V1: VOTE OVERVIEW

i) Vote Strategic Objectives

Increase agricultural technologies and innovations for food and nutrition security

Increase research products and services for competitive markets and industry

Enhance access and sustainable utilization of improved agricultural technologies and innovations by agricultural value chain actors.

Strengthen institutional capacity of NARO to coordinate, undertake and deliver agricultural research products and services

ii) Snapshot of Medium Term Budget Allocations

Table V1.1 Overview of Vote Medium Term Allocations (Ush Billion)

Billion Ugan	nda Shillings	FY202	22/23	FY2023/24		MTEF Budget	Projections	
		Approved Budget				2025/26	2026/27	2027/28
Recurrent	Wage	38.811	9.703	38.811	40.752	44.827	49.310	49.310
	Non Wage	29.397	6.177	26.690	27.224	32.669	44.103	44.103
Devt.	GoU	48.575	6.502	35.970	35.970	43.164	60.430	60.430
	ExtFin	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	GoU Total	116.783	22.382	101.471	103.945	120.659	153.842	153.842
Total GoU+Ext F	Fin (MTEF)	116.783	22.382	101.471	103.945	120.659	153.842	153.842
	A.I.A Total	0.000	0	0	0.000	0.000	0.000	0.000
(Grand Total	116.783	22.382	101.471	103.945	120.659	153.842	153.842

Table V1.2: Medium Term Projections by Programme and Sub-Subprogramme

Billion Uganda Shillings	FY202	22/23	2023/24	MTEF Budget Projection			
	Approved Budget	- •	1	2024/25	2025/26	2026/27	2027/28
01 AGRO-INDUSTRIALIZATION							
01 Agricultural Research	116.783	22.382	101.371	103.843	120.537	153.676	153.676

Total for the Programme	116.783	22.382	101.371	103.843	120.537	153.676	153.676	
17 REGIONAL BALANCED DEVELOPMENT								
01 Agricultural Research	0.000	0.000	0.100	0.102	0.122	0.165	0.165	
Total for the Programme	0.000	0.000	0.100	0.102	0.122	0.165	0.165	
Total for the Vote: 142	116.783	22.382	101.471	103.945	120.659	153.842	153.842	

V2: MEDIUM TERM BUDGET ALLOCATIONS BY DEPARTMENT AND PROJECT

Table V2.1: Medium Term Projections by Department and Project

Billion Uganda Shillings	FY2022	2/23	2023/24		MTEF Budg	et Projection	
	Approved Budget	Spent by End Sep	Proposed Budget	2024/25	2025/26	2026/27	2027/28
Programme: 01 AGRO-IND	USTRIALIZAT	ION					
Sub-SubProgramme: 01 Agr	ricultural Resear	rch					
Recurrent							
001 Abi Zonal Agriculture Research Institute(ZARDI)	0.117	0.029	0.100	0.100	0.100	0.500	0.500
002 Buginyaya Zonal Agriculture Research Institute(ZARDI)	0.272	0.067	0.250	0.250	0.250	0.750	0.500
003 Bulindi Zonal Agriculture Research Institute(ZARDI)	0.139	0.042	0.100	0.100	0.100	0.500	0.500
004 Kachwekano Zonal Agriculture Research Institute(ZARDI)	0.214	0.048	0.175	0.175	0.175	0.500	0.500
005 Mbarara Zonal Agriculture Research Institute(ZARDI)	0.117	0.029	0.100	0.100	0.100	0.500	0.500
006 Nabuin Zonal Agriculture Research Institute(ZARDI)	0.117	0.029	0.100	0.100	0.100	0.650	0.500
007 NARO-SECRETARIATE	64.849	15.041	60.551	61.023	69.977	74.960	81.810
008 National Agricultural Research Laboratories	0.300	0.075	0.250	0.250	0.250	0.750	1.000
009 National Coffee Research Institute	0.197	0.049	0.175	0.175	0.175	0.675	0.500

