Vote: 142 National Agricultural Research Organisation

QUARTER 3: Highlights of Vote Performance

V1: Summary of Issues in Budget Execution

Table V1.1: Overview of Vote Expenditures (UShs Billion)

	Budget	Released by End Q 3	Spent by End Q3	% Budget Released	% Budget Spent	% Releases Spent
Wage	34.233	25.675	25.675	75.0%	75.0%	100.0%
Non Wage	24.604	18.154	16.854	73.8%	68.5%	92.8%
GoU	51.473	33.833	29.539	65.7%	57.4%	87.3%
Ext. Fin.	0.000	0.000	0.000	0.0%	0.0%	0.0%
oU Total	110.310	77.662	72.068	70.4%	65.3%	92.8%
(MTEF)	110.310	77.662	72.068	70.4%	65.3%	92.8%
Arrears	0.298	0.298	0.298	100.0%	100.0%	100.0%
al Budget	110.608	77.959	72.366	70.5%	65.4%	92.8%
.I.A Total	0.000	0.000	0.000	0.0%	0.0%	0.0%
and Total	110.608	77.959	72.366	70.5%	65.4%	92.8%
xcluding Arrears	110.310	77.662	72.068	70.4%	65.3%	92.8%
	Non Wage GoU Ext. Fin. GoU Total (MTEF) Arrears al Budget A.I.A Total and Total excluding	Non Wage 24.604 GoU 51.473 Ext. Fin. 0.000 GoU Total 110.310 In (MTEF) 110.310 Arrears 0.298 al Budget 110.608 A.I.A Total 0.000 and Total 110.608 Excluding 110.310	Non Wage 24.604 18.154 GoU 51.473 33.833 Ext. Fin. 0.000 0.000 GoU Total 110.310 77.662 a (MTEF) 110.310 77.662 Arrears 0.298 0.298 al Budget 110.608 77.959 A.I.A Total 0.000 0.000 and Total 110.608 77.959 excluding 110.310 77.662	Non Wage 24.604 18.154 16.854 GoU 51.473 33.833 29.539 Ext. Fin. 0.000 0.000 0.000 GoU Total 110.310 77.662 72.068 A (MTEF) 110.310 77.662 72.068 Arrears 0.298 0.298 0.298 al Budget 110.608 77.959 72.366 A.I.A Total 0.000 0.000 0.000 and Total 110.608 77.959 72.366 excluding 110.310 77.662 72.068	Non Wage 24.604 18.154 16.854 73.8% GoU 51.473 33.833 29.539 65.7% Ext. Fin. 0.000 0.000 0.000 0.0% GoU Total 110.310 77.662 72.068 70.4% A (MTEF) 110.310 77.662 72.068 70.4% Arrears 0.298 0.298 0.298 100.0% al Budget 110.608 77.959 72.366 70.5% A.I.A Total 0.000 0.000 0.000 0.0% and Total 110.608 77.959 72.366 70.5% excluding 110.310 77.662 72.068 70.4%	Non Wage 24.604 18.154 16.854 73.8% 68.5% GoU 51.473 33.833 29.539 65.7% 57.4% Ext. Fin. 0.000 0.000 0.000 0.0% 0.0% GoU Total 110.310 77.662 72.068 70.4% 65.3% A (MTEF) 110.310 77.662 72.068 70.4% 65.3% Arrears 0.298 0.298 0.298 100.0% 100.0% al Budget 110.608 77.959 72.366 70.5% 65.4% A.I.A Total 0.000 0.000 0.000 0.0% 0.0% and Total 110.608 77.959 72.366 70.5% 65.4% excluding 110.310 77.662 72.068 70.4% 65.3%

Table V1.2: Releases and Expenditure by Programme and Sub-SubProgramme*

Billion Uganda Shillings	Approved Budget	Released	Spent	% Budget Released	% Budget Spent	%Releases Spent
Programme: Agro-Industrialisation	110.31	77.66	72.07	70.4%	65.3%	92.8%
Sub-SubProgramme: 51 Agricultural Research	110.31	77.66	72.07	70.4%	65.3%	92.8%
Total for Vote	110.31	77.66	72.07	70.4%	65.3%	92.8%

Matters to note in budget execution

Budget execution during the reporting period was affected by inadequate and inefficient transport equipment which is above the recommended mileage of 250,000 kilometers or five years. NARO has consistently suffered the prohibition on purchase of vehicles for the last six years which has affected the mobility of scientists to conduct research, hence reducing performance. A special government intervention is required for improved performance.

Table V1.3: High Unspent Balances and Over-Expenditure in the Domestic Budget (Ushs Bn)

(i) Major unpsent balances							
Departments, Projects	Departments , Projects						
Sub-SubProgramme 51 Agricult	ural Research						
1.210 Bn Shs	Department/Project :01 Headquarters						

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Reason: One new agricultural laboratories electricity metre had not been installed by the end of the quarter.

The Council meeting was rescheduled to 1st week of April.

The supervisory field Travels were halted due to hiking fuel prices.

The supervisory field Travels were halted due to hiking fuel prices.

Covid awareness campaigns contributed to less deaths cases.

Improved IT infrastructure reduced costs of communication.

Items

762,735,709.000 UShs 212101 Social Security Contributions

Reason: The configuration IFMS system between NARO and NSSF development a problem which was

rectified 1st week of April 2022

132,660,517.000 UShs 224006 Agricultural Supplies

Reason: An invoice for one batch of agricultural Chemicals supplied to NARO, was not received by end of

the quarter

89,742,283.000 UShs 227001 Travel inland

Reason: The supervisory field Travels were halted due to hiking fuel prices.

55,000,000.000 UShs 226001 Insurances

Reason: The insurance demand note from our insurers for March 2022 needed to be reconciled with NARO's insurance payable statement thus a need for reconciliation statement before payment. This was settled 1st

week of April 2022.

46,340,000.000 UShs 221016 IFMS Recurrent costs

Reason: The planned IFMS accessories and training of staff were postponed to the following quarter due to emergent activities brought on board.

0.018 Bn Shs Department/Project :26 NARO Internal Audit

Reason: The Travel arrangement was referred to 1st week of April due to abrupt special meeting organized by the Office of the Auditor General which fell in the same week

Items

18,052,392.000 UShs 227001 Travel inland

Reason: The Travel arrangement was referred to 1st week of April due to abrupt special meeting organized by the Office of the Auditor General which fell in the same week

1.355 Bn Shs Department/Project :1619 Retooling of National Agricultural Research Organization

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Reason: All physical training was replaced by online virtual training, thus a reduction in hall hire costs though. The results were not as good as compared to physical attendance.

The contractors for the Wide Area Network planned for NARO institutes in the northern region had some technical issues to rectify before submitting the invoices for payment by the end of the quarter.

Items

409,127,972.000 UShs 221008 Computer supplies and Information Technology (IT)

Reason: The contractors for the Wide Area Network planned for NARO institutes in the northern region had some technical issues to rectify before submitting the invoices for payment by the end of the quarter.

248,895,547.000 UShs 281504 Monitoring, Supervision & Appraisal of Capital work

Reason: Referred to next quarter.

177,708,478.000 UShs 221003 Staff Training

Reason: - Physical training were by replaced Online virtual trainings, thus a reduction in hall hire costs though but results were not as good as compared to physical attendance

122,904,527.000 UShs 312102 Residential Buildings

Reason: The constructors did not submit their reports in time

119,225,600.000 UShs 225001 Consultancy Services- Short term

Reason: Two invoices from consultants were not paid due to their supplier information were not successfully captured under IFMS

(ii) Expenditures in excess of the original approved budget

V2: Performance Highlights

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QUARTER 3: Highlights of Vote Performance

Table V2.1: Sub-SubProgramme Outcome and Outcome Indicators*

Sub-SubProgramme: 51 Agricultural Research

Responsible Officer: Director General

Sub-SubProgramme Outcome: Increased production and productivity of priority and strategic commodities

Sub-SubProgramme Outcome Indicators	Indicator Measure	Planned 2021/22	Actuals By END Q3
Percentage of new varieties promoted and adopted by farmers and other users	Percentage	14%	10.5
Number of commercialisable technologies and innovations generated through competitive grant projects	Number	10	5
Increased production and productivity at some level resulting from utilization of improved technologies	Percentage	2%	1.5%

Table V2.2: Budget Output Indicators*

Performance highlights for the Quarter

A. NARO during the reporting period promoted technologies to the Uganda wider audience through various undertakings since the lock-down was lifted. NARO:

- 1. Coordinated and supported Implementation of the NARO seed Fair by NACRRI and UBIC. Through partnerships, 8 seed companies participated and 456 farmers accessed quality seed
- 2. Coordinated and supported institutes to conduct exhibitions during Parish Development model where 2650 participants were reached. A total of 21 technologies along 6 commodities were showcased.
- 3. Coordinated participation in the Eastern Agricultural Show. 1010 participants were reached and partnership linkages initiated. 41 technologies along 7 commodities were showcased. Standard Operating Procedures reviewed, pending printing.
- 4. Coordinated NARO participation in Harvest Money Expo at Kololo where 7687 Farmers and stakeholders were exposed to NARO technologies. 32 technologies along 8 commodities were showcased.
- 5. Supported private technology demonstrations and dissemination by cultural and religious groups includin Tooro Kingdom, Kasagama farm, innoveight hub and catholic church magazine.
- 6. Developed a draft MOU between NARO and Movit for the commercialization of the coffee scrub
- 7. the orientation of the EGS working group and development of their workplan
- 8. 3 communities in Central Buganda and Greater Masaka Regions get to know about NARO technologies appropriate to them .
- 9. 10 Technologies disclosed under TDF assessed and different forms of IP applications are under drafting and development for filing
- 10. 3 IPMC meetings held (IPMC interface with MAAIF, Preparatory meeting for monitoring of seed companies, Meeting with breeders with key resolutions and decisions included; drafting of solicitor general letter for guidance on NARO variety licensing, communicate to PARIs about breeder seed bulking requirements and the streamlined procedure of access.
- 11. 1 Licence agreement between NARO and Advanta signed, MOU between NARO and Katebe farms processed; 1 expression of interest from Uganda prisons seed limited for partnership in foundation seed production received and being processed.
- 12. Monitored 6 NARO licensed Seed companies which included; NASECO, FICA, Ayellape Agro, Equator Seeds, Miika Albertine, Syova seeds.
- B. NARO has strengthened the agricultural research capacity by:
- 13. Developing a draft Mentorship concept for to enhance capacity in product development
- 14. Developing the first draft of the partnership guidelines.
- 15. Guidelines for implementing the knowledge management policy validated. The Knowledge management was typeset, designed and first review conducted
- 16. Content for three (Banana, Fish and Livestock) commodities co-created, illustrated and designed for review. Eleven content panckages for five commodities (Maie, Dairy, Rice, Cassava and Rice) uploaded on the NARO information hub
- C. NARO has been Enhancing the application of ICT, and integrating a considerable range of ICT in research.
- 17. A wide Area network is being rolled-out to PARIs. As part of lesson learnt from the lock down, and a response to mitigate future covid-like

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events. The WAN is build on top of the optical fiber installation by NITA-U.

18. NARO is digitizing the document collections to improve access to corporate institutional memory.

D. There are key achievements at the PARIs abridged as follows:

Crops (abridged report)

- 19. Submitted to VRC, 3 bush and 3 climber beans varieties for DUS test
- 20. 4 earlier submitted candidate varieties re-submitted.
- 21. 2 new rice varieties submitted to VRC;
- 22. 4 earlier submitted rice varieties released
- 23. NACRRI produced 2.01M of bean breeder seed; developed and evaluated sets of combinations of soil fertilisation and pest and diseases management control regimes to enable increased bean yields
- 24. Five (5) varietal technologies (NAROBEAN 1,2,3 6 and 7) delivered to uptake pathways using 48 demostration field
- 25. Two tomato production practices developed.
- 26. 4 farmer groups supported in vegetable & fruit production in Ngeng, wadelai, Torchi and Doho II
- 27. 2 earlier submitted maize candidate varieties re-submitted
- 28. 6 platforms were supported (4 rice, 2 bean) Doho, Olweny Irrigation Scheme, kamwenge and Kigumba. Two beans
- 29. Five (2) innovations: i) Demos 2), ii) On Farm Trials (OFT-2), iv) Farmer Groups (FGs 2), & v) Early Generation Seeds (EGSs-10 acres of improved varieties) established

Coffee

- 30. 2 candidate Arabica genotypes promising for pest resistance identified. 1 candidate Arabica coffee variety trial site in Zombo rehabilitated. Coffee samples from 22 (17 Elgon A plus 5 checks) Arabica genotypes in advanced trials at Bugusege and BugiZARDI harvested and processed for quality analysis.
- 31. 2 coffee by-products developed and are under shelf-stability studies
- 32. 48 coffee samples were submitted to UCDA for quality analysis
- 33. High Performance Liquid Chromatograph (HPLC) equipment installed and operationalized
- 34. Prototypes of coffee lotions and creams produced with extracts from leaves, green cherries and red-ripe cherries, ready for market testing
- 35. Conducted market-taste study for coffee-infused yoghurt prototype. 90% of the respondents preferred the coffee-infused yoghurt to any other yoghurt on market
- 36. Developed 4 Models of potential packaging materials for coffee byproducts, each model with 2 volume adjustments
- 37. Mother gardens at Bugusege maintained for quality production of Arabica seed
- 38. 30 cocoa farmers and extension workers trained in cocoa GAPs at outreach events held at NaCORI-Kituza and NaCORI participating exhibitions.

Fisheries

- 39. 60 barbus broodstock procured for onstation conditioning; 158,885 quality sex reversed tilapia fry produced and availed to farmers; 28,310 mixed sex tilapia; 17,060 catfish, and 10,800 mirror carp
- 40. Fisheries potential of lake Victoria and Lake Kyoga established
- 41. Updated the NARO Cage Aquaculture Application (App).
- 42. Two cage stocked with 15,000 fish for growout; two additional grow out cages with 12,000 fish stocked and one cage facility maintained.
- 43. Feed mill, two (02) Hatcheries, forty (40) ponds, office Premises and hostel facilities well managed and maintained..

Forestry

- 44. Draft training content developed and outreach strategy drafted.
- 45. One value added non-wood product (treated bamboo poles) produced (3,400 bamboo poles treated with borax:boric acid preservative). One value added wood product (Glulam tables) developed and physical and mechanical properties determined.
- 46. 100 kg of bamboo charcoal produced from 2 species, i.e. Bambusa vulgaris (50 kg) and Dendrocalamus giganteus (50 kg).
- 47. 5 acres of Avocado genebank maintained; Summary report on growth performance and fruiting characteristics of genotypes in Avocado germplasm bank.
- 48. 16 acres of shea butter tree BSOs in Ngetta ZARDI & NaSARRI maintained; Report on the growth performance of the genotypes in the shea tree BSOs.
- 49. NaFORRI is establishing the know-what, germplasm and tree improvement of the jackfruit. Preliminary data on seed and seedling characteristics of the different ethno-varieties generated; 2) Diversity of jackfruit determined.

Livestock

- 50. Assorted livestock feed produced 20 tons of soya, 30 tons of maize produced, 2) 400 tons of sillage produced (20 acres) 3) 54,750kg of hay (20 acres) produced; 4) 1.5 MT of forage seed produced "
- 51. In Ant-tick vaccine research, responses to scientific audit queries on the On-station vaccine clinical trial were reviewed and results were satisfactory. The results were presented to Project PI and PL by UNCST. Two meetings for supervision of the NARO Vaccine Production Facility

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were successfully held by the NARO engineer, Project contractor and PIs of ASF, FMD and Anti-tick vaccine project. NBC granted a conditional biosafety approval for a confined field trial (CFT). 4) Protocols for CFT were submitted to NDA for review.

- 52. NALIRRI is producing fertilised eggs of elite indigenous chicken to be availed to hatcheries to enable production and supply of elite day old chicks
- 53. 1080 eggs hatched; 510 chicks hatched
- 54. 75 low cost embryos produced
- 55. NALIRRI is improving the African goat through community based breeding programs by strengthening village breeding programs in Uganda, Masisndi and Nepak.

NARL

- 56. One unit of NARORAMP2 under installation (60% complete) in Mirongo village, Harugongo sub-county, Kabarole district for vegetable production and fish farming
- 57. Biomass of 3 different potential candidates for formulation into high energy briquettes have been prepared for Galvanic and thermal analyses 58. 2 potential smoked fish processors (Oporogo fish and sea food enterprises based at Bwebajja, Wakiso district; Herbert Katabalwamiira, Katabi, Wakiso district) identified
- 59. 4 of the earlier SMEs (Kwer Kabu Acaye womens group at Dei landing site, Fish farming clusters, MIMUK, Kiyindi women fish processors association) were further guided on proper use of the kilns and processing smoked fish
- 60. 2nd prototype of power tiller weeder fabricated and ready for evaluation
- 61. Design and working drawings of low horse power hand weeder and procurement of fabrication materials "
- 62. "Second set of general information on soils and cropping pattern for the Mobuku irrigation scheme in 5 divisions (Divisions 8, 9, 10, 11 and 12). The average nutrient levels were: K 0.29Cmols/kg, N 0.15%, P 40.05mg/kg, pH 5.16, EC 145.9µs/cm, Organic manure 2.6%, Ca 6.05Cmols/kg, Mg 0.76Cmols/kg
- 63. Partial information on canopy of Longe 10 maize variety on the host irrigation scheme divisions (8,9,10,11 and 12). Average canopy cover: 18% on experimental plots at 3weeks and 15% on control plots at same crop age "
- 64.. Established 5 experimental plots for longe 10 maize variety in Mobuuku irrigation scheme at divisions 8,9,10,11 and 12."

V3: Details of Releases and Expenditure

Table V3.1: Releases and Expenditure by Budget Output*

Billion Uganda Shillings	Approved Budget	Released	Spent	% GoU Budget Released	% GoU Budget Spent	%GoU Releases Spent
Sub-SubProgramme 51 Agricultural Research	110.61	77.96	72.37	70.5%	65.4%	92.8%
Class: Outputs Provided	79.32	57.75	54.51	72.8%	68.7%	94.4%
015101 Generation of agricultural technologies	16.63	10.95	9.92	65.8%	59.7%	90.7%
015102 Research extension interface promoted and strengthened	4.12	2.55	2.36	61.9%	57.3%	92.6%
015103 Internal Audit	0.18	0.09	0.07	50.0%	40.0%	79.9%
015104 Agricultural research capacity strengthened	58.40	44.17	42.15	75.6%	72.2%	95.4%
Class: Outputs Funded	1.84	0.92	0.89	50.0%	48.4%	96.9%
015151 Payments to International Organisations (CGIAR, ASARECA, WARDA)	1.84	0.92	0.89	50.0%	48.4%	96.9%
Class: Capital Purchases	29.14	18.99	16.67	65.1%	57.2%	87.8%
015172 Government Buildings and Administrative Infrastructure	25.33	15.37	13.65	60.7%	53.9%	88.8%
015176 Purchase of Office and ICT Equipment, including Software	0.11	0.08	0.08	73.6%	73.6%	100.0%
015177 Purchase of Specialised Machinery & Equipment	3.51	3.34	2.86	95.2%	81.5%	85.6%

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Billion Uganda Shillings	Approved Budget	Released	Spent	% GoU Budget Released	% GoU Budget Spent	%GoU Releases Spent
015178 Purchase of Office and Residential Furniture and Fittings	0.20	0.20	0.08	97.5%	40.7%	41.7%
Class: Arrears	0.30	0.30	0.30	100.0%	100.0%	100.0%
015199 Arrears	0.30	0.30	0.30	100.0%	100.0%	100.0%
Total for Vote	110.61	77.96	72.37	70.5%	65.4%	92.8%

Table V3.2: 2021/22 GoU Expenditure by Item

Billion Uganda Shillings	Approved Budget	Released	Spent	% GoU Budget Released	% GoU Budget Spent	%GoU Releases Spent
Class: Outputs Provided	79.32	57.75	54.51	72.8%	68.7%	94.4%
211102 Contract Staff Salaries	34.23	25.67	25.67	75.0%	75.0%	100.0%
211103 Allowances (Inc. Casuals, Temporary)	3.06	2.46	2.37	80.4%	77.3%	96.1%
212101 Social Security Contributions	3.42	3.33	2.57	97.3%	75.0%	77.1%
213001 Medical expenses (To employees)	1.00	0.83	0.83	83.1%	83.1%	100.0%
213002 Incapacity, death benefits and funeral expenses	0.91	0.58	0.58	64.2%	64.2%	100.0%
213004 Gratuity Expenses	8.56	6.42	6.42	75.0%	75.0%	100.0%
221001 Advertising and Public Relations	0.79	0.65	0.57	82.0%	72.2%	88.0%
221002 Workshops and Seminars	1.94	0.00	0.00	0.0%	0.0%	0.0%
221003 Staff Training	0.86	0.70	0.53	81.6%	61.0%	74.7%
221004 Recruitment Expenses	0.09	0.09	0.08	100.0%	94.0%	94.0%
221006 Commissions and related charges	0.09	0.05	0.04	61.5%	42.8%	69.7%
221007 Books, Periodicals & Newspapers	0.06	0.04	0.04	64.0%	59.9%	93.6%
221008 Computer supplies and Information Technology (IT)	1.58	1.03	0.62	65.0%	39.0%	60.1%
221009 Welfare and Entertainment	0.49	0.35	0.31	71.2%	63.5%	89.3%
221011 Printing, Stationery, Photocopying and Binding	0.63	0.43	0.43	67.8%	67.4%	99.5%
221012 Small Office Equipment	0.03	0.02	0.02	64.4%	59.3%	92.1%
221016 IFMS Recurrent costs	0.18	0.14	0.07	74.6%	38.3%	51.4%
221017 Subscriptions	0.07	0.06	0.06	82.4%	82.4%	100.0%
222001 Telecommunications	0.21	0.13	0.10	63.1%	46.8%	74.1%
222002 Postage and Courier	0.01	0.01	0.00	55.3%	32.8%	59.3%
222003 Information and communications technology (ICT)	0.96	0.62	0.54	64.6%	55.9%	86.5%
223002 Rates	0.05	0.05	0.00	100.0%	0.0%	0.0%
223004 Guard and Security services	0.30	0.22	0.21	72.8%	70.5%	96.9%
223005 Electricity	0.57	0.38	0.36	65.9%	63.6%	96.5%
223006 Water	0.11	0.07	0.07	65.5%	65.5%	100.0%
224001 Medical Supplies	1.45	1.20	1.20	82.9%	82.2%	99.3%
224004 Cleaning and Sanitation	0.28	0.21	0.21	75.8%	75.8%	100.0%
224005 Uniforms, Beddings and Protective Gear	0.09	0.07	0.07	82.7%	82.7%	100.0%

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<u> </u>						
224006 Agricultural Supplies	7.40	4.51	3.87	60.9%	52.3%	85.8%
225001 Consultancy Services- Short term	0.66	0.49	0.37	75.0%	56.9%	75.8%
226001 Insurances	0.13	0.07	0.01	51.8%	8.2%	15.8%
226002 Licenses	0.19	0.11	0.10	57.8%	52.4%	90.7%
227001 Travel inland	5.11	4.00	3.56	78.3%	69.7%	89.0%
227002 Travel abroad	0.03	0.00	0.00	0.0%	0.0%	0.0%
227004 Fuel, Lubricants and Oils	1.56	1.15	1.08	73.9%	69.5%	94.1%
228001 Maintenance - Civil	0.62	0.43	0.42	70.0%	67.9%	97.0%
228002 Maintenance - Vehicles	0.87	0.64	0.63	72.7%	72.1%	99.2%
228003 Maintenance – Machinery, Equipment & Furniture	0.57	0.44	0.44	78.3%	77.3%	98.7%
228004 Maintenance – Other	0.04	0.02	0.02	57.5%	48.8%	84.8%
273102 Incapacity,death benefits and funeral expenses	0.10	0.07	0.04	68.2%	39.5%	57.9%
Class: Outputs Funded	1.84	0.92	0.89	50.0%	48.4%	96.9%
262201 Contributions to International Organisations (Capital)	1.80	0.91	0.89	50.6%	49.6%	98.0%
264101 Contributions to Autonomous Institutions	0.04	0.01	0.00	25.0%	0.0%	0.0%
Class: Capital Purchases	29.14	18.99	16.67	65.1%	57.2%	87.8%
281504 Monitoring, Supervision & Appraisal of Capital work	1.40	1.04	0.79	74.4%	56.6%	76.1%
312101 Non-Residential Buildings	20.67	12.79	11.50	61.9%	55.6%	89.9%
312102 Residential Buildings	1.89	1.13	1.01	59.6%	53.1%	89.1%
312104 Other Structures	1.36	0.42	0.35	30.4%	25.8%	84.7%
312202 Machinery and Equipment	2.31	2.14	1.76	92.7%	76.2%	82.2%
312203 Furniture & Fixtures	0.20	0.20	0.08	97.5%	40.7%	41.7%
312213 ICT Equipment	0.11	0.08	0.08	73.6%	73.6%	100.0%
312214 Laboratory Equipments	1.20	1.20	1.10	100.0%	91.7%	91.7%
Class: Arrears	0.30	0.30	0.30	100.0%	100.0%	100.0%
321613 Telephone arrears (Budgeting)	0.14	0.14	0.14	100.0%	100.0%	100.0%
321614 Electricity arrears (Budgeting)	0.16	0.16	0.16	100.0%	100.0%	100.0%
Total for Vote	110.61	77.96	72.37	70.5%	65.4%	92.8%

Table V3.3: Releases and Expenditure by Department and Project*

Billion Uganda Shillings	Approved Budget	Released	Spent	% GoU Budget Released	% GoU Budget Spent	%GoU Releases Spent
Sub-SubProgramme 0151 Agricultural Research	110.61	77.96	72.37	70.5%	65.4%	92.8%
Departments						
01 Headquarters	51.67	39.54	38.25	76.5%	74.0%	96.8%
07 National Crops Resources Research Institute	0.24	0.15	0.15	63.3%	63.3%	100.0%
08 National Fisheries Resources Research Institute	0.33	0.22	0.22	65.4%	65.4%	100.0%
09 National Forestry Resources Research Institute	0.23	0.15	0.15	63.9%	63.9%	100.0%
10 National Livestock Resources Research	2.24	1.34	1.34	60.0%	60.0%	100.0%

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QUARTER 3: Highlights of Vote Performance

11 National Semi arid Resources Research	0.44	0.27	0.27	62.0%	62.0%	100.0%
12 National Laboratories Research	1.19	0.71	0.71	59.5%	59.5%	100.0%
13 Abi ZARDI	0.19	0.13	0.13	67.0%	67.0%	100.0%
14 Bulindi ZARDI	0.20	0.13	0.13	66.3%	66.3%	100.0%
15 Kachwekano ZARDI	0.19	0.13	0.13	67.1%	67.1%	100.0%
16 Mukono ZARDI	0.35	0.21	0.21	59.3%	59.3%	100.0%
17 Ngetta ZARDI	0.20	0.13	0.13	66.4%	66.4%	100.0%
18 Nabium ZARDI	0.20	0.13	0.13	66.3%	66.3%	100.0%
19 Mbarara ZARDI	0.19	0.13	0.13	67.0%	67.0%	100.0%
20 Buginyaya ZARDI	0.35	0.21	0.21	59.3%	59.3%	100.0%
21 Rwebitaba ZARDI	0.49	0.31	0.31	62.7%	62.7%	100.0%
26 NARO Internal Audit	0.18	0.09	0.07	50.0%	40.0%	79.9%
27 National Coffee Research Institute	0.25	0.16	0.16	63.1%	63.1%	100.0%
Development Projects						
1560 Relocation and Operationalisation of the National Livestock Resources Research Institute (NALIRRI)	5.00	3.31	3.31	66.2%	66.1%	99.9%
1619 Retooling of National Agricultural Research Organization	46.47	30.52	26.23	65.7%	56.4%	85.9%
Total for Vote	110.61	77.96	72.37	70.5%	65.4%	92.8%

Table V3.4: External Financing Releases and Expenditure by Sub-SubProgramme and Project

Billion Uganda Shillings	Approved Released	Spent	% Budget	% Budget	%Releases
	Budget	_	Released	Spent	Spent

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QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
Sub-SubProgramme: 51 Agricultural R	Research		
Departments			
Department: 01 Headquarters			
Outputs Provided			
Budget Output: 01 Generation of agric	ultural technologies		
2 Impact studies conducted on NARO	Two impact studies on maize and bean	Item	Spent
rice & sorghum, Competitive Grants Scheme (CGS), 4 physical and	being finalised in the PARIs. Preliminary findings indicated that Results indicated	211103 Allowances (Inc. Casuals, Temporary)	13,627
budget performance monitoring reports	that 79.3% and 85% of farmers were	221006 Commissions and related charges	13,980
generated 1 Annual performance review conducted, 1 Statistical abstract FY2021/22	using improved NARO maize and bean varieties, respectively.	227001 Travel inland	42,500
developed	- Two performance monitoring reports generated to inform management decisions on on-going research progress.		
	- One draft NARO statistical abstract FY 2021/22 developed but not yet completed.		
Reasons for Variation in performance			

Work still on-going

70,107	Total
0	Wage Recurrent
70,107	Non Wage Recurrent
0	Arrears
0	AIA

Budget Output: 02 Research extension interface promoted and strengthened

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QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
2 web-based technology promotion	- One web-based technology promotion	Item	Spent
Systems developed, 8 technologies protected, 12 IPMC engagements & 12 IP	System developed.	221007 Books, Periodicals & Newspapers	3,843
awareness policy coordinated, 8 Technology licensing agreements signed	- 3 IPMC meetings held(IPMC interface with MAAIF.	221011 Printing, Stationery, Photocopying and Binding	50,000
and 8 Business plans & proposals,		221012 Small Office Equipment	230
develop 3 digital based technology platforms	- Preparatory meeting for monitoring of seed companies, Meeting with breeders	222001 Telecommunications	16,170
platforms	with key resolutions and decisions	222002 Postage and Courier	300
	included; drafting of solicitor general letter for guidance on NARO variety	223005 Electricity	13,177
	licensing, communicate to PARIs about	223006 Water	10,103
	breeder seed bulking requirements and the streamlined procedure of access.	227001 Travel inland	15,720
	- One licence agreement between NARO and Advanta signed, MOU between NARO and Katebe farms processed; 1 expression of interest from Uganda prisons seed limited for partnership in foundation seed production received and being processed.		
	- 03 technologies were identified to have IP potential and are undergoing assessment and drafting		
	- One patent application drafted and ready for filing 2 more seed companies recommended for license to commercialize NARO plant varieties.		
	- 02 companies engaged for signing of a licence agreement that is Advant international.		
	- Records management information system to support of administration activities developed.		

