

Department of Agriculture

Budget Accountability Report #1 (Physical Report of Operation)

For the Fourth Quarter of 2013

Agency: Philippine Center for Postharvest Development and Mechanization (PHilMech)

Found source: Regular

KEY OR MAJOR PROGRAMS/ PROJECTS	MAJOR FINAL OUTPUTS (MFO)/ Performance Indicators (PIs)	Unit of Measure	PHYSICAL		REMARKS
			Rapid, Inclusive and Sustained Economic Growth		
			Target	Accomplishment	
Operations					
Research, Development and Extension Programs on Mechanization and Postharvest Generation and Dissemination of Postharvest Technologies for Grains and Commercial Crops	<p>MFO 1 Agriculture and fishery support services delivered</p> <p>1.5 Other infrastructure and postharvest development services</p> <p>Postharvest research and development activities conducted</p> <p>New</p>	no. of new projects conducted	(16)	(17)	<p>1. Development and Field Testing of the Commercial Scale Conveyor Dryer with Combined Far Infrared and Convecting Heating (FIRCH) Systems for Drying Mango Slices</p> <p>2. Design and Development of a Cassava Harvester</p>

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				<p>3. Development of Agricultural Tractor Implements for Various Farm Operations - Phase 1. Hand Tractor Mounted Rice Transplanter and Harvester</p> <p>4. Development of a Pilot Scale Processing System for the Production of Pectin from Mango Peels</p> <p>5. Utilization of Coconut Water Extracted from Matured Coconut</p> <p>6. Utilization of Onion Solid Waste as Feedstock for Biogas Production</p> <p>7. Development of Corn Postproduction Modules for Farmer-Based Agribusiness Enterprises</p> <p>8. Non-chemical Approaches for Managing Postharvest Diseases of Tropical Fruits (Module 4-Papaya)</p> <p>9. Toxigenic Potential of Fungal Species from Coffee Beans in the Philippines (aka Toxigenic potential of aspergillus and penicillium species from coffee beans)</p>	

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				<p>10. Characterization of Microbiota Associated with Cacao Beans</p> <p>11. Identification of Wolbachia Endosymbionts in Storage Population of Philippine Psocids and Mites</p> <p>12. Influence of Trichoderma sp. In Preventing Postharvest Diseases in shallot and Bulb Onion</p> <p>13. Development of Web-based System and On-site Identification of Insects in Grains</p> <p>14. Optimization of Parboiling Conditions of Local Rice Varieties</p> <p>15. Development of Fluidized Bed Drying System for High Moisture Paddy</p> <p>16. Benchmark Studies on Postharvest Handling of Major Lowland Vegetables</p> <p>17. Evaluation of Some Machines used in Palay Production: The Case of Mechanical Transplanter and Combine</p>	

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	Continuing (on-going and continuing activities)	no. of continuing projects conducted	(17)	(17)	<p>1. Grain Drying Services thru PHilMech Drying Center</p> <p>2. Development of an Impeller Type Brown Rice Huller</p> <p>3. Ohmic Blanching of Selected Fruits and Vegetables</p> <p>4. Utilization of Biodegradable Composite Materials in the Production of Banana Fruit Bag</p> <p>5. Utilization of Biomass Furnace By-products as Fuel Briquettes</p> <p>6. Performance Verification of PHilMech CVS for Quality Analysis of Rice and Corn</p> <p>7. Enhancing Quality and Safety of Moringa Products</p> <p>Extended due to difficulty in the procurement of highly specialized equipment.</p> <p>Extended - The collaborator counterpart technical expert has passed away. The collaborator is currently retrieving previous results of compounding of biodegradable material from their files for turn-over to the newly designated counterpart expert.</p>