Recurrent									
010 National Crops Resources Research Institute	0.247	0.062	0.175	0.175	0.175	0.675	0.500		
011 National Fisheries Resources Research Institute	0.197	0.049	0.175	0.175	0.175	0.675	1.000		
012 National Forestry Resources Research Institute	0.125	0.031	0.100	0.100	0.100	0.500	0.500		
013 Mukono Zonal Agriculture Research Institute (ZARDI)	0.264	0.066	0.175	0.175	0.175	0.675	0.500		
014 National Livestock Resources Research Institute (NaLIRRI)	0.622	0.156	2.600	2.600	2.600	3.000	1.000		
015 National Semi Arid Resources Research Institute (NaSARRI)	0.122	0.031	0.100	0.100	0.100	2.000	0.500		
016 Ngetta ZARDI	0.117	0.029	0.100	0.100	0.100	1.000	0.500		
017 Rwebitaba ZARDI	0.192	0.047	0.175	0.175	0.175	1.000	0.500		
Development									
1560 Relocation and Operationalisation of the National Livestock Resources Research Institute(NALIRRI)	7.719	0.000	6.000	6.000	6.000	10.000	10.000		
1619 Retooling of National Agricultural Research Organization	40.856	6.502	29.970	24.000	19.000	25.000	25.000		
Total for the Sub- SubProgramme	116.783	22.382	101.371	95.873	99.827	124.310	126.310		
Total for the Programme	161.832	22.382	101.371	95.873	99.827	124.310	126.310		
Programme: 17 REGIONA	Programme: 17 REGIONAL BALANCED DEVELOPMENT								
Sub-SubProgramme: 01 Ag	ricultural Rese	arch							
Recurrent									
002 Buginyaya Zonal Agriculture Research Institute(ZARDI)	0.000	0.000	0.100	0.102	0.122	0.165	0.165		
Total for the Sub- SubProgramme	0.000	0.000	0.100	0.102	0.122	0.165	0.165		

Total for the Programme	0.000	0.000	0.100	0.102	0.122	0.165	0.165
Total for the Vote: 142	116.783	22.382	101.471	95.975	99.949	124.475	126.475

V3: VOTE MEDIUM TERM PLANS

Planned Outputs for FY2023/24 and Medium Term Plans

FY2022/23		FY2023/24	
Plan	BFP Performance	Plan	MEDIUM TERM PLANS

Programme Intervention: 010407 Strengthen agricultural research and technology development

The major intervention areas for the FY 2022,2023 are in tandem with the National Vision 2040, NDP III particularly Agro Industrialization Program, objectives 1 and 2 on increased production, productivity, and Agro processing and value addition, respectively. These are enshrined in the AGI **Program Implementation** Action Plan, NRM Manifesto 2021,2026 and NARO Strategic Plan aspirations. The investment areas are geared towards Industrialization for inclusive growth, employment and wealth Creation.

A total of 30 crop varieties were submitted to the National Variety Release Committee of MAAIF for release. These were: 3 cassavas, 3 wheat, 4 groundnuts, 4 rice, 2 potato, 3 sweet potato and 11 sorghum varieties. These varieties have superior attributes over the current existing varieties with respect to yield advantage, pest and disease resistance, and adaptation to drought-prone environment, culinary attributes and market and consumer preferences. The sorghum and cassava varieties are market. also suitable for industrial use in the manufacture of products such as beer, confectionery, starch and ethanol. Additionally, groundnuts are rich in oils that have health benefits. The potatoes have appropriate properties for yield and fast food. Similarly, the sweet potato candidates are good for fighting hidden hunger, targeting increased household food and nutrition among women and children

The on-farm multi-locational clinical trials will be conducted in five approved test sites including; Mbarara ZARDI, Isimba Prisons Farm-Masindi, Kiburara Prison Farm-Ibanda and National Livestock Resources Research Institute, Maruzi in Apac and Nabuin ZARDI in Nabulatuk district. To date, NARO has launched trials in Mbarara, Kiburara, and Isimba sites.

- 1. 16 Agricultural research products and services suited for industry and Industrial products developed. 2. 6 soil sheets update (Masindi, Arua, 2. NARO will intensify establishment of
- scale of 1: 250,000 to a scale of 1: 50.000
- 3. Water weeds on four (4) water bodies (L. Victoria, L. Kyoga, L. Albert, L. Nyaguo) managed. false codling moth, papaya mealybug and black coffee twig borer) to minimize interceptions of 4. Ugandan exports of produce on international
- 5. 136 production technologies (recommended agronomic practices and value-added products will be delivered to various uptake pathways. 6. 150 MT of early generation seed will be produced and supplied by NARO seed companies and other seed Agricultural research.
- 7. 16 new strategic partnerships for research and commercialization will betechnologies. established.

producers.

- 8. Four research sites will be titled including Bugusege, Kibimbiri, Aduk and Ivakula; six sites fanced Kihihi, Kigumba, Nyabishegwa, Kibale, Katakwi and Kumi and boundary opening for Kiige and Bukedea the effort will contribute towards stabilizing Agricultural research. 9. Two (2) research laboratories for fish diagnostics at Aquaculture Research Development Centre (ARDC) Kajansi and Coffee/Cocoa research at NACORI, Kituza will be equipped and one the fish feed production facility at ARDC Kajansi will be equipped to support aquaculture for increased production and productivity.
- 10. Two agri-engineering technologies including; wet coffee processing technologies and implements for reduced drudgery will be developed, and commercialization of the fish smoking klin will be scaled. 11. 20 continuing Staff trained at PhD