Reasons for Variation in performance

Work still on going for developing the technology promotion System, technologies protected, IPMC engagements & IP awareness policy coordinated, and Technology licensing agreements

109,543	Total
0	Wage Recurrent
109,543	Non Wage Recurrent
0	Arrears
0	AIA

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QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

10 NARO staff supported for MScs and PhDs,4000 acres of NARO titled, strengthened compliance to 6 international organizations, Coordinated Research oversight in the 16 PARIS, Security enhanced in the 16 NARO PARIs assets and 16 PARI facilities maintained

- Coordinated Research oversight in the 16 PARIs strengthened to support development of research for products to stimulate industries, Security enhanced in the 16 NARO PARIs,
- 1 routine mission conducted on research facilities in the 16 Public research institutes.
- Human resource of 910 staff managed and maintained by . paying staff salaries for the months of January-March 2022.
- And social security contribution for 901 staff for the months of January March 2022 remitted to NSSF.
- Annual subscription paid for 30 staff who belong to professional bodies.

76 NARO staff competencies enhanced through long term and short term training. (i.e. 01 PHD, 01 MSC, 01 in logistics and transport (CILT), 03 NARO staffs on effective office management; 14 staffs on transformational human resource management; officers; 20 on Procurement Management; 03 NARO Accountants for professional development fees; 17 Internal Auditors in professional development; 11 NARO technicians in experimental SOPs and data management

- Professional development fees for over 40 NARO staff(Federation of Uganda Employers)
- Professional development fees for 06 NARO Accountants in ACCA.
 Professional development fees for TWO NARO Administrative professionals.
 professional development in Information Technology. 01 student.

500 acres of NARO titled, strengthened compliance to 6 international organizations,

Physical resources (office buildings, vehicles, compounds) and utilities secured, functional and managed effectively and efficiently.

Financial resources managed, and monitored the fiduciary responsibilities of the various actors in the PARIs.

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Item	Spent
211102 Contract Staff Salaries	25,674,922
211103 Allowances (Inc. Casuals, Temporary)	117,610
212101 Social Security Contributions	2,567,492
213001 Medical expenses (To employees)	830,627
213002 Incapacity, death benefits and funeral expenses	578,000
213004 Gratuity Expenses	6,418,730
221001 Advertising and Public Relations	4,463
221006 Commissions and related charges	21,328
221008 Computer supplies and Information Technology (IT)	4,628
221009 Welfare and Entertainment	186,756
221011 Printing, Stationery, Photocopying and Binding	8,201
221016 IFMS Recurrent costs	160
222001 Telecommunications	37,384
222003 Information and communications technology (ICT)	24,497
223004 Guard and Security services	84,221
223005 Electricity	23,332
223006 Water	1,000
224001 Medical Supplies	110,092
224004 Cleaning and Sanitation	97,556
224005 Uniforms, Beddings and Protective Gear	50,000
224006 Agricultural Supplies	235,384
227001 Travel inland	87,833
227004 Fuel, Lubricants and Oils	254,815
228001 Maintenance - Civil	45,283
228002 Maintenance - Vehicles	218,974
228003 Maintenance – Machinery, Equipment & Furniture	63,539
228004 Maintenance - Other	6,195
273102 Incapacity,death benefits and funeral expenses	23,300

Vote: 142 National Agricultural Research Organisation

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
Reasons for Variation in performance			
		Total	27.77(.224
		Total Wage Recurrent	
		Non Wage Recurrent	
		Arrears	
		AIA	
Arrears			•
Budget Output: 99 Arrears			
		Item	Spent
		321613 Telephone arrears (Budgeting)	137,926
		321614 Electricity arrears (Budgeting)	160,000
Reasons for Variation in performance			
		Total	0
		Wage Recurrent	
		Non Wage Recurrent	
		Arrears	
		AIA	. 0
		Total For Department	37,955,974
		Wage Recurrent	25,674,922
		Non Wage Recurrent	12,281,052
		Arrears	297,926
		AIA	. 0
Departments			
Department: 07 National Crops Resour	rces Research Institute		
Outputs Provided			
Budget Output: 01 Generation of agric	=	T4	C
17 varieties for food and nutrition security developed and submitted to the	One pre-release meeting conducted .	Item 211103 Allowances (Inc. Casuals, Temporary)	Spent 32,986
varieties release committee	- Submitted to VRC, 3 bush and 3 climber beans varieties for DUS test.	211105 Anowances (nic. Casuais, Temporary)	32,980
	- 4 earlier submitted candidate varieties re-submitted.		
	- 2 new rice varieties submitted to VRC.		
	4 earlier submitted rice varieties released.		
Reasons for Variation in performance			

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QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
		Total	32,986
		Wage Recurrent	0
		Non Wage Recurrent	32,986
		Arrears	0
		AIA	0
Budget Output: 02 Research extension	interface promoted and strengthened		
16 technologies delivered to uptake path	2 tons of quality breeder maize seed	Item	Spent
ways for increased production and productivity	produced (of six varieties).	221001 Advertising and Public Relations	2,520
productivity	8 tons of foundation bean seed harvested ready for delivery of 5 varieties).		
	1 ton of vegetative planting materials ready for farmers (two cassava, three sweet potato, three citrus seedlings)		
	- Multiplication gardens established for various crops: 480 TRICOTs, 75 OFTs (sweetpotato), 26 FGs (18 sweetpotato & 8 cassava), 26 demos (20 sweetpotato & 6 cassava),41 acres (6 sweetpotato & 35 cassava)		
Reasons for Variation in performance			

2,520	Total
0	Wage Recurrent
2,520	Non Wage Recurrent
0	Arrears
0	AIA

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Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
1) Three Bio-sciences laboratories	1) One Bio-sciences laboratories	Item	Spent
manintained. 2) Four on-station field research facilities	maintained. 2) Four on-station field research facilities (2 screen house and 2	211103 Allowances (Inc. Casuals, Temporary)	2,520
maintained. 3. Six Crop production facilities	tissue culture labs.) maintained. 3. One Crop production facility maintained to	221008 Computer supplies and Information Technology (IT)	5,032
maintained.	create enabling environment for	221009 Welfare and Entertainment	6,040
	Agriculture research Physical resources (offices, laboratories, field machinery, office equipment) maintained and fully	221011 Printing, Stationery, Photocopying and Binding	6,300
	functional	222001 Telecommunications	5,040
		223004 Guard and Security services	7,560
		223005 Electricity	25,200
		224004 Cleaning and Sanitation	5,040
		226001 Insurances	806
		227001 Travel inland	12,635
		227004 Fuel, Lubricants and Oils	18,900
		228002 Maintenance - Vehicles	20,160
		228003 Maintenance – Machinery, Equipment & Furniture	3,780
		Total Wage Recurrent	· (
		Non Wage Recurrent	119,013
		Arrears	C
		AIA	C
		Total For Department	154,520
		Wage Recurrent	C
		Non Wage Recurrent	154,520
		Arrears	C
		AIA	C
Departments			
Department: 08 National Fisheries Res	ources Research Institute		
Outputs Provided			
Budget Output: 01 Generation of agricu	-		~
Sixteen thousand five hundred brood stock of fisheries resources acquired for	60 barbus broodstock procured for onstation conditioning; 158,885 quality	Item 211103 Allowances (Inc. Casuals, Temporary)	Spent 8,314
sustainable seed production and Breeding that is; Ten thousand (10,000) Tilpia,	sex reversed tilapia fry produced and availed to farmers; 28,310 mixed sex	224006 Agricultural Supplies	9,697
Five thousand (5,000) catfish, One thousand (1,000) mirror carp and Five	tilapia; 17,060 catfish, and 10,800 mirror	227001 Travel inland	4,843
hundred (500) Barbus.	carp	227004 Fuel, Lubricants and Oils	4,477
Reasons for Variation in performance			

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Mage Recurrent	Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
Mage Recurrent	Only four out of 10 cages were available to	for stocking. Others were still under rehabi	litation.	
Budget Output: 04 Agricultural research 4 fish laboratories and two aquarium facilities maintained and operationalised. 1 rage research facility maintained and operationalised. 2 Premises and assets protected and Premises and earlies/brochures/ booklets produced; 1 rage research facility maintained and operationalised. 1 Premises and assets protected and Premises and earlies/brochures/ booklets produced; 1 rage research facility producity (3 M Institute vehicles and equipment maintained; information leaflets/brochures/ booklets produced; 1 rage (10 radministrative activities) producity (3 M Institute vehicles and equipment maintained; information leaflets/brochures/ booklets produced; 1 rage (10 radministrative activities) producity (3 M Institute vehicles and equipment maintained; information leaflets/brochures/ booklets produced; 1 rage (10 radministrative activities) producity (3 M Institute) 1 return (4 rage) 1 return (5 rage) 1 rage) 1 return (5 rage) 1			Total	27,330
Budget Output: 04 Agricultural research capacity strengthened 4 fish laboratories and two aquarium facilities maintained and operationalised. Premises and intained and operationalised. Premises and protected and Premises and protected and One fish laboratory and one aquarium maintained and operationalised. Premises and uparticultural research facility maintained and operationalised. Premises and equipment maintained and operationalised. In a subject of the administrative activities produced; for subministrative activities procured; to firstitute vehicles and equipment maintained in information leaflets/brochures/ booklets produced; leaflets/brochures/ leaflets/brochures/ booklets produced; leaflets/brochures/ leaflets/brochures/ leaflets/brochur			Wage Recurrent	0
Budget Output: 04 Agricultural research 4 fish laboratories and two aquarium ficilities maintained and operationalised. 1 cage research facility maintained and operationalised. 2 research facility maintained and operationalised. 3 reprationalized. 3 reprationalized. 4 sakets protected and Premises and assets protected and Premises and equipment maintained: information leaflets/brochures/ booklets produced; 1 cage research facility maintained and operationalized. 4 sakets protected and Premises and equipment maintained: information leaflets/brochures/ booklets produced; 1 cage research facility maintained and operationalized. 5 reprationalized. 5 reprationalized. 5 sakets protected and Premises and equipment maintained: information leaflets/brochures/ booklets produced; 1 cage research facility maintained and operationalized. 2 little 3 allowances (Inc. Casuals, Temporary) 2 (2010) Advertising and Public Relations 8 .824 2 11103 Allowances (Inc. Casuals, Temporary) 2 (21001 Advertising and Public Relations 8 .824 2 121008 Computer supplies and Information 1 cage research facility maintained and equipment maintained; information and communications 1 cage research facility maintained and operationalized. 2 22001 Telecommunications 2 22001 Telecommunications 2 22001 Telecommunications 2 22000 Walfare and Entertainment 2 22000 Walfare and Satitionery, Photocopying and Binding 2 22000 Walfare and Entertainment 2			Non Wage Recurrent	27,330
4 fish laboratories and two aquarium facilities maintained and operationalized. I cage research facility maintained and operationalized. Premises and sasets protected and Premises and Premise and Public Relations Scattering and Public Relations Scattering and Public Relations Scattering and Public Relations Accounts and Public Relations and Public Relat			Arrears	0
4 fish laboratories and two aquarium facilities maintained and operationalised. Tage research facility maintained and operationalised. Premises and assets protected and Premises and assets produced; 221001 Telecommunications 221001 Telecommunications 221001 Telecommunications 222001 Telecommunic			AIA	0
Tacilities maintained and operationalised Lage research facility Premises and assets protected and operationalised. Premises and assets protected and operationalized. Premises and assets protected and operational premises and Information and Communications and Calculations and Calcul	Budget Output: 04 Agricultural researc	ch capacity strengthened		
Table research facility maintained and operationalised. assets protected and Premises and perationalized Salaries for 25 contract staff paid (Staff welfare items procured; procured; 98 Institute vehicles and equipment maintained; information leaflets/brochures/ booklets producet; 221007 Books, Periodicals & Newspapers 4,709 221008 Computer supplies and Information 1,327 Technology (IT) 221009 Welfare and Entertainment 6,406 221011 Printing, Stationery, Photocopying and equipment maintained; information 1,2270 Welfare and Entertainment 6,406 221001 Telecommunications 2,2437 technology (IT) 223004 Guard and Security services 11,286 223005 Electricity 223006 Water 7,913 224004 Cleaning and Sanitation 7,961 226001 Insurances 2,26001 Insurances 2,26001 Insurance - Civil 6,634 228002 Maintenance - Civil 6,634 228002 Maintenance - Wachinery, Equipment 8, Furniture **Reasons for Variation in performance** **Reasons for Variation in performance** **Reasons for Variation in performance** **Total Non Wage Recurrent 189,438 **AI/A 6, 6,644 **Total For Department 6, 6466 **Total For Department 7, 6467 **Total For Department 7,			Item	Spent
maintained and operationalised. Premises and sasets protected and Premises and assets protected and Premises and staff paid Slaff welfare items procured; tell for administrative activities procured; 98 Institute vehicles and minimation technology (IT) 221009 Welfare and Entertainment 6,406 and 1,227 technology (IT) 221001 Princing, Stationery, Photocopying and Binding 222001 Telecommunications 222001 Edecommunications 222001 Edecommunications 222003 Edectricity 223005 Electricity 223005 Electricity 223006 Water 7,913 224004 Cleaning and Samitation 7,961 224004 Cleaning and Samitation 20,927 227004 Fuel, Lubricants and Oils 16,339 228001 Maintenance - Civil 6,634 228002 Maintenance - Civil 6,634 228002 Maintenance - Civil 6,634 228002 Maintenance - Weblices 20,105 228003 Maintenance - Weblices 20,105 228003 Maintenance - Machinery, Equipment 8 Furniture 189,438 Arracras AIA 6,667			211103 Allowances (Inc. Casuals, Temporary)	26,239
assets protected and fuel for administrative activities procured; 08 Institute vehicles and equipment maintained; information leaflets/brochures/ booklets produced; 221008 Computer supplies and Information Technology (IT) 221009 Welfare and Entertainment 6,406 (221011 Printing, Stationery, Photocopying and Binding 222001 Telecommunications 222001 Information and communications (223005 Electricity 223006 Guard and Security services 11,286 (223005 Electricity 223006 Water 7,913 (22000 Insurances 1,056 (227001 Insurances 1,056 (227001 Insurances 1,056 (227001 Insurances 227001 Travel inland 20,927 (227004 Fuel, Lubricants and Oils 16,339 (228002 Maintenance - Civil 6,634 (228002 Maintenance - Vehicles 20,105 (228003 Maintenance - Weighten 20,105 (228003 Maintenance - Weighten 20,105 (228003 Maintenance - Machinery, Equipment 8,438 (438 (438 (438 (438 (438 (438 (438 (221001 Advertising and Public Relations	8,524
procured; 08 Institute vehicles and equipment maintained; information leaflets/brochures/ booklets produced; 221001 Printing, Stationery, Photocopying and Binding 222001 Telecommunications 3,885 222003 Information and communications technology (ICT) 123006 Water 223004 Guard and Security services 11,286 223005 Electricity 15,445 223006 Water 7,913 224004 Cleaning and Sanitation 7,961 226001 Insurances 1,056 227001 Travel inland 220,927 27001 Travel inland 220,927 16,339 228001 Maintenance - Civil 6,634 228002 Maintenance - Vehicles 22,0105 228003 Maintenance - Machinery, Equipment 10,271 & Furniture 189,438 Wage Recurrent Non Wage Recurrent Non Wage Recurrent 189,438 AIT AIT Total For Department Wage Recurrent 189,438 AIT AIT Total For Department Wage Recurrent 189,438 AIT AIT Total For Department Wage Recurrent 190,576 AIT Total For Department Wage Recurrent 190,576 AIT Total For Department Wage Recurrent 190,576 AIT Total For Department 190,576			221007 Books, Periodicals & Newspapers	4,709
leaflets/brochures/ booklets produced; 221009 Welfare and Entertainment 6,406 221011 Printing, Stationery, Photocopying and Binding 222001 Telecommunications 3,885 222003 Information and communications 12,437 technology (ICT) 223004 Guard and Security services 11,286 223005 Electricity 15,445 223006 Water 7,913 224004 Cleaning and Sanitation 7,961 226001 Insurances 1,056 227001 Travel inland 20,927 227004 Fuel, Lubricants and Oils 16,339 228001 Maintenance - Civil 6,634 228002 Maintenance - Vehicles 20,105 228002 Maintenance - Vehicles 20,105 228003 Maintenance - Machinery, Equipment 10,271 & Furniture 10,271 & Furniture 10,271 & Furniture 189,438 Wage Recurrent 189,438 Arrears 1,066 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071 1,071	assets protected and	procured; 08 Institute vehicles and		1,327
Binding 222001 Telecommunications 3,885 222001 Telecommunications 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,437 12,445 12,23006 Water 7,913 22,2006 Water 7,913 22,2000 Water 7,913 22,2000 Unit and Sanitation 7,961 22,26001 Insurances 1,056 22,2001 Insurances 1,056 22,2001 Maintenance - Civil 6,634 22,2000 Maintenance - Civil 6,634 22,2000 Maintenance - Vehicles 20,105 22,2000 Maintenance - Wachinery, Equipment & 10,271 & Furniture 10,271 & Furniture 10,271 & Furniture 10,271 & Furniture 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000			221009 Welfare and Entertainment	6,406
222003 Information and communications technology (ICT) 223004 Guard and Security services 11,286 223005 Electricity 15,445 223006 Water 7,913 224004 Cleaning and Sanitation 7,961 226001 Insurances 1,056 227001 Travel inland 20,927 227004 Fuel, Lubricants and Oils 16,339 228001 Maintenance - Civil 6,634 228002 Maintenance - Vehicles 20,105 228003 Maintenance - Wehicles 20,105 228003 Maintenance - Machinery, Equipment & Furniture 10,271 & Furniture 10,2		•		7,979
technology (ICT) 223004 Guard and Security services 11,286 223005 Electricity 15,445 223006 Water 7,913 224004 Cleaning and Sanitation 7,961 226001 Insurances 1,056 227001 Travel inland 20,927 227004 Fuel, Lubricants and Oils 16,339 228001 Maintenance - Civil 6,634 228002 Maintenance - Vehicles 20,105 228003 Maintenance - Wachinery, Equipment & Furniture 10,271 Reasons for Variation in performance 189,438 Wage Recurrent 189,438 Non Wage Recurrent 189,438 Arrears (1,276 AIA (1,276 Total For Department 216,768 Wage Recurrent Wage Recurrent 16,768 Wage Recurrent 17,768 Wage Recurrent 17,768 Wage Recurrent 18,768 Wage Recurrent 18,768 Wage Recurrent 17,768 Wage Recurren			222001 Telecommunications	3,885
223005 Electricity 15,445				12,437
223006 Water 7,913			223004 Guard and Security services	11,286
224004 Cleaning and Sanitation 7,961 226001 Insurances 1,056 227001 Travel inland 20,927 227004 Fuel, Lubricants and Oils 16,339 228001 Maintenance - Civil 6,634 228002 Maintenance - Vehicles 20,105 228003 Maintenance - Machinery, Equipment & Furniture 10,271 Reasons for Variation in performance Total 189,438 Wage Recurrent Non Wage Recurrent 189,438 Arrears Contact AIA Contact Total For Department 216,768 Wage Recurrent Contact Contact Wage Recurrent			223005 Electricity	15,445
226001 Insurances 1,056 227001 Travel inland 20,927 227004 Fuel, Lubricants and Oils 16,339 228001 Maintenance - Civil 6,634 228002 Maintenance - Vehicles 20,105 228003 Maintenance - Machinery, Equipment & Furniture 10,271 & Furniture 10,271 & Furniture 189,438 Wage Recurrent Non Wage Recurrent 189,438 Arrears (1,434) Arrears (1,435) Arrears (1,436) Arrears (1,436) Arrears (1,436) Arrears (1,436) Arrears (1,436) Arrears (1,436) Arrears (1,436) Arrears (1,436)			223006 Water	7,913
227001 Travel inland 20,927			224004 Cleaning and Sanitation	7,961
227004 Fuel, Lubricants and Oils 16,339 228001 Maintenance - Civil 6,634 228002 Maintenance - Vehicles 20,105 228003 Maintenance - Machinery, Equipment & Furniture 10,271 & Furniture 10,			226001 Insurances	1,056
228001 Maintenance - Civil 6,634			227001 Travel inland	20,927
228002 Maintenance - Vehicles 20,105			227004 Fuel, Lubricants and Oils	16,339
228003 Maintenance – Machinery, Equipment & Furniture Reasons for Variation in performance Total 189,438 Wage Recurrent Non Wage Recurrent 189,438 Arrears AIA Control Total For Department Wage Recurrent Wage Recurrent Control Total For Department Total For Department Wage Recurrent Control Total For Department Control Total For D			228001 Maintenance - Civil	6,634
& Furniture Reasons for Variation in performance Total 189,438 Wage Recurrent 189,438 Non Wage Recurrent 189,438 Arrears 0 AIA 0 Total For Department 216,768 Wage Recurrent 0			228002 Maintenance - Vehicles	20,105
Total 189,438 Wage Recurrent (Non Wage Recurrent 189,438 Arrears (AIA (Total For Department Vage Recurrent Vage Recurre				10,271
Wage Recurrent Non Wage Recurrent Arrears AIA Total For Department Wage Recurrent Wage Recurrent Wage Recurrent O	Reasons for Variation in performance			
Non Wage Recurrent 189,438 Arrears (Total	189,438
Non Wage Recurrent 189,438 Arrears (Wage Recurrent	
Arrears (Control of the control of t			· ·	
Total For Department Wage Recurrent Wage Recurrent				
Total For Department Wage Recurrent Wage Recurrent			AIA	0
Wage Recurrent (
			Non Wage Recurrent	

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
		Arrears	0
		AIA	0
Departments			
Department: 09 National Forestry Reso	ources Research Institute		
Outputs Provided			
Budget Output: 02 Research extension	interface promoted and strengthened		
500 farmers exposed to salient tree-crop	- Training content developed and	Item	Spent
interactions different farming systems 250 Stakeholder equiped with best	outreach strategy drafted Demonstrations designed and	221001 Advertising and Public Relations	1,916
agronomic practices for production of	appropriate sites identified in Kifu RF and prepared 56,000 clonal eucalyptus	221007 Books, Periodicals & Newspapers	1,533
quality avocado and annona germplasm		221008 Computer supplies and Information Technology (IT)	3,194
Reasons for Variation in performance			
Funds not available for training farmer.			
		Total	6,643
		Wage Recurrent	0
		Non Wage Recurrent	6,643
		Arrears	0
		AIA	0

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
Institute capacity to support agricultural	- Provision of Security/safety for Institute	Item	Spent
research and innovations enhanced through routine maintenance of vital	premises, assets & trials Refreshments to 69 staff members & 30 visitors.	211103 Allowances (Inc. Casuals, Temporary)	13,606
research support components	Institute capacity to support agricultural	221003 Staff Training	2,555
(infrastructure, equipment, machinery, vehicles, computers & ICT); re-tooling	research and innovations enhanced through: - Routine maintenance of 2	221009 Welfare and Entertainment	3,833
and guidance of staff	Office blocks, 1 conference Hall, 2 field vehicles 1 staff van,1 generator,1 water	221011 Printing, Stationery, Photocopying and Binding	6,387
	pump,5 computers,10,000 square meters	222001 Telecommunications	1,278
	of compound.	222002 Postage and Courier	511
		222003 Information and communications technology (ICT)	12,043
		223004 Guard and Security services	12,774
		223005 Electricity	25,494
		224004 Cleaning and Sanitation	12,052
		224005 Uniforms, Beddings and Protective Gear	1,278
		227001 Travel inland	10,221
		227004 Fuel, Lubricants and Oils	19,426
		228001 Maintenance - Civil	5,749
		228002 Maintenance - Vehicles	11,333
		228003 Maintenance – Machinery, Equipment & Furniture	4,471
Reasons for Variation in performance			
		Total	- ,
		Wage Recurrent	
		Non Wage Recurrent	143,007
		Arrears	0
		AIA	. 0
		Total For Department	149,650
		Wage Recurrent	0
		Non Wage Recurrent	149,650
		Arrears	0
		AIA	. 0
Departments			

Department: 10 National Livestock Resources Research

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

Vote: 142 National Agricultural Research Organisation

		~	
Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
One anti-tick candidate vaccine molecule		Item	Spent
validated in various agro-ecological zones of Uganda	1) Responses to Scientific audit queries	211103 Allowances (Inc. Casuals, Temporary)	100,720
One broad-spectrum chimeric anti-tick	on the On-station vaccine clinical trial	221003 Staff Training	56,116
vaccine formulated & evaluated	were reviewed and results were	221017 Subscriptions	12,605
Two FMD candidate vaccines evaluated. Four African swine fever candidate vaccine teste	satisfactory. The results were presented to Project PI and PL by UNCST.	222003 Information and communications technology (ICT)	45,513
	2) Two meetings for supervision of the	223004 Guard and Security services	9,336
	NARO Vaccine Production Facility were successfully held by the NARO engineer,	223005 Electricity	84,455
	Project contractor and PIs of ASF, FMD	224001 Medical Supplies	259,390
	and Anti-tick vaccine project.	224004 Cleaning and Sanitation	21,774
	3) NBC granted a conditional biosafety approval for a confined field trial (CFT).	224005 Uniforms, Beddings and Protective Gear	17,960
		224006 Agricultural Supplies	214,476
	4) Protocols for CFT were submitted to NDA for review.	225001 Consultancy Services- Short term	29,175
	TOTAL	227001 Travel inland	53,682
	5) Continued with optimization of	227004 Fuel, Lubricants and Oils	70,020
	conditions for amplification of p67 T.parva antigens.	228001 Maintenance - Civil	46,680
	6) Anti-tick Vaccine field protocol application reviewd and Endorsed by Institutional Animal Care and Use Committee (IACUC).	228002 Maintenance - Vehicles	81,690
		228003 Maintenance – Machinery, Equipment & Furniture	91,610
	7) 3000 doses of the Anti-tick vaccine produced and awaits clearance from UNCST.		
	8) 83 samples collected from 2 districts, screened them microscopically and have commenced on the DNA extraction		
	9) Cattle Trial farms available for field trial;		
	10) Approved consent forms availed for use by field trial team;		
	Progress on FMD vaccine: 1) The P67 T. Parva gene for 15 ECF positive samples from Pader and 11 from Kiryandongo district has been amplified by PCR;		
	2) field workshops have been carried out in 11 districts and a total of 418 samples collected, out of which 155 screened microscopically showed positive and being evaluated by molecular means;		
Reasons for Variation in performance			

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by	Cumulative Expenditures made by	UShs
	End of Quarter	the End of the Quarter to	Thousand
		Deliver Cumulative Outputs	

NARO engaged the national Authorities in vacine development i.e NBC, UNCST e.t.c. NARO sought the necessary approvals before further progress was conducted.

