140,000
Sub-total				390,000
3. Land preparation and laying out of experiments	IKULWE SCIENTISTS	Establish the experiments on 0.5 acres of land	Bush clearing (0.5 acres x 40,000/=)	20,000
			Ploughing 2 x 0.5 acres x 70,000/=	70,000
			Disc harrowing (0.5 acres x 50,000/=)	25,000
			Marking the field	10,000
			Planting (0.5 acres) experiment	50,000
Sub-total				140,000
4. Weeding of experiments	IKULWE SCIENTISTS	Ensure proper weed management in experiment	3 weedings x 0.5 acres x 40,000	40,000
Sub –total				40,000
5. .Application of fertilizers and pesticides	IKULWE SCIENTISTS	Timely and proper application of Agrochemicals and fertilizers	3 fertiliser applications x 5,000/=	5,000
			3 applications of pesticides x 5,000	15,000
Sub-total				20,000
6. Establishment of fence	IKULWE SCIENTISTS	Protection of the experiments from farm and stray animals	2 rolls of barbed wires x 120,000	240,000
			200 poles x 2000/=	400,000

			Transport for poles Assorted nails Labour	200,000 12,000 150,000
Sub-total				1,002,000
7..Acquiring Label	IKULWE SCIENTISTS	Identification and ensure proper data management	1 large labels (2x4ft) x 60,000	60.000
Sub-total				60.000
8.Slashing around experiments	IKULWE SCIENTISTS	Prevent damages from pests, rodents and keep experiment neat	Slashing 1 x 15,000/=	15,000
Sub-total				15.000
GRAND TOTAL				1,934,000