- 1. NARO will establish a think tank under the grants office to generate ideas that reflect including vaccines, varieties, protocols global trends and opportunities; and constitute them into negotiable proposals
- Gulu, Aloi, Moroto, and Mbale) from acenters of excellence (African Union of Excellence in for Research in Aquaculture {CoERA}, East African Innovation Center for Millet and Sorghum {ICFMS}, Cassava Regional Center of Excellence {CRCoE}, groundnuts and hubs for Excellence in Breeding {EiB}) to emerge as a research leader at regional and global level, 3. NARO will position herself to build networks and capacity for resource mobilization and management for the greater region. 4. NARO will develop a roadmap to become
 - self-reliant to create stability in agricultural research. The road map will layout an action towards investment in development of flagship products and services for the industry and market to generate revenue to support
 - 5. NARO will invest to improve infrastructure for training farmers for improved uptake of

VOTE: 142

National Agricultural Research Organization (NARO)

11.	20 continuing Staff trains	ed
and	masters and retooled on	ne
met	hods and innovations	

1 rogi amme intervention. 01	1 rogramme intervention. 010411 Strengthen the agricultural extension system					
		NARO intends to deliver 68 research	Build resilient systems to support extension			
		products for food Nutrition, market	and service delivery through delivery of			
		and industry to uptake pathways for	requisite products toward climate variability			
		increased total factor productivity				

V4: Highlights of Vote Projected Performance

Table V4.1: Budget Outputs and Indicators

Number of research products and services

Programme:	01 AGRO-INI	1 AGRO-INDUSTRIALIZATION					
Sub SubProgramme:	01 Agricultura	l Research					
Department:	001 Abi Zonal	Agriculture Res	earch Institute(ZA	RDI)			
Budget Output:	010010 Techn	ology Generation	1				
PIAP Output:	Demand drive	n agriculture tecl	nnologies develop	ed			
Programme Intervention:	010407 Streng	010407 Strengthen agricultural research and technology development					
Indicator Name	Indicator Measure	Base Year	Base Level	FY20	22/23	FY2023/24	
				Tamant	01	D J	
				Target	Q1 Performance	Proposed	

suitable for industry developed					
Budget Output:	010011 Technology Promotion				
PIAP Output:	Demand driven agriculture technologies developed				
Programme Intervention:	010407 Strengthen agricultural research and technology development				

2021-2022

Number

Sub SubProgramme:	01 Agricultu	01 Agricultural Research								
PIAP Output:	Demand driv	Demand driven agriculture technologies developed								
Indicator Name	Indicator Measure	Base Year	Base Level	I	FY2023/24					
				Target	Q1 Performance	Proposed				
Number of improved technologies and innovations adopted	Number	2021-2022	3	3	0	3				
PIAP Output:	Research-ext	tension farmer li	nkages developed	d and strengthen	ed					
Programme Intervention:	010407 Strei	ngthen agricultur	ral research and to	echnology devel	opment					
Indicator Name	Indicator Measure	Base Year	Base Level	I	FY2023/24					
				Target	Q1 Performance	Proposed				
Number of technologies adopted	Number	2021-2022	8	8	0	8				
Department:	002 Buginya	ya Zonal Agricu	lture Research In	stitute(ZARDI)						
Budget Output:	010010 Technology Generation									
PIAP Output:	Demand driv	en agriculture to	echnologies devel	oped						
Programme Intervention:	010407 Strei	ngthen agricultur	ral research and to	echnology devel	opment					
Indicator Name	Indicator Measure	Base Year	Base Level	I	FY2022/23	FY2023/24				
				Target	Q1 Performance	Proposed				
Number of improved technologies and innovations adopted	Number	202-2022	2	4	0	4				
Number of markets created along product lines	Number	2021-2022	2			4				
Number of research products and services for food and nutrition security generated	Number	2021-2022	16	2	1	16				
Budget Output:	010011 Tech	nology Promotic	on	l	1					
PIAP Output:	Agricultural	Research platfor	rms established							
Programme Intervention:	010407 Stren	ngthen agricultur	ral research and to	echnology devel	opment					

