08

Expanding Economic Opportunities in Agriculture, Forestry, and Fisheries and Ensuring Food Security









**ENSURE FOOD RESILIENCY** ND REDUCE VULNERABILITY OF FILIPINOS



Sustainable and resilient production and food availability ensured



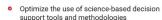
Access to markets of small farmers and fisherfolk expanded



Access of consumers to nutritious, affordable and safe food improved



AFF productivity within ecological limit improved



- Pursue an ecosystems approach to fisheries management, including operationalizing fisheries management areas
- Strengthen the promotion of intercropping and integrated farming systems
- Intensify the promotion of urban agriculture. backyard/household gardening of edibles and backyard animal raising, and community
- Effectively implement RCEF in a timely manner to assist rice farmers during the transition period given the removal of the quantitative import restrictions (QR) on rice



Development and adoption of modern, climate- and disaster-resilient production technologies intensified

- Accelerate irrigation development, especially the construction of disaster- and climate-resilient small-scale irrigation systems and retrofitting of existing ones
- Intensify research and development (R&D) activities for AFF
- Intensify the provision of appropriate farm and fishery machineries, equipment, and facilities
- Enhance the capacity of farmers and fisherfolk to adopt new and better technologies
- Strengthen the AFF extension system as a whole

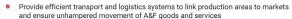


Access of small farmers and fisherfolk to land and water resources increased and protected

- Fast-track and complete the parcelization of collectively-titled awarded lands and generation of individual titles
- Strictly enforce and monitor the implementation of existing laws, rules, and regulations on land reclassification and
- Issuance of the guidelines by the BFAR on the delineation of municipal waters for LGUs with off-shore islands
- Establish a regulatory framework and formulate specific guidelines on implementing usufruct arrangement for AFF purposes



Access to digitally supported value chains increased



- Strengthen online marketing of agriculture and fishery products, including establishment of online or digital channels for transactions and delivery services
- o Organize small farmers and fisherfolk into formal groups and promote farm and fishery consolidation and clustering arrangements
- Link small farmers and fisherfolk groups to government nutrition programs
- Intensify the implementation of the Philippine Competition Law and the Price Act



#### AFF-based enterprises increased





- Adopt Geographic Indications (GIs) to improve the marketability and traceability of products and ensure quality standards
- Establish and/or update and increase access of SFFs and other AFF stakeholders to timely and reliable agricultural market information systems
- Encourage the private sector to invest in agri-based enterprises
- Strengthen community-based enterprises in upland communities

Access to innovative,

affordable and adequate financing increased

Provide access to affordable formal

Continue to implement credit programs

with low interest and flexible terms for

the SFFs and AFF-based enterprises Expand agricultural insurance coverage



Food safety standards and regulations enforced

Strictly implement food safety measures quarantine procedures and other existing rules and regulations in managing risks and addressing food safety and quality standards



Development and adoption of food preservation technologies increased

technologies to prolong shelf-life and improve nutritional content of agriculture and fishery products







### **Cross-cutting Strategies**

- Strengthen coordination and convergence of government agencies in undertaking joint planning, monitoring, and budgeting for priority programs and projects
- Utilize and regularly update the A&F management information systems as a strategic targeting mechanism for identification and prioritization of beneficiaries and agriculture-related programs and services
- Institutionalize the El Niño Task Force as a permanent body rather than an ad-hoc task force, to ensure the preparedness of the AFF sector
- Promote agribusiness courses and training programs under collaborative schemes; and integrate the use of modern agricultural technologies in elementary and high school curriculum to engage the youth in agriculture and fisheries
- o Intensify activities on increasing resilience of the AFF sector to climate and disaster risks

