

Department of Agriculture

**Budget Accountability Report #1 (Physical Report of Operation)**

**For the Third 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	
<b>Operations</b>					
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)	(16)	<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. Development of Fluidized Bed Drying System for High Moisture Paddy</p> <p>15. Benchmark Studies on Postharvest Handling of Major Lowland Vegetables</p> <p>16. 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)	
				<ol style="list-style-type: none"> <li>1. Grain Drying Services thru PHilMech Drying Center</li> <li>2. Development of an Impeller Type Brown Rice Huller</li> <li>3. Ohmic Blanching of Selected Fruits and Vegetables</li> <li>4. Utilization of Biodegradable Composite Materials in the Production of Banana Fruit Bag</li> <li>5. Utilization of Biomass Furnace By-products as Fuel Briquettes</li> <li>6. Performance Verification of PHilMech CVS for Quality Analysis of Rice and Corn</li> <li>7. Enhancing Quality and Safety of Moringa Products</li> </ol>	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.

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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><b>Continuing Activities:</b></p> <p>14. Implementation of Quality Assurance Plans in LSD</p> <p>15. Cataloguing of Microbial Cultures and Collection</p>	

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	Completed	no. of completed projects conducted	4	16. Implementation of Quality Control Procedures in Microbiological Laboratory 17. Provision of Analytical Services  3	1 project was extended - some project activities were delayed because the collaborator counterpart technical expert has passed away
	Postharvest related information and communication technology activities conducted (e.g. information system/database developed / maintained . Enhanced, website maintained, ICT facilities upgraded or maintained)	no. of PH related information and communication technology activities	(4)	1. Performance Verification of PHilMech CVS for Quality Analysis of Rice and Corn 2. Utilization of Biomass Furnace By-products as Fuel Briquette  3. Value Chain Analysis Towards an Integrated Bulk Handling System for Corn: From Mindanao to Manila and Cebu  (4)  Designs, implements and continuously improves information system plan (ISP) that will support the information needs of PHilMech	

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	<p><b>1.6 Extension support, education and training services</b></p> <p><u>On production and post-production technologies</u></p> <p><b>Participants/ Extension Personnel Trained</b></p> <p>Female</p> <p>Male</p>	<p><b>total no. of participants</b></p> <p>no. of participants</p>	<p><b>142</b></p> <p>77</p> <p>65</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> <p><b>200</b></p> <p>70</p> <p>130</p>	

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	<b>Training and training-related activities / events conducted</b>	<b>total no. of training &amp; training related events</b>	<b>15</b>	<b>20</b>	<b>Includes targets for RiceMech (5) and OA (5)</b>
	Training of Trainers (TOT) conducted:	no. of training course	1	2	
	Other training-related activities conducted:	no. of training-related activities conducted	14*	18	* Target for Rice Mechanization and Organic Agriculture included
				<p>1 Training Course on Mechanization and Postharvest Technologies for Coffee, Cacao and Soybean in Davao City, 1 Training Course on Mechanization and PH Tech for SCUs</p> <p><b>5 technical assistance:</b> 1 ASKI training request, 1 farmers in Talavera, NE re training on farm mech, 3 Technical assistance to State colleges and universities</p> <p><b>2 Conduct of Writeshop/Faculty Meeting/ Workshop :</b> 1 Skills Training course on Fabrication of Selected PHilMech Technologies, 1 Manufacturers forum/workshop on Postharvest Facilities</p>	



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	<p><b>Information, Education and Communication Developed/ Disseminated</b></p> <p>Print</p>	no. of copies developed/ disseminated	3,105	<p><b>2</b> Techno Demo: 1 on Soybean sorter/cleaner , 1 on MCSTD</p> <p><b>4</b> on Rice Mechanization Program : 1 Conduct of Training on the O&amp;M of machineries/equipment, 1 National RAFID Workshop on Dev. Com Support to RiceMech Program, 1 National Consultation Workshop on the Implementation of DA Rice Mech Program, and 1 Technical assistance on Regional updating and national consolidation of accomplishments/status</p> <p><b>5</b> on Organic Agriculture : 1 Briefing of stakeholders on the OA program, 2 Project evaluation and recommendation of appropriate facilities to be used, 2 Provision of Resource Speaker on OA program</p> <p>4005 (5 News and Features, 2,000 Tech leaflet for Cashew processing system, 2,000 Tech leaflet for biomass furnace)</p>	

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	Audio-visual media	no. of copies produced / disseminated	7	10 (5 Audio video diary, 5 Streamers heading/ logo (2 DMMSU, 2 USEP, 1 BSU))	Responded to request of other agencies
	Radio programs /TV plugs/Jingle	no. of radio promotions aired	2	7 Broadcast interviews	
	Advertisements	no. of copies published	-	2 Munoz Ugnayan, ACABE	
	Others (specify): Electronic media and other IEC materials produced and published	no. of digitized IEC materials disseminated	15	20	
	Extension-related research and New	no. of projects	(1)	(1) Development of Micro Enterprises using the MCSTD	
	Continuing (on-going and continuing activities)	no. of projects	(1)	(1) Enterprise Capability Enhancement of Existing Cashew Processors in Selected Areas	

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	Extension-related Information and Communication Technology (ICT) conducted (e.g. information system/database developed, ICT facilities upgraded/maintained, OPAPA)	no. of ICT activities conducted	(1)	(1) GIS-Based Decision-Support System for Postharvest Development and Mechanization	
<b>Support to Operations</b>					
Activities in Support of Research, Development and Extension Programs on Mechanization and Postharvest	MFO 3 Plans and Policies Developed, Implemented, Monitored and Evaluated  Output Indicators:  National agriculture and fishery plans formulated and distributed  Evaluation studies conducted		1  (1)	1 2011 to 2017 AFMP Plan  (1)  Assessment of the Rice and Corn Mechanization in the Philippines	

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	<b>Reports (by type) disseminated</b>		5	5  Regular Accomplishment Reports (Quarterly/Annual BAR 1 & Highlights), Reports for SONA, Status Report on R & D Projects and Climate Change, Reports for DBM (List of projects, description, & budget), COA Monitoring Report	

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