Work is still on going.

1,195,200	Total
0	Wage Recurrent
1,195,200	Non Wage Recurrent
0	Arrears
0	AIA

Total

1 105 200

Budget Output: 04 Agricultural research capacity strengthened

3 livestock laboratories and one forage conservation facility maintained.

Herbarium and two on-station field research facilities maintained.

10 research and production facilities maintained.

- 1) Three livestock laboratories and one forage conservation facility maintained.
- 2) Two on-station field research facilities maintained.
- 3) Four livestock production facilities maintained.
- 4) Six research handling facilities maintained.
- 5) Physical resources (offices, laboratories, field machinery, office equipment) secured, maintained and fully functional

Item	Spent
211103 Allowances (Inc. Casuals, Temporary)	47,216
221001 Advertising and Public Relations	4,786
221007 Books, Periodicals & Newspapers	638
221008 Computer supplies and Information Technology (IT)	6,381
221009 Welfare and Entertainment	9,571
221011 Printing, Stationery, Photocopying and Binding	10,209
221012 Small Office Equipment	2,757
222001 Telecommunications	2,552
223005 Electricity	3,828
224004 Cleaning and Sanitation	5,743
226001 Insurances	817
227001 Travel inland	7,687
227004 Fuel, Lubricants and Oils	12,761
228001 Maintenance - Civil	3,541
228002 Maintenance - Vehicles	11,485
228003 Maintenance – Machinery, Equipment & Furniture	4,275
273102 Incapacity,death benefits and funeral	12,761

Reasons for Variation in performance

Total	147,005
Wage Recurrent	0
Non Wage Recurrent	147,005
Arrears	0
AIA	0
Total For Department	1,342,205
Wage Recurrent	0

expenses

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
		Non Wage Recurrent	1,342,205
		Arrears	0
		AIA	0
Departments			
Department: 11 National Semi arid Res	sources Research		
Outputs Provided			
Budget Output: 01 Generation of agric	ultural technologies		
15 sesame lines evaluated, 30 accessions	Progress on sesame:	Item	Spent
of cowpea and 20 of pigeon pea characterized, one suitable soil & water	Five multi-locational trials were established and trials monitored in Serere,	211103 Allowances (Inc. Casuals, Temporary)	26,515
conservation strategy generated &	Arua, Lira, Kitgum and Mayuge. Trials	224006 Agricultural Supplies	30,174
recommended for cotton production, Two farmer preferred cotton lines with	were monitored and field data collected.	227001 Travel inland	63,669
industrial attributes identified f	Progress on cotton: 16 cotton lines planted in NaSARRI were monitored and data collection on- going	227004 Fuel, Lubricants and Oils	28,040
	Seven cotton varieties- 4 of them from Zimbabwe (SZ 931Y, QM 301, MS-2, MS-1), and 3 of them from Uganda (BPA-2015 A, BPA-2015 B, and BPA-2002) were established and monitored and data collection on-going at NaSARRI.		
Reasons for Variation in performance			
Work on-going			
		Total	148,397
		Wage Recurrent	0
		Non Wage Recurrent	148,397
		Arrears	0
		AIA	0

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
1 Biopesticides developed and protocols		Item	Spent
produced 14 acres of compound mowed and 12	Morphologically identified species tested for their efficacy in the laboratory at	211103 Allowances (Inc. Casuals, Temporary)	17,432
office blocks cleaned Four dissemination workshops	50ml / 100 ml /150ml/200mls per Ha. Between 150 -200mls are more	213002 Incapacity, death benefits and funeral expenses	5,099
conducted, 12 committee meetings held	promising 2More pure cultures of	221001 Advertising and Public Relations	5,099
	bacterial and fungal isolates produced	221007 Books, Periodicals & Newspapers	3,825
	14 acres of compound mowed and 3 office blocks maintained to create	221008 Computer supplies and Information Technology (IT)	11,198
	enabling environment for research One	221009 Welfare and Entertainment	7,649
	scientific committee meetings conducted	221011 Printing, Stationery, Photocopying and Binding	8,924
	to guide research	222001 Telecommunications	2,549
		223004 Guard and Security services	7,649
		223005 Electricity	12,748
		223006 Water	2,550
		224004 Cleaning and Sanitation	7,649
		226001 Insurances	761
		227001 Travel inland	10,897
		227004 Fuel, Lubricants and Oils	8,149
		228002 Maintenance - Vehicles	10,199

Reasons for Variation in performance

Need for further efficacy testing to determine the best rate of application.

Only 3 meetings conducted vs the envisage 9 because of lack of funds to facilitated the committees.

Total	122,372
Wage Recurrent	0
Non Wage Recurrent	122,372
Arrears	0
AIA	0
Total For Department	270,768
Wage Recurrent	0
Non Wage Recurrent	270,768
Arrears	0
AIA	0

Departments

Department: 12 National Laboratories Research

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
3 Value added products from maize,	3 Value added product from maize,	Item	Spent
beans, vegetables for commercialization developed. Propagation systems	beans, vegetables for commercialization developed. Propagation systems	211103 Allowances (Inc. Casuals, Temporary)	58,684
developed for two plant genetic	developed for two plant genetic	221009 Welfare and Entertainment	758
	resources,500 genotypes from banana Hybrid seed generated.	221011 Printing, Stationery, Photocopying and Binding	3,322
		222001 Telecommunications	583
		223005 Electricity	9,520
		224004 Cleaning and Sanitation	874
		224006 Agricultural Supplies	127,318
		227001 Travel inland	60,648
		227004 Fuel, Lubricants and Oils	5,412
		228002 Maintenance - Vehicles	700
		228003 Maintenance – Machinery, Equipment & Furniture	1,749
Reasons for Variation in performance			

Reasons for Variation in performance

- Work still on-going.
- Available resources (funds for materials and manpower) limited the scope of intended work.

		Total	269,564
		Wage Recurrent	0
		Non Wage Recurrent	269,564
		Arrears	0
		AIA	0
Budget Output: 02 Research extension	n interface promoted and strengthened		
Agriculture Research Information	An assortment of Agriculture Research	Item	Spent
Education Communication material developed and disseminated.	Information Education Communication material developed and disseminated during 2 exhibitions	211103 Allowances (Inc. Casuals, Temporary)	11,100
developed and disseminated.		221011 Printing, Stationery, Photocopying and Binding	8,520
		224006 Agricultural Supplies	126,900
		227001 Travel inland	24,500
Reasons for Variation in performance			
		Total	171,020
		Wage Recurrent	0
		Non Wage Recurrent	171,020
		Arrears	0
		AIA	0

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
'4 reaseach management committees conducted to guide research Procedure for application of procedures	Research agenda strengthened with two research management committees conducted to guide research	Item	Spent
		211103 Allowances (Inc. Casuals, Temporary)	56,049
and polices Institution machinery and		221001 Advertising and Public Relations	10,905
equipment maintained.	Institutional research machinery and equipment maintained.	221003 Staff Training	5,500
	equipment maintained.	221007 Books, Periodicals & Newspapers	2,798
		221008 Computer supplies and Information Technology (IT)	12,935
		221009 Welfare and Entertainment	10,989
		221011 Printing, Stationery, Photocopying and Binding	10,490
		221012 Small Office Equipment	2,914
		222001 Telecommunications	2,160
		222002 Postage and Courier	294
		223004 Guard and Security services	20,867
		223005 Electricity	26,844
		227001 Travel inland	27,769
		227004 Fuel, Lubricants and Oils	35,312
		228001 Maintenance - Civil	5,280
		228002 Maintenance - Vehicles	24,805
		228003 Maintenance – Machinery, Equipment & Furniture	6,735
Reasons for Variation in performance		228004 Maintenance – Other	3,788
Reusons for variation in performance			
		Total	266,429
		Wage Recurrent	t (
		Non Wage Recurrent	266,429
		Arrears	s (
		AIA	. (
		Total For Department	707,013
		Wage Recurrent	: (
		Non Wage Recurrent	707,013
		Arrears	;
		AIA	(
Departments			
Department: 13 Abi ZARDI Outputs Provided			

 $Outputs\ Provided$

Budget Output: 02 Research extension interface promoted and strengthened

Vote: 142 National Agricultural Research Organisation

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
Two technologies generated for increased		Item	Spent
production and productivity Five innovations developed	improved seed for rice, and soybean. And also progress Five innovations developed.	221001 Advertising and Public Relations	8,046
The mile (wilding activities)	9.71 tons of foundation seed produced (rice-nerica 4-1708kg; soybean(maksoy	221008 Computer supplies and Information Technology (IT)	5,364
	3N) 4700 kg;Maize (longe 5)-3300kgs).	221011 Printing, Stationery, Photocopying and Binding	5,364
	The innovations developed included cassava bread and cakes, cassava		
	replacing wheat in bread and cakes.		
	Cassava planting materials were		
	developed and disseminated to farmers.		
	The two farm Clinics held at ABI ZARDI		
	that has so far attracted several		
	stakeholders and eight different key commodities have been showcased their		
	entire value chain. Lessons learnt will be		
	scaled out to the PDM and other beneficiaries.		
Reasons for Variation in performance	oenerioni de la companya de la compa		
1 3			
		Total	18,773
		Wage Recurrent	0
		Non Wage Recurrent	18,773
		Arrears	0
		AIA	0
Budget Output: 04 Agricultural research		•	g .
Four advisory committee and PARI directors forum, institute committee meetings and two 02) review and planning meetings held to guide research activities	Zonal research agenda strengthened by two advisory committee and PARI directors forum, institute committee meetings conducted.	Item	Spent
		211103 Allowances (Inc. Casuals, Temporary)	24,136
		221008 Computer supplies and Information Technology (IT)	2,682
		221011 Printing, Stationery, Photocopying and Binding	5,364
		222001 Telecommunications	8,800
		223004 Guard and Security services	4,026
		223005 Electricity	10,392
		223006 Water	4,023
		224004 Cleaning and Sanitation	4,023
		224006 Agricultural Supplies	8,046
		226001 Insurances	1,159
		227001 Travel inland	16,091
		227004 Fuel, Lubricants and Oils	8,183
		228001 Maintenance - Civil	6,705
		228002 Maintenance - Vehicles	5,431

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by	Cumulative Expenditures made by	UShs
	End of Quarter	the End of the Quarter to	Thousand
		Deliver Cumulative Outputs	

Reasons for Variation in performance

Total	109,058
Wage Recurrent	0
Non Wage Recurrent	109,058
Arrears	0
AIA	0
Total For Department	127,830
Total For Department Wage Recurrent	127,830 0
•	
Wage Recurrent	0

Departments

Department: 14 Bulindi ZARDI

Outputs Provided

Budget Output: 02 Research extension interface promoted and strengthened

Four technology dissemination Campaigns conducted in the zone 5 technology dissemination Campaigns conducted in the four districts. 373 farmers (93 in Kagadi local Government, 94 in Bulindi Model, horticulture and apiculture youth trainees, and 190 in Kiryandongo LG) have been exposed to various technologies including, climate smart horticultural production and value addition, climate smart apiculture, livestock production including pasture establishment.

Item	Spent
224001 Medical Supplies	2,600
224006 Agricultural Supplies	3,750

Reasons for Variation in performance

Increased enthusiasm in improve planting material and agricultural information across planting seasons.

6,350	Total
0	Wage Recurrent
6,350	Non Wage Recurrent
0	Arrears
0	AIA

Vote: 142 National Agricultural Research Organisation

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
Strategically focused research activities	- Research agenda strengthened holding	Item	Spent
supported by 4 advisory meetings 8 technologies availed to farmers for	three advisory committee meetings.	211103 Allowances (Inc. Casuals, Temporary)	15,097
Improved linkage between Bulindi	- Bulindi ZARDI physical resources	221001 Advertising and Public Relations	9,945
ZARDI, and the communities. 1 Annual report generated, disseminated	(offices, laboratories, field machinery, office equipment) secured, maintained and fully functional.	221007 Books, Periodicals & Newspapers	928
and archived Equip the institution ICT		221008 Computer supplies and Information Technology (IT)	13,261
Equip the institution Te T	- 812 farmers (youth, women and men)	221009 Welfare and Entertainment	7,380
	have been exposed to improved technologies during 2 farm clinics.	221011 Printing, Stationery, Photocopying and Binding	6,630
	- Institute reports (quarterly and annual)	221012 Small Office Equipment	6,630
	developed and submitted to NARO	223005 Electricity	22,891
	Secretariat.	224001 Medical Supplies	3,400
		224006 Agricultural Supplies	3,260
		226001 Insurances	1,326
		227001 Travel inland	8,619
		227004 Fuel, Lubricants and Oils	9,889
		228002 Maintenance - Vehicles	16,576
Reasons for Variation in performance			
		Total	125,831
		Wage Recurrent	C
		Non Wage Recurrent	125,831
		Arrears	(
		AIA	
		Total For Department	
		Wage Recurrent	
		Non Wage Recurrent	
		Arrears	
Departments		AIA	(
Department: 15 Kachwekano ZARDI			
Outputs Provided			
Budget Output: 01 Generation of agric	ultural technologies		
20 sorghum genotypes generated	5 sorghum genotypes generated 2	Item	Spent
6 demonstration sites established in 6 districts in SWHAEZ with at least 3 new	demonstration sites established in 6 districts in SWHAEZ with at least one	211103 Allowances (Inc. Casuals, Temporary)	8,238
potato varieties	new potato varieties.	224001 Medical Supplies	14,073
•	•	227001 Travel inland	7,258
		227004 Fuel, Lubricants and Oils	2,994
Reasons for Variation in performance			

Vote: 142 National Agricultural Research Organisation

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
More varieties and on farm demonstration	as were not possible due to limited resource	s (funds, vehicles and personnel) to undertake	them.
		Total	32,562
		Wage Recurrent	0
		Non Wage Recurrent	32,562
		Arrears	0
		AIA	0
Budget Output: 02 Research extension	interface promoted and strengthened		
6 Demonstration sites established in 6	6 demonstrations on new potato varieties	Item	Spent
districts in SWHAEZ with at least 3 new potato varieites	planted, monitored and growth and yield data collected analyzed and presented	221001 Advertising and Public Relations	3,512
potato varietes	data concered analyzed and presented	224006 Agricultural Supplies	1,342
Reasons for Variation in performance			
		Total	4,854
		Wage Recurrent	0
		Non Wage Recurrent	4,854
		Arrears	0
		AIA	0
Budget Output: 04 Agricultural research	ch capacity strengthened		
Enhancing institutional research capacity, I		Item	Spent
safe through routine monitoring (4trips), safe guarding assets, servicing of		211103 Allowances (Inc. Casuals, Temporary)	14,704
computers (20times) and infrastructure		221001 Advertising and Public Relations	2,683
vehicles(7) machinery (4) maintenance.		221007 Books, Periodicals & Newspapers	979
		221008 Computer supplies and Information Technology (IT)	4,789
		221009 Welfare and Entertainment	8,549
		221011 Printing, Stationery, Photocopying and Binding	4,025
		221012 Small Office Equipment	1,342
		222001 Telecommunications	1,073
		223005 Electricity	10,061
		223006 Water	3,354
		224004 Cleaning and Sanitation	12,940
		226001 Insurances	671
		227001 Travel inland	6,983
		227004 Fuel, Lubricants and Oils	10,061
		228002 Maintenance - Vehicles	8,049
Reasons for Variation in performance			
		Total	90,260

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
		Wage Recurrent	0
		Non Wage Recurrent	90,260
		Arrears	0
		AIA	0
		Total For Department	127,676
		Wage Recurrent	0
		Non Wage Recurrent	127,676
		Arrears	0
_		AIA	0
Departments			

Department: 16 Mukono ZARDI

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

2 agronomic practices of indigenous tomato, onions and Bambara nuts cultivars established

1 effective weed management options for groundnuts production identified and packaged for

- 1 bio-pesticides and one fertilizer determined
- 1 effective weed management
- 1 agronomic practices of indigenous tomato, onions and Bambara nuts cultivars initiated 1 effective weed management options for groundnuts production identified and packaged.
- One on-station tomato experiment using variety MV was established using three (3) organic foliar fertilizers (Bio-Nik, Nugro and Nutriplant), soluble NPK (19:19:19), control. Data collected on plant height, pest and disease incidence, number of fruits per plant, weight of fruits per plant fruits. Nutriplant had the most vigorous plants with an average plant height of 67.27 cm followed by Nugro (63.0 cm), NPK (62.77 cm), Bio-Nik (58.3 cm) and the control (60.35); The average number of fruits per plant was not significantly different for the different fertilizers but Nugro had the heighest (6.63) followed by NPK (6.6), Nutri (6.33), Bio-Nik (6.20) and the control 6.1). Average weight of fruits per plant was not significantly different but Nugro had the heighest weight of fruits per plant (0.93 Kg), follwood by Nutriplant (0.657 kg), NPK (0.583 kg), Bio-Nik (0.513 kg) and the control 0.48 kg). Late blight was the common disease across the treatments but there were no significant different in the incidence and severity while the leaf miner was the main pest

Item	Spent
221011 Printing, Stationery, Photocopying and Binding	8,300
222001 Telecommunications	2,964
223004 Guard and Security services	18,972
223005 Electricity	29,643
223006 Water	3,557
224006 Agricultural Supplies	14,824
227001 Travel inland	4,743
227004 Fuel, Lubricants and Oils	17,786

Reasons for Variation in performance

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
		Total	100,788
		Wage Recurrent	0
		Non Wage Recurrent	100,788
		Arrears	0
		AIA	0
Budget Output: 02 Research extension	interface promoted and strengthened		
120 key market chain actors identified.	60 key market chain actors identified. 1	Item	Spent
4 potential market opportunities analyzed	potential market opportunities analyzed 500 stakeholders reached 2 partnerships	211103 Allowances (Inc. Casuals, Temporary)	2,750
1000 stakeholders reached 2 partnerships established	established 1 potential market opportunities analyzed 500 stakeholders	224006 Agricultural Supplies	4,000
4 potential market opportunities analyzed	engaged for improved technology promotion		
1000 stakeholders			
Reasons for Variation in performance			
		Total	6,750
		Wage Recurrent	0
		Non Wage Recurrent	6,750
		Arrears	0

0

AIA

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
Enhancement and maintained of ICT	Mukono ZARDI physical resources	Item	Spent
Infrastructure 2 partnerships established	enhanced (offices, laboratories, field machinery, office equipment) secured,	211103 Allowances (Inc. Casuals, Temporary)	11,857
1000 stakeholders reached and 2	maintained and fully functional. A community radio talk show was held at Ntawo, which reach about 20 local	221001 Advertising and Public Relations	5,614
partnerships established 120 key market chain actors identified		221003 Staff Training	1,500
4 potential market opportunities analyzed		221007 Books, Periodicals & Newspapers	2,372
4 M&E reports briefs s	One potential market opportunities	221008 Computer supplies and Information Technology (IT)	10,330
	analyzed 1 M&E report brief developed to guide manageent of research	221009 Welfare and Entertainment	7,114
	Enhancement and maintained of ICT Infrastructure 1 partnership established	221011 Printing, Stationery, Photocopying and Binding	2,372
	1000 stakeholders reached and 2	222002 Postage and Courier	1,779
	partnerships established 120 key market chain actors identified	224004 Cleaning and Sanitation	13,865
		226001 Insurances	830
		228001 Maintenance - Civil	15,375
		228002 Maintenance - Vehicles	15,693
		228003 Maintenance – Machinery, Equipment & Furniture	6,522
		228004 Maintenance - Other	2,964
		273102 Incapacity,death benefits and funeral expenses	1,779
Reasons for Variation in performance			
		Total	99,963
		Wage Recurrent	0
		Non Wage Recurrent	99,963
		Arrears	0
		AIA	. 0
		Total For Department	207,500
		Wage Recurrent	0
		Non Wage Recurrent	207,500
		Arrears	0
		AIA	. 0
Departments			
Department: 17 Ngetta ZARDI			

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
1 effective technique for estimating weed	1) Performance of 3 seed bank estimation	Item	Spent
seed quantity and type in soil developed, 1 integrated approach for managing	methods on station reported. The green house germination estimation method	211103 Allowances (Inc. Casuals, Temporary)	10,322
weeds in maize under CA systems	performed best, followed by the cloth	221001 Advertising and Public Relations	3,440
developed 1 mango fruitfly IPM strategy developed	bag and lastly flotation method.	221011 Printing, Stationery, Photocopying and Binding	203
2 acres of at least four Indigenous fruit trees orcha	2) Two acres of four Indigenous fruit trees (mangos, citrus, shea nut butter)	222001 Telecommunications	1,142
uces orem	orchards maintained on station. Data	224001 Medical Supplies	4,162
	collection on-going on mango fruit.	224006 Agricultural Supplies	15,076
		227001 Travel inland	13,542
Reasons for Variation in performance			
Work still on-going on mango fruitfly IPM	A strategy.		
		Total	47,886
		Wage Recurrent	0
		Non Wage Recurrent	47,886
		Arrears	0
		AIA	0
Budget Output: 02 Research extension	interface promoted and strengthened		
4 technologies promoted with in the zone		Item	Spent
	multiplication and demonstration fields were prepared, maintained and promoted	221001 Advertising and Public Relations	1,328
	on station to different stakeholders.	221008 Computer supplies and Information Technology (IT)	3,984
		224006 Agricultural Supplies	9,902
Reasons for Variation in performance			
On farm demonstrations were not possible	e due to limited resources (funds, vehicles a	nd personnel) to undertake them	
		Total	15,213
		Wage Recurrent	0
		Non Wage Recurrent	15,213
		Arrears	0
		AIA	0

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
Institutional research infastructures	Ngetta ZARDI physical resources	Item	Spent
maintained Research undertakings quidded through 4	and fully functional - two administrative, policy and all mandatory reports prepared and submitted Staff wages and security	211103 Allowances (Inc. Casuals, Temporary)	2,997
research committees		221008 Computer supplies and Information Technology (IT)	6,774
		221011 Printing, Stationery, Photocopying and Binding	3,320
	quarter.	222001 Telecommunications	664
		223004 Guard and Security services	11,953
		223005 Electricity	4,556
		223006 Water	5,119
		224004 Cleaning and Sanitation	3,320
		227001 Travel inland	8,500
		227004 Fuel, Lubricants and Oils	10,626
		228002 Maintenance - Vehicles	10,625
Reasons for Variation in performance			
		Total	68,453
		Wage Recurrent	0
		Non Wage Recurrent	68,453
		Arrears	0
		AIA	0
		Total For Department	131,552
		Wage Recurrent	0
		Non Wage Recurrent	131,552
		Arrears	0
_		AIA	0
Departments			
Department: 18 Nabium ZARDI			
Outputs Provided			

Budget Output: 01 Generation of agricultural technologies

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand			
1,000 kgs of better performing pasture	- 250 kgs of better performing pasture	Item	Spent			
seed (32 acres of planting material) species (Chloris gayana, Centrocema,	seed (8 acres of planting material) species (Chloris gayana, Centrocema, for	211103 Allowances (Inc. Casuals, Temporary)	11,951			
species (Chioris gayana, Centrocenia,	increased production and productivity of	221001 Advertising and Public Relations	433			
115 cattles; 30 Sahiwal and 15 friesian	livestock 115 cattles; 30 Sahiwal and 15 friesian cattle crosses and 70 zebu cattle multiplied on-station to increase	221008 Computer supplies and Information Technology (IT)	1,891			
cattle crosses and 70 zebu cattle multiplied on-station to increase availability to farmers						221011 Printing, Stationery, Photocopying and Binding
availability to farmers		224001 Medical Supplies	4,611			
		224006 Agricultural Supplies	14,938			
		227001 Travel inland	9,118			
		227004 Fuel, Lubricants and Oils	3,317			
		228002 Maintenance - Vehicles	2,554			

Reasons for Variation in performance

Under performance due to resource constraints (poor running vehicles, no funds and available personnel)to establish pasture seed fields. Under performance was due to early on-set of drought and poor germinability of Chloris and Cenchurus seeds, only 4 acres grass established (3 acres of Bracharia brizantha and 01 acre of Napier grass)and maintained on-station

49,674	Total
0	Wage Recurrent
49,674	Non Wage Recurrent
0	Arrears
0	AIA

Budget Output: 02 Research extension interface promoted and strengthened

Promotion and popularization of 4 selected crop, natural resources and animal value chain products and biproducts in NEAZ

- 1) NARO technologies exhibited during the Ist Eastern Agricultural Show 4th -6th March, 2022 at Awoja Riverside Farm Soroti. These included, soil testing kit demonstration,the soil fertility amendment material and packages available, apiary products and biproducts,pastures preservation technologies.
- 2) Two training carried out on-station, involving 50 stakeholders from Moroto, Nabilatuk, Nakapiripirit, Abim and Amudat district.

