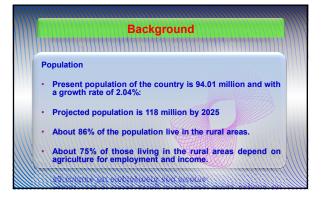


(Year 2009)	Area	Value
Crop	(Has)	(Million PhP)
Palay	4,532,310	238,353.57
Corn	2,683,896	76,952.29
Coconut	3,401,500	64,663.12
Sugarcane	404,034	29,906.86
Fruits	714,245	118,759.70
Rootcrops	330,373	17,068.40
Legumes	66,893	1,831.62
Vegetables	65,387	12,321.80
Fiber	135,081	2,355.04
Coffee	122,645	5,528.91
Cacao	9,538	3000
Tobacco	26,104	3,057.74
Rubber	128,337	13,227.92



Background Contribution to Economy Together with fishery and forestry, agriculture contributes about 12% of the gross domestic product (GDP) This accounts for about 8% of the county's export revenues. The present condition of agriculture to the export market can be improved and expanded to include non-traditional products and processed products.



Top agricultural products exported coconut oil (31%) tuna (9% banana fresh (8% pineapple and products (6%) Top agricultural products imported rice (22%, milk and cream and products (8%) wheat (7%) soybean oil/cake meal (5%)

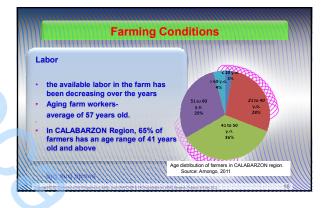


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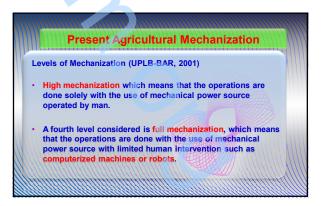
Farming Conditions Soil Conditions: The Philippines has 15 regions with different soil characteristics which are as follows: Well drained High fertility soil: Region 4 Well drained, generally acidic, high fertility volcanic soils: parts of Region 4 Well drained, deep, low fertility soils: most of Regions 1,2,3-5, 8-15 Poorly drained, flood prone soils: parts of regions 2-4, 6, 10-12 Poorly drained, high to moderate fertility soils: parts of Regions 3, 5, 6, 11, 12 Heavy textured soil with shrink-swell potential: parts of Regions 1-4, 6, 11, 12 Droughty, low fertility sandy soils: Parts of Regions 3 and 6

Farming Conditions Irrigation and Drainage - 2M farms (41.1 percent of the total farms in the country) with a total area of 2.9 million hectares were supplied with water, or 30.3 % of the total farm area of the country. - IS-660.8 thousand farms with an irrigated area of one million hectares. - NIS administer by (NIA) - 774.7 thousand hectares. - CIS - 581.5 thousand hectares of farm - other systems of irrigation such as water fetching, waterwheels, etc., - 522.8 thousand farms with area of 573.6 thousand hectares

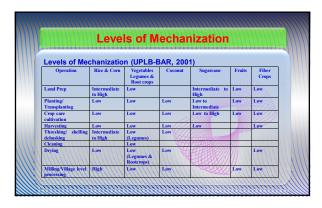
Farming Conditions Cultivation System • average landholding - around 2 hectares with plot sizes ranging from 500 to 10,000 sq. m • around two cropping seasons implemented with rice as the main crop and some cash crops or leguminous crops as second crop. • In areas where water is abundant throughout the year, three croppings are being observed

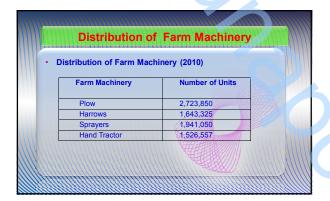


Present Agricultural Mechanization Levels of Mechanization (UPLB-BAR, 2001) - Low mechanization which means that the operations are done with the use of non-mechanical power source such as man and animal. - Intermediate mechanization which means that the operations are done with the use of non-mechanical power source in combination with the use of a mechanical power source operated by man.







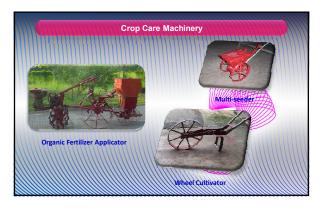
















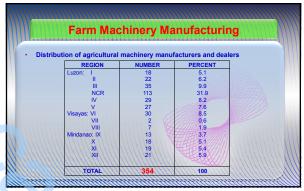


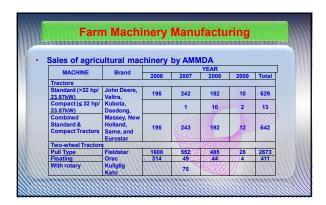












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Standards	PAES	PNS/	Total						
	1	II	III	IV	V	VI	VII	PAES	
	(2001)	(2003)	(2003)	(2005)	(2007)	(2009)	(2009)	VIII (2010)	
General					3				3
Prodn Mach	15	8	7	10	6		9728	10	46
Post Harvest Mach	11			11	8		8	10	38
Engg Materials	6	7	7						20
Agri Structures	3	10	8						21
Meat Processing	11111	IIIII	11111	11111			24	IIII	24
Farm to Market Rd			111111	1////			/////		
Total	35	25	22	21	(17)	11/1	32	20	153

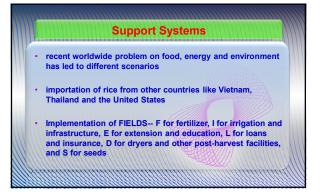
Promotion of AMTs - AMDP established 1979 in response to the project of UNDP ESCAP--- RNAM and now APCAEM - to promote TCDC for the advancement of agricultural mechanization in Asia and the Pacific. - serves RDE arm of CEAT which conducts policy formulation, research and extension of agricultural mechanization technologies.



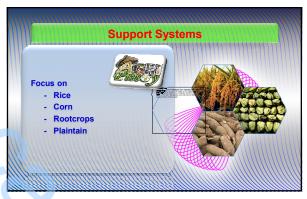








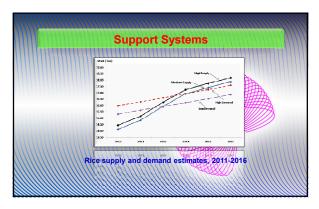












Support Systems Philippine Center for Postharvest Development and Mechanization (PhilMech) -Takes the lead role in implementing the different plans and programs of the government in mechanizing the agricultural sector to increase yield and to attain food sufficiency.







1/5/2012





Problems, Issues and Constraints in Agricultural Mechanizations - Absence of a comprehensive national program for agricultural mechanization development. - Inadequate coordination of agricultural mechanization R&D activities. - Small farm sizes - Inadequate extension program and technology transfer mechanisms - Inadequate support services



Recommendations Mechanization Strategies B. Formation of cooperatives/associations C. Establishment of custom machinery services for farmers' access to agricultural machinery C. Establishment of village-level processing plants to enhance rural enterprises and commercialization D. Establishment of joint-venture agreements with manufacturing companies (local and foreign) for local manufacture of critical machines

Recommendations Mechanization Strategies F. Exchange of prototypes G. Establishment of a National Agri-Fisheries Machinery Manufacturers, Distributors and Dealers Accreditation and Classification Board H. Establish a centralized information service for agricultural mechanization for I. Collaboration of research institutions involved in agricultural mechanization

1/5/2012