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				<p>8. Technology Support to the National Cold Chain Program</p> <p>9. Value Chain Analysis Towards an Integrated Bulk Handling System for Corn: From Mindanao to Manila and Cebu</p> <p>10. Assessment of Rice and Corn Mechanization in the Philippines Project 2. Assessing the Level of and the Factors Driving Mechanization of Rice and Corn Farms in the Philippines (PHilMech Coverage)</p> <p>11. Using Electro-kinetic Treated Nutrient Solution for Shelf Life Quality of Cut Flowers</p> <p>12. Resistance of Storage Insect Pests to Phosphine</p> <p>13. A Midgut Trypsin-like Enzyme in the Cigarette Beetle <i>Lasioderma serricome fabricius</i> Molecular Cloning and Biochemical Studies</p> <p>Continuing Activities:</p> <p>14. Implementation of Quality Assurance Plans in LSD</p> <p>15. Cataloguing of Microbial Cultures and Collection</p>	<p>Extended (put justification)</p> <p>Extended (put justification)</p>

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	Completed	no. of completed projects conducted	7	16. Implementation of Quality Control Procedures in Microbiological Laboratory 17. Provision of Analytical Services 4	3 projects were extended due to difficulty in procuring highly specialized equipment; and isolating cDNA
	Postharvest related information and communication technology activities	no. of PH related information and	(4)	1. Using Electro-kinetic Treated Nutrient Solution for Shelf Life Quality of Cut Flowers 2. Technology Support to the National Cold Chain Program 3. Enhancing Quality and Safety of Moringa Products 4. Development and Field Testing of the Commercial Scale Conveyor Dryer with Combined Far Infrared and Convecting Heating (FIRCH) Systems for Drying Mango Slices (4)	

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	conducted (e.g. information system/database developed / maintained . Enhanced, website maintained, ICT facilities upgraded or maintained)	communication technology activities		Designs, implements and continuously improves information system plan (ISP) that will support the information needs of PHiMech	
	<p>1.6 Extension support, education and training services</p> <p><u>On production and post-production technologies</u></p>			<p>Information Systems Management and Development in support to research, development and extension</p> <p>Regular maintenance of computer hardware and accessories, local area network, information systems, internet services including website, mails, and communication facilities</p> <p>Provision of technical assistance internally and externally on geographic information system, database management expert and decision system development and other related computer applications</p>	

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	Participants/ Extension Personnel Trained	total no. of participants			
	Female	no. of participants	10	6	
	Male		12	19	
	Training and training-related activities / events conducted	total no. of training & training related events			
	Training of Trainers (TOT) conducted:	no. of training course	-	1	
	Other training-related activities conducted:	no. of training-related activities conducted	7*	15	* Target for Rice Mechanization (2) and Organic Agriculture (3) included
				<p>Training Course on Mechanization and Postharvest Technology for Cacao, Mango and Coffee</p> <p>4 Techno Demos on Philmech coffee depulper and cashew nut</p> <p>7 Technical assistance on Rice Mechanization Program : 3 on Makina Saka and 4 on Enhancing the Capalbility of..... (Provision of Training Management Staff and Resource Person)</p>	

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	Information, Education and Communication Developed/ Disseminated Print	no. of copies developed/ disseminated	11,103	4 Trainings on Organic Agriculture (include title) 14,100 1000 Technical Bulletin #6 - Tramline; 3,000 PhilMech Newsletter 3rd issue; 3,000 PhilMech Newsletter 4th issue; 1,000 catalogue; 1,000 PhilMech Journal; 1,000 Magazine; 100 materials prepared and distributed	
	Audio-visual media Radio programs /TV plugs/Jingle Others (specify): Electronic media and other IEC materials produced and published Extension-related research and New	no. of copies produced / disseminated no. of radio promotions aired no. of digitized IEC materials disseminated no. of projects	5 3 10 (1)	5 (2Audio video diary, 1 Backdrop , 2 Video Documentaries: corn program and project on pectin and 4 Broadcast interviews 30 (1) Development of Micro Enterprises using the MCSTD	

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	Reports (by type) disseminated		5	8 (include type of reports submitted)	

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