Item	Spent
211103 Allowances (Inc. Casuals, Temporary)	1,646
221001 Advertising and Public Relations	398
221003 Staff Training	265
221008 Computer supplies and Information Technology (IT)	398
221011 Printing, Stationery, Photocopying and Binding	398
224001 Medical Supplies	995
224006 Agricultural Supplies	1,659
227001 Travel inland	796
227004 Fuel, Lubricants and Oils	398
228002 Maintenance - Vehicles	531

Reasons for Variation in performance

Total	7,483
Wage Recurrent	0
Non Wage Recurrent	7,483

Vote: 142 National Agricultural Research Organisation

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
		Arrears	0
		AIA	0
Budget Output: 04 Agricultural research	ch capacity strengthened		
Local, regional, national and international cooperation on and access to science, technology,	tional -Nabuin ZARDI Physical resources (offices, laboratories, field machinery, office equipment) secured, maintained and fully functional Held a mini exhibition when the first son visited Nabuin ZARDI.	Item	Spent
		211103 Allowances (Inc. Casuals, Temporary)	12,101
innovation and knowledge sharing		221001 Advertising and Public Relations	1,062
enhanced.		221007 Books, Periodicals & Newspapers	664
	- Nabuin ZARDI Physical resources	221009 Welfare and Entertainment	1,990
	(offices, laboratories, field machinery, office equipment) secured, maintained and fully functional.- Participated one farm clinic to facilitate	221011 Printing, Stationery, Photocopying and Binding	2,654
		222002 Postage and Courier	430
		223004 Guard and Security services	4,591
	access to science, technology, innovation thru knowledge sharing.	223005 Electricity	3,001
	tha knowledge sharing.	224004 Cleaning and Sanitation	2,861
		224005 Uniforms, Beddings and Protective Gear	843
		226001 Insurances	508
		227001 Travel inland	3,980
		227004 Fuel, Lubricants and Oils	15,192
		228001 Maintenance - Civil	5,307
		228002 Maintenance - Vehicles	13,267
		228003 Maintenance – Machinery, Equipment & Furniture	5,307
		273102 Incapacity,death benefits and funeral expenses	1,062
Reasons for Variation in performance			
		Total	74,816
		Wage Recurrent	0
		Non Wage Recurrent	74,816
		Arrears	0
		AIA	0
		Total For Department	131,972
		Wage Recurrent	
		Non Wage Recurrent	
		Arrears	0
Domonto		AIA	0
Departments Departments 10 Mhorore 7 ABDI			
Department: 19 Mbarara ZARDI Outputs Provided			

Vote: 142 National Agricultural Research Organisation

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
Budget Output: 01 Generation of agric	ultural technologies		
4 Carbohydrate and cellulose digesting bacteria isolated 1 detailed research protocol developed. 1 research protocol developed and pretested in 5 farmer groups of 2 districts 1 appropriate formula of carbohydrate & cellulose digesting bacteria packaged &	Multiplication and characterization of 4	Item	Spent
	2 districts One research protocol developed and pydrate & pretested in 5 farmer groups of 2 districts	211103 Allowances (Inc. Casuals, Temporary)	12,266
		223004 Guard and Security services	670
		224001 Medical Supplies	10,054
		224006 Agricultural Supplies	13,607
		227001 Travel inland	9,049
		227004 Fuel, Lubricants and Oils	5,027
Reasons for Variation in performance			
Work on-going.			
		Total	50,672
		Wage Recurrent	0
		Non Wage Recurrent	50,672
		Arrears	0
		AIA	0
Budget Output: 02 Research extension	interface promoted and strengthened		
Sixteen research (16) technologies delivered to uptake pathways for increased production and productivity. Reasons for Variation in performance	1 tool to guide farmers in sustainable soil fertility management and conservation developed for enhanced banana productivity to increase household incomes among farmers in the 6 of the 16 districts of South Western Agro Ecological Zone. 10 dairy cattle(5 heifers and 5 young bulls) of Improved genetics availed to farmers. One cattle feed supplement (500 kgs) delivered to farmers.	Item 222003 Information and communications technology (ICT) 224006 Agricultural Supplies	Spent 1,806 4,215
reasons for ranamon in performance			
		Total	6,022
		Wage Recurrent	-,
		Non Wage Recurrent	
		Arrears	
Budget Output: 04 Agricultural research		AIA	0

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Maintenance of institute IT infrastructures 15 institute research facilities maintained Assorted institute machinery maintained 4 rounds in the year - Mbarara ZARDI physical resources (offices, laboratories, field machinery, office equipment) secured, maintained and fully functional 320 Experimental animals maintained.	Item 211103 Allowances (Inc. Casuals, Temporary) 221001 Advertising and Public Relations	Spent
15 institute research facilities maintained office equipment) secured, maintained Assorted institute machinery maintained and fully functional 320 Experimental		
Assorted institute machinery maintained and fully functional 320 Experimental	221001 Advertising and Public Relations	6,044
4 rounds in the year animals maintained.		2,205
	221008 Computer supplies and Information Technology (IT)	3,352
	221009 Welfare and Entertainment	4,022
	221011 Printing, Stationery, Photocopying and Binding	5,362
	222001 Telecommunications	1,341
	223004 Guard and Security services	8,044
	223005 Electricity	5,362
	223006 Water	2,681
	224004 Cleaning and Sanitation	5,362
	226001 Insurances	811
	227001 Travel inland	8,044
	227004 Fuel, Lubricants and Oils	6,705
	228001 Maintenance - Civil	2,011
	228002 Maintenance - Vehicles	7,882
	228003 Maintenance – Machinery, Equipment & Furniture	2,011
Reasons for Variation in performance		
	Total	71,236
	Wage Recurrent	0
	Non Wage Recurrent	71,236
	Arrears	0
	AIA	0
	Total For Department	127,930
	Wage Recurrent	
	Non Wage Recurrent	
	Arrears	
	AIA	0
Departments		
Department: 20 Buginyaya ZARDI		

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
2 effective foundation seed systems for Orange Fleshed Sweet Potato validated & promoted for utilization of Vit A rich food in Busoga sub region 10 t of elite breeders seed for niche	1) 0.4 ha of Narospot 8 (orange fleshed	Item	Spent
	Ikulwe satellite station.	211103 Allowances (Inc. Casuals, Temporary)	8,133
	2) 4.5 tonnes of coffee harvested, 1 tonne	221011 Printing, Stationery, Photocopying and Binding	573
products of elite arabica coffee &	reserved for seed.	224001 Medical Supplies	4,142
brewing cassava varieties availed for	Elite breeder seed of 9 candidate maize	224006 Agricultural Supplies	24,359
	QPM varieties Q150114, Q444638,	227001 Travel inland	13,175
	Q160138, Q160114, Q444614, Q150138, Q160121, Q150121 and Q160152	227004 Fuel, Lubricants and Oils	6,113
	selected and due for planting in farmer participatory demos, and for QPM validation test.	228002 Maintenance - Vehicles	880
	3) Four fields of cassava varieties fields were prepared and maintained on station.		
Reasons for Variation in performance			
		Total	57,373
		Wage Recurrent	0
		Non Wage Recurrent	57,373
		Arrears	0
		AIA	0
Budget Output: 02 Research extension	interface promoted and strengthened		
4 fish farmers supported in improved fish		Item	Spent
farming 6 niche products and accompanying	fish farming One niche products and accompanying productivity improvement	211103 Allowances (Inc. Casuals, Temporary)	10,069
productivity improvement identified Economic value from use of new coffee	identified Economic value from use of new coffee berry disease disease	221011 Printing, Stationery, Photocopying and Binding	697
berry disease disease management options in Mt. Elgon	management options in Mt. Elgon.	224001 Medical Supplies	4,423
options in Mt. Eigon	Five fish farmers and three extension	224006 Agricultural Supplies	28,078
	workers trained on fish farm management	227001 Travel inland	16,039
Pageons for Variation in nonformance	to Mbale fish fry centre	227004 Fuel, Lubricants and Oils	7,965
Reasons for Variation in performance			
		Total	67,269
		Wage Recurrent	0
		Non Wage Recurrent	67,269
		Arrears	0
		AIA	0

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
4agriculture technologies developed &	2 hybrid stakeholder engagement held (World food day and Seeds of Gold) 35 kgs and 25 kgs of Chloris gayana seed harvested for Nabugimbi Khyehutana	Item	Spent
disseminated,4agriculture technologies developed & disseminated for uptake,1		211103 Allowances (Inc. Casuals, Temporary)	12,456
three sets of furniture and fittings		221007 Books, Periodicals & Newspapers	1,780
acquired, Assorted ICT Infrastructure	women's group and Wanak farmers	221009 Welfare and Entertainment	1,187
maintained and services provided for technology generation and	group respectively. Buginyanya ZARDI physical resources (offices, laboratories, field machinery, office equipment)	221011 Printing, Stationery, Photocopying and Binding	4,152
	secured, maintained and fully functional	221012 Small Office Equipment	2,373
		222001 Telecommunications	4,745
		222003 Information and communications technology (ICT)	4,745
		223004 Guard and Security services	5,932
		223005 Electricity	3,559
		223006 Water	3,559
		224004 Cleaning and Sanitation	2,966
		226001 Insurances	1,187
		227001 Travel inland	5,935
		227004 Fuel, Lubricants and Oils	8,733
		228001 Maintenance - Civil	2,966
		228002 Maintenance - Vehicles	8,898
		228003 Maintenance – Machinery, Equipment & Furniture	2,966
		228004 Maintenance - Other	2,966
		273102 Incapacity,death benefits and funeral expenses	1,187
Reasons for Variation in performance			
		Total	82,28
		Wage Recurrent	
		Non Wage Recurrent	82,28
		Arrears	
		AIA	
		Total For Department	206,92
		Wage Recurrent	
		Non Wage Recurrent	206,92
		Arrears	
		AIA	
Departments			
Department: 21 Rwebitaba ZARDI			
Outputs Provided			

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
1000 open pollinated seeds collected	A total of 3000 open pollinated tea	Item	Spent
from selected 5 elite parents from the existing	seedlings collected and established in the screen house at Rwebitaba TRC.	211103 Allowances (Inc. Casuals, Temporary)	34,569
germplasm conserved identified 40 tea clones characterized for		221011 Printing, Stationery, Photocopying and Binding	12,173
biochemical attributes		224001 Medical Supplies	10,902
10,000 clonal plantlets from at least 4 selected clones multiplied		224006 Agricultural Supplies	108,696
selected clones multiplied		227001 Travel inland	29,862
		228002 Maintenance - Vehicles	10,538
		228003 Maintenance – Machinery, Equipment & Furniture	5,500
Reasons for Variation in performance			
		Total	*
		Wage Recurrent	0
		Non Wage Recurrent	212,239
		Arrears	0
		AIA	0
Budget Output: 02 Research extension	interface promoted and strengthened		
3 acres of early generation potato seed	6 acres of technological innovations	Item	Spent
7 tons and 1.5 tons of potato and bean foundation seed respectively	prepared and maintained on station. These included:	211103 Allowances (Inc. Casuals, Temporary)	2,340
	i) 3 acres of early generation potato seed.	221011 Printing, Stationery, Photocopying and Binding	535
•	ii) 3 acres of potato foundation seed and 1	224006 Agricultural Supplies	22,162
	acre of bean foundation prepared and maintained on station.	227001 Travel inland	1,671
	and or re-established and 200 farmers learn from them		
Reasons for Variation in performance			
Work still on-going			
		Total	-,
		Wage Recurrent	
		Non Wage Recurrent	26,708
		Arrears	0
		AIA	0

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
Two Advisory committee, two PARI		Item	Spent
director's forum meetings and and 12 institute committee meetings held to guide research activities The institute machinery and equipment maintained	director's forum meetings and and 9 institute committee meetings held to	211103 Allowances (Inc. Casuals, Temporary)	12,841
	guide research activities The institute	213002 Incapacity, death benefits and funeral expenses	1,348
	institute research facilities maintained	221007 Books, Periodicals & Newspapers	1,605
The institute research facilities maintained	and fully functional.	221009 Welfare and Entertainment	3,209
mamamed		221011 Printing, Stationery, Photocopying and Binding	4,011
		222001 Telecommunications	2,006
		223004 Guard and Security services	2,941
		223005 Electricity	3,209
		223006 Water	7,855
		224004 Cleaning and Sanitation	5,883
		224005 Uniforms, Beddings and Protective Gear	2,006
		226001 Insurances	354
		227001 Travel inland	11,783
		227004 Fuel, Lubricants and Oils	7,353
		228001 Maintenance - Civil	2,006
		228002 Maintenance - Vehicles	2,104
Reasons for Variation in performance			
		Total	70,509
		Wage Recurrent	0
		Non Wage Recurrent	70,509
		Arrears	0
		AIA	. 0
		Total For Department	309,455
		Wage Recurrent	. 0
		Non Wage Recurrent	
		Arrears	
		AIA	. 0
Departments			
Department: 26 NARO Internal Audit			

 $Outputs\ Provided$

Budget Output: 03 Internal Audit

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
1 end of year annual Audit performance	4 internal audit staff train in enterprise	Item	Spent
workshop conducted Eight Audit reports developed: One Off	risk management with IIA 6 Internal Audit staff together with the	221003 Staff Training	2,800
budget project audit report One audit report on assets utilization and safety, compliance with PPDA Act report One ICT, Human Resource and CGS value Reasons for Variation in performance	DG and a member of the A & R Committee attend the annual IIA		69,148
keasons for variation in performance			
		Total	al 71 948

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Reasons	tor	Variation	ın	performance
Trousons.	,	, an iaiton		perjormanee

71,948	Total
0	Wage Recurrent
71,948	Non Wage Recurrent
0	Arrears
0	AIA
= 4.040	
71,948	Total For Department
7 1,948 0	Total For Department Wage Recurrent
,	_
0	Wage Recurrent
0 71,948	Wage Recurrent Non Wage Recurrent

Departments

Department: 27 National Coffee Research Institute

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
4 high value coffee & cocoa products	1) 4 acres of mother garden maintained -	Item	Spent
prototypes developed 15 putative red blister resistant, 5 putative		211103 Allowances (Inc. Casuals, Temporary)	4,164
BCTB tolerant and 5 putative drought		221001 Advertising and Public Relations	1,893
tolerant accessions collected cloned for phenotyping	2) Cocoa pulp wine and chocolate prototypes developed at NaCORI. These	221007 Books, Periodicals & Newspapers	3,470
20,000 TC-derived coffee plantlets produced & delivered.	prototypes developed at NaCOKI. These protypes require further profiling for their constituent contents and certification /	221011 Printing, Stationery, Photocopying and Binding	202
Ide	quality mark.	224006 Agricultural Supplies	8,366
3) 457 cultures initiated •1,216 embryo cultures with on solid media • 101 liquid cultures in flasks • 195 RITAs with germinating embryos • 5,818 in humid poly-boxes • 3,604 coffee plantlets undergoing hardening & 15,558 coffee plants ready for planting	3) 457 cultures initiated	225001 Consultancy Services- Short term	24,769
	-,	227001 Travel inland	22,662
	227004 Fuel, Lubricants and Oils	9,245	
Reasons for Variation in performance			
Work on-going			
		Total	74,768
		Wage Recurrent	0
		Non Wage Recurrent	74,768
		Arrears	0
		AIA	0

Budget Output: 02 Research extension interface promoted and strengthened

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
Research and extension interface	1) Coffee technologies demonstrated at 3	Item	Spent
promoted and strengthened through maintenance of ITC infrastructure Promotion of better coffee varieties	farm clinics 10 kg of seed and 480 seedling of arabica coffee availed to farmers. 221008 Computer supplies and Information Technology (IT)	3,028	
	2) 90 cocoa farmers and extension workers trained on cocoa Good Agronomi Practices (GAPs) through NaCORI outreach programs and farmer/extension worker visits to NaCORI-Kituza Cocoa pulp wine and chocolate prototypes developed at NaCORI. These protypes require further profiling for their constituent contents and certification/quality mark 10.5 acres of cocoa fields at NaCORI-Kituza continously mantained by pruning, weed control and application of phytosanitary measures. 100 cocoa genotypes characterised for resistance to pests and diseases, pod and bean characteristics. Major cocoa pests onstation include psyllids, mirids and pod borers. Pod rot is the major cocoa disease identified.		

Reasons for Variation in performance

3,028	Total
0	Wage Recurrent
3,028	Non Wage Recurrent
0	Arrears
0	AIA

Budget Output: 04 Agricultural research capacity strengthened

(four) Advisory committee meetings, routine maintenance of research infrastructure, machinery and equipment, securing research activity sites and motivating staff notify more CWD pathogen specific primers from the

Research capacity strengthened through 4 NACORI human resources and physical resources (offices, laboratories, field machinery, office equipment) secured, maintained and fully functional - two administrative, policy and all mandatory reports prepared and submitted. - Staff wages and security services sourced and paid during the quarter.

Item	Spent
211103 Allowances (Inc. Casuals, Temporary)	14,822
221001 Advertising and Public Relations	3,155
227004 Fuel, Lubricants and Oils	60,882

Reasons for Variation in performance

78,859	Total
0	Wage Recurrent
78,859	Non Wage Recurrent
0	Arrears

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
		AIA	0
		Total For Department	156,655
		Wage Recurrent	0
		Non Wage Recurrent	156,655
		Arrears	0
		AIA	0
Development Projects			
Project: 1560 Relocation and Operation	nalisation of the National Livestock Resou	rces Research Institute (NALIRRI)	
Outputs Provided			
Budget Output: 01 Generation of agric	ultural technologies		
60 elite calves produced to constitute the		Item	Spent
elite research and embryo production hero at NaLIRRI	2) 70 elite calves for Jersey and Friesian	211103 Allowances (Inc. Casuals, Temporary)	110,000
2000 tons of silage and hay produced		224001 Medical Supplies	185,000
200 tons of grain soya, maize and	3) tons of Livestock feed, seed, silage	224006 Agricultural Supplies	295,000
sunflower produced	and hay and input for feed were produced as follows: a) 400 tons of silage produced	227001 Travel inland	55,000
MT tons of f		227004 Fuel, Lubricants and Oils	90,000
		228002 Maintenance - Vehicles	55,000
	produced; c) 20 tons of soya, 30 tons of maize produced. d) 1.5 MT of forage seed produced	228003 Maintenance – Machinery, Equipment & Furniture	200,000
Reasons for Variation in performance			
		Total	990,000
		GoU Development	990,000
		External Financing	0
		Arrears	0
		AIA	0

Capital Purchases

Budget Output: 72 Government Buildings and Administrative Infrastructure

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
1 office block with a store renovated at Nakyesasa. 10 km of road network to ease access to research facilities developed at Maruzi. One administration block constructed at Maruzi. 1 hay barn constructed at Nakyesasa 500 meter tarmack road constructed	1) Hay barn at Maruzi at 100%. Defects liability period expired. Contractor has addressed all the identified contractual snags. 2) Construction of Calf/Heifer Barn - Project Progress: 30%. Target progress- 45%. Chain link fence construction on going, hardcore filling done, casting the slab done, curing the slab on going, 3) Construction of Maruzi Access Road-8KM	Item 312101 Non-Residential Buildings 312102 Residential Buildings 312104 Other Structures	Spent 1,445,762 600,859 270,000
	Project Progress:85% Target progress-90% Mobilization. Shaping done, Murram filling done, Compaction of the murram on going, mitre drains provisions done, 4) Construction/ Extension of power line & Reticulation to the Maruzi Farm-Apac		
	Contract signed, contractor is mobilizing and securing clearances from UEDCL 5) Construction of Residential Houses at Maruzi - Contract to be signed. 6) Water extension project to Maruzi - Procurement process ongoing.		
	7) Extra works at Maruzi-Assorted works - Contract signed, contractor is mobilizing .		

Reasons for Variation in performance

- 1) Construction of a Main Admin Block at Maruzi Procurement process concluded but not signed due to limited funds.
- 2) Construction of a Grain Store and Hay Barn -

Procurement process concluded but not signed due to limited funds.

Total	2,316,621
GoU Development	2,316,621
External Financing	0
Arrears	0
AIA	0
Total For Project	3,306,621
GoU Development	3,306,621
External Financing	0
Arrears	0

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
		AIA	0
Development Projects			
Project: 1619 Retooling of National Agr	icultural Research Organization		
Outputs Provided			
Budget Output: 01 Generation of agricu	ıltural technologies		
50 technologies generated, 20 innovations		Item	Spent
developed to support improved production and productivity for	development of 50 technologies, 20 innovations to support improved	211103 Allowances (Inc. Casuals, Temporary)	1,218,976
accelerated agro Industrialization.	production and productivity for	221001 Advertising and Public Relations	117,298
	accelerated agro Industrialization.	221003 Staff Training	60,081
		221006 Commissions and related charges	449
		221008 Computer supplies and Information Technology (IT)	36,306
		221011 Printing, Stationery, Photocopying and Binding	72,664
		222001 Telecommunications	1,815
		222003 Information and communications technology (ICT)	157,110
		223005 Electricity	25,840
		223006 Water	2,678
		224001 Medical Supplies	553,453
		224005 Uniforms, Beddings and Protective Gear	1,929
		224006 Agricultural Supplies	2,228,219
		225001 Consultancy Services- Short term	254,138
		227001 Travel inland	1,633,083
		227004 Fuel, Lubricants and Oils	175,440
		228002 Maintenance - Vehicles	12,082
Reasons for Variation in performance		228003 Maintenance – Machinery, Equipment & Furniture	13,631

Reasons for Variation in performance

Narratives about the 50 technologies and 20 innovations have been reported under the Key vote performance highlights for the reporting period.

Total	6,565,192
GoU Development	6,565,192
External Financing	0
Arrears	0
AIA	0

Budget Output: 02 Research extension interface promoted and strengthened

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QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
Eight technology promotion interfaces	1) Progress on technology promotion	Item	Spent
conducted Eight automated technology promotion	interfaces: a) Implementation of the NARO seed Fair	211103 Allowances (Inc. Casuals, Temporary)	223,185
tools developed	by NACRRI and UBIC. Through	221001 Advertising and Public Relations	367,473
109 technological innovations delivered	partnerships, 8 seed companies	221003 Staff Training	24,850
to uptake pathways 20 partnerships developed for technology	participated and 456 farmers accessed quality seed.	221007 Books, Periodicals & Newspapers	5,979
multiplication and promotion	b) NARO institutes to conducted exhibitions during Parish Development	221008 Computer supplies and Information Technology (IT)	30,265
	model where 2650 participants were reached. A total of 21 technologies along	221011 Printing, Stationery, Photocopying and Binding	45,052
	6 commodities were showcased.c) Participated in the Eastern Agricultural	222001 Telecommunications	797
	Show. 1010 participants were reached and partnership linkages initiated. 41	222003 Information and communications technology (ICT)	223,034
	technologies along 7 commodities were	224001 Medical Supplies	27,757
	showcased. d) Participated in the in Harvest Money	224006 Agricultural Supplies	220,790
	Expo at Kololo where 7687 Farmers and	227001 Travel inland	545,961
	stakeholders were exposed to NARO technologies. 32 technologies along 8	227004 Fuel, Lubricants and Oils	15,998
	commodities were showcased.	228001 Maintenance - Civil	168,000
	e) Two technology promotion clinics conducted.	228002 Maintenance - Vehicles	5,768
	2) Progress on Automated technology promotion tools developed. One for technology incubation. And another for managing IP.	228003 Maintenance – Machinery, Equipment & Furniture	1,664
	3) Progress on Technological innovations delivered to uptake pathways. 72 technological innovations were delivered to uptake pathways.		
	4) Progress on Partnerships developed for technology multiplication and promotion – Six partnership engagements were conducted with stakeholders. Two with seed companies, Two on licensing, One on commercialization, One on intellectual property, three on NARO tech know-how to farming communities.		

Reasons for Variation in performance

Two automated technology promotion have prioritized due to resource availability. Six will be prioritized next financial year.

1,906,573	Total
1,906,573	GoU Development
0	External Financing
0	Arrears
0	AIA

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
16 research institutes research	1) Two technology promotion clinics	Item	Spent
infrastructure maintained Four institute laboratories supported for	conducted.	211103 Allowances (Inc. Casuals, Temporary)	49,605
accreditation	2) Two automated technology promotion	221001 Advertising and Public Relations	1,594
16 laboratory equipment naintained/serviced	tools developed.	221003 Staff Training	372,055
NARO wide training plan 2021_22	3) 20 seed company engaged in	221004 Recruitment Expenses	84,635
leveloped	partnerships for technology multiplication	221006 Commissions and related charges	1,081
9 staff recruited to strengthen research Capacity	and promotion.	221007 Books, Periodicals & Newspapers	2,800
1	4) NARO wide training plan 2021_22 developed.	221008 Computer supplies and Information Technology (IT)	449,357
		221009 Welfare and Entertainment	48,801
		221011 Printing, Stationery, Photocopying and Binding	122,937
		221012 Small Office Equipment	4,518
		221016 IFMS Recurrent costs	69,950
		221017 Subscriptions	42,521
		222003 Information and communications technology (ICT)	54,751
		223005 Electricity	3,284
		223006 Water	15,948
		224004 Cleaning and Sanitation	956
		224006 Agricultural Supplies	95,000
		225001 Consultancy Services- Short term	65,629
		226002 Licenses	98,536
		227001 Travel inland	615,821
		227004 Fuel, Lubricants and Oils	135,792
		228001 Maintenance - Civil	106,189
		228002 Maintenance - Vehicles	54,951
		228003 Maintenance – Machinery, Equipment & Furniture	14,659
		228004 Maintenance – Other	5,234
Reasons for Variation in performance			
		Total	, ,
		GoU Development	
		External Financing Arrears	
		AIA	
Outputs Funded		MIS	•

Budget Output: 51 Payments to International Organisations (CGIAR, ASARECA, WARDA)

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QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
Quarterly Compliance to 6 international organizations (CGIAR, ASERECA, FARA, CABI WADRA and BeCA) and autonomous institutions strengthened. Reasons for Variation in performance	Quarterly compliance to 6 international organizations (CGIAR, ASERECA, FARA, CABI WADRA and BeCA) and autonomous institutions strengthened.	Item 262201 Contributions to International Organisations (Capital)	Spent 892,993
		Total GoU Development External Financing Arrears AIA	
Capital Purchases			
Budget Output: 72 Government Buildin 7 agricultural research facilities established across four public research Institutes of NaCCORI, NARL, NaLIRRI, Rwebitaba, for efficient delivery of research services to accelerate Agro Industrialization,2 irrigation facilities NaCRRI &Kigumba	Civil works at 100% completion 1) Construction of a Hass screen House at NAFORRI. 2) Construction of road network at NALIRRI - 3) Construction of diagonistic laboratory at Kajansi - Mbarara seed sorting facility. 4) Construction of Road Network at Nalirri. 5) Rehabilitation & Remodelling of NARO Incubation centre at MuZARDI. 6) Others civil works NACORI multipurpose laboratory ongoing at 99% . - Multi purpose vaccine facility construction at Nakyesasa at 65%. - Construction of start up structures (paddock fencing, cattle dip,water reticulation, fencing, toilet hay barn & containers), at Maruzi Project work progress at 82% Namalele Administration block construction at Namalere work progress at 50% complete Aflasafe plant construction at Nakyesasa Project progress at 80% complete.	Item 281504 Monitoring, Supervision & Appraisal of Capital work 312101 Non-Residential Buildings 312102 Residential Buildings 312104 Other Structures	Spent 792,499 10,050,060 405,133 81,631
Reasons for Variation in performance	Project progress at 80% complete.		

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QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to	UShs Thousand
		Deliver Cumulative Outputs	

- 1) Construction of a Grain Store and Hay Barn Procurement process concluded but contract not signed due to limited funds.
- 2) Establishing an irrigation facility NACRR was not done due to lack of funds.
- 3) Some civil works were a spil-over from previous years.
- 4) Slow progress is due contractors not mobilizing construction materials in time.
- 5) Upgrading the Irrigation Water Systems at still in procurement process. It is at awaiting for submission of Designs/Bills of Quantities.

11,329,323	Total
11,329,323	GoU Development
0	External Financing
0	Arrears
0	AIA

11 220 222

Spent

83,500

Budget Output: 76 Purchase of Office and ICT Equipment, including Software

Five (5) Agricultural intelligence tools acquired

Agricultural Research Big data center developed

Ten (10) digital research platforms developed

Six (6) NARO knowledge products developed for technology dissemination Five (5) value chain, digital online

1) Two digital research platforms developed. i.e Incubation system and IP system.

Item

312213 ICT Equipment

- 2) Three NARO knowledge products developed for technology dissemination One value chain, digital online plat form developed and uploaded on the NARO website.
- 3) One draft concept note on big data developed.
- 4) One value chain, digital online plat form on fish developed and maintained.

Reasons for Variation in performance

Work still on going for

1) Five (5) Agricultural intelligence tools.

Work differed for:

- 1) Six digital research platforms.
- 2) Three NARO knowledge products developed for technology dissemination.
- 3) Five (5) value chain, digital online.

Total	83,500
GoU Development	83,500
External Financing	0
Arrears	0
AIA	0

Budget Output: 77 Purchase of Specialised Machinery & Equipment

83,500	GoU Development
0	External Financing
0	Arrears
0	AIA

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Cumulative Outputs and Expenditure by End of Quarter

Annual Planned Outputs	Cumulative Outputs Achieved by End of Quarter	Cumulative Expenditures made by the End of the Quarter to Deliver Cumulative Outputs	UShs Thousand
Laboratory equipment for 5 research	Laboratory equipment for one fisheries	Item	Spent
facilities acquired; Rwebitaba tea research, invitro and embryo transfer,	research and one for forestry research	312202 Machinery and Equipment	1,756,935
Incubation facility at Mukono, fisheries research at Kajansi & research workshop at NASARRI		312214 Laboratory Equipments	1,100,000
Reasons for Variation in performance			
		Total	2,856,935
		GoU Development	
		External Financing	
		Arrears	
		AIA	0
Budget Output: 78 Purchase of Office a	and Residential Furniture and Fittings		
Four agriculture research facilities at NaLIRRI, Rwebitaba, NaCORI and NaFIRI furnished	Continued to furnish two agriculture research facilities at NaLIRRI and Rwebitaba tea research facility furnished.	Item 312203 Furniture & Fixtures	Spent 81,505
Reasons for Variation in performance			
		Total	81,505
		GoU Development	
		External Financing	0
		Arrears	0
		AIA	0
		Total For Project	26,232,625
		GoU Development	26,232,625
		External Financing	0
		Arrears	0
		AIA	0
		GRAND TOTAL	72,067,768
		Wage Recurrent	25,674,922
		Non Wage Recurrent	16,853,599
		GoU Development	
		External Financing	0
		Arrears	297,926
		AIA	0

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QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
Sub-SubProgramme: 51 Agricultural Re	esearch		
Departments -			
Department: 01 Headquarters			
Outputs Provided			
Budget Output: 01 Generation of agricul	ltural technologies		
one physical and budget performance	- Report on Impact studies being finalized.	Item	Spent
monitoring reports generated to inform	Desference of the site of the	211103 Allowances (Inc. Casuals, Temporary)	7,831
management decisions.	- Performance monitoring reports generated to inform management decisions	221006 Commissions and related charges	13,980
		227001 Travel inland	42,500
Reasons for Variation in performance			
Work still on-going			
		Total	64,311
		Wage Recurrent	. (
		Non Wage Recurrent	64,311
		AIA	(
Budget Output: 02 Research extension in	nterface promoted and strengthened		
One web-based technology promotion	- One web-based technology promotion	Item	Spent
System developed Two identified technologies protected,	System developed.	221007 Books, Periodicals & Newspapers	3,843
Three Intellectual Property management committee (IPMC) engagements	- 3 IPMC meetings held(IPMC interface with MAAIF.	221011 Printing, Stationery, Photocopying and Binding	50,000
coordinated		221012 Small Office Equipment	230
Three IP awareness policy coordinated, 8 Technology licensing agreements signed	- Preparatory meeting for monitoring of seed companies, Meeting with breeders	222001 Telecommunications	16,170
Two Business plans and proposals	with key resolutions and decisions	222002 Postage and Courier	300
developed and 3 digital based technology	included; drafting of solicitor general	223005 Electricity	12,926
promotions conducted	letter for guidance on NARO variety licensing, communicate to PARIs about	223006 Water	10,103
	breeder seed bulking requirements and the streamlined procedure of access.	227001 Travel inland	15,720
	- One licence agreement between NARO and Advanta signed, MOU between NARO and Katebe farms processed; 1 expression of interest from Uganda prisons seed limited for partnership in foundation seed production received and being processed.		
Reasons for Variation in performance	- Records management information system to support of administration activities developed.		