Sub SubProgramme:	01 Agricultural Research								
PIAP Output:	Agricultural	Agricultural Research platforms established							
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23		FY2023/24			
				Target	Q1 Performance	Proposed			
Number of Agricultural research platforms established	Number	2021-2022	2			4			
PIAP Output:	Research-ext	ension farmer li	nkages developed	and strengthene	d				
Programme Intervention:	010407 Stren	gthen agricultur	al research and te	chnology develo	pment				
Indicator Name	Indicator Measure	Base Year	Base Level	F	Y2022/23	FY2023/24			
				Target	Q1 Performance	Proposed			
Number of technologies adopted	Number	2021-2022	3	4	0	3			
Department:	003 Bulindi Zonal Agriculture Research Institute(ZARDI)								
Budget Output:	010010 Technology Generation								
PIAP Output:	Demand driven agriculture technologies developed								
Programme Intervention:	010407 Strengthen agricultural research and technology development								
Indicator Name	Indicator Measure	Base Year	Base Level	F	Y2022/23	FY2023/24			
				Target	Q1 Performance	Proposed			
Number of research products and services for food and nutrition security generated	Number	2021-2022	11	5	0	11			
PIAP Output:	Research-ext	ension farmer li	nkages developed	and strengthene	d				
Programme Intervention:	010407 Stren	gthen agricultur	al research and te	chnology develo	pment				
Indicator Name	Indicator Measure	Base Year	Base Level	F	Y2022/23	FY2023/24			
				Target	Q1 Performance	Proposed			
Number of District Adaptive Research Support Teams (DARSTs) developed	Number	2021-2022	7	2	0	7			
Number of technologies adopted	Number	2021-2022		9	1				
Department:	004 Kachwel	kano Zonal Agri	culture Research	Institute(ZARDI)				

Sub SubProgramme:	01 Agricultu	01 Agricultural Research								
Budget Output:	010008 Cap	010008 Capacity Strengthening								
PIAP Output:	Agricultural Researchers profiled and registered									
Programme Intervention:	010407 Stre	010407 Strengthen agricultural research and technology development								
Indicator Name	Indicator Measure	Base Year	Base Level	I	FY2022/23					
				Target	Q1 Performance	Proposed				
Number of researchers profiled and registered	Number	2021-22	8							
PIAP Output:	Demand driv	Demand driven agriculture technologies developed								
Programme Intervention:	010407 Stre	010407 Strengthen agricultural research and technology development								
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY20		FY2023/24				
				Target	Q1 Performance	Proposed				
Number of research products and services suitable for industry developed	Number	2021-2022	2			4				
Budget Output:	010010 Tech	nnology Generati	ion	.	1					
PIAP Output:	Demand driv	ven agriculture to	echnologies devel	oped						
Programme Intervention:	010407 Stre	ngthen agricultu	ral research and te	echnology devel	opment					
Indicator Name	Indicator Measure	Base Year	Base Level	I	FY2022/23	FY2023/24				
				Target	Q1 Performance	Proposed				
Number of improved technologies and innovations adopted	Number	2021-2022	2	7	0	4				
Number of research products and services suitable for industry developed	Number	2021-2022	8	1	0	8				
Budget Output:	010011 Tech	nology Promotic	on							
PIAP Output:	Research-ex	tension farmer li	nkages developed	l and strengthen	ed					
Programme Intervention:	010407 Stre	ngthen agricultu	ral research and te	echnology devel	opment					

Sub SubProgramme:	01 Agricultural Research												
PIAP Output:	Research-exte	Research-extension farmer linkages developed and strengthened											
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23		FY2023/24							
				Target	Q1 Performance	Proposed							
Number of technologies adopted	Number	2020-2021	4			4							
Department:	005 Mbarara 2	Zonal Agricultur	e Research Institu	ute(ZARDI)		•							
Budget Output:	010008 Capac	city Strengthenin	ng										
PIAP Output:	Demand drive	en agriculture tec	chnologies develo	ped									
Programme Intervention:	010407 Streng	gthen agricultura	l research and tec	chnology develops	nent								
Indicator Name	Indicator Measure	Base Year	Base Level	FY2	FY2023/24								
				Target	Q1 Performance	Proposed							
Number of market-oriented products generated	Number	2021-2022	2	5	1	4							
Number of improved technologies and innovations adopted	Number	2021-2022	1	7	0	4							
Budget Output:	010010 Techn	ology Generation	n		_ I								
PIAP Output:	Demand drive	en agriculture tec	chnologies develo	ped									
Programme Intervention:	010407 Streng	gthen agricultura	l research and tec	chnology develops	nent								
Indicator Name	Indicator Measure	Base Year	Base Level	FY2	2022/23	FY2023/24							
				Target	Q1 Performance	Proposed							
Number of markets created along product lines	Number	2021-2022	2			4							
Number of research products and services for food and nutrition security generated	Number	2021-2022	13			13							
Budget Output:	010011 Techn	ology Promotion	n		<u> </u>								
PIAP Output:	Research-exte	ension farmer lin	kages developed	and strengthened									
Programme Intervention:	010407 Streng	gthen agricultura	al research and tec	chnology develops	nent								
	•												