Objectives/Decults	SDG Tier 1	Ba	seline			Annual P	an Targets			End of Plan	Means of	Responsible	Reporting	Assumptions and Disks
Objectives/Results	Indicator Indicator	Year	Value	2017	2018	2019	2020	2021	2022	Target <sup>a</sup>	Verification	Agency <sup>b</sup>	Entity	Assumptions and Risks
Societal Goal														
A healthy and resilien	t Phiippines													
Intermediate Goal	- 11													
Transforming towards	equity and resiliency													
Chapter Outcome 1	equity and resimency													
Sustainable and	Growth of Gross Value Added	2016	(1.2)	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	2.5-3.5	PSA	DA	PSA	Sound macroeconomic
resilient production	(GVA) in Agriculture, Forestry		(/	2.0 0.0	2.0 0.0	2.0 0.0	2.0 0.0	2.0 0.0	2.0 0.0	2.0 0.0		57.		policies and food security
and food availability	and Fisheries (AFF) increased													reform policies instituted.
ensured	(%, in real terms)													'
	Crops	2016	(3.2)	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	PSA	DA	PSA	Good agricultural and climate
	Livestock	2016	4.6	3.0-4.0	3.0-4.0	3.0-4.0	3.0-4.0	2.0-3.0	3.0-4.0	3.0-4.0	PSA	DA	PSA	change adapatation practice
	Poultry	2016	1.3	3.0-4.0	3.0-4.0	3.0-4.0	3.0-4.0	2.0-3.0	3.0-4.0	3.0-4.0	PSA	DA	PSA	adopted by farmers.
	Forestry	2016	(7.6)	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0	PSA	DENR	PSA	
	Growth in value of production	of fisheries increas	ed (%, at constant	prices)	•	•	•		•	•		•	•	•
	Commercial	2016	(7.8)	2.5	2.5	2.5	2.5	1.0	1.0	1.0	PSA	DA-BFAR	PSA	Good agricultural and climate
	Municipal	2016	(4.9)	1.0	1.0	1.0	1.0	3.0	3.0	3.0	PSA	DA-BFAR	PSA	change adaptation practices
	Aquaculture	2016	0.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	PSA	DA-BFAR	PSA	adopted by fisherfolk.
	Growth in labor productivity of		(2.2) <sup>d</sup>	5.0-6.0	5.0-6.0	3.9-5.0	4.7-6.2	5.2-6.4	5.4-6.6	4.9-6.0	PSA	DA	PSA	Employment opportunities
	farmers and fisherfolk increas	ed												between sectors allow
	(%, in real terms)													greater mobility