Reasons for Variation in performance

Work still on going for developing the technology promotion System, technologies protected, IPMC engagements & IP awareness policy coordinated, and Technology licensing agreements

Total 109,292 Wage Recurrent 0

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QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
		Non Wage Recurrent	109,292
		AIA	0

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Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
10 NARO staff supported for MScs and	- Coordinated Research oversight in the 16	Item	Spent
PhDs,	PARIs strengthened to support	211102 Contract Staff Salaries	8,564,839
1000 acres of NARO secured through titling,	development of research for products to stimulate industries, Security enhanced in	212101 Social Security Contributions	855,831
Quarterly Compliance to 6 international	the 16 NARO PARIs,	213001 Medical expenses (To employees)	369,372
organizations (CGIAR, ASERECA, FARA, CABI WADRA and BeCA) strengthened,	- 1 routine mission conducted on research facilities in the 16 Public research	213002 Incapacity, death benefits and funeral expenses	378,000
Coordinated Research oversight in the 16	institutes.	213004 Gratuity Expenses	2,139,577
PARIs strengthened to support development of research for products to	- Human resource of 910 staff managed	221001 Advertising and Public Relations	668
stimulate industries,	and maintained by . paying staff salaries	221006 Commissions and related charges	9,428
Security enhanced in the 16 NARO	for the months of January-March 2022.	221009 Welfare and Entertainment	72,947
PARIs, 1 routine facilities maintenance conducted in the 16 Public research institutes	- And social security contribution for 901 staff for the months of January - March	221011 Printing, Stationery, Photocopying and Binding	1,027
in the 101 usite research institutes	2022 remitted to NSSF.	221016 IFMS Recurrent costs	160
	Annual subscription maid for 20 staff	222001 Telecommunications	34,934
	- Annual subscription paid for 30 staff who belong to professional bodies.	222003 Information and communications technology (ICT)	3,600
	76 NARO staff competencies enhanced	223004 Guard and Security services	4,290
	through long term and short term training. (i.e. 01 PHD, 01 MSC, 01 in logistics and	224004 Cleaning and Sanitation	10,524
	transport (CILT), 03 NARO staffs on	227001 Travel inland	36,834
	effective office management; 14 staffs on	227004 Fuel, Lubricants and Oils	132,403
	transformational human resource management; officers; 20 on	228001 Maintenance - Civil	2,871
	Procurement Management; 03 NARO	228002 Maintenance - Vehicles	134,868
	Accountants for professional development fees; 17 Internal Auditors in professional development; 11 NARO technicians in	228003 Maintenance – Machinery, Equipment & Furniture	12,496
	experimental SOPs and data management	228004 Maintenance - Other	6,195
	- Professional development fees for over 40 NARO staff(Federation of Uganda Employers)	273102 Incapacity,death benefits and funeral expenses	16,300
	- Professional development fees for 06 NARO Accountants in ACCA. Professional development fees for TWO NARO Administrative professionals. - professional development in Information Technology. 01 student.		
	500 acres of NARO titled, strengthened compliance to 6 international organizations,		
	Physical resources (office buildings, vehicles, compounds) and utilities secured, functional and managed effectively and efficiently.		
Reasons for Variation in performance			

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Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	.	UShs Thousand
		Total	12,787,165
		Wage Recurrent	8,564,839
		Non Wage Recurrent	4,222,326
		AIA	(
Arrears			
		Total For Department	12,960,768
		Wage Recurrent	8,564,839
		Non Wage Recurrent	4,395,929
		AIA	(
Departments			
Department: 07 National Crops Resour	ces Research Institute		
Outputs Provided			
Budget Output: 01 Generation of agricu	-		
Five technologies for food and nutrition security developed and submitted to the	- Submitted to VRC, 3 bush and 3 climber beans varieties for DUS test.		Spent
varieties release committee. The varieties		211103 Allowances (Inc. Casuals, Temporary)	19,373
have capacity to fight hidden hunger, improve production and productivity and	 4 earlier submitted candidate varieties resubmitted. 		
also increase competitiveness agricultural	Submitted.		
products on market.	- 2 new rice varieties submitted to VRC.		
	4 earlier submitted rice varieties released.		
Reasons for Variation in performance			
		Total	19,373
		Wage Recurrent	15,575
		Non Wage Recurrent	19,373
		AIA	15,575
Budget Output: 02 Research extension i	nterface promoted and strengthened		
Four technologies delivered to uptake	2 tons of quality breeder maize seed	Item	Spent
path ways for increased production and	produced (of six varieties).	221001 Advertising and Public Relations	1,480
productivity and accelerated agro industrialization, food security and employment creation.	8 tons of foundation bean seed harvested ready for delivery of 5 varieties).		
	1 ton of vegetative planting materials ready for farmers (two cassava, three sweet potato, three citrus seedlings)		
Reasons for Variation in performance	sweet potato, tince citrus securings)		
- • • •			
		Total	1,480
		Wage Recurrent	0
		Non Wage Recurrent	1,480
		AIA	0

Vote: 142 National Agricultural Research Organisation

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
Budget Output: 04 Agricultural research	h capacity strengthened		
1) One Bio-sciences laboratories	Physical resources (offices, laboratories,	Item	Spent
maintained. 2) Four on-station field research facilities	field machinery, office equipment) maintained and fully functional. These	211103 Allowances (Inc. Casuals, Temporary)	1,480
maintained. 3. Two Crop production facilities	included: the Bio-sciences laboratories, tissue culture lab, screen houses. Admin	221008 Computer supplies and Information Technology (IT)	3,368
maintained to create enabling environment		221009 Welfare and Entertainment	3,960
for Agriculture research.		221011 Printing, Stationery, Photocopying and Binding	3,700
		222001 Telecommunications	2,960
		223004 Guard and Security services	4,440
		223005 Electricity	14,800
		224004 Cleaning and Sanitation	2,960
		226001 Insurances	474
		227001 Travel inland	5,365
		227004 Fuel, Lubricants and Oils	11,100
		228002 Maintenance - Vehicles	11,840
		228003 Maintenance – Machinery, Equipment & Furniture	2,220
Reasons for Variation in performance			
		Total	68,667
		Wage Recurrent	0
		Non Wage Recurrent	68,667
		AIA	0
		Total For Department	89,520
		Wage Recurrent	0
		Non Wage Recurrent	89,520
		AIA	0
Departments			
Department: 08 National Fisheries Reso	ources Research Institute		
Outputs Provided			
Budget Output: 01 Generation of agricu	g .		a .
4,125 brood stock of fisheries resources acquired for sustainable seed production	60 barbus broodstock undergoing conditioning onstation; 62670 quality sex	Item	Spent
and Breeding that is; Two thousand five	reversed tilapia fry produced and availed	211103 Allowances (Inc. Casuals, Temporary)	4,687
hundred (2500) Tilpia, Five thousand	to farmers; 23310 mixed sex tilapia, and	224006 Agricultural Supplies	3,903
(1,000) catfish, One thousand (250) mirror carp and Five hundred (500) Barbus.	3430 arrican carrish produced.	227001 Travel inland	1,558
-		227004 Fuel, Lubricants and Oils	2,524
Reasons for Variation in performance			
Only four out of 10 cages were available for	or stocking. Others were still under rehabilita		
		Total	,
		Wage Recurrent	0

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Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
		Non Wage Recurrent	12,671
		AIA	(
Budget Output: 02 Research extension	interface promoted and strengthened		
Strengthened capacity and creating an enabling environment for fish breeding and handling for ponds and 3 office blocks cleaned. Strengthened Stakeholde	rs	Item	Spent
awareness in aquaculture.			
Reasons for Variation in performance			
		Total	
		Wage Recurrent	
		Non Wage Recurrent	
		AIA	C
Budget Output: 04 Agricultural resear	• • •		
1 fish laboratory and one aquarium maintained & operationalized, 1 cage	3 office blocks cleaned. Salaries for 25 contract staff paid ;Staff welfare items		Spent
research facility maintained and	procured; fuel for adminstrative activities	221001 Advertising and Public Relations	13,761
operationalized. Fisheries Premises and assets	procured; 03 Institute vehicles and equipment maintained; information	· ·	4,476
protected/guarded for improved safety	leaflets/brochures/ booklets produced;	221007 Books, Periodicals & Newspapers	2,491
	Aquaculture research technologies demonstrated in at least 2 exhibitions.	221008 Computer supplies and Information Technology (IT)	673
	demonstrated in at least 2 exhibitions.	221009 Welfare and Entertainment	3,395
		221011 Printing, Stationery, Photocopying and Binding	4,222
		222001 Telecommunications	2,116
		222003 Information and communications technology (ICT)	6,563
		223004 Guard and Security services	5,914
		223005 Electricity	8,564
		223006 Water	4,088
		224004 Cleaning and Sanitation	4,040
		226001 Insurances	544
		227001 Travel inland	12,073
		227004 Fuel, Lubricants and Oils	8,598
		228001 Maintenance - Civil	3,367
		228002 Maintenance - Vehicles	11,896
		228003 Maintenance – Machinery, Equipment & Furniture	5,320
Reasons for Variation in performance			
		Total	102,097
		Wage Recurrent	

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QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
		Non Wage Recurrent	102,097
		AIA	(
		Total For Department	114,768
		Wage Recurrent	(
		Non Wage Recurrent	114,768
		AIA	(
Departments			
Department: 09 National Forestry Resou	irces Research Institute		
Outputs Provided			
Budget Output: 01 Generation of agricul	ltural technologies		
Data on the prototypes of energy saving stove that can efficiently utilise charcoal dust as fuel analyzed On-station tree-crop interaction trial/demosite established at Kifu		Item	Spent
Reasons for Variation in performance		Total	
Reasons for Variation in performance		Total Wage Recurrent	
Reasons for Variation in performance		Wage Recurrent	•
Reasons for Variation in performance		Wage Recurrent Non Wage Recurrent	(
	nterface promoted and strengthened	Wage Recurrent	(
Budget Output: 02 Research extension in	•	Wage Recurrent Non Wage Recurrent	
Budget Output: 02 Research extension in 150 farmers exposed to salient tree-crop nteractions different farming systems	nterface promoted and strengthened Training content developed and outreach strategy drafted.	Wage Recurrent Non Wage Recurrent AIA	(
Budget Output: 02 Research extension in 150 farmers exposed to salient tree-crop interactions different farming systems 50 Stakeholder equipped with best	Training content developed and outreach strategy drafted.	Wage Recurrent Non Wage Recurrent AIA Item	Spent
Budget Output: 02 Research extension in 150 farmers exposed to salient tree-crop interactions different farming systems 50 Stakeholder equipped with best agronomic practices for production of	Training content developed and outreach	Wage Recurrent Non Wage Recurrent AIA Item 221001 Advertising and Public Relations	Spent 1,084
Budget Output: 02 Research extension in 150 farmers exposed to salient tree-crop interactions different farming systems 50 Stakeholder equipped with best agronomic practices for production of quality avocado and annona germplasm	Training content developed and outreach strategy drafted. 150 Farmers for training identified. But	Wage Recurrent Non Wage Recurrent AIA Item 221001 Advertising and Public Relations 221007 Books, Periodicals & Newspapers 221008 Computer supplies and Information	Spent 1,084 867
Budget Output: 02 Research extension in 150 farmers exposed to salient tree-crop interactions different farming systems 50 Stakeholder equipped with best agronomic practices for production of quality avocado and annona germplasm Reasons for Variation in performance	Training content developed and outreach strategy drafted. 150 Farmers for training identified. But	Wage Recurrent Non Wage Recurrent AIA Item 221001 Advertising and Public Relations 221007 Books, Periodicals & Newspapers 221008 Computer supplies and Information	Spent 1,084 867
Budget Output: 02 Research extension in 150 farmers exposed to salient tree-crop interactions different farming systems 50 Stakeholder equipped with best agronomic practices for production of quality avocado and annona germplasm Reasons for Variation in performance	Training content developed and outreach strategy drafted. 150 Farmers for training identified. But	Wage Recurrent Non Wage Recurrent AIA Item 221001 Advertising and Public Relations 221007 Books, Periodicals & Newspapers 221008 Computer supplies and Information	Spent 1,084 867 1,807
Budget Output: 02 Research extension in 150 farmers exposed to salient tree-crop interactions different farming systems 50 Stakeholder equipped with best agronomic practices for production of quality avocado and annona germplasm Reasons for Variation in performance Funds not available for training farmer.	Training content developed and outreach strategy drafted. 150 Farmers for training identified. But	Wage Recurrent Non Wage Recurrent AIA Item 221001 Advertising and Public Relations 221007 Books, Periodicals & Newspapers 221008 Computer supplies and Information Technology (IT)	Spent 1,084 867
Budget Output: 02 Research extension in 150 farmers exposed to salient tree-crop interactions different farming systems 50 Stakeholder equipped with best agronomic practices for production of quality avocado and annona germplasm Reasons for Variation in performance	Training content developed and outreach strategy drafted. 150 Farmers for training identified. But	Wage Recurrent Non Wage Recurrent AIA Item 221001 Advertising and Public Relations 221007 Books, Periodicals & Newspapers 221008 Computer supplies and Information Technology (IT) Total	Spent 1,084 867 1,807

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
Institute capacity to support agricultural	- Provision of Security/safety for Institute	Item	Spent
research and innovations enhanced through routine maintenance of vital research support components (infrastructure, equipment, machinery,	premises, assets & trials Refreshments to 69 staff members & 30 visitors. Institute	211103 Allowances (Inc. Casuals, Temporary)	6,394
	capacity to support agricultural research	221003 Staff Training	1,446
	and innovations enhanced through: -	221009 Welfare and Entertainment	2,168
vehicles, computers & ICT); re-tooling and guidance of staff	Routine maintenance of Office blocks, 1 conference Hall, 2 field vehicles 1 staff van,1 generator,1 water pump,5	221011 Printing, Stationery, Photocopying and Binding	3,613
	computers,10,000 square meters of	222001 Telecommunications	723
	compound.	222002 Postage and Courier	289
		222002 Postage and Courier 222003 Information and communications technology (ICT)	6,812
		223004 Guard and Security services	7,226
		223005 Electricity	15,507
		224004 Cleaning and Sanitation	5,949
		224005 Uniforms, Beddings and Protective Gear	723
		227001 Travel inland	5,780
		227004 Fuel, Lubricants and Oils	12,074
		228001 Maintenance - Civil	3,252
		228002 Maintenance - Vehicles	6,411
		228003 Maintenance – Machinery, Equipment & Furniture	2,529
Reasons for Variation in performance			
		Total	80,892
		Wage Recurrent	0
		Non Wage Recurrent	80,892
		AIA	0
		Total For Department	84,650
		Wage Recurrent	0
		Non Wage Recurrent	84,650
		AIA	0
Departments			

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
One anti-tick candidate vaccine molecule	1) Responses to Scientific audit queries on	Item	Spent
validated in various agro-ecological zones of Uganda.	reviewed and results were satisfactory.	211103 Allowances (Inc. Casuals, Temporary)	71,892
One broad-spectrum chimeric anti-tick		221003 Staff Training	23,885
vaccine formulated & evaluated Two FMD candidate vaccines	and PL by UNCST.	221017 Subscriptions	8,998
evaluated. One African swine fever candidate vaccine evaluated on station	2) Two meetings for supervision of the NARO Vaccine Production Facility were	222003 Information and communications technology (ICT)	32,487
	successfully held by the NARO engineer,	223004 Guard and Security services	6,664
	Project contractor and PIs of ASF, FMD and Anti-tick vaccine project.	223005 Electricity	60,284
	and Anti-tick vaccine project.	224001 Medical Supplies	190,611
	3) NBC granted a conditional biosafety approval for a confined field trial (CFT).	224004 Cleaning and Sanitation	15,542
	4) Protocols for CFT were submitted to	224005 Uniforms, Beddings and Protective Gear	12,820
	NDA for review.	224006 Agricultural Supplies	121,875
	5) Continued with antimization of	225001 Consultancy Services- Short term	20,825
	5) Continued with optimization of conditions for amplification of p67	227001 Travel inland	38,318
	TD 4:	227004 Fuel, Lubricants and Oils	49,980
		228001 Maintenance - Civil	33,320
		228002 Maintenance - Vehicles	58,310
		228003 Maintenance – Machinery, Equipment & Furniture	65,391

Reasons for Variation in performance

NARO engaged the national Authorities in vacine development i.e NBC, UNCST e.t.c. NARO sought the necessary approvals before further progress was conducted.

Work is still on going.

Total	811,200
Wage Recurrent	0
Non Wage Recurrent	811,200
AIA	0

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
3 livestock laboratories and one forage	1) Three livestock laboratories and one	Item	Spent
conservation facility maintained. Herbarium and two on-station field	forage conservation facility maintained. 2) Two on-station field research facilities	211103 Allowances (Inc. Casuals, Temporary)	26,784
research facilities maintained.	maintained. 3) Four livestock production	221001 Advertising and Public Relations	2,715
10 research and production facilities maintained, Livestock	facilities maintained. 4) Six research	221007 Books, Periodicals & Newspapers	362
laboratories and one forage conservation	handling facilities maintained. 5) Physical resources (offices, laboratories, field machinery, office equipment) secured,	221008 Computer supplies and Information Technology (IT)	3,620
and two on-station field research facilities	maintained and fully functional	Technology (IT) 221009 Welfare and Entertainment 221011 Printing, Stationery, Photocopying and Binding 221012 Small Office Equipment 222001 Telecommunications 223005 Electricity 224004 Cleaning and Sanitation 226001 Insurances 227001 Travel inland 227004 Fuel, Lubricants and Oils 228001 Maintenance - Civil	5,429
maintained. 10 research and production facilities		221011 Printing, Stationery, Photocopying and Binding	5,791
maintained.		221012 Small Office Equipment	1,564
		222001 Telecommunications	1,448
		223005 Electricity	2,172
		224004 Cleaning and Sanitation	3,258
		226001 Insurances	464
		227001 Travel inland	2,974
		227004 Fuel, Lubricants and Oils	7,239
		228001 Maintenance - Civil	2,009
		228002 Maintenance - Vehicles	6,515
		228003 Maintenance – Machinery, Equipment & Furniture	2,425
		273102 Incapacity,death benefits and funeral expenses	7,239
Reasons for Variation in performance			
		Total	82,005
		Wage Recurrent	0
		Non Wage Recurrent	82,005
		AIA	0
		Total For Department	
		Wage Recurrent	
		Non Wage Recurrent	893,205
		AIA	0
Departments			

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
5 sesame lines evaluated, data for characterization of 10 accessions of cowpea and 20 of pigeon pea analyzed,	Land 3 acres for sesame MLTs prepared,	Item	Spent
	trial materials assembled for Serere, Arua, Lira, Kitgum and Mayuge. Trials were	211103 Allowances (Inc. Casuals, Temporary)	18,038
suitable soil & water conservation strategy	monitored and 2 sets of field data was	224006 Agricultural Supplies	19,783
development evaluation initiated, Two farmer preferred cotton lines with	collected.	227001 Travel inland	42,567
industrial attributes identification information analyzed.		227004 Fuel, Lubricants and Oils	19,217
Reasons for Variation in performance			
Work on-going			
		Total	99,604
		Wage Recurrent	0
		Non Wage Recurrent	99,604
		AIA	0
Budget Output: 04 Agricultural research	n capacity strengthened		
•	ound mowed and 3 office 14 acres of compound mowed and 3 office	Item	Spent
blocks maintained to create enabling environment for research	blocks maintained to create enabling environment for research One	211103 Allowances (Inc. Casuals, Temporary)	9,906
One dissemination workshops conducted,	dissemination workshops conducted, 3 scientific committee meetings conducted	213002 Incapacity, death benefits and funeral expenses	2,901
3 scientific committee meetings conducted		221001 Advertising and Public Relations	2,901
to guide research		221007 Books, Periodicals & Newspapers	2,176
		221008 Computer supplies and Information Technology (IT)	4,802
		221009 Welfare and Entertainment	4,352
		221011 Printing, Stationery, Photocopying and Binding	5,077
		222001 Telecommunications	1,450
		223004 Guard and Security services	4,352
		223005 Electricity	7,252
		223006 Water	1,451
		224004 Cleaning and Sanitation	4,352
		226001 Insurances	440
		227001 Travel inland	5,104
		227004 Fuel, Lubricants and Oils	3,852
		228002 Maintenance - Vehicles	5,802
Reasons for Variation in performance			

Need for further efficacy testing to determine the best rate of application.

Only 3 meetings conducted vs the envisage 9 because of lack of funds to facilitated the committees.

Total	66,165
Wage Recurrent	0
Non Wage Recurrent	66,165
AIA	0

Vote: 142 National Agricultural Research Organisation

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
		Total For Department	165,768
		Wage Recurrent	. (
		Non Wage Recurrent	165,768
		AIA	(
Departments			
Department: 12 National Laboratories l	Research		
Outputs Provided			
Budget Output: 01 Generation of agricu	ltural technologies		
	3 Value added product from maize, beans,	Item	Spent
vegetables for commercialization developed. Propagation systems developed	vegetables for commercialization	211103 Allowances (Inc. Casuals, Temporary)	43,950
or two plant genetic resources,500	Propagation systems developed for two	221009 Welfare and Entertainment	543
genotypes from banana Hybrid seed generated.	plant genetic resources,	221011 Printing, Stationery, Photocopying and Binding	2,378
	500 genotypes from banana Hybrid seed generated. Work still on-going.	222001 Telecommunications	418
	generated. Work still on-going.	223005 Electricity 224004 Cleaning and Sanitation 224006 Agricultural Supplies	6,015
		224004 Cleaning and Sanitation	626
		224006 Agricultural Supplies	86,166
		227001 Travel inland	40,203
		227004 Fuel, Lubricants and Oils	3,875
		228002 Maintenance - Vehicles	501
		228003 Maintenance – Machinery, Equipment & Furniture	1,252
Reasons for Variation in performance			
Work still on-going.			
Available resources (funds for materials a	and manpower) limited the scope of intended	d work.	
		Total	185,92
		Wage Recurrent	
		Non Wage Recurrent	185,92
		AIA	
Budget Output: 02 Research extension in	nterface promoted and strengthened		
One batch of Agriculture Research	An assortment of Agriculture Research	Item	Spent
nformation Education Communication	Information Education Communication material developed and disseminated	211103 Allowances (Inc. Casuals, Temporary)	4,900
material developed and disseminated.	material developed and disseminated during 2 exhibitions	221011 Printing, Stationery, Photocopying and Binding	5,680
		224006 Agricultural Supplies	84,100
		227001 Travel inland	15,500
Reasons for Variation in performance			
		Total	110,18
		Wage Recurrent	

Vote: 142 National Agricultural Research Organisation

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
		Non Wage Recurrent	110,180
		AIA	
Budget Output: 04 Agricultural researc	ch capacity strengthened		
One research management committees	One research management committees	Item	Spent
conducted to guide research Procedure for application of procedures	conducted to guide research Procedure for application of procedures and polices	211103 Allowances (Inc. Casuals, Temporary)	33,892
and polices Institution machinery and	Institution machinery and equipment	221001 Advertising and Public Relations	7,695
equipment maintained.	maintained.	221003 Staff Training	5,500
		221007 Books, Periodicals & Newspapers	2,003
		221008 Computer supplies and Information Technology (IT)	9,065
		221009 Welfare and Entertainment	7,796
		221011 Printing, Stationery, Photocopying and Binding	7,510
		221012 Small Office Equipment	2,086
		222001 Telecommunications	1,440
		222002 Postage and Courier	211
		223004 Guard and Security services	16,714
		223005 Electricity	18,757
		227001 Travel inland	19,732
		227004 Fuel, Lubricants and Oils	25,122
		228001 Maintenance - Civil	3,721
		228002 Maintenance - Vehicles	16,996
		228003 Maintenance – Machinery, Equipment & Furniture	4,763
		228004 Maintenance - Other	2,712
Reasons for Variation in performance			
		Total	185,71
		Wage Recurrent	
		Non Wage Recurrent	185,71
		AIA	
		Total For Department	•
		Wage Recurrent	
		Non Wage Recurrent	481,81
		AIA	
Departments			
Department: 13 Abi ZARDI			
Outputs Provided			

Vote: 142 National Agricultural Research Organisation

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
One technology generated for increased	On station demonstrations were generated	Item	Spent
production and productivity One innovation developed for increased production and productivity of priority commodities to support agro-	and maintained (cassava, sorghum) and some maintained (mangoes)	221001 Advertising and Public Relations	3,955
	The two farm Clinics held at ABI ZARDI	221008 Computer supplies and Information Technology (IT)	2,637
industrialisation.	that has so far attracted several stakeholders and eight different key commodities have been showcased their entire value chain. Lessons learnt will be scaled out to the PDM and other beneficiaries.	221011 Printing, Stationery, Photocopying and Binding	2,637
Reasons for Variation in performance			
		Total	9,228
		Wage Recurrent	0
		Non Wage Recurrent	9,228
		AIA	0
Budget Output: 04 Agricultural research	h capacity strengthened		
One advisory committee and PARI	One advisory committee and PARI	Item	Spent
directors forum, institute committee meetings conducted to guide and redirect	directors forum, institute committee meetings conducted to guide and redirect	211103 Allowances (Inc. Casuals, Temporary)	11,864
research.	research.	221008 Computer supplies and Information Technology (IT)	1,318
			2,637
		222001 Telecommunications	7,200
		223004 Guard and Security services	1,975
		223005 Electricity	5,108
		223006 Water	1,978
		224004 Cleaning and Sanitation	1,978
		224006 Agricultural Supplies	3,955
		226001 Insurances	570
		227001 Travel inland	7,909
		227004 Fuel, Lubricants and Oils	3,818
		228001 Maintenance - Civil	3,296
Reasons for Variation in performance			
		Total	53,603
		Wage Recurrent	0
		Non Wage Recurrent	53,603
		AIA	0
		Total For Department	62,830
		Wage Recurrent	0
		Non Wage Recurrent	62,830

Vote: 142 National Agricultural Research Organisation

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
		AIA	(
Departments			
Department: 14 Bulindi ZARDI			
Outputs Provided			
Budget Output: 02 Research extension i	nterface promoted and strengthened		
One technology dissemination Campaign conducted in the zone to improve production, productivity and agro based	One technology dissemination Campaign conducted in the zone to improve production, productivity and agro based	Item 224001 Medical Supplies 224006 Agricultural Supplies	Spent 1,400 2,250
industries.	industries.	224000 Agricultural Supplies	2,230
Reasons for Variation in performance			
Increased enthusiasm in improve planting	material and agricultural information across		2 (50
		Total	3,650
		Wage Recurrent	2.650
		Non Wage Recurrent	3,650
		AIA	C
Budget Output: 04 Agricultural research		T /	g .
Strategically focused research activities supported by 1 advisory meeting 2 technologies availed to farmers for	- Research agenda strengthened holding one advisory committee	Item	Spent
	•	211103 Allowances (Inc. Casuals, Temporary)	7,903
Improved linkage between Bulindi ZARDI, and the communities.	- Bulindi ZARDI physical resources (offices, laboratories, field machinery,	221001 Advertising and Public Relations	5,055
1 Annual report generated, disseminated and archived	office equipment) secured, maintained and fully functional	221007 Books, Periodicals & Newspapers 221008 Computer supplies and Information Technology (IT)	472 6,740
Equip the institution ICT facilities of the institute		221009 Welfare and Entertainment	2,620
		221011 Printing, Stationery, Photocopying and Binding	3,370
		221012 Small Office Equipment	3,370
		223005 Electricity	13,110
		224001 Medical Supplies	600
		224006 Agricultural Supplies	1,786
		226001 Insurances	674
		227001 Travel inland	4,381
		227004 Fuel, Lubricants and Oils	5,026
		228002 Maintenance - Vehicles	8,425
Reasons for Variation in performance			
		Total	63,531
		Wage Recurrent	C
		Non Wage Recurrent	63,531
		AIA	C
		Total For Department	67,181
		Wage Recurrent	C

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
		Non Wage Recurrent	67,181
		AIA	(
Departments			
Department: 15 Kachwekano ZARDI			
Outputs Provided			
Budget Output: 01 Generation of agric	ultural technologies		
5 sorghum genotypes generated	5 sorghum genotypes generated 2	Item	Spent
monstration sites established in 6 demonstration sites established in 6 districts in SWHAEZ with at least 1 new districts in SWHAEZ with at least one	211103 Allowances (Inc. Casuals, Temporary)	5,062	
potato varieties	new potato varieties.	224001 Medical Supplies 227001 Travel inland	6,144
	_		3,563
		227004 Fuel, Lubricants and Oils	1,470
Reasons for Variation in performance			
More varieties and on farm demonstration	s were not possible due to limited resources	(funds, vehicles and personnel) to undertake	them.
		Total	16,23
		Wage Recurrent	
		Non Wage Recurrent	16,23
		AIA	(
Budget Output: 02 Research extension	interface promoted and strengthened		
2Demonstration site established in 1	6 demonstrations on new potato varieties	Item	Spent
districts in SWHAEZ with at least 3 new potato varieties introduced	planted, monitored and growth and yield data collected analyzed and presented	221001 Advertising and Public Relations	2,488
potato varieties introduced	data conceted analyzed and presented	224006 Agricultural Supplies	659
Reasons for Variation in performance			
		Total	3,14
		Wage Recurrent	
		Non Wage Recurrent	3,14
		Non wage Recurrent	3,14