Sub SubProgramme:	01 Agricultu	01 Agricultural Research								
PIAP Output:	Research-ext	Research-extension farmer linkages developed and strengthened								
Indicator Name	Indicator Measure	Base Year	Base Level	F	FY2023/24					
				Target	Q1 Performance	Proposed				
Number of technologies adopted	Number	2021-2022	13			13				
Department:	006 Nabuin 2	Zonal Agricultur	e Research Institu	ite(ZARDI)	1					
Budget Output:	010011 Tech	nology Promotic	on							
PIAP Output:	Demand driv	Demand driven agriculture technologies developed								
Programme Intervention:	010407 Stren	010407 Strengthen agricultural research and technology development								
Indicator Name	Indicator Measure	Base Year	Base Level	F	FY2023/24					
				Target	Q1 Performance	Proposed				
Number of improved technologies and innovations adopted	Number	2021-2022	4	14	0	4				
Number of research products and services suitable for industry developed	Number	2021-2022	9			9				
Department:	007 NARO-	SECRETARIAT	E							
Budget Output:	000001 Audi	t and Risk Mana	agement							
PIAP Output:	Demand driv	en agriculture te	echnologies devel	oped						
Programme Intervention:	010407 Strei	ngthen agricultur	ral research and te	chnology develo	ppment					
Indicator Name	Indicator Measure	Base Year	Base Level	F	Y2022/23	FY2023/24				
				Target	Q1 Performance	Proposed				
Number of markets created along product lines	Number	2021-2022	2			4				
Budget Output:	000014 Adm	inistrative and S	Support Services	•	1					
PIAP Output:	Demand driv	en agriculture te	echnologies devel	oped						
Programme Intervention:	010407 Strei	ngthen agricultur	ral research and te	chnology develo	ppment					

Sub SubProgramme:	01 Agricultural Research									
PIAP Output:	Demand driven agriculture technologies developed									
Indicator Name	Indicator Measure	Base Year	Base Level]	FY2022/23	FY2023/24				
				Target	Q1 Performance	Proposed				
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	8	14	5	4				
Department:	008 National	Agricultural Re	esearch Laborator	ies	1					
Budget Output:	010010 Tech	nology Generati	ion							
PIAP Output:	Demand driv	Demand driven agriculture technologies developed								
Programme Intervention:	010407 Stren	010407 Strengthen agricultural research and technology development								
Indicator Name	Indicator Measure	Base Year	Base Level]	FY2023/24					
				Target	Q1 Performance	Proposed				
Number of research products and services suitable for industry developed	Number	2021-2022	10			10				
Budget Output:	010011 Techi	nology promotic	on		l					
PIAP Output:	Demand driv	en agriculture to	echnologies devel	oped						
Programme Intervention:	010407 Stren	gthen agricultu	ral research and to	echnology devel	opment					
Indicator Name	Indicator Measure	Base Year	Base Level]	FY2022/23	FY2023/24				
				Target	Q1 Performance	Proposed				
Number of market-oriented products generated	Number	2021-2022	2			4				
Department:	009 National	Coffee Researc	h Institute		1					
Budget Output:	010010 Tech	nology Generati	ion							
PIAP Output:	Demand driv	en agriculture to	echnologies devel	oped						
Programme Intervention:	010407 Stren	gthen agricultu	ral research and te	echnology devel	opment					

Sub SubProgramme:	01 Agricultural Research								
PIAP Output:	Demand drive	n agriculture te	chnologies devel	oped					
Indicator Name	Indicator Measure	Base Year	Base Level	FY	72022/23	FY2023/24			
				Target	Q1 Performance	Proposed			
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	2			2			
Number of improved technologies and innovations adopted	Number	2021-2022	2			2			
Number of research products and services for food and nutrition security generated	Number	2021-2022	5			5			
Budget Output:	010011 Techn	010011 Technology Promotion							
PIAP Output:	Research-exte	Research-extension farmer linkages developed and strengthened							
Programme Intervention:	010407 Strengthen agricultural research and technology development								
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24					
				Target	Q1 Performance	Proposed			
Number of District Adaptive Research Support Teams (DARSTs) developed	Number	2021-2022	2			2			
Department:	010 National	Crops Resource	s Research Institu	ıte					
Budget Output:	010010 Techn	ology Generation	on						
PIAP Output:	Demand drive	n agriculture te	chnologies devel	oped					
Programme Intervention:	010407 Streng	gthen agricultur	al research and te	chnology develop	oment				
Indicator Name	Indicator Measure	Base Year	Base Level	FY	/2022/23	FY2023/24			
				Target	Q1 Performance	Proposed			
Number of research products and services for food and nutrition security generated	Number	2021-2022	4			4			
Budget Output:	010011 Techn	ology Promotic	on	l					
PIAP Output:	Demand drive	en agriculture te	chnologies devel	oped					
Programme Intervention:	010407 Streng	gthen agricultur	al research and te	chnology develop	oment				