	CAR	2016	4.3	N/A <sup>e</sup>	N/A <sup>e</sup>	4.5-7.5	6.0-9.0	9.0-12.0	12.0-15.0	7.9-10.9	PSA	DA-RFO	PSA	
	Region I	2016	0.2	N/A <sup>e</sup>	N/A <sup>e</sup>	5.0-10.0	5.0-10.0	5.0-10.0	5.0-10.0	5.0-10.0	PSA	DA-RFO	PSA	
	Region II	2016	1.0	N/A <sup>e</sup>	N/A <sup>e</sup>	5.5-6.5	5.6-6.6	5.7-6.7	5.9-6.9	5.7-6.7	PSA	DA-RFO	PSA	
	Region III	2016	13.7	N/A <sup>e</sup>	N/A <sup>e</sup>	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	7.0-8.0	PSA	DA-RFO	PSA	
	Region IV-A	2016	16.8	N/A <sup>e</sup>	N/A <sup>e</sup>	3.9-5.0	4.7-6.2	5.2-6.4	5.4-6.6	4.9-6.0	PSA	DA-RFO	PSA	
	Region IV-B	2016	(1.3)	N/A <sup>e</sup>	N/A <sup>e</sup>	1.5-2.5	2.0-3.0	2.0-3.0	2.5-3.5	2.0-3.0	PSA	DA-RFO	PSA	
	Region V	2016	2.3	N/A <sup>e</sup>	N/A <sup>e</sup>	5.0-6.0	5.0-6.0	5.0-6.0	5.0-6.0	5.0-6.0	PSA	DA-RFO	PSA	
	Region VI	2016	(1.5)	N/A <sup>e</sup>	N/A <sup>e</sup>	1.0-1.5	1.2-1.5	1.5-1.8	1.8-2.0	1.4-1.7	PSA	DA-RFO	PSA	
	Region VII	2016	1.7	N/A <sup>e</sup>	N/A <sup>e</sup>	2.2	2.3	2.5	2.9	2.5	PSA	DA-RFO	PSA	
	Region VIII	2016	(12.3)	N/A <sup>e</sup>	N/A <sup>e</sup>	2.0-2.5	2.5-3.0	3.0-3.5	3.5-4.0	2.8-3.3	PSA	DA-RFO	PSA	
	Region IX	2016	(21.1)	N/A <sup>e</sup>	N/A <sup>e</sup>	0.9-1.0	1.0-1.1	1.1-1.2	1.2-1.3	1.1-1.2	PSA	DA-RFO	PSA	
	Region X	2016	(4.5)	N/A <sup>e</sup>	N/A <sup>e</sup>	1.5-2.5	3.5-4.5	3.5-4.5	2.0-3.0	2.6-3.6	PSA	DA-RFO	PSA	
	Region XI	2016	(13.3)	N/A <sup>e</sup>	N/A <sup>e</sup>	8.4	12.0	12.5	10.0	10.7	PSA	DA-RFO	PSA	
	Region XII	2016	(8.7)	N/A <sup>e</sup>	N/A <sup>e</sup>	5.0	5.0-6.0	6.0-7.0	7.0-8.0	5.8-6.5	PSA	DA-RFO	PSA	
	Caraga	2016	(8.1)	N/A <sup>e</sup>	N/A <sup>e</sup>	3.2-4.8	4.3-5.3	5.3-6.3	6.3-7.3	4.8-5.9	PSA	DA-RFO	PSA	
Subchapter Outcome														
AFF productivity	Yield of major commodities in		/							, ,			1	1
within ecological limit improved	Palay	2016	3.9	4.0	4.2	4.3	4.4	4.4	4.5	4.5	PSA	DA	PSA	No major calamities encountered, specifically during the standing crop
	White Corn	2016	1.7	2.0	2.0	2.1	2.2	2.5	2.5	2.5	PSA	DA	PSA	No major calamities, pests, and diseases encountered
	Yellow Corn	2016	4.0	4.3	4.5	4.6	4.8	4.6	5.0	5.0	PSA	DA	PSA	