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
Enhancing institutional research capacity,	Kachwekano ZARDI physical resources	Item	Spent
safe through routine monitoring (4trips), safe guarding assets, servicing of	enhanced (offices, laboratories, field machinery, office equipment) secured, maintained and fully functional	211103 Allowances (Inc. Casuals, Temporary)	8,236
computers (20times) and infrastructure		221001 Advertising and Public Relations	1,317
vehicles(7) machinery (4) maintenance.		221007 Books, Periodicals & Newspapers	481
		221008 Computer supplies and Information Technology (IT)	2,351
		221009 Welfare and Entertainment	3,451
		221011 Printing, Stationery, Photocopying and Binding	1,976
		221012 Small Office Equipment	659
		222001 Telecommunications	527
		223005 Electricity	4,939
		223006 Water	1,647
		224004 Cleaning and Sanitation	5,061
		226001 Insurances	330
		227001 Travel inland	3,428
		227004 Fuel, Lubricants and Oils	4,939
		228002 Maintenance - Vehicles	3,952
Reasons for Variation in performance			
		Total	43,291
		Wage Recurrent	. (
		Non Wage Recurrent	43,291
		AIA	(
		Total For Department	62,670
	W	Wage Recurrent	. (
		Non Wage Recurrent	62,676
Danartmants		AIA	(
Departments Departments 16 Multone 7 A BDI			
Department: 16 Mukono ZARDI Outputs Provided			

Budget Output: 01 Generation of agricultural technologies

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
1 agronomic practices of indigenous	One agronomic practices of indigenous	Item	Spent
tomato, onions and Bambara nuts cultivars initiated	tomato, onions and Bambara nuts cultivars initiated	221011 Printing, Stationery, Photocopying and Binding	5,700
1 effective weed management options for groundnuts production identified and	One effective weed management options	222001 Telecommunications	2,036
packaged for	for groundnuts production identified and	223004 Guard and Security services	13,029
	packaged.	223005 Electricity	20,357
		223006 Water	2,443
		224006 Agricultural Supplies	10,177
		227001 Travel inland	3,257
		227004 Fuel, Lubricants and Oils	12,215
Reasons for Variation in performance			
		Total	69,213
		Wage Recurrent	0
		Non Wage Recurrent	69,213
		AIA	
Budget Output: 02 Research extension is	nterface promoted and strengthened		
30 key market chain actors identified.	30 more key market chain actors	Item	Spent
1 potential market opportunities analyzed	identified. 200 stakeholders reached 2 partnerships established 1 potential market	211103 Allowances (Inc. Casuals, Temporary)	1,250
250 stakeholders reached 2 partnerships established	opportunities analyzed 250 more stakeholders engaged for improved	224006 Agricultural Supplies	2,000
1 potential market opportunities analyzed	technology promotion		
250stakeholders engaged for improved technology promotion			
Reasons for Variation in performance			
		Total	3,250
		Wage Recurrent	0
		Non Wage Recurrent	3,250
		AIA	C

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
analyzed a	One potential market opportunities	Item	Spent
	analyzed 1 M&E report brief developed to guide manageent of research Enhancement		9,143
manageent of research	and maintained of ICT Infrastructure 1 2	221001 Advertising and Public Relations	4,386
Enhancement and maintained of ICT Infrastructure	partnership established 1000 stakeholders reached and 2 partnerships established 120	221003 Staff Training	1,500
1 partnership established	key market chain actors identified	221007 Books, Periodicals & Newspapers	1,629
1000 stakeholders reached and 2 partnerships established		221008 Computer supplies and Information Technology (IT)	6,468
120 key market chain actors identified		221009 Welfare and Entertainment	4,886
		221011 Printing, Stationery, Photocopying and Binding	1,629
		222002 Postage and Courier	1,222
		224004 Cleaning and Sanitation	10,004
		228001 Insurances 228001 Maintenance - Civil 228002 Maintenance - Vehicles 228003 Maintenance - Machinery, Equipment & Furniture 228004 Maintenance - Other	570
			10,559
			10,308
			4,479
			2,036
		273102 Incapacity,death benefits and funeral expenses	1,222
Reasons for Variation in performance			
		Total	70,038
		Wage Recurrent	0
		Non Wage Recurrent	70,038
		AIA	0
		Total For Department	142,500
		Wage Recurrent	0
		Non Wage Recurrent	142,500
		AIA	0
Departments			

Department: 17 Ngetta ZARDI

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
The process for development of 1 effective technique for estimating weed seed quantity and type in soil initiated 1 integrated approach for managing weeds in maize under CA systems initiated	2 acres of at least four Indigenous fruit trees orchards maintained	Item	Spent
		211103 Allowances (Inc. Casuals, Temporary)	4,771
		221001 Advertising and Public Relations	1,740
		221011 Printing, Stationery, Photocopying and Binding	103
2 acres of at least four Indigenous fruit trees orchards established		222001 Telecommunications	578
		224001 Medical Supplies	2,106
		224006 Agricultural Supplies	7,627
		227001 Travel inland	6,851
Reasons for Variation in performance			
Work still on-going on mango fruitfly IPM	1 strategy.		
		Total	23,775
		Wage Recurrent	. 0
		Non Wage Recurrent	23,775
		AIA	. 0
Budget Output: 02 Research extension i	nterface promoted and strengthened		
One technology for food, nutrition and industry promoted with in the zone	4 different rice varieties demonstration and multiplication fields maintained.	Item	Spent
		221001 Advertising and Public Relations	672
		221008 Computer supplies and Information Technology (IT)	2,016
		224006 Agricultural Supplies	5,010
Reasons for Variation in performance			
On farm demonstrations were not possible	due to limited resources (funds, vehicles a	and personnel) to undertake them	
		Total	7,697
		Wage Recurrent	0
		Non Wage Recurrent	7,697
		AIA	. 0

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
Institutional research infrastructures	Ngetta ZARDI physical resources (offices,	Item	Spent
maintained to aid research for products and industry.	laboratories, field machinery, office equipment) secured, maintained and fully	211103 Allowances (Inc. Casuals, Temporary)	1,967
Research undertakings quidded and redirected through one research	functional - two administrative, policy and all mandatory reports prepared and	221008 Computer supplies and Information Technology (IT)	3,427
committee meeting.	submitted Staff wages and security services sourced and paid during the	221011 Printing, Stationery, Photocopying and Binding	1,680
		222001 Telecommunications	336
		223004 Guard and Security services	6,047
		223005 Electricity	2,305
		223006 Water	2,590
		224004 Cleaning and Sanitation	1,680
		227001 Travel inland	4,300
		227004 Fuel, Lubricants and Oils	5,374
		228002 Maintenance - Vehicles	5,375
Reasons for Variation in performance			
		Total	35,080
		Wage Recurrent	(
		Non Wage Recurrent	35,080
		AIA	(
		Total For Department	66,552
		Wage Recurrent	(
		Non Wage Recurrent	66,552
		AIA	(
Departments Department: 18 Nabium ZARDI			
Outputs Provided			
Budget Output: 01 Generation of agricu	ltural technologies		
250 kgs of better performing pasture seed	- 3 acres of Bracharia brizantha	Item	Spent
(8 acres of planting material) species	maintained established and on-station.	211103 Allowances (Inc. Casuals, Temporary)	5,499
(Chloris gayana, Centrocema, for increased production and productivity of	115 cattle; 30 Sahiwal and 15 friesian	221001 Advertising and Public Relations	220
livestock	cattle crosses and 70 zebu cattle multiplied on-station to increase availability to	221008 Computer supplies and Information Technology (IT)	960
115 cattles; 30 Sahiwal and 15 friesian cattle crosses and 70 zebu cattle	farmers	221011 Printing, Stationery, Photocopying and Binding	438
multiplied on-station to increase availability to farmers		224001 Medical Supplies	2,340
		224006 Agricultural Supplies	8,812
		227001 Travel inland	5,638
		227004 Fuel, Lubricants and Oils	1,683
		228002 Maintenance - Vehicles	1,296
Reasons for Variation in performance			

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in	Expenditures incurred in the	UShs
	Quarter	Quarter to deliver outputs	Thousand

Under performance due to resource constraints (poor running vehicles, no funds and available personnel)to establish pasture seed fields. Under performance was due to early on-set of drought and poor germinability of Chloris and Cenchurus seeds, only 4 acres grass established (3 acres of Bracharia brizantha and 01 acre of Napier grass)and maintained on-station

26,884	Total
0	Wage Recurrent
26,884	Non Wage Recurrent
0	AIA

Budget Output: 02 Research extension interface promoted and strengthened

Promotion and popularization of 1 NARO technologies exhibited during t selected crop, natural resources and animal value chain products and bi-products in NEAZ NARO technologies exhibited during t Ist Eastern Agricultural Show 4th -6th March, 2022 at Awoja Riverside Farm Soroti. These included, soil testing kit

NARO technologies exhibited during the Ist Eastern Agricultural Show 4th -6th March, 2022 at Awoja Riverside Farm Soroti. These included, soil testing kit demonstration,the soil fertility amendment material and packages available, apiary products and bi-products,pastures preservation technologies

Item	Spent
211103 Allowances (Inc. Casuals, Temporary)	455
221001 Advertising and Public Relations	202
221003 Staff Training	135
221008 Computer supplies and Information Technology (IT)	202
221011 Printing, Stationery, Photocopying and Binding	202
224001 Medical Supplies	505
224006 Agricultural Supplies	842
227001 Travel inland	404
227004 Fuel, Lubricants and Oils	202
228002 Maintenance - Vehicles	270

Reasons for Variation in performance

Total	3,418
Wage Recurrent	0
Non Wage Recurrent	3,418
AIA	0

Budget Output: 04 Agricultural research capacity strengthened

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
Local, regional, national and international cooperation on and access to science, technology,	(offices, laboratories, field machinery, office equipment) secured, maintained and fully functional. - Participated one farm clinic to facilitate access to science, technology, innovation	Item	Spent
		211103 Allowances (Inc. Casuals, Temporary)	3,899
innovation and knowledge sharing		221001 Advertising and Public Relations	539
enhanced.		221007 Books, Periodicals & Newspapers	337
		221009 Welfare and Entertainment	1,010
		221011 Printing, Stationery, Photocopying and Binding	1,347
		222002 Postage and Courier	218
		223004 Guard and Security services	2,330
		223005 Electricity	1,523
		224004 Cleaning and Sanitation	1,452
		224005 Uniforms, Beddings and Protective Gear	428
		226001 Insurances	258
		227001 Travel inland	2,020
		227004 Fuel, Lubricants and Oils	8,656
		228001 Maintenance - Civil	2,693
		228002 Maintenance - Vehicles	6,733
		228003 Maintenance – Machinery, Equipment & Furniture	2,693
		273102 Incapacity,death benefits and funeral expenses	539
Reasons for Variation in performance			
		Total	36,671
		Wage Recurrent	0
		Non Wage Recurrent	36,671
		AIA	0
		Total For Department	66,972
		Wage Recurrent	0
		Non Wage Recurrent	66,972
		AIA	0
Departments			
Department: 19 Mbarara ZARDI			

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
1Carbohydrate and cellulose digesting	1 research protocol developed and pretested in 5 farmer groups of 2 districts	Item	Spent
bacteria isolated 1 detailed research protocol developed.		211103 Allowances (Inc. Casuals, Temporary)	6,034
1 research protocol for pretesting in 5		223004 Guard and Security services	330
farmer groups of 2 districts initiated The development of 1 appropriate formula		224001 Medical Supplies	4,946
of carbohydrate & cellulose digesting		224006 Agricultural Supplies	6,694
bacteria packaging initiated.		227001 Travel inland	4,452
		227004 Fuel, Lubricants and Oils	2,473
Reasons for Variation in performance			
Work on-going.			
		Total	24,928
		Wage Recurrent	0
		Non Wage Recurrent	24,928
		AIA	0
Budget Output: 02 Research extension i	nterface promoted and strengthened		
Four research technologies delivered to	fertility management and conservation developed for enhanced banana	Item	Spent
uptake pathways for increased production and productivity.		222003 Information and communications technology (ICT)	1,194
	productivity to increase household incomes among farmers in the 6 of the 16 districts of South Western Agro Ecological Zone	224006 Agricultural Supplies	2,785
Reasons for Variation in performance			
		Total	3,979
		Wage Recurrent	0
		Non Wage Recurrent	3,979
		AIA	0

Budget Output: 04 Agricultural research capacity strengthened

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
Maintenance of institute IT infrastructures 15 institute research facilities maintained Assorted institute machinery maintained	(offices, laboratories, field machinery, office equipment) secured, maintained and fully functional 320 Experimental animals maintained.	Item	Spent
		211103 Allowances (Inc. Casuals, Temporary)	1,957
1round in the quarter		221001 Advertising and Public Relations	1,085
		221008 Computer supplies and Information Technology (IT)	1,649
		221009 Welfare and Entertainment	1,979
		221011 Printing, Stationery, Photocopying and Binding	2,638
		222001 Telecommunications	660
		223004 Guard and Security services	3,957
		223005 Electricity	2,638
		223006 Water	1,319
		224004 Cleaning and Sanitation	2,638
		226001 Insurances	399
		227001 Travel inland	3,957
		227004 Fuel, Lubricants and Oils	3,295
		228001 Maintenance - Civil	989
		228002 Maintenance - Vehicles	3,877
		228003 Maintenance – Machinery, Equipment & Furniture	989
Reasons for Variation in performance			
		Total	34,023
		Wage Recurrent	0
		Non Wage Recurrent	34,023
		AIA	0
		Total For Department	62,930
		Wage Recurrent	0
		Non Wage Recurrent	62,930
		AIA	0
Departments			
Department: 20 Buginyaya ZARDI			

Budget Output: 01 Generation of agricultural technologies

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
2 effective foundation seed systems for		Item	Spent
Orange Fleshed Sweet Potato validated & promoted for utilization of Vit A rich food		211103 Allowances (Inc. Casuals, Temporary)	4,902
in Busoga sub region 2 of elite breeders seed for niche products		221011 Printing, Stationery, Photocopying and Binding	393
of elite arabica coffee & brewing cassava		224001 Medical Supplies	2,841
varieties availed		224006 Agricultural Supplies	17,385
	and Q160152 selected and due for	227001 Travel inland	9,037
	planting in farmer participatory demos,	227004 Fuel, Lubricants and Oils	4,058
	and for QPM validation test	228002 Maintenance - Vehicles	604
Reasons for Variation in performance			
		Total	39,218
		Wage Recurrent	0
		Non Wage Recurrent	39,218
		AIA	0
Budget Output: 02 Research extension in	nterface promoted and strengthened		
One fish farmers supported in improved	Five fish farmers and three extension	Item	Spent
fish farming One niche products and accompanying	workers trained on fish farm management to Mbale fish fry centre.	211103 Allowances (Inc. Casuals, Temporary)	5,799
productivity improvement identified Economic value from use of new coffee		221011 Printing, Stationery, Photocopying and Binding	478
berry disease disease management options		224001 Medical Supplies	3,034
in Mt. Elgon		224006 Agricultural Supplies	20,366
		227001 Travel inland	11,001
		227004 Fuel, Lubricants and Oils	5,463
Reasons for Variation in performance			
		Total	46,139
		Wage Recurrent	0
		Non Wage Recurrent	46,139
		AIA	0

Budget Output: 04 Agricultural research capacity strengthened

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
1 agriculture technologies developed & disseminated, 1agriculture technologies developed & disseminated for uptake	Buginyanya ZARDI physical resources (offices, laboratories, field machinery, office equipment) secured, maintained and	Item	Spent
		211103 Allowances (Inc. Casuals, Temporary)	8,544
	fully functional - two administrative,	221007 Books, Periodicals & Newspapers	1,221
	and submitted Staff wages and security services sourced and paid during the quarter.	221009 Welfare and Entertainment	814
		221011 Printing, Stationery, Photocopying and Binding	2,848
		221012 Small Office Equipment	1,628
		222001 Telecommunications	3,255
		222003 Information and communications technology (ICT)	3,255
		223004 Guard and Security services	4,069
		223005 Electricity	2,441
		223006 Water	2,441
		224004 Cleaning and Sanitation	2,035
		226001 Insurances	814
		227001 Travel inland	4,066
		227004 Fuel, Lubricants and Oils	6,125
		228001 Maintenance - Civil	2,034
		228002 Maintenance - Vehicles	6,103
		228003 Maintenance – Machinery, Equipment & Furniture	2,035
		228004 Maintenance - Other	2,035
		273102 Incapacity,death benefits and funeral expenses	814
Reasons for Variation in performance			
		Total	56,572
		Wage Recurrent	0
		Non Wage Recurrent	56,572
		AIA	0
		Total For Department	141,929
		Wage Recurrent	0
		Non Wage Recurrent	141,929
		AIA	0
Departments			

Department: 21 Rwebitaba ZARDI

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
250 open pollinated seeds collected from	from 250 open pollinated seeds collected from selected parental materials in the existing germplasm field and germinated.	Item	Spent
selected 1 elite parents from the existing		211103 Allowances (Inc. Casuals, Temporary)	21,631
germplasm conserved identified 10 tea clones characterized for		221011 Printing, Stationery, Photocopying and Binding	7,927
biochemical attributes		224001 Medical Supplies	7,099
		224006 Agricultural Supplies	71,305
		227001 Travel inland	18,439
		228002 Maintenance - Vehicles	6,862
		228003 Maintenance – Machinery, Equipment & Furniture	2,500
Reasons for Variation in performance			
		Total	135,762
		Wage Recurrent	0
		Non Wage Recurrent	135,762
		AIA	0
Budget Output: 02 Research extension i	nterface promoted and strengthened		
1 acres of early generation potato seed	6 plots for technological innovations	Item	Spent
2 tons and 1.5 tons of potato and bean foundation seed respectively	maintained and or re-established and 200 farmers learn from them	211103 Allowances (Inc. Casuals, Temporary)	1,161
harvested and availed to community seed systems/ local seed		221011 Printing, Stationery, Photocopying and Binding	265
•		224006 Agricultural Supplies	12,201
		227001 Travel inland	829
Reasons for Variation in performance			
Work still on-going			
		Total	14,456
		Wage Recurrent	0
		Non Wage Recurrent	14,456
		AIA	0

Budget Output: 04 Agricultural research capacity strengthened

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
One PARI director's forum meetings and and 3 institute committee meetings held to	director's forum meetings and and 3 institute committee meetings held to guide research activities The institute machinery and equipment maintained The institute research facilities maintained	Item	Spent
		211103 Allowances (Inc. Casuals, Temporary)	5,160
guide research activities The institute machinery and equipment		213002 Incapacity, death benefits and funeral expenses	669
maintained		221007 Books, Periodicals & Newspapers	796
The institute research facilities maintained		221009 Welfare and Entertainment	1,592
		221011 Printing, Stationery, Photocopying and Binding	1,989
		222001 Telecommunications	995
		223004 Guard and Security services	1,459
		223005 Electricity	1,592
		223006 Water	4,145
		224004 Cleaning and Sanitation	2,918
		224005 Uniforms, Beddings and Protective Gear	995
		226001 Insurances	176
		227001 Travel inland	6,218
		227004 Fuel, Lubricants and Oils	3,647
		228001 Maintenance - Civil	995
		228002 Maintenance - Vehicles	897
Reasons for Variation in performance			
		Total	34,238
		Wage Recurrent	0
		Non Wage Recurrent	34,238
		AIA	. 0
		Total For Department	184,455
		Wage Recurrent	0
		Non Wage Recurrent	184,455
Departments		AIA	. 0
Department: 26 NARO Internal Audit			
Outputs Provided			

Budget Output: 03 Internal Audit

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
One semi annual Audit rport produced.	4 internal audit staff train in enterprise	Item	Spent
Two Audit reports developed: One Off	risk management with IIA	221003 Staff Training	2,800
budget project audit report One audit report on assets utilization and safety, compliance with PPDA Act report	6 Internal Audit staff together with the DG and a member of the A & R Committee attend the annual IIA conference to build on the CPDs One audit report produced on the performance of NTR on generation of NTR to support research. Hands on training, coaching of audit staff, review of reports and working papers at MbaZARDI and KaZARDI Special audits supported at ARDC-Kajjansi and at the reallocation to Maruzi.	the 227001 Travel inland 69, of it staff, rs at	69,148
	Consultative risk management meetings at PARIs to indentify risks, mitigation controls and update of the risk register held one performance/ core research audit report produced. one audit report on the Technology transfer and promotion with emphasis on ICT enhancement and incubation services produced. A report on public relations produced.Risk Register updated.		

Reasons for Variation in performance

Total	71,948
Wage Recurrent	0
Non Wage Recurrent	71,948
AIA	0
Total For Department	71,948
Wage Recurrent	0
Non Wage Recurrent	71,948
AIA	0

Departments

Department: 27 National Coffee Research Institute

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
One high value coffee & cocoa products	Cocoa wine made from cocoa pulp,	Item	Spent
prototypes developed and 1 putative drought tolerant accessions	commercial sales of the wine are ongoing at a small scale at the institute. Chocolate prototypes including chocolate bars made, analysis and defining of the product profiles is planned.	211103 Allowances (Inc. Casuals, Temporary)	2,437
collected cloned for phenotyping		221001 Advertising and Public Relations	1,108
5,000 TC-derived coffee plantlets produced & delivered.		221007 Books, Periodicals & Newspapers	2,030
Ide		221011 Printing, Stationery, Photocopying and Binding	118
		224006 Agricultural Supplies	4,895
		225001 Consultancy Services- Short term	14,141
		227001 Travel inland	13,259
		227004 Fuel, Lubricants and Oils	6,156
Reasons for Variation in performance			
Work on-going		Total	44,141
		Wage Recurrent	,
		Non Wage Recurrent	
		AIA	
Budget Output: 02 Research extension i	nterface promoted and strengthened		
Research and extension interface	4 farmer groups trained in cocoa PHH and	Item	Spent
promoted and strengthened through maintenance of ITC infrastructure Promotion of better coffee varieties	2 in coffee GAPs and PHH Met with Movit Products Ltd on possibility of commercializing coffee byproducts. MoU and licensing agreement for facial scrub underway • Met with Jesa Ltd on prospects of commercializing coffee-infused yoghurt. Product is being refined with commercially available yoghurt stabilisers. 6 MSc students and 2 PhD students	221008 Computer supplies and Information Technology (IT)	1,772
Reasons for Variation in performance			
		Total	1,772
		Wage Recurrent	0
		Non Wage Recurrent	1,772
		AIA	0
Budget Output: 04 Agricultural research	h capacity strengthened		
Research capacity strengthened through	NACORI human resources and physical	Item	Spent
One 1 (01) advisory committee meetings, routine maintenance of research	resources (offices, laboratories, field machinery, office equipment) secured,	211103 Allowances (Inc. Casuals, Temporary)	7,178
infrastructure, machinery and equipment,		221001 Advertising and Public Relations	1,846
securing research activity sites and motivating staff notify more CWD pathogen specific primers		227004 Fuel, Lubricants and Oils	36,718
Reasons for Variation in performance			

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
		Total	45,742
		Wage Recurrent	ŕ
		Non Wage Recurrent	
		AIA	0
		Total For Department	91,655
		Wage Recurrent	0
		Non Wage Recurrent	91,655
		AIA	0
Development Projects			
Project: 1560 Relocation and Operationa	alisation of the National Livestock Resou	rces Research Institute (NALIRRI)	
Outputs Provided			
Budget Output: 01 Generation of agricul	ltural technologies		
Five hundred (500) tons of silage and hay	1) 75 low cost embryos produced.	Item	Spent
produced to support livestock dry season farming for improved production and	2) 70 elite calves for Jersey and Friesian	211103 Allowances (Inc. Casuals, Temporary)	20,000
productivity	crosses produced	224001 Medical Supplies	35,000
50 tons of grain soya, maize and sunflower produced		224006 Agricultural Supplies	35,000
MT tons	3) tons of Livestock feed, silage and hay and input for feed were produced as	227001 Travel inland	10,000
	follows:	227004 Fuel, Lubricants and Oils	20,000
	 a) 400 tons of sillage produced b) 5. 4750 tons of hay from 20 acres produced; c) 20 tons of soya, 30 tons of maize produced. d) 1.5 MT of forage seed produced 	228002 Maintenance - Vehicles	10,000
Reasons for Variation in performance			
		Total	130,000
		GoU Development	130,000
		External Financing	0
		AIA	. 0

Budget Output: 72 Government Buildings and Administrative Infrastructure

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
One office block with a store renovation	1) Hay barn at Maruzi at 100%. Defects	Item	Spent
initiated at Nakyesasa. 5km of road network to ease access to	liability period expired. Contractor has addressed all the identified contractual	312101 Non-Residential Buildings	695,762
research facilities developed at Maruzi.	snags.	312102 Residential Buildings	375,109
One all inclusive administration block construction supported. One hay barn construction initiated at Nakyesasa 500 meter tarmack initiated for increased access to the facilities sopported.	Construction of Calf/Heifer Barn - Project Progress: 30%. Target progress- 45%. Chain link fence construction on going, hardcore filling done, casting the slab done, curing the slab on going,	312104 Other Structures	135,000
	3) Construction of Maruzi Access Road-8KM Project Progress:85% Target progress-90% Mobilization. Shaping done, Murram filling done, Compaction of the murram on going, mitre drains provisions done, 4) Construction/ Extension of power line & Reticulation to the Maruzi Farm-Apac Contract signed, contractor is mobilizing and securing clearances from UEDCL 5) Construction of Residential Houses at Maruzi - Contract to be signed.		
	8) Water extension project to Maruzi - Procurement process ongoing. 9) Extra works at Maruzi-Assorted works - Contract signed, contractor is mobilizing .		

Reasons for Variation in performance

1) Construction of a Main Admin Block at Maruzi - Procurement process concluded but not signed due to limited funds.

2) Construction of a Grain Store and Hay Barn -

Procurement process concluded but not signed due to limited funds.

Total	1,205,871
GoU Development	1,205,871
External Financing	0
AIA	0
Total For Project	1,335,871
GoU Development	1,335,871
External Financing	0
AIA	0

Development Projects

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
Project: 1619 Retooling of National Agr	icultural Research Organization		
Outputs Provided			
Budget Output: 01 Generation of agricu	ltural technologies		
Support to development of 50	Thru CGS support was given development	Item	Spent
technologies, 20 innovations to support improved production and productivity for	of 10 technologies, 5 innovations	211103 Allowances (Inc. Casuals, Temporary)	340,073
accelerated agro Industrialization.		221001 Advertising and Public Relations	15,779
		221003 Staff Training	10,318
		221006 Commissions and related charges	172
		221008 Computer supplies and Information Technology (IT)	14,465
		221011 Printing, Stationery, Photocopying and Binding	24,578
		222001 Telecommunications	615
		222003 Information and communications technology (ICT)	50,263
		223005 Electricity	9,273
		223006 Water	891
		224001 Medical Supplies	203,457
		224005 Uniforms, Beddings and Protective Gear	750
		224006 Agricultural Supplies	982,114
		225001 Consultancy Services- Short term	118,123
		227001 Travel inland	708,747
		227004 Fuel, Lubricants and Oils	65,043
		228002 Maintenance - Vehicles	7,040
Pagana for Variation in partour and		228003 Maintenance – Machinery, Equipment & Furniture	5,328

Reasons for Variation in performance

Narratives about the 50 technologies and 20 innovations have been reported under the Key vote performance highlights for the reporting period.

Total	2,557,028
GoU Development	2,557,028
External Financing	0
AIA	0

Budget Output: 02 Research extension interface promoted and strengthened

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
Two technology promotion interfaces	conducted	Item	Spent
conducted Two automated technology promotion		211103 Allowances (Inc. Casuals, Temporary)	52,863
tools developed	2) Two automated technology promotion	221001 Advertising and Public Relations	157,298
25 technological innovations delivered to uptake pathways	tools developed.	221003 Staff Training	8,482
5 partnerships developed for technology	3) 20 seed company engaged in	221007 Books, Periodicals & Newspapers	2,379
multiplication and promotion	partnerships for technology multiplication and promotion.	221008 Computer supplies and Information Technology (IT)	12,410
		221011 Printing, Stationery, Photocopying and Binding	17,913
		222001 Telecommunications	317
		222003 Information and communications technology (ICT)	94,072
		224001 Medical Supplies	10,653
		224006 Agricultural Supplies	42,002
		227001 Travel inland	210,493
		227004 Fuel, Lubricants and Oils	7,762
		228002 Maintenance - Vehicles	2,214
		228003 Maintenance – Machinery, Equipment & Furniture	662
Reasons for Variation in performance			

Reasons for Variation in performance

Two automated technology promotion have prioritized due to resource availability. Six will be prioritized next financial year.