Sub SubProgramme:	01 Agricultura	01 Agricultural Research								
PIAP Output:	Demand drive	n agriculture tec	hnologies develo	ped						
Indicator Name	Indicator Measure	Base Year	Base Level	FY2	FY2022/23 FY202					
				Target	Q1 Performance	Proposed				
Number of research products and services for food and nutrition security generated	Number	2021-2022	8			8				
Department:	011 National l	Fisheries Resour	ces Research Inst	itute	<u>'</u>					
Budget Output:	010010 Techn	ology Generatio	n							
PIAP Output:	Demand drive	Demand driven agriculture technologies developed								
Programme Intervention:	010407 Streng	10407 Strengthen agricultural research and technology development								
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24						
				Target	Q1 Performance	Proposed				
Number of market-oriented products generated	Number	2021-2022	4	5	0	4				
Number of research products and services suitable for industry developed	Number	2021-2022	2	3	1	2				
Budget Output:	010011 Techn	ology Promotion	1							
PIAP Output:	Demand drive	n agriculture tec	chnologies develo	ped						
Programme Intervention:	010407 Streng	gthen agricultura	l research and tec	hnology developn	nent					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2	022/23	FY2023/24				
				Target	Q1 Performance	Proposed				
Number of market-oriented products generated	Number	2021-2022	2			4				
Department:	012 National	Forestry Resource	ces Research Insti	tute	l					
Budget Output:	010010 Techn	ology Generatio	n							
PIAP Output:	Demand drive	n agriculture tec	chnologies develo	ped						
Programme Intervention:	010407 Streng	gthen agricultura	l research and tec	hnology developn	nent					

Sub SubProgramme:	01 Agricultura	01 Agricultural Research							
PIAP Output:	Demand drive	n agriculture tec	hnologies develop	oed					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24					
				Target	Q1 Performance	Proposed			
Number of research products and services for food and nutrition security generated	Number	2021-2022	1	2	0	1			
Number of research products and services suitable for industry developed	Number	2021-2022	3	2	0	3			
Budget Output:	010011 Technology Promotion								
PIAP Output:	Demand drive	Demand driven agriculture technologies developed							
Programme Intervention:	010407 Strengthen agricultural research and technology development								
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24					
				Target	Q1 Performance	Proposed			
Number of research products and services suitable for industry developed	Number	2021-2022	2			2			
PIAP Output:	Research-exte	nsion farmer linl	kages developed a	nd strengthened	l				
Programme Intervention:	010407 Streng	gthen agricultura	I research and tech	nnology developm	ent				
Indicator Name	Indicator Measure	Base Year	Base Level	FY20)22/23	FY2023/24			
				Target	Q1 Performance	Proposed			
Number of technologies adopted	Number	2021-2022	2			4			
Department:	013 Mukono Z	Zonal Agriculture	Research Institut	te (ZARDI)	<u>'</u>				
Budget Output:	010010 Techn	ology Generation	n						
PIAP Output:	Demand drive	n agriculture tec	hnologies develop	oed					
Programme Intervention:	010407 Streng	gthen agricultura	I research and tech	nnology developm	ent				

Sub SubProgramme:	01 Agricultura	01 Agricultural Research							
PIAP Output:	Demand drive	iven agriculture technologies developed							
Indicator Name	Indicator Measure	Base Year	Base Level	FY2	022/23	FY2023/24			
				Target	Q1 Performance	Proposed			
Number of improved technologies and innovations adopted	Number	2021-2022	8	2	2	8			
Budget Output:	010011 Techn	ology Promotion	n		•				
PIAP Output:	Demand drive	en agriculture tec	chnologies develo	ped					
Programme Intervention:	010407 Streng	gthen agricultura	l research and tec	chnology developn	nent				
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23		FY2023/24			
				Target	Q1 Performance	Proposed			
Number of market-oriented products generated	Number	2021-2022	2			4			
Department:	014 National Livestock Resources Research Institute (NaLIRRI)								
Budget Output:	010010 Technology Generation								
PIAP Output:	Demand drive	en agriculture tec	chnologies develo	ped					
Programme Intervention:	010407 Streng	gthen agricultura	l research and tec	chnology developn	nent				
Indicator Name	Indicator Measure	Base Year	Base Level	FY2	022/23	FY2023/24			
				Target	Q1 Performance	Proposed			
Number of research products and services for food and nutrition security generated	Number	2021-2022	8	1	1	8			
Budget Output:	010011 Techn	ology Promotion	n	1					
PIAP Output:	Research-exte	nsion farmer lin	kages developed	and strengthened					
Programme Intervention:	010407 Streng	gthen agricultura	l research and tec	chnology developn	nent				
Indicator Name	Indicator Measure	Base Year	Base Level	FY2	022/23	FY2023/24			
				Target	Q1 Performance	Proposed			
Number of technologies adopted	Number	2021-2022	6			6			