<sup>&</sup>lt;sup>a</sup> May either be cumulative or incremental target value at the end of the Plan period.

Agency accountable for delivering the outputs/outcome.

Lead/responsible agency for reporting progress on indicator targets.

<sup>1</sup> The 2016 growth rate for labor productivity was revised in the PSA website from 3.9 to -2.2. The revisions were brought about by the change in the number of persons employed in AFF being monitored by the agency. Some of the data from previous years were not consistent in terms of the rounds of survey conducted and some areas were excluded in previous releases.

New indicator proposed in 2019. Targets were committed from 2019 to 2022.

Ohio dive /De - H	SDG Tier 1	la dia stan	Bas	eline			Annual Pl	an Targets			End of Plan	Means of	Responsible	Reporting	A
Objectives/Results	Indicators	Indicator	Year	Value	2017	2018	2019	2020	2021	2022	Target <sup>a</sup>	Verification	Agency	Entity	Assumptions and Risks
AFF productivity within ecological limit improved (cont'd)		Banana	2016	20.1	21.7	22.3	23.0	23.6	21.0	22.0	22.0	PSA	DA	PSA	Control of the spread of fusarium wilt, among others; increased resiliency to climate change
		Coconut	2016	3.88	4.28	4.28	4.50	4.50	4.25	4.25	4.25	PCA	PCA	PCA	No major typhoon and pest incidence happening in major coconut producing regions (Regions IV-A, VIII, and Mindanao)
		Pineapple	2016	40.1	41.9	42.3	42.7	43.2	43.0	44.0	44.0	PSA	DA	PSA	
		Mango	2016	4.3	5.0	5.1	5.2	5.3	4.1	4.2	4.2	PSA	DA	PSA	Control of pests and diseases increased resiliency to climate change
		Sugarcane	2016	54.6	59.0	61.0	63.0	65.0	55.6	60.0	60.0	PSA	SRA	PSA	Interventions such as the use of HYVs/good genetics of sugarcane, soil rejuvenation/fertilization, irrigation/water management, mechanization and extension activities will take effect
		Cassava	2016	12.0	15.1	15.9	16.7	17.7	13.7	19.3	19.3	PSA	DA	PSA	No major calamities, pest
		Coffee	2016	0.6	0.6	0.7	0.8	1.0	0.7	0.7	0.7	PSA	DA	PSA	and diseases encountered
		Cacao	2016	0.4	0.9	0.9	1.0	1.1	0.3	0.4	0.4	PSA	DA	PSA	
		Rubber	2016	1.6	1.9	2.0	2.2	2.3	2.0	2.0	2.0	PSA	DA	PSA	Stable market prices
		Abaca	2016	0.5	0.51	0.52	0.53	0.54	0.55	0.56	0.56	PSA	DA-PhilFIDA	PSA	
		Volume of production increased Hog	2016	2,231.7	2,128.2	2,156.6	2,321.0	2,390.6	1,910.8	1,987.0	1,987.0	PSA	DA	PSA	Localization and limited impact of major disease in controlled zone
		Goat	2016	77.5	79.0	79.9	79.3	81.7	79.3	81.7	81.7	PSA	DA	PSA	No significant damage due to outbreak of major diseases
		Dairy	2016	21.2	22.6	23.6	24.5	26.9	27.6	28.5	28.5	PSA	DA	PSA	outbroak or major diocucco
		Chicken	2016	1,674.5	1,741.4	1,793.4	1,845.4	1,975.8	1,881.0	1,956.3	1,956.3	PSA	DA	PSA	Steady growth trend with favorable economic conditions prevailed, despite
		Chicken Egg	2016	461.7	473.2	486.2	549.9	566.4	654.7	674.3	674.3	PSA	DA	PSA	occurrence of major disease
		Vegetables	2016	1,572.7	1,780.2	1,841.8	1,910.0	1,986.7	1,897.0	1,993.0	1,993.0	PSA	DA	PSA	No major calamities, pests, and diseases encountered
		Tilapia	2016	300.7	293.5	311.1	329.8	349.6	340.7	351.0	351.0	PSA	DA-BFAR	PSA	
		Bangus	2016	402.7	415.8	432.4	449.7	467.7	436.0	446.8	446.8	PSA	DA-BFAR	PSA	
		Seaweeds	2016	1,404.5	1,726.9	1,813.3	1,903.9	1,999.1	1,530.1	1,545.4	1,545.4	PSA	DA-BFAR	PSA	
		Shrimp and Prawns	2018	65.5	N/A <sup>e</sup>	N/A <sup>e</sup>	66.1	66.8	73.8	75.3	76.8	PSA	DA-BFAR	PSA	
		Logs (m³)	2016	790.0	867.3	893.3	920.1	947.7	976.1	1,005.4	1,005.4	DENR's Philippine Forestry Statistics	DENR-FMB	DENR-FMB	

 $<sup>^{\</sup>rm e}\,$  New indicator proposed in 2019. Targets were committed from 2019 to 2022.

f The volume of production is used as a proxy indicator for productivity of livestock and poultry, fishery species, and forest products due to data constraints.