Total	619,520
GoU Development	619,520
External Financing	0
AIA	0

Budget Output: 04 Agricultural research capacity strengthened

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
4 research institutes research infrastructure		Item	Spent
maintained	Kiryandongo District	211103 Allowances (Inc. Casuals, Temporary)	5,833
one institute laboratory supported for accreditation	2) Construction, Extension of Power-line	221001 Advertising and Public Relations	634
4 laboratory equipment	and reticulation to the Maruzi Farm.	221003 Staff Training	164,518
maintained/serviced NARO wide training plan 2021_22	3) Upgrading the Irrigation Water System.	221004 Recruitment Expenses	24,123
developed		221006 Commissions and related charges	415
	4) Establishment of a Incubation Hub at Mukono ZARDI .	221008 Computer supplies and Information Technology (IT)	328,518
	5) Construction of a Screen House at	221009 Welfare and Entertainment	6,473
	NaFORRI	221011 Printing, Stationery, Photocopying and Binding	34,044
	6) Construciton of a Road Network at Nalirri	221012 Small Office Equipment	1,798
	- \	221016 IFMS Recurrent costs	29,100
		221017 Subscriptions	24,050
		222003 Information and communications technology (ICT)	18,701
		223005 Electricity	877
		223006 Water	4,972
		224004 Cleaning and Sanitation	380
		224006 Agricultural Supplies	80,767
		225001 Consultancy Services- Short term	23,029
		226002 Licenses	11,527
		227001 Travel inland	251,114
		227004 Fuel, Lubricants and Oils	23,763
		228001 Maintenance - Civil	28,898
		228002 Maintenance - Vehicles	16,060
		228003 Maintenance – Machinery, Equipment & Furniture	5,861
Reasons for Variation in performance		228004 Maintenance – Other	2,005
		Total	1,087,46
		GoU Development	, ,
		External Financing	
		AIA	
Outputs Funded			
Budget Output: 51 Payments to Internat	tional Organisations (CGIAR, ASARECA	A, WARDA)	
Quarterly Compliance to 6 international organizations (CGIAR, ASERECA, FARA, CABI WADRA and BeCA) and autonomous institutions strengthened.	Quarterly compliance to 6 international organizations (CGIAR, ASERECA, FARA, CABI WADRA and BeCA) and autonomous institutions strengthened.	Item 262201 Contributions to International Organisations (Capital)	Spent 453,071

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Thousand	Quarter to deliver outputs	Quarter	
al 453,071	Total		
ent 453,071	GoU Development		
ng 0	External Financing		
1A 0	AIA		

Capital Purchases

Budget Output: 72 Government Buildings and Administrative Infrastructure

Kigumba to demonstrate climate smart agriculture.

Support establishment of Five
Agricultural research facilities across four public research
Institutes of NaCCORI multipurpose cocoa and coffee research laboratory,
NARL, NaLIRRI multipurpose vaccine research and Production laboratory and

1)Construct NALIRRI description (NALIRRI Section 1)Construct NALIRRI (NaLIRRI multipurpose vaccine research and Production laboratory and Nalirri.

Rwebitaba tea research laboratory for

efficient delivery of research services to accelerate Agro Industrialization.

One irrigation facility established at

Outputs Planned in Ouarter

Construction of a Hass screen House at NAFORRI.
 Construction of road network at NALIRRI
 Construction of diagonistic laboratory at Kajansi
 Mbarara seed sorting facility.
 Construction of Road Network at Nalirri.
 Rehabilitation & Remodelling of NARO Incubation centre at MuZARDI.

Civil works at 100% completion

Actual Outputs Achieved in

ItemSpent281504 Monitoring, Supervision & Appraisal
of Capital work267,534312101 Non-Residential Buildings3,946,018312102 Residential Buildings200,000312104 Other Structures25,212

UShs

Expenditures incurred in the

Others civil works
a) NACORI multipurpose laboratory
ongoing at 99%. b) Multi purpose vaccine facility
construction at Nakyesasa at 65%. c) Construction of start up structures
(paddock fencing, cattle dip,water
reticulation, fencing, toilet hay barn &
containers), at Maruzi. - roject work
progress at 82%. d) Namalele Administration block
construction at Namalere work progress at
50% complete. -

e) Aflasafe plant construction at Nakyesasa Project progress at 80% complete.

Reasons for Variation in performance

- 1) Construction of a Grain Store and Hay Barn Procurement process concluded but contract not signed due to limited funds.
- 2) Establishing an irrigation facility NACRR was not done due to lack of funds.
- 3) Some civil works were a spil-over from previous years.
- 4) Slow progress is due contractors not mobilizing construction materials in time.
- 5) Upgrading the Irrigation Water Systems at still in procurement process. It is at awaiting for submission of Designs/Bills of Quantities.

Total 4,438,763
GoU Development 4,438,763
External Financing 0

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	uts Planned in Quarter Actual Outputs Achieved in Quarter Expenditures incurred in the Quarter to deliver outputs			JShs Thousand
			AIA	(
Budget Output: 76 Purchase of Office ar	nd ICT Equipment, including Software			
One Agricultural intelligence tool acquired to support research decision making. One Agricultural Research Big data center developed to support data collection management and disseminations. Two digital research platforms developed One NARO knowledge products developed for technology dissemination One value chain, digital online plat form	Two digital research platforms developed One on NARO knowledge products developed for technology dissemination One on value chain, digital online plat form developed. - Concept not on NARO big data was developed and ready for management approval.	Item		Spent
developed				
Reasons for Variation in performance				
Work still on going for 1)Five (5) Agricultural intelligence tools.				
Work differed for: 1) Six digital research platforms.				
2) Three NARO knowledge products devel	oped for technology dissemination.			
3) Five (5) value chain, digital online.				
		5	Γotal	(
		GoU Develop	ment	C
		External Final	_	(
D 1 40 4 4 77 D 1 40 4 1 1			AIA	(
Budget Output: 77 Purchase of Specialis		The same		G 4
Laboratory equipment for one laboratory for invitro and embryo transfer acquired and installed at NaLIRRI Nakyesasa. One workshop at NASARRI equipped to enhance innovation.	Laboratory equipment for one laboratory for invitro and embryo transfer acquired and installed at NaLIRRI Nakyesasa. One workshop at NASARRI equipped to enhance innovation.	Item 312214 Laboratory Equipments		Spent 1,100,000
Reasons for Variation in performance				
Reasons for Variation in performance		7	Γotal	1,100,000
Reasons for Variation in performance		GoU Develop		1,100,000
Reasons for Variation in performance			ment	
Reasons for Variation in performance		GoU Develop	ment	1,100,000
	nd Residential Furniture and Fittings	GoU Develop	ment ncing	1,100,000
Budget Output: 78 Purchase of Office ar One agriculture research facility at NaCORRI furnished to create enabling	od Residential Furniture and Fittings One agriculture research facility at NaCORRI furnished to create enabling environment for Cocoa and coffee.	GoU Develop	ment ncing	1,100,000
Reasons for Variation in performance Budget Output: 78 Purchase of Office ar One agriculture research facility at NaCORRI furnished to create enabling environment for Cocoa and coffee. Reasons for Variation in performance	One agriculture research facility at NaCORRI furnished to create enabling	GoU Develop External Finan	ment ncing	1,100,000 ((Spent

Vote: 142 National Agricultural Research Organisation

QUARTER 3: Outputs and Expenditure in Quarter

Outputs Planned in Quarter	Actual Outputs Achieved in Quarter	Expenditures incurred in the Quarter to deliver outputs	UShs Thousand
		GoU Development	22,995
		External Financing	0
		AIA	0
		Total For Project	10,278,839
		GoU Development	10,278,839
		External Financing	0
		AIA	0
		GRAND TOTAL	27,426,825
		Wage Recurrent	8,564,839
		Non Wage Recurrent	7,247,276
		GoU Development	11,614,710
		External Financing	0
		AIA	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

UShs Thousand Planned Outputs for the Quarter

Estimated Funds Available in Quarter

(from balance brought forward and actual/expected releaes)

Sub-SubProgramme: 51 Agricultural Research

Departments

Department: 01 Headquarters

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

1 Annual performance review conducted, 1 Statistical abstract FY2021/22 developed one physical and budget performance monitoring reports generated to inform management decisions.

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	3,498	875	4,373
221006 Commissions and related charges	16,020	30,000	46,020
227001 Travel inland	21,250	63,750	85,000
Total	40,768	94,625	135,393
Wage Recurrent	0	0	0
Non Wage Recurrent	40,768	94,625	135,393
AIA	0	0	0

Budget Output: 02 Research extension interface promoted and strengthened

One web-based technology promotion System developed Two identified technologies protected,

Three Intellectual Property management committee (IPMC) engagements coordinated

Three IP awareness policy coordinated, 8 Technology licensing agreements signed

Two Business plans and proposals developed and 3 digital based technology promotions conducted

Item	Balance b/f	New Funds	Total
221007 Books, Periodicals & Newspapers	0	3,843	3,843
221011 Printing, Stationery, Photocopying and Binding	0	50,000	50,000
221012 Small Office Equipment	1,770	2,000	3,770
222001 Telecommunications	33,830	50,000	83,830
222002 Postage and Courier	2,270	2,570	4,840
223005 Electricity	13,249	12,926	26,175
223006 Water	0	10,104	10,104
227001 Travel inland	30	15,750	15,780
Total	51,149	147,193	198,342
Wage Recurrent	0	0	0
Non Wage Recurrent	51,149	147,193	198,342
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Budget Output: 04 Agricultural research capacity strengthened

10 NARO staff supported for MScs and PhDs, 1000 acres of NARO secured through titling, Quarterly Compliance to 6 international organizations (CGIAR, ASERECA, FARA, CABI WADRA and BeCA) strengthened,

Coordinated Research oversight in the 16 PARIs strengthened to support development of research for products to stimulate industries,

Security enhanced in the 16 NARO PARIS,

1 routine facilities maintenance conducted in the 16 Public research institutes

trengthened			
Item	Balance b/f	New Funds	Total
211102 Contract Staff Salaries	0	8,558,307	8,558,307
211103 Allowances (Inc. Casuals, Temporary)	152	0	152
212101 Social Security Contributions	762,736	93,095	855,831
213001 Medical expenses (To employees)	0	169,373	169,373
213002 Incapacity, death benefits and funeral expenses	0	322,000	322,000
213004 Gratuity Expenses	0	2,139,577	2,139,577
221001 Advertising and Public Relations	869	668	1,537
221006 Commissions and related charges	0	2,672	2,672
221008 Computer supplies and Information Technology (IT)	663	662	1,325
221009 Welfare and Entertainment	22,276	80,368	102,644
221011 Printing, Stationery, Photocopying and Binding	0	1,027	1,027
221016 IFMS Recurrent costs	46,340	46,500	92,840
222001 Telecommunications	0	56	56
222003 Information and communications technology (ICT)	4,239	3,600	7,839
223004 Guard and Security services	6,732	2,909	9,641
223005 Electricity	40	0	40
224001 Medical Supplies	4,797	0	4,797
224004 Cleaning and Sanitation	9	2,435	2,444
224006 Agricultural Supplies	132,661	118,825	251,485
226001 Insurances	55,000	55,000	110,000
226002 Licenses	10,000	10,000	20,000
227001 Travel inland	68,462	69,984	138,447
227004 Fuel, Lubricants and Oils	22,956	94,533	117,489
228001 Maintenance - Civil	13,203	16,074	29,277
228002 Maintenance - Vehicles	599	39,808	40,407
228003 Maintenance – Machinery, Equipment & Furniture	5,814	18,310	24,124
228004 Maintenance - Other	3,805	10,000	13,805
273102 Incapacity,death benefits and funeral expenses	29,200	22,500	51,700
Total	1,190,552	11,878,282	13,068,834
Wage Recurrent	0	8,558,307	8,558,307
Non Wage Recurrent	1,190,552	3,319,974	4,510,527
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Department: 07 National Crops Resources Research Institute

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

Four technologies for food and nutrition security developed and submitted to the varieties release committee. The varieties have capacity to fight hidden hunger, improve production and productivity and also increase competitiveness agricultural products on mark.

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	19,373	19,373
Total	0	19,373	19,373
Wage Recurrent	0	0	0
Non Wage Recurrent	0	19,373	19,373
AIA	0	0	0

Budget Output: 02 Research extension interface promoted and strengthened

Four technologies delivered to uptake path ways for increased production and productivity and accelerated agro industrialization, food security and employment creation.

Item	Balance b/f	New Funds	Total
221001 Advertising and Public Relations	0	1,480	1,480
Total	0	1,480	1,480
Wage Recurrent	0	0	0
Non Wage Recurrent	0	1,480	1,480
AIA	0	0	0

Budget Output: 04 Agricultural research capacity strengthened

- 1) Four on-station field research facilities maintained.
- 2. Two Crop production facilities maintained to create enabling environment for Agriculture research.

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	1,480	1,480
221008 Computer supplies and Information Technology (IT)	0	1,368	1,368
221009 Welfare and Entertainment	0	1,960	1,960
221011 Printing, Stationery, Photocopying and Binding	0	3,700	3,700
222001 Telecommunications	0	2,960	2,960
223004 Guard and Security services	0	4,440	4,440
223005 Electricity	0	14,800	14,800
224004 Cleaning and Sanitation	0	2,960	2,960
226001 Insurances	0	474	474
227001 Travel inland	0	5,365	5,365
227004 Fuel, Lubricants and Oils	0	11,100	11,100
228002 Maintenance - Vehicles	0	11,840	11,840
228003 Maintenance – Machinery, Equipment & Furniture	0	2,220	2,220
Total	0	64,667	64,667
Wage Recurrent	0	0	0
Non Wage Recurrent	0	64,667	64,667
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Department: 08 National Fisheries Resources Research Institute

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

4,125 brood stock of fisheries resources acquired for sustainable seed production and Breeding that is; Two thousand five hundred (2500) Tilpia, Five thousand (1,000) catfish, One thousand (250) mirror carp and Five hundred (500) Barbus.

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	4,687	4,687
224006 Agricultural Supplies	0	3,903	3,903
227001 Travel inland	0	1,558	1,558
227004 Fuel, Lubricants and Oils	0	2,524	2,524
Total	0	12,671	12,671
Wage Recurrent	0	0	0
Non Wage Recurrent	0	12,671	12,671
AIA	0	0	0

Budget Output: 04 Agricultural research capacity strengthened

1 fish laboratory and one aquarium maintained & operationalized,
Fisheries Premises and assets protected/guarded for

improved safety

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	13,761	13,761
221001 Advertising and Public Relations	0	4,476	4,476
221007 Books, Periodicals & Newspapers	0	2,491	2,491
221008 Computer supplies and Information Technology (IT)	0	673	673
221009 Welfare and Entertainment	0	3,395	3,395
221011 Printing, Stationery, Photocopying and Binding	0	4,222	4,222
222001 Telecommunications	0	2,116	2,116
222003 Information and communications technology (ICT)	0	6,563	6,563
223004 Guard and Security services	0	5,914	5,914
223005 Electricity	0	6,564	6,564
223006 Water	0	4,088	4,088
224004 Cleaning and Sanitation	0	4,040	4,040
226001 Insurances	0	544	544
227001 Travel inland	0	6,073	6,073
227004 Fuel, Lubricants and Oils	0	8,598	8,598
228001 Maintenance - Civil	0	3,367	3,367
228002 Maintenance - Vehicles	0	5,896	5,896
228003 Maintenance – Machinery, Equipment & Furniture	0	5,320	5,320
Total	0	88,097	88,097
Wage Recurrent	0	0	0
Non Wage Recurrent	0	88,097	88,097
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Department: 09 National Forestry Resources Research Institute

Outputs Provided

Budget Output: 02 Research extension interface promoted and strengthened

 $50\ {\rm farmers}$ exposed to salient tree-crop interactions different farming systems

50 Stakeholder equipped with best agronomic practices for production of quality avocado and annona germplasm

Item	Balance b/f	New Funds	Total
221001 Advertising and Public Relations	0	1,084	1,084
221007 Books, Periodicals & Newspapers	0	867	867
221008 Computer supplies and Information Technology (IT)	0	1,807	1,807
Total	0	3,758	3,758
Wage Recurrent	0	0	0
Non Wage Recurrent	0	3,758	3,758
AIA	0	0	0

Budget Output: 04 Agricultural research capacity strengthened

Institute capacity to support agricultural research and innovations enhanced through routine maintenance of vital research support components (infrastructure, equipment, machinery, vehicles, computers & ICT); re-tooling and guidance of staff

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	6,394	6,394
221003 Staff Training	0	1,446	1,446
221009 Welfare and Entertainment	0	2,168	2,168
221011 Printing, Stationery, Photocopying and Binding	0	3,613	3,613
222001 Telecommunications	0	723	723
222002 Postage and Courier	0	289	289
222003 Information and communications technology (ICT)	0	6,812	6,812
223004 Guard and Security services	0	7,226	7,226
223005 Electricity	0	10,507	10,507
224004 Cleaning and Sanitation	0	5,949	5,949
224005 Uniforms, Beddings and Protective Gear	0	723	723
227001 Travel inland	0	5,780	5,780
227004 Fuel, Lubricants and Oils	0	7,074	7,074
228001 Maintenance - Civil	0	3,252	3,252
228002 Maintenance - Vehicles	0	6,411	6,411
228003 Maintenance – Machinery, Equipment & Furniture	0	2,529	2,529
Total	0	70,892	70,892
Wage Recurrent	0	0	0
Non Wage Recurrent	0	70,892	70,892
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Department: 10 National Livestock Resources Research

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

One anti-tick candidate vaccine molecule validated in various agro-ecological zones of Uganda.

One broad-spectrum chimeric anti-tick vaccine formulated & evaluated

Two FMD candidate vaccines evaluated. One African swine fever candidate vaccine evaluated on station

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	71,892	71,892
221003 Staff Training	0	23,885	23,885
221017 Subscriptions	0	8,998	8,998
222003 Information and communications technology (ICT)	0	32,487	32,487
223004 Guard and Security services	0	6,664	6,664
223005 Electricity	0	60,284	60,284
224001 Medical Supplies	0	77,611	77,611
224004 Cleaning and Sanitation	0	15,542	15,542
224005 Uniforms, Beddings and Protective Gear	0	12,820	12,820
224006 Agricultural Supplies	0	115,475	115,475
225001 Consultancy Services- Short term	0	20,825	20,825
227001 Travel inland	0	38,318	38,318
227004 Fuel, Lubricants and Oils	0	49,980	49,980
228001 Maintenance - Civil	0	33,320	33,320
228002 Maintenance - Vehicles	0	58,310	58,310
228003 Maintenance – Machinery, Equipment & Furniture	0	65,391	65,391
Total	0	691,800	691,800
Wage Recurrent	0	0	0
Non Wage Recurrent	0	691,800	691,800
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Budget Output: 04 Agricultural research capacity strengthened

3 livestock laboratories and one forage conservation facility maintained. Herbarium and two on-station field research facilities maintained. 10 research and production facilities maintained. Livestock laboratories and one forage conservation facility maintained. Herbarium and two on-station field research facilities maintained. 10 research and production facilities maintained.

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	26,784	26,784
221001 Advertising and Public Relations	0	2,715	2,715
221007 Books, Periodicals & Newspapers	0	362	362
221008 Computer supplies and Information Technology (IT)	0	3,620	3,620
221009 Welfare and Entertainment	0	5,429	5,429
221011 Printing, Stationery, Photocopying and Binding	0	5,791	5,791
221012 Small Office Equipment	0	1,564	1,564
222001 Telecommunications	0	1,448	1,448
223005 Electricity	0	2,172	2,172
224004 Cleaning and Sanitation	0	3,258	3,258
226001 Insurances	0	464	464
227001 Travel inland	0	2,974	2,974
227004 Fuel, Lubricants and Oils	0	7,239	7,239
228001 Maintenance - Civil	0	2,009	2,009
228002 Maintenance - Vehicles	0	6,515	6,515
228003 Maintenance – Machinery, Equipment & Furniture	0	2,425	2,425
273102 Incapacity,death benefits and funeral expenses	0	7,239	7,239
Total	0	82,005	82,005
Wage Recurrent	0	0	0
Non Wage Recurrent	0	82,005	82,005
AIA	0	0	0

Department: 11 National Semi arid Resources Research

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

5 sesame lines evaluated, 10 accessions of cowpea and 5 of pigeon pea characterized, one suitable soil & water conservation strategy generated & recommended for cotton production, Two farmer preferred cotton lines with industrial attributes identified

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	10,038	10,038
224006 Agricultural Supplies	0	11,783	11,783
227001 Travel inland	0	29,737	29,737
227004 Fuel, Lubricants and Oils	0	11,217	11,217
Total	. 0	62,774	62,774
Wage Recurrent	0	0	0
Non Wage Recurrent	0	62,774	62,774
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Budget Output: 04 Agricultural research capacity strengthened

14 acres of compound mowed and 3 office blocks maintained to create enabling environment for research One dissemination workshops conducted, 3 scientific committee meetings conducted to guide research

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	9,906	9,906
213002 Incapacity, death benefits and funeral expenses	0	2,901	2,901
221001 Advertising and Public Relations	0	2,901	2,901
221007 Books, Periodicals & Newspapers	0	2,176	2,176
221008 Computer supplies and Information Technology (IT)	0	4,802	4,802
221009 Welfare and Entertainment	0	4,352	4,352
221011 Printing, Stationery, Photocopying and Binding	0	5,077	5,077
222001 Telecommunications	0	1,451	1,451
223004 Guard and Security services	0	4,352	4,352
223005 Electricity	0	7,252	7,252
223006 Water	0	1,451	1,451
224004 Cleaning and Sanitation	0	4,352	4,352
226001 Insurances	0	440	440
227001 Travel inland	0	5,104	5,104
227004 Fuel, Lubricants and Oils	0	3,852	3,852
228002 Maintenance - Vehicles	0	5,802	5,802
Total	0	66,166	66,166
Wage Recurrent	0	0	0
Non Wage Recurrent	0	66,166	66,166
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Department: 12 National Laboratories Research

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

3 Value added product from maize, beans, vegetables for commercialization developed. Propagation systems developed for two plant genetic resources,500 genotypes from banana Hybrid seed generated.

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	13,950	13,950
221009 Welfare and Entertainment	0	543	543
221011 Printing, Stationery, Photocopying and Binding	0	2,378	2,378
222001 Telecommunications	0	418	418
223005 Electricity	0	6,015	6,015
224004 Cleaning and Sanitation	0	626	626
224006 Agricultural Supplies	0	77,166	77,166
227001 Travel inland	0	40,203	40,203
227004 Fuel, Lubricants and Oils	0	3,875	3,875
228002 Maintenance - Vehicles	0	501	501
228003 Maintenance – Machinery, Equipment & Furniture	0	1,252	1,252
Total	0	146,923	146,923
Wage Recurrent	0	0	0
Non Wage Recurrent	0	146,923	146,923
AIA	0	0	0

Budget Output: 02 Research extension interface promoted and strengthened

One batch of Agriculture Research Information Education Communication material developed and disseminated.

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	4,900	4,900
221011 Printing, Stationery, Photocopying and Binding	0	5,680	5,680
224006 Agricultural Supplies	0	77,100	77,100
227001 Travel inland	0	15,500	15,500
Total	0	103,180	103,180
Wage Recurrent	0	0	0
Non Wage Recurrent	0	103,180	103,180
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Budget Output: 04 Agricultural research capacity strengthened

One research management committees conducted to guide research Procedure for application of procedures and polices Institution machinery and equipment maintained.

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	33,892	33,892
* ***	-	,	
221001 Advertising and Public Relations	0	7,695	7,695
221003 Staff Training	0	5,500	5,500
221007 Books, Periodicals & Newspapers	0	2,003	2,003
221008 Computer supplies and Information Technology (IT)	0	9,065	9,065
221009 Welfare and Entertainment	0	7,796	7,796
221011 Printing, Stationery, Photocopying and Binding	0	7,510	7,510
221012 Small Office Equipment	0	2,086	2,086
222001 Telecommunications	0	1,440	1,440
222002 Postage and Courier	0	211	211
223004 Guard and Security services	0	16,714	16,714
223005 Electricity	0	18,757	18,757
227001 Travel inland	0	19,732	19,732
227004 Fuel, Lubricants and Oils	0	21,489	21,489
228001 Maintenance - Civil	0	3,721	3,721
228002 Maintenance - Vehicles	0	16,996	16,996
228003 Maintenance – Machinery, Equipment & Furniture	0	4,763	4,763
228004 Maintenance - Other	0	2,712	2,712
Total	0	182,077	182,077
Wage Recurrent	0	0	0
Non Wage Recurrent	0	182,077	182,077
AIA	0	0	0

Department: 13 Abi ZARDI

Outputs Provided

Budget Output: 02 Research extension interface promoted and strengthened

Two technology generated for increased production and productivity

Two innovation developed for increased production and productivity of priority commodities to support agroindustrialisation.

Item	Balance b/f	New Funds	Total
221001 Advertising and Public Relations	0	3,955	3,955
221008 Computer supplies and Information Technology (IT)	0	2,637	2,637
221011 Printing, Stationery, Photocopying and Binding	0	2,637	2,637
Total	0	9,228	9,228
Wage Recurrent	0	0	0
Non Wage Recurrent	0	9,228	9,228
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Budget Output: 04 Agricultural research capacity strengthened

One advisory committee and PARI directors forum, institute committee meetings conducted to guide and redirect research.

One 02) review and planning meeting held to guide to guide and redirect research.

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	7,864	7,864
221008 Computer supplies and Information Technology (IT)	0	1,318	1,318
221011 Printing, Stationery, Photocopying and Binding	0	2,637	2,637
222001 Telecommunications	0	7,200	7,200
223004 Guard and Security services	0	1,975	1,975
223005 Electricity	0	5,108	5,108
223006 Water	0	1,978	1,978
224004 Cleaning and Sanitation	0	1,978	1,978
224006 Agricultural Supplies	0	3,955	3,955
226001 Insurances	0	570	570
227001 Travel inland	0	7,909	7,909
227004 Fuel, Lubricants and Oils	0	3,818	3,818
228001 Maintenance - Civil	0	3,296	3,296
Total	0	49,603	49,603
Wage Recurrent	0	0	0
Non Wage Recurrent	0	49,603	49,603
AIA	0	0	0

Department: 14 Bulindi ZARDI

Outputs Provided

Budget Output: 02 Research extension interface promoted and strengthened

One technology dissemination Campaign conducted in the zone to improve production, productivity and agro based industries.

Item		Balance b/f	New Funds	Total
224001 Medical Supplies		0	1,400	1,400
224006 Agricultural Supplies		0	2,250	2,250
	Total	0	3,650	3,650
	Wage Recurrent	0	0	0
	Non Wage Recurrent	0	3,650	3,650
	AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Budget Output: 04 Agricultural research capacity strengthened

Strategically focused research activities supported by 1 advisory meeting

2 technologies availed to farmers for Improved linkage between Bulindi ZARDI, and the communities.

1 Annual report generated, disseminated and archived Equip the institution ICT facilities of the institute

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	3,903	3,903
221001 Advertising and Public Relations	0	5,055	5,055
221007 Books, Periodicals & Newspapers	0	472	472
221008 Computer supplies and Information Technology (IT)	0	6,740	6,740
221009 Welfare and Entertainment	0	2,620	2,620
221011 Printing, Stationery, Photocopying and Binding	0	3,370	3,370
221012 Small Office Equipment	0	3,370	3,370
223005 Electricity	0	7,110	7,110
224001 Medical Supplies	0	600	600
224006 Agricultural Supplies	0	1,786	1,786
226001 Insurances	0	674	674
227001 Travel inland	0	4,381	4,381
227004 Fuel, Lubricants and Oils	0	5,026	5,026
228002 Maintenance - Vehicles	0	8,425	8,425
Total	0	53,531	53,531
Wage Recurrent	0	0	0
Non Wage Recurrent	0	53,531	53,531
AIA	0	0	0

Department: 15 Kachwekano ZARDI

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

5 sorghum genotypes generated 2 demonstration sites established in 6 districts in SWHAEZ

Balance b/f **New Funds** Total 211103 Allowances (Inc. Casuals, Temporary) 0 1,062 1,062 224001 Medical Supplies 0 6,144 6,144 227001 Travel inland 3,563 3,563 227004 Fuel, Lubricants and Oils 1,470 1,470 Total 12,238 12,238 Wage Recurrent 0 0 Non Wage Recurrent 12,238 12,238 AIA 0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Budget Output: 02 Research extension interface promoted and strengthened

2 Demonstration site established in 1 districts in SWHAEZ with at least 3 new potato varieties introduced

Item	Balance b/f	New Funds	Total
221001 Advertising and Public Relations	0	2,488	2,488
224006 Agricultural Supplies	0	659	659
Total	0	3,147	3,147
Wage Recurrent	0	0	0
Non Wage Recurrent	0	3,147	3,147
AIA	0	0	0

Budget Output: 04 Agricultural research capacity strengthened

Enhancing institutional research capacity, safe through routine monitoring (4trips), safe guarding assets, servicing of computers (20times) and infrastructure vehicles(7) machinery (4) maintenance.