Sub SubProgramme:	01 Agricultura	01 Agricultural Research								
Department:	015 National	Semi Arid Reso	urces Research Ir	nstitute (NaSAR	RI)					
Budget Output:	010010 Techn	010010 Technology Generation								
PIAP Output:	Demand drive	en agriculture te	chnologies devel	oped						
Programme Intervention:	010407 Streng	010407 Strengthen agricultural research and technology development								
Indicator Name	Indicator Measure	Base Year	Base Level	F	FY2022/23 FY2023/24					
				Target	Q1 Performance	Proposed				
Number of research products and services for food and nutrition security generated	Number	2021-2022	4	8	2	4				
Number of research products and services suitable for industry developed	Number	2021-2022	2	6	1	2				
Budget Output:	010011 Techn	010011 Technology Promotion								
PIAP Output:	Demand driven agriculture technologies developed									
Programme Intervention:	010407 Strengthen agricultural research and technology development									
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24						
				Target	Q1 Performance	Proposed				
Number of improved cotton varieties developed	Number	2021-2022	2			4				
Department:	016 Ngetta ZA	ARDI								
Budget Output:	010010 Techn	ology Generation	on							
PIAP Output:	Demand drive	en agriculture te	chnologies devel	oped						
Programme Intervention:	010407 Streng	gthen agricultur	al research and te	chnology develo	opment					
Indicator Name	Indicator Measure	Base Year	Base Level	F	Y2022/23	FY2023/24				
				Target	Q1 Performance	Proposed				
Number of research products and services suitable for industry developed	Number	2021-2022	1			1				
Budget Output:	010011 Techn	ology Promotic	on							
PIAP Output:	Demand drive	en agriculture te	chnologies devel	oped						
Programme Intervention:	010407 Streng	gthen agricultur	al research and te	chnology develo	opment					

Sub SubProgramme:	01 Agricultura	01 Agricultural Research								
PIAP Output:	Demand drive	n agriculture tec	hnologies develop	oed						
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24						
				Target	Q1 Performance	Proposed				
Number of market-oriented products generated	Number	2021-22	2			4				
PIAP Output:	Research-exte	nsion farmer lin	kages developed a	nd strengthened						
Programme Intervention:	010407 Streng	then agricultura	l research and tech	nnology developm	ent					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24						
				Target	Q1 Performance	Proposed				
Number of technologies adopted	Number	2021-2022	6			6				
Department:	017 Rwebitab	a ZARDI								
Budget Output:	010010 Techn	ology Generatio	n							
PIAP Output:	Demand drive	n agriculture tec	hnologies develop	oed						
Programme Intervention:	010407 Streng	then agricultura	l research and tech	nnology developm	ent					
Indicator Name	Indicator Measure	Base Year	Base Level	FY20)22/23	FY2023/24				
				Target	Q1 Performance	Proposed				
Number of research products and services for food and nutrition security generated	Number	2021-2022	15	4	0	15				
Number of research products and services suitable for industry developed	Number	2021-2022	1	4	1	1				
Budget Output:	010011 Techn	ology Promotior	1	•						
PIAP Output:	Demand drive	n agriculture tec	hnologies develop	oed						
Programme Intervention:	010407 Streng	then agricultura	l research and tech	nnology developm	ent					

Sub SubProgramme:	01 Agricultural Research					
PIAP Output:	Demand driven agriculture technologies developed					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24		FY2023/24
				Target	Q1 Performance	Proposed
Number of improved technologies and innovations adopted	Number	2021-2022	4			
PIAP Output:	Research-exte	nsion-farmer li	nkages developed	and strengthene	ed	
Programme Intervention:	010411 Streng	gthen the agricu	ltural extension s	ystem		
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24		FY2023/24
				Target	Q1 Performance	Proposed
9 Zonal agricultural extension coordinators recruited	Number	2021-2022	2			2
Project:	1560 Relocation and Operationalisation of the National Livestock Resources Research					
Budget Output:	000017 Infrastructure Development and Management					
PIAP Output:	Demand driven agriculture technologies developed					
Programme Intervention:	010407 Streng	gthen agricultur	al research and te	chnology develo	ppment	
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24		
				Target	Q1 Performance	Proposed
Number of research products and services for food and nutrition security generated	Number	2021-22	15			15
Number of research products and services suitable for industry developed	Number	2021-2022	3	13	0	3
Budget Output:	010010 Technology Generation					
PIAP Output:	Demand driven agriculture technologies developed					
Programme Intervention:	010407 Strengthen agricultural research and technology development					