Objectives/Results	SDG Tier 1	Indicator	Bas	eline			Annual Pl	an Targets			End of Plan	Means of	Responsible	Reporting	Assumptions and Risks
Objectives/Results	Indicators	indicator	Year	Value	2017	2018	2019	2020	2021	2022	Target <sup>a</sup>	Verification	Agency <sup>b</sup>	Entity <sup>c</sup>	Assumptions and Risks
AFF productivity within ecological		Almaciga Resin ('000 kg)	2016	686.0	458.4	472.1	486.3	500.9	515.9	531.4	531.4	DENR's Philippine Forestry Statistics	DENR-FMB	DENR-FMB	
limit improved (cont'd)		Bamboo ('000 pc)	2016	882.7	1,129.9	1,163.8	1,198.7	1,234.7	1,271.7	1,309.9	1,309.9	DENR's Philippine Forestry Statistics	DENR-FMB	DENR-FMB	
		Postharvest losses of key agricul			ulative)										
		Rice	2015	14.0	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	12.0	12.0	DA-PhilMech's Loss Assessment Studies	DA	DA-PhilMech	
		Corn	2015	6.61	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	5.2	5.2	DA-PhilMech's Loss Assessment Studies	DA	DA-PhilMech	
		High Value Crops													
		Banana, Cardava	2016	15.46	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	15.0	15.0	DA-PhilMech's Loss Assessment Studies	DA	DA-PhilMech	
		Calamansi	2014	32.54	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	32.0	32.0	DA-PhilMech's Loss Assessment Studies	DA	DA-PhilMech	
		Carabao Mango	2014	29.25	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	28.8	28.8	DA-PhilMech's Loss Assessment Studies	DA	DA-PhilMech	
		Cabbage	2009	20-30	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	29.5	29.5	DA-PhilMech's Loss Assessment Studies	DA	DA-PhilMech	
		Carrot	2009	20.8	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	20.3	20.3	DA-PhilMech's Loss Assessment Studies	DA	DA-PhilMech	
		Onion	2009	45.0	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	43.0	43.0	DA-PhilMech's Loss Assessment Studies	DA	DA-PhilMech	
		Level of mechanization based or	n sufficiency level	by operation incre	eased (in percent	or hp-hr/ha)	•					•			
		Rice	2011	2.31	N/A <sup>9</sup>	N/A <sup>9</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	4.0	4.0	DA-PhilMech Study	DA	DA-PhilMech	
		Corn	2011	2.31	N/A <sup>9</sup>	N/A <sup>9</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>9</sup>	2.5	2.5	DA-PhilMech Study	DA	DA-PhilMech	
		High Value Crops	2011	1.23	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	1.3	1.3	DA-PhilMech Study	DA	DA-PhilMech	