8			
Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	4,236	4,236
221001 Advertising and Public Relations	0	1,317	1,317
221007 Books, Periodicals & Newspapers	0	481	481
221008 Computer supplies and Information Technology (IT)	0	2,351	2,351
221009 Welfare and Entertainment	0	3,451	3,451
221011 Printing, Stationery, Photocopying and Binding	0	1,976	1,976
221012 Small Office Equipment	0	659	659
222001 Telecommunications	0	527	527
223005 Electricity	0	4,939	4,939
223006 Water	0	1,647	1,647
224004 Cleaning and Sanitation	0	5,061	5,061
226001 Insurances	0	330	330
227001 Travel inland	0	3,428	3,428
227004 Fuel, Lubricants and Oils	0	4,939	4,939
228002 Maintenance - Vehicles	0	3,952	3,952
Total	0	39,291	39,291
Wage Recurrent	0	0	0
Non Wage Recurrent	0	39,291	39,291
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Department: 16 Mukono ZARDI

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

1 agronomic practices of indigenous tomato, onions and Bambara nuts cultivars established 1 effective weed management options for groundnuts production identified and packaged for

Item	Balance b/f	New Funds	Total
221011 Printing, Stationery, Photocopying and Binding	0	5,700	5,700
222001 Telecommunications	0	2,036	2,036
223004 Guard and Security services	0	13,029	13,029
223005 Electricity	0	20,357	20,357
223006 Water	0	2,443	2,443
224006 Agricultural Supplies	0	10,177	10,177
227001 Travel inland	0	3,257	3,257
227004 Fuel, Lubricants and Oils	0	12,215	12,215
Total	0	69,213	69,213
Wage Recurrent	0	0	0
Non Wage Recurrent	0	69,213	69,213
AIA	0	0	0

Budget Output: 02 Research extension interface promoted and strengthened

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	1,250	1,250
224006 Agricultural Supplies	0	2,000	2,000
Total	0	3,250	3,250
Wage Recurrent	0	0	0
Non Wage Recurrent	0	3,250	3,250
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Budget Output: 04 Agricultural research capacity strengthened

One potential market opportunities analyzed 1 M&E report brief developed to guide management of research

1 partnership established

1000 stakeholders reached and 2 partnerships established 120 key market chain actors identified

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	4,143	4,143
221001 Advertising and Public Relations	0	4,386	4,386
221003 Staff Training	0	1,500	1,500
221007 Books, Periodicals & Newspapers	0	1,629	1,629
221008 Computer supplies and Information Technology (IT)	0	6,468	6,468
221009 Welfare and Entertainment	0	4,886	4,886
221011 Printing, Stationery, Photocopying and Binding	0	1,629	1,629
222002 Postage and Courier	0	1,222	1,222
224004 Cleaning and Sanitation	0	10,004	10,004
226001 Insurances	0	570	570
228001 Maintenance - Civil	0	10,559	10,559
228002 Maintenance - Vehicles	0	10,308	10,308
228003 Maintenance – Machinery, Equipment & Furniture	0	4,479	4,479
228004 Maintenance - Other	0	2,036	2,036
273102 Incapacity,death benefits and funeral expenses	0	1,222	1,222
Total	0	65,038	65,038
Wage Recurrent	0	0	0
Non Wage Recurrent	0	65,038	65,038
AIA	0	0	0

Department: 17 Ngetta ZARDI

1 mango fruit fly IPM strategy developed

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

1 effective technique for estimating weed seed quantity and type in soil developed 1 integrated approach for managing weeds in maize under

CA systems developed

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	1,771	1,771
221001 Advertising and Public Relations	0	1,740	1,740
221011 Printing, Stationery, Photocopying and Binding	0	103	103
222001 Telecommunications	0	578	578
224001 Medical Supplies	0	2,106	2,106
224006 Agricultural Supplies	0	7,627	7,627
227001 Travel inland	0	6,851	6,851
Total	0	20,775	20,775
Wage Recurrent	0	0	0
Non Wage Recurrent	0	20,775	20,775
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Budget Output: 02 Research extension interface promoted and strengthened

One technology for food, nutrition and industry promoted with in the zone

Item	Balance b/f	New Funds	Total
221001 Advertising and Public Relations	0	672	672
221008 Computer supplies and Information Technology (IT)	0	2,016	2,016
224006 Agricultural Supplies	0	5,010	5,010
Total	0	7,697	7,697
Wage Recurrent	0	0	0
Non Wage Recurrent	0	7,697	7,697
AIA	0	0	0

Budget Output: 04 Agricultural research capacity strengthened

Institutional research infrastructures maintained to aid research for products and industry.

Research undertakings quidded and redirected through one research committee meeting.

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	143	143
221008 Computer supplies and Information Technology (IT)	0	3,427	3,427
221011 Printing, Stationery, Photocopying and Binding	0	1,680	1,680
222001 Telecommunications	0	336	336
223004 Guard and Security services	0	6,047	6,047
223005 Electricity	0	2,305	2,305
223006 Water	0	2,590	2,590
224004 Cleaning and Sanitation	0	1,680	1,680
227001 Travel inland	0	4,300	4,300
227004 Fuel, Lubricants and Oils	0	5,374	5,374
228002 Maintenance - Vehicles	0	5,375	5,375
Total	0	33,256	33,256
Wage Recurrent	0	0	0
Non Wage Recurrent	0	33,256	33,256
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Department: 18 Nabium ZARDI

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

250 kgs of better performing pasture seed (8 acres of planting material) species (Chloris gayana, Centrocema, for increased production and productivity of livestock

115 cattles; 30 Sahiwal and 15 friesian cattle crosses and 70 zebu cattle multiplied on-station to increase availability to farmers

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	5,499	5,499
221001 Advertising and Public Relations	0	220	220
221008 Computer supplies and Information Technology (IT)	0	960	960
221011 Printing, Stationery, Photocopying and Binding	0	438	438
224001 Medical Supplies	0	2,340	2,340
224006 Agricultural Supplies	0	3,812	3,812
227001 Travel inland	0	1,535	1,535
227004 Fuel, Lubricants and Oils	0	1,683	1,683
228002 Maintenance - Vehicles	0	1,296	1,296
Total	0	17,781	17,781
Wage Recurrent	0	0	0
Non Wage Recurrent	0	17,781	17,781
AIA	0	0	0

Budget Output: 02 Research extension interface promoted and strengthened

Promotion and popularization of 1 selected crop, natural resources and animal value chain products and bi-products in $\ensuremath{\mathsf{NEAZ}}$

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	455	455
221001 Advertising and Public Relations	0	202	202
221003 Staff Training	0	135	135
221008 Computer supplies and Information Technology (IT)	0	202	202
221011 Printing, Stationery, Photocopying and Binding	0	202	202
224001 Medical Supplies	0	505	505
224006 Agricultural Supplies	0	842	842
227001 Travel inland	0	404	404
227004 Fuel, Lubricants and Oils	0	202	202
228002 Maintenance - Vehicles	0	270	270
Total	0	3,418	3,418
Wage Recurrent	0	0	0
Non Wage Recurrent	0	3,418	3,418
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Budget Output: 04 Agricultural research capacity strengthened

Local, regional, national and international cooperation on and access to science, technology, innovation and knowledge sharing enhanced.

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Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	3,899	3,899
221001 Advertising and Public Relations	0	539	539
221007 Books, Periodicals & Newspapers	0	337	337
221009 Welfare and Entertainment	0	1,010	1,010
221011 Printing, Stationery, Photocopying and Binding	0	1,347	1,347
222002 Postage and Courier	0	218	218
223004 Guard and Security services	0	2,330	2,330
223005 Electricity	0	1,523	1,523
224004 Cleaning and Sanitation	0	1,452	1,452
224005 Uniforms, Beddings and Protective Gear	0	428	428
226001 Insurances	0	258	258
227001 Travel inland	0	2,020	2,020
227004 Fuel, Lubricants and Oils	0	4,809	4,809
228001 Maintenance - Civil	0	2,693	2,693
228002 Maintenance - Vehicles	0	6,733	6,733
228003 Maintenance – Machinery, Equipment & Furniture	0	2,693	2,693
273102 Incapacity,death benefits and funeral expenses	0	539	539
Total	0	32,824	32,824
Wage Recurrent	0	0	0
Non Wage Recurrent	0	32,824	32,824
AIA	0	0	0

Department: 19 Mbarara ZARDI

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

1Carbohydrate and cellulose digesting bacteria isolated 1 detailed research protocol developed.

1 research protocol developed and pretested in 5 farmer groups of 2 districts

1 appropriate formula of carbohydrate & cellulose digesting bacteria packaged

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	6,034	6,034
223004 Guard and Security services	0	330	330
224001 Medical Supplies	0	4,946	4,946
224006 Agricultural Supplies	0	6,694	6,694
227001 Travel inland	0	4,452	4,452
227004 Fuel, Lubricants and Oils	0	2,473	2,473
Total	0	24,928	24,928
Wage Recurrent	0	0	0
Non Wage Recurrent	0	24,928	24,928
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Budget Output: 02 Research extension interface promoted and strengthened

Four research technologies delivered to uptake pathways for increased production and productivity.

Item	Balance b/f	New Funds	Total
222003 Information and communications technology (ICT)	0	1,194	1,194
224006 Agricultural Supplies	0	2,785	2,785
Total	0	3,979	3,979
Wage Recurrent	0	0	0
Non Wage Recurrent	0	3,979	3,979
AIA	0	0	0

Budget Output: 04 Agricultural research capacity strengthened

Maintenance of institute IT infrastructures 15 institute research facilities maintained Assorted institute machinery maintained 1round in the quarter

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	1,957	1,957
221001 Advertising and Public Relations	0	1,085	1,085
221008 Computer supplies and Information Technology (IT)	0	1,649	1,649
221009 Welfare and Entertainment	0	1,979	1,979
221011 Printing, Stationery, Photocopying and Binding	0	2,638	2,638
222001 Telecommunications	0	660	660
223004 Guard and Security services	0	3,957	3,957
223005 Electricity	0	2,638	2,638
223006 Water	0	1,319	1,319
224004 Cleaning and Sanitation	0	2,638	2,638
226001 Insurances	0	399	399
227001 Travel inland	0	3,957	3,957
227004 Fuel, Lubricants and Oils	0	3,295	3,295
228001 Maintenance - Civil	0	989	989
228002 Maintenance - Vehicles	0	3,877	3,877
228003 Maintenance – Machinery, Equipment & Furniture	0	989	989
Total	0	34,023	34,023
Wage Recurrent	0	0	0
Non Wage Recurrent	0	34,023	34,023
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Department: 20 Buginyaya ZARDI

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

2 effective foundation seed systems for Orange Fleshed Sweet Potato validated & promoted for utilization of Vit A rich food in Busoga sub region

2 of elite breeders seed for niche products of elite arabica coffee & brewing cassava varieties availed

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	4,902	4,902
221011 Printing, Stationery, Photocopying and Binding	0	393	393
224001 Medical Supplies	0	2,841	2,841
224006 Agricultural Supplies	0	13,075	13,075
227001 Travel inland	0	9,037	9,037
227004 Fuel, Lubricants and Oils	0	4,058	4,058
228002 Maintenance - Vehicles	0	604	604
Total	0	34,908	34,908
Wage Recurrent	0	0	0
Non Wage Recurrent	0	34,908	34,908
AIA	0	0	0

Budget Output: 02 Research extension interface promoted and strengthened

One fish farmers supported in improved fish farming Two niche products and accompanying productivity improvement identified

Economic value from use of new coffee berry disease disease management options in Mt. Elgon

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	5,799	5,799
221011 Printing, Stationery, Photocopying and Binding	0	478	478
224001 Medical Supplies	0	3,034	3,034
224006 Agricultural Supplies	0	13,313	13,313
227001 Travel inland	0	11,001	11,001
227004 Fuel, Lubricants and Oils	0	5,463	5,463
Total	0	39,086	39,086
Wage Recurrent	0	0	0
Non Wage Recurrent	0	39,086	39,086
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Budget Output: 04 Agricultural research capacity strengthened

1 agriculture technologies developed & disseminated, 1 agriculture technologies developed & disseminated for uptake

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	8,544	8,544
221007 Books, Periodicals & Newspapers	0	1,221	1,221
221009 Welfare and Entertainment	0	814	814
221011 Printing, Stationery, Photocopying and Binding	0	2,848	2,848
221012 Small Office Equipment	0	1,628	1,628
222001 Telecommunications	0	3,255	3,255
222003 Information and communications technology (ICT)	0	3,255	3,255
223004 Guard and Security services	0	4,069	4,069
223005 Electricity	0	2,441	2,441
223006 Water	0	2,441	2,441
224004 Cleaning and Sanitation	0	2,035	2,035
226001 Insurances	0	814	814
227001 Travel inland	0	4,066	4,066
227004 Fuel, Lubricants and Oils	0	6,125	6,125
228001 Maintenance - Civil	0	2,034	2,034
228002 Maintenance - Vehicles	0	6,103	6,103
228003 Maintenance – Machinery, Equipment & Furniture	0	2,035	2,035
228004 Maintenance - Other	0	2,035	2,035
273102 Incapacity,death benefits and funeral expenses	0	814	814
Total	0	56,572	56,572
Wage Recurrent	0	0	0
Non Wage Recurrent	0	56,572	56,572
AIA	0	0	0

Department: 21 Rwebitaba ZARDI

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

250 open pollinated seeds collected from selected 2 elite parents from the existing germplasm conserved identified

10 tea clones characterized for biochemical attributes

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	21,631	21,631
221011 Printing, Stationery, Photocopying and Binding	0	7,927	7,927
224001 Medical Supplies	0	7,099	7,099
224006 Agricultural Supplies	0	54,905	54,905
227001 Travel inland	0	18,439	18,439
228002 Maintenance - Vehicles	0	6,862	6,862
228003 Maintenance – Machinery, Equipment & Furniture	0	2,500	2,500
Total	0	119,362	119,362
Wage Recurrent	0	0	0
Non Wage Recurrent	0	119,362	119,362
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Budget Output: 02 Research extension interface promoted and strengthened

1 tons and 1.5 tons of potato and bean foundation seed

harvested and availed to community seed systems/local

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	1,161	1,161
221011 Printing, Stationery, Photocopying and Binding	0	265	265
224006 Agricultural Supplies	0	7,401	7,401
227001 Travel inland	0	829	829
Total	0	9,656	9,656
Wage Recurrent	0	0	0
Non Wage Recurrent	0	9,656	9,656
AIA	0	0	0

Budget Output: 04 Agricultural research capacity strengthened

One Advisory committee, one PARI director's forum meetings and and

3 institute committee meetings held to guide research activities

The institute machinery and equipment maintained

The institute research facilities maintained

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Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	5,160	5,160
213002 Incapacity, death benefits and funeral expenses	0	669	669
221007 Books, Periodicals & Newspapers	0	796	796
221009 Welfare and Entertainment	0	1,592	1,592
221011 Printing, Stationery, Photocopying and Binding	0	1,989	1,989
222001 Telecommunications	0	995	995
223004 Guard and Security services	0	1,459	1,459
223005 Electricity	0	1,592	1,592
223006 Water	0	4,145	4,145
224004 Cleaning and Sanitation	0	2,918	2,918
224005 Uniforms, Beddings and Protective Gear	0	995	995
226001 Insurances	0	176	176
227001 Travel inland	0	6,218	6,218
227004 Fuel, Lubricants and Oils	0	3,647	3,647
228001 Maintenance - Civil	0	995	995
228002 Maintenance - Vehicles	0	897	897
Total	0	34,238	34,238
Wage Recurrent	0	0	0
Non Wage Recurrent	0	34,238	34,238
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Department: 26 NARO Internal

Outputs Provided

Budget Output: 03 Internal Audit

1 end of year annual Audit performance workshop conducted
Two Audit reports developed: One Off budget project audit
report
One audit report on assets utilization and safety, compliance
with PPDA Act report produced.
One ICT, Human Resource and CGS value for money audit

Item		Balance b/f	New Funds	Total
221003 Staff Training		0	2,800	2,800
227001 Travel inland		18,052	52,200	70,252
	Total	18,052	55,000	73,052
	Wage Recurrent	0	0	0
Ι	Non Wage Recurrent	18,052	55,000	73,052
	AIA	0	0	0

Department: 27 National Coffee Research Institute

Outputs Provided

report produced

Budget Output: 01 Generation of agricultural technologies

One high value coffee & cocoa products prototypes
developed
5 putative red blister resistant, 2 putative BCTB tolerant and
5 putative drought tolerant accessions collected cloned for
phenotyping

5,000 TC-derived coffee plantlets produced & delivered.

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	2,437	2,437
221001 Advertising and Public Relations	0	1,108	1,108
221007 Books, Periodicals & Newspapers	0	2,030	2,030
221011 Printing, Stationery, Photocopying and Binding	0	118	118
224006 Agricultural Supplies	0	4,895	4,895
225001 Consultancy Services- Short term	0	14,141	14,141
227001 Travel inland	0	13,259	13,259
227004 Fuel, Lubricants and Oils	0	2,556	2,556
Total	0	40,541	40,541
Wage Recurrent	0	0	0
Non Wage Recurrent	0	40,541	40,541
AIA	0	0	0

Budget Output: 02 Research extension interface promoted and strengthened

Research and extension interface promoted and strengthened I through maintenance of ITC infrastructure Promotion of better coffee varieties

Item	Balance b/f	New Funds	Total
221008 Computer supplies and Information Technology (IT)	0	1,772	1,772
Total	0	1,772	1,772
Wage Recurrent	0	0	0
Non Wage Recurrent	0	1,772	1,772
AIA	0	0	0

Vote: 142 National Agricultural Research Organisation

QUARTER 4: Revised Workplan

Budget Output: 04 Agricultural research capacity strengthened

Research capacity strengthened through One 1 (01) advisory I committee meetings, routine maintenance of research infrastructure, machinery and equipment, securing research activity sites and motivating staff notify more CWD pathogen specific primers

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	7,178	7,178
221001 Advertising and Public Relations	0	1,846	1,846
227004 Fuel, Lubricants and Oils	0	33,118	33,118
Total	0	42,142	42,142
Wage Recurrent	0	0	0
Non Wage Recurrent	0	42,142	42,142
AIA	0	0	0

Development Projects

Project: 1560 Relocation and Operationalisation of the National Livestock Resources Research Institute (NALIRRI)

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

60 elite calves produced to constitute the elite research and embryo production herd at NaLIRRI

Five hundred (500) tons of silage and hay produced to support livestock dry season farming for improved production and productivity

50 tons of grain soya, maize and sunflower produced MT tons

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	0	10,000	10,000
224001 Medical Supplies	0	15,000	15,000
224006 Agricultural Supplies	0	15,000	15,000
227001 Travel inland	0	5,000	5,000
227004 Fuel, Lubricants and Oils	0	10,000	10,000
228002 Maintenance - Vehicles	0	5,000	5,000
Total	0	60,000	60,000
GoU Development	0	60,000	60,000
External Financing	0	60,000	60,000
AIA	0	0	0

Capital Purchases

Budget Output: 72 Government Buildings and Administrative Infrastructure

One gender and equity responsive office block with a store renovated at Nakyesasa. One all inclusive administration block constructed at Maruzi.

One hay barn constructed at Nakyesasa 500 meter tarmack initiated for increased access to the facilities established.

Item		Balance b/f	New Funds	Total
312101 Non-Residential Buildings		4,238	849,454	853,692
312102 Residential Buildings		0	599,687	599,687
312104 Other Structures		0	180,000	180,000
	Total	4,238	1,629,141	1,633,379
	GoU Development	4,238	1,629,141	1,633,379
	External Financing	0	1,629,141	1,629,141
	AIA	0	0	0

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QUARTER 4: Revised Workplan

Project: 1619 Retooling of National Agricultural Research Organization

Outputs Provided

Budget Output: 01 Generation of agricultural technologies

50 technologies generated, 20 innovations developed to support improved production and productivity for accelerated agro Industrialization.

Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	77,605	179,242	256,847
221001 Advertising and Public Relations	56,822	10.950	67,772
221002 Workshops and Seminars	0	200,000	200,000
221003 Staff Training	10,419	32,020	42,439
221006 Commissions and related charges	0	141	141
221008 Computer supplies and Information Technology (IT)	8,725	10,504	19,229
221011 Printing, Stationery, Photocopying and Binding	1,847	26,354	28,200
222001 Telecommunications	0	185	185
222003 Information and communications technology (ICT)	66,365	165,325	231,690
223005 Electricity	0	6,160	6,160
223006 Water	0	822	822
224001 Medical Supplies	4,108	118,721	122,829
224005 Uniforms, Beddings and Protective Gear	0	571	571
224006 Agricultural Supplies	508,209	2,124,378	2,632,587
225001 Consultancy Services- Short term	2,153	52,959	55,112
227001 Travel inland	234,821	365,472	600,294
227004 Fuel, Lubricants and Oils	5,204	52,823	58,027
228002 Maintenance - Vehicles	4,200	16,020	20,220
228003 Maintenance – Machinery, Equipment & Furniture	0	3,768	3,768
Total	980,477	3,366,416	4,346,893
GoU Development	980,477	3,366,416	4,346,893
External Financing	0	3,366,416	3,366,416
AIA	0	0	0

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QUARTER 4: Revised Workplan

Budget Output: 02 Research extension interface promoted and strengthened

Two technology promotion interfaces conducted Two automated technology promotion tools developed 34 technological innovations delivered to uptake pathways 5 partnerships developed for technology multiplication and promotion

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Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	1,270	77,010	78,281
221001 Advertising and Public Relations	19,815	84,352	104,167
221002 Workshops and Seminars	0	261,000	261,000
221003 Staff Training	1,826	17,277	19,103
221007 Books, Periodicals & Newspapers	0	1,521	1,521
221008 Computer supplies and Information Technology (IT)	0	11,961	11,961
221011 Printing, Stationery, Photocopying and Binding	237	21,955	22,192
222001 Telecommunications	0	203	203
222003 Information and communications technology (ICT)	13,196	102,420	115,616
224001 Medical Supplies	0	6,776	6,776
224006 Agricultural Supplies	0	208,706	208,706
227001 Travel inland	97,309	151,599	248,908
227004 Fuel, Lubricants and Oils	2,945	5,537	8,482
228001 Maintenance - Civil	0	86,855	86,855
228002 Maintenance - Vehicles	0	1,370	1,370
228003 Maintenance – Machinery, Equipment & Furniture	0	424	424
Total	136,599	1,038,966	1,175,565
GoU Development	136,599	1,038,966	1,175,565
External Financing	0	1,038,966	1,038,966
AIA	0	0	0

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QUARTER 4: Revised Workplan

Budget Output: 04 Agricultural research capacity strengthened

4 research institutes research infrastructure maintained One institute laboratory supported for accreditation 4 laboratory equipment maintained/serviced NARO wide training plan 2021_22 developed

strengtnened			
Item	Balance b/f	New Funds	Total
211103 Allowances (Inc. Casuals, Temporary)	14,133	16,676	30,808
221001 Advertising and Public Relations	0	406	406
221003 Staff Training	165,464	74,481	239,945
221004 Recruitment Expenses	5,365	0	5,365
221006 Commissions and related charges	0	339	339
221007 Books, Periodicals & Newspapers	2,600	2,600	5,200
221008 Computer supplies and Information Technology (IT)	400,403	479,240	879,643
221009 Welfare and Entertainment	15,514	20,191	35,705
221011 Printing, Stationery, Photocopying and Binding	0	29,014	29,014
221012 Small Office Equipment	0	1,149	1,149
221016 IFMS Recurrent costs	20,050	0	20,050
221017 Subscriptions	11	2,742	2,753
222003 Information and communications technology (ICT)	0	17,749	17,749
223002 Rates	50,000	0	50,000
223005 Electricity	0	716	716
223006 Water	0	4,052	4,052
224004 Cleaning and Sanitation	0	244	244
225001 Consultancy Services- Short term	117,072	76,219	193,291
226002 Licenses	97	69,367	69,464
227001 Travel inland	296	103,530	103,827
227004 Fuel, Lubricants and Oils	36,962	16,408	53,369
228001 Maintenance - Civil	0	17,451	17,451
228002 Maintenance - Vehicles	0	9,647	9,647
228003 Maintenance – Machinery, Equipment & Furniture	0	4,241	4,241
228004 Maintenance - Other	0	1,626	1,626
Total	827,965	948,087	1,776,053
GoU Development	827,965	948,087	1,776,053
External Financing	0	948,087	948,087
AIA	0	0	0

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QUARTER 4: Revised Workplan

Outputs Funded				
Budget Output: 51 Payments to International Orga	anisations (CGIAR, ASARECA, WARDA)			
Quarterly Compliance to 6 international organizations	Item	Balance b/f	New Funds	Total
(CGIAR, ASERECA, FARA, CABI WADRA and BeCA) and autonomous institutions strengthened.	262201 Contributions to International Organisations (Capital)	18,007	889,000	907,007
	264101 Contributions to Autonomous Institutions	11,000	33,000	44,000
	Total	29,007	922,000	951,007
	GoU Development	29,007	922,000	951,007
	External Financing	0	922,000	922,000
	AIA	0	0	· ·
Capital Purchases				
Budget Output: 72 Government Buildings and Ada	ministrative Infrastructure	-		
Five Agricultural research facilities across four public	Item	Balance b/f	New Funds	Tota
research Institutes of NaCCORI multipurpose cocoa and coffee research laboratory, NARL, NaLIRRI multipurpose vaccine	281504 Monitoring, Supervision & Appraisal of Capital work	248,896	358,605	607,501
research and Production laboratory and Rwebitaba tea	312101 Non-Residential Buildings	1,285,823	6,771,901	8,057,725
research laboratory completed for efficient delivery of research services to accelerate Agro Industrialization.	312102 Residential Buildings	122,905	165,420	288,324
	312104 Other Structures	63,581	769,133	832,714
	Total	1,721,204	8,065,059	9,786,264
	GoU Development	1,721,204	8,065,059	9,786,264
	External Financing	0	8,065,059	8,065,059
	AIA	0	0	· ·
Budget Output: 76 Purchase of Office and ICT Eq	uipment, including Software			
Two Agricultural intelligence tool acquired to support	Item	Balance b/f	New Funds	Tota
research decision making. One Agricultural Research Big data center developed to	312213 ICT Equipment	0	30,000	30,000
support data collection management and disseminations. Four digital research platforms developed	Total	0	30,000	30,000
Three NARO knowledge products developed for technology	GoU Development	0	30,000	30,000
dissemination One value chain, digital online plat form developed	External Financing	0	30,000	30,000
	AIA	0	0	· ·
Budget Output: 77 Purchase of Specialised Machin	nery & Equipment			
One Incubation facility equipment acquired and installed at	Item	Balance b/f	New Funds	Tota
Mukono ZARDI to support incubation of technologies for industrial stimulation.	312202 Machinery and Equipment	379,770	428,684	808,454
	312214 Laboratory Equipments	100,000	0	100,000
	Total	479,770	428,684	908,454
	GoU Development	479,770	428,684	908,454
	External Financing	0	428,684	428,684
	AIA	0	0	<i>a</i>

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QUARTER 4: Revised Workplan

Budget Output: 78 Purchase of Office and Residen	tial Furniture and Fittings				
Continued to furnish agriculture research facilities at	Item		Balance b/f	New Funds	Total
NaLIRRI and Rwebitaba, NAFORRI, NACORI and others.	312203 Furniture & Fixtures		113,995	5,000	118,995
		Total	113,995	5,000	118,995
		GoU Development	113,995	5,000	118,995
		External Financing	0	5,000	5,000
		AIA	0	0	0
		GRAND TOTAL	5,593,778	31,129,453	36,723,231
		Wage Recurrent	0	8,558,307	8,558,307
		Non Wage Recurrent	1,300,522	6,077,793	7,378,315
		GoU Development	4,293,256	16,493,353	20,786,609
		External Financing	0	0	0
		AIA	0	0	0