Sub SubProgramme:	01 Agricultural Research						
PIAP Output:	Demand driven agriculture technologies developed						
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24			
				Target	Q1 Performance	Proposed	
Number of research products and services suitable for industry developed	Number	2021-2022	8	13	1	5	
Project:	1619 Retooli	ng of National A	Agricultural Resea	arch Organization	n		
Budget Output:	000003 Facil	lities and Equip	nent Management	t			
PIAP Output:	Demand driv	en agriculture to	echnologies devel	oped			
Programme Intervention:	010407 Strengthen agricultural research and technology development						
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24		FY2023/24	
				Target	Q1 Performance	Proposed	
Number of research products and services suitable for industry developed	Number	2021-2022	8			8	
Budget Output:	000017 Infra	structure Devel	opment and Mana	ent and Management			
PIAP Output:	Demand driven agriculture technologies developed						
Programme Intervention:	010407 Strengthen agricultural research and technology development						
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24			
				Target	Q1 Performance	Proposed	
Number of research products and services suitable for industry developed	Number	2021-2022	8			8	
Budget Output:	010008 Capacity Strengthening						
PIAP Output:	Demand driven agriculture technologies developed						
Programme Intervention:	010407 Strengthen agricultural research and technology development						

Sub SubProgramme:	01 Agricultural Research					
PIAP Output:	Demand driven agriculture technologies developed					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24		
				Target	Q1 Performance	Proposed
Number of research products and services for food and nutrition security generated	Number	2021-2022	4			4
Budget Output:	010009 Rese	earch Partnership	os	l	1	
PIAP Output:	Demand driv	en agriculture to	echnologies devel	oped		
Programme Intervention:	010407 Strei	ngthen agricultu	ral research and to	echnology devel	opment	
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24		FY2023/24
				Target	Q1 Performance	Proposed
Number of functional public-private partnerships established for technology development and promotion	Number	2021-2022	6	12	0	5
Budget Output:	010010 Tech	010010 Technology Generation				
PIAP Output:	Demand driven agriculture technologies developed					
Programme Intervention:	010407 Strei	ngthen agricultu	ral research and te	echnology devel	opment	
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24		
				Target	Q1 Performance	Proposed
Number of research products and services for food and nutrition security generated	Number	2021-2022	15			15
Budget Output:	010011 Technology Promotion					
PIAP Output:	Demand driven agriculture technologies developed					
Programme Intervention:	010407 Strengthen agricultural research and technology development					

Sub SubProgramme:	01 Agricultural Research					
PIAP Output:	Demand driven agriculture technologies developed					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24		
				Target	Q1 Performance	Proposed
Number of improved technologies and innovations adopted	Number	2021-2022	68	36	0	68
Number of research products and services for food and nutrition security generated	Number	2021-2022	8			8
Programme:	17 REGIONAL BALANCED DEVELOPMENT					
Sub SubProgramme:	01 Agricultural Research					
Department:	002 Buginyaya Zonal Agriculture Research Institute(ZARDI)					
Budget Output:	010011 Technology Promotion					
PIAP Output:	Youth and Women cooperatives supported					
Programme Intervention:	170209 Organize farmers into cooperatives at district level					
Indicator Name	Indicator Measure	Base Year	Base Level	FY2022/23 FY2023/24		
				Target	Q1 Performance	Proposed
No. of Youth and Women cooperatives supported	Number	2021-2022	0			20

V5: VOTE CROSS CUTTING ISSUES

i) Gender and Equity

OBJECTIVE	To develop and disseminate technologies which promote equity among Ugandans across all regions.
Issue of Concern	Low levels of adoption for improved technologies among the regions for food, nutrition security, and industry
Planned Interventions	Establish demonstrations for various technologies in different Agro ecological zones to increase adoption levels for impact
Budget Allocation (Billion)	3.1
Performance Indicators	Number of technologies to support regional development developed and disseminated

ii) HIV/AIDS

OBJECTIVE	To minimize levels of new infections among the youth and the married
Issue of Concern	Increasing number of new HI/AIDs infections among the youth

Performance Indicators

Planned Interventions	Develop market led technologies to create business enterprises for the youth through incubation.
Budget Allocation (Billion)	0.1
Performance Indicators	Number of Market led technologies adopted among the youth
iii) Environment	
OBJECTIVE	Develop technological solutions for emerging environmental concerns
Issue of Concern	High level of hidden hunger among the children, elderly and expecting mothers.
Planned Interventions	Develop technologies for management of deficiencies in trace mineral elements such as zinc, iron, vitamin A and Proteins
Budget Allocation (Billion)	0.1
Performance Indicators	Number of biofortified products developed and delivered to uptake pathways
iv) Covid	
OBJECTIVE	Develop Sustainable solutions that respond to emerging and re-emerging pandemics in Uganda.
Issue of Concern	High level of emerging and reemerging pests and diseases which has resulted into interceptions of Ugandan products from local, regional, and i9nternational markets
Planned Interventions	Develop Bio-control solutions for management of pests and diseases; and engineering solutions for post harvest handling for food and feed safety to minimizes the levels of dangerous chemical residues in Agricultural products.
Budget Allocation (Billion)	1

Number of Bio-control and engineering products developed for food and feed safety.