Objectives/Results	SDG Tier 1	Indicator	Bas	eline			Annual P	an Targets			End of Plan	Means of	Responsible	Reporting	Assumptions and Risks
Objectives/Results	Indicators	indicator	Year	Value	2017	2018	2019	2020	2021	2022	Target <sup>a</sup>	Verification	Agency	Entity <sup>c</sup>	Assumptions and Risk
Aggregate Outputs															
Technical support		Program area for perennial crops					1 400	1 405	1 400		00.000				Tu
services for perennial crops provided		Mango	2016	305	508	4,416	4,420	4,425	4,429	4,434	22,632	Report by the DA- High Value Crops Development (HVCD) Program	DA	DA	No major calamities, pest and diseases problems encountered
		Coffee	2016	7,485	13,705	4,120	6,592	9,888	10,877	11,964	57,146	Report by the DA- HVCD Program	DA	DA	No major calamities, pest and diseases problems
		Cacao	2016	17,217	24,715	4,220	6,330	8,229	9,875	11,850	65,219	Report by the DA- HVCD Program	DA	DA	encountered
		Rubber	2016	3,999	7,393	91	500	850	1,445	2,457	12,736	Report by the DA- HVCD Program	DA	DA	-
		Banana	2016	549	1,138	1,677	1,679	1,680	1,682	1,684	9,540	Report by the DA- HVCD Program	DA	DA	
		Pineapple	2016	61	37	186	190	194	197	201	1,005	Report by the DA- HVCD Program	DA	DA	-
		Cassava	2016	229,769	269,640	281,591	291,355	302,352	314,598	329,053	1,788,589	Report by the DA- Corn Program	DA	DA	-
		Abaca	2016	134,427	135,275	136,355	137,435	138,515	139,595	140,675	827,850	Report by PhilFIDA	DA-PhilFIDA	DA-PhilFIDA	-
		Coconut	2016	80,770	146,239	206,500	400,000	400,000	400,000	400,000	1,952,739	PCA Report	PCA	PCA	No major typhoon and pest incidence happening in major coconut-producing regions (Regions IV-A, VIII, and Mindanao)
Technical support		Program harvest area for staple of													
services for staple crops provided		Palay	2016	516,182	173,524	198,456	465,903	1,938,547	2,344,000	2,344,000	2,344,000	Report by the DA- Rice Program	DA	DA	No major calamities encountered, specifically during the standing crop
		Yellow corn	2016	535,163	545,217	549,088	1,647,291	2,204,203	2,765,070	3,329,919	3,329,919	Report by the DA- Corn Program	DA	DA	No major calamities, pests, and diseases encountered
		White corn	2016	201,138	219,390	221,342	664,044	889,344	1,116,649	1,345,977	1,345,977	Report by the DA- Corn Program			
Technical support services for livestock, poultry		Number of group beneficiaries provided with technical support services increased (No.) h	2016	939	557	1,020	1,334	2,280	2,348	2,418	9,957	NLP Annual Report, Annual Dairy Farm	PAnnual DA-NLP, DA-NDA DA-NLP, DA t, Annual y Farm ration, and lal Dairy	DA-NLP, DA- NDA (for Dairy)	
and dairy provided	N b	Number of individual beneficiaries provided with technical support services increased (No.) h	2016	358,218	197,741	217,355	110,395	113,288	116,801	120,419	875,999	Registration, and Annual Dairy Entity Registration			

haggregate Output Indicators pertaining to program areas, number of assisted enterprises and beneficiaries, either groups or individuals, may not be unique area or enterprises/beneficiaries, as an area/enterprise/group/individual may receive different and/or more than one machinery/equipment, technical support services, and livelihood projects.

Objective /Death	SDG Tier 1	la di catan	Bas	seline			Annual P	lan Targets			End of Plan	Means of	Responsible	Reporting	A
Objectives/Results	Indicators	Indicator	Year	Value	2017	2018	2019	2020	2021	2022	Target <sup>a</sup>	Verification	Agency <sup>b</sup>	Entity	Assumptions and Risks
Technical support services for fisheries provided		Number of fisherfolk provided with production support increased (No.) h	2016	109,406	195,599	209,291	223,941	239,617	50,342	51,852	970,642	Agency Annual report	DA-BFAR	DA-BFAR	
		Number of group beneficiaries provided with production support increased (No.) <sup>9</sup>	2018	4,547	N/A <sup>e</sup>	N/A <sup>e</sup>	3,045	1,548	1,935	2,031	8,559	Agency Annual report	DA-BFAR	DA-BFAR	
Agricultural and fisheries machinery, equipment, and facilities distributed		Number of group beneficiaries provided with agricultural and fishery machineries and equipment increased (No.) <sup>h</sup>	2016	5,639	8,066	5,960	7,501	7,699	7,783	7,854	44,863	DA (lead), PhilFIDA Annual Reports, BFAR Annual Report, PCA thru its PAPs for coconut, and NLP Annual Report	DA (lead), DA- PhilFIDA, PCA, DA- BFAR, DA-NLP	DA, DA- PhilFIDA, PCA, DA-BFAR, DA- NLP	
Capacity building on urban agriculture, backyard/household gardening and community farming		Number of group beneficiaries provided with trainings on urban agriculture, backyard/household gardening and community farming increased (No.)	2020	N/A <sup>i</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	16	18	20	20	Agency Annual report	DA-ATI TESDA	DA-ATI TESDA	
provided		Number of individual beneficiaries provided with trainings on urban agriculture, backyard/household gardening and community farming increased (No.)	2019	417	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	2,900	3,200	3,550	3,550	Agency Annual report	DA-ATI TESDA	DA-ATI TESDA	
		Number of trainings conducted on urban agriculture, backyard/household gardening and community farming conducted (No.)	2019	14	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	116	128	142	142	Agency Annual report	DA-ATI TESDA	DA-ATI TESDA	
Capacity building on organic agriculture provided		Number of individual beneficiaries provided with trainings on organic farming increased (No.)	2016	2,850	3,150	7,738	13,162	8,699	9,380	12,210	54,339	Agency Annual report	DA	DA	
		Number of trainings conducted on organic farming increased (No.)	2016	95	105	223	338	273	330	349	1,618	Agency Annual report	DA	DA	
Production forest		Area within the production forest													
for tree plantation and non-timber		Tree plantation	2016	625,524	662,940	676,199	689,723	703,517	717,588	731,940	731,940	Philippine Forestry Statistics			Expansion of the coverage of the National Greening
forest products increased		Non-Timber Forest Products	2016	434,293	410,394	418,601	426,973	435,513	444,223	453,108	453,108	Philippine Forestry Statistics	DENR-FMB		Program (EO 193), Integrated Forest Management agreement, and Community- Based Forest Management

<sup>&</sup>lt;sup>e</sup> New indicator proposed in 2019. Targets were committed from 2019 to 2022.

<sup>9</sup> No annual accomplishment/target to be reported as the source of data for the indicator is based on a study that is not regularly published by agencies.

h Aggregate Output Indicators pertaining to program areas, number of assisted enterprises and beneficiaries, either groups or individuals, may not be a unique area or enterprises/beneficiaries, as an area/enterprise/group/individual may receive different and/or more than one machinery/equipment, technical support services, and livelihood projects.

No baseline value or accomplishment as data for the new indicator was not regularly monitored/maintained prior to its inclusion in the RM.

Objectives/Results	SDG Tier 1	Indicator	Bas	eline			Annual P	lan Targets			End of Plan	Means of	Responsible	Reporting	Assumptions and Risks
Objectives/Results	Indicators	indicator	Year	Value	2017	2018	2019	2020	2021	2022	Target <sup>a</sup>	Verification	Agency <sup>b</sup>	Entity <sup>c</sup>	Assumptions and Risks
Subchapter Outcor	me 1.2														
Development and adoption of modern, climate- and disaster-resilient production technologies intensified		Share of small farmers adopting new technologies to total number of small farmers trained with new technologies increased (%, cumulative)	2015	18.0	N/A <sup>e</sup>	N/A <sup>e</sup>	30	N/A <sup>g</sup>	N/A <sup>g</sup>	60	60	Study for the Agriculture and Fisheries Extension Results- Based Monitoring and Evaluation System	DA	DA	
		Share of adopters among technology trained small fisherfolk increased (%, annual)	2018	56.0	N/A <sup>e</sup>	N/A <sup>e</sup>	58.0	60.0	62.0	64.0	64.0	BFAR Annual Report	DA	DA	
Aggregate Output															
AFF research, development, and extension (RD&E) activities conducted		Share of AFF research and development (R&D) government budget to total AFF GVA increased (%, cumulative)	2016	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.1	DBM GAA Report	DA and DOST- PCAARRD	DOST- PCAARRD	
		Number of new technologies increased (No.)	2016	164.0	138	127	129	142	140	150	826	DA, PPAs of PhilMech, PCC Technology Board Report, and PhilFIDA Annual reports	DA	DA	
		Number of beneficiaries provide with extension services increased (No.) <sup>h</sup>	2016	112,667	91,866	99,933	101,373	104,787	105,184	107,253	610,396	Agency Annual report	DA-ATI	DA-ATI	
		Number of individual fisherfolk trained on aquaculture, municipal, commercial, regulatory, postharvest, and others (No.)	2018	37,097	N/A <sup>e</sup>	N/A <sup>e</sup>	28,162	25,769	20,459	21,073	95,463	BFAR Annual report	DA-BFAR	DA-BFAR	
		Number of group beneficiaries provided with trainings on production, processing, packaging, and marketing increased (No.)	2017	220	220	231	242	254	267	281	1,495	Agency Annual report	DA	DA	
		Number of individual beneficiaries provided with trainings on production, processing, packaging, and marketing increased (No.)	2016	27,892	40,034	44,760	43,965	46,609	37,059	41,350	253,777	Agency Annual report	DA	DA	
New indicator propose		Number of trainings conducted on production, processing, packaging, and marketing increased (No.)	2016	562	1,062	1,227	1,104	1,163	957	1,052	6,565	Agency Annual report	DA	DA	

<sup>&</sup>lt;sup>e</sup> New indicator proposed in 2019. Targets were committed from 2019 to 2022.

<sup>&</sup>lt;sup>9</sup> No annual accomplishment/target to be reported as the source of data for the indicator is based on a study that is not regularly published by agencies.

h Aggregate Output Indicators pertaining to program areas, number of assisted enterprises and beneficiaries, either groups or individuals, may not be a unique area or enterprises/beneficiaries, as an area/enterprise/group/individual may receive different and/or more than one machinery/equipment, technical support services, and livelihood projects.

OLI SE SE DES RE	SDG Tier 1	Indicator	Bas	eline			Annual Pl	an Targets			End of Plan	Means of	Responsible	Reporting	A
Objectives/Results	Indicators	Indicator	Year	Value	2017	2018	2019	2020	2021	2022	Target <sup>a</sup>	Verification	Agencyb	Entity	Assumptions and Risks
Subchapter Outcom	ne 1.3														
Access of small farmers and fisherfolk to land and water resources increased and protected	5.a.1.p2 <sup>j</sup> (Number of holders of emancipation patents and certificates of	emancipation patent (EP)/ certificate of land ownership award (CLOA) to total potential	2016	88.6	90.1	91.5	92.7	93.8	96.0	98.2	98.2	DAR Annual report	DAR	DAR	
	land ownership, certificate of ancestral land titles [CALTs], certificate of ancestral domain titles [CADTs] by sex, stewardship]	of collective CLOAs to be subdivided increased (%)	2016	42.9	44.6	46.4	46.9	49.6	84.4	99.4	99.4	DAR Annual report	DAR	DAR	
		Growth in the number of registered small fisherfolk with preferential access to municipal waters (%)	2016	5.0	N/A <sup>e</sup>	N/A <sup>e</sup>	3.0	2.0	1.0	0.5	0.5	BFAR Annual report	DA-BFAR	DA-BFAR	
Aggregate Outputs										•	•			•	•
Land under CARP distributed (under		Area distributed under CARP increased (ha, cumulative)	2016	4,823,037	4,871,625	4,925,466	4,966,543	4,996,696	5,027,651	5,057,805	5,057,805	DAR Annual report	DAR	DAR	
regular LAD)		Number of ARBs with EP/CLOAs increased (No., cumulative)	2016	2,807,108	2,853,361	2,899,433	2,934,542	2,960,313	2,986,771	3,012,543	3,012,543	DAR Annual report	DAR	DAR	
Land under CARP distributed (under		Area distributed under CARP increased (ha, cumulative)	2020	232,187	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	12,638	62,638	112,638	112,638	DAR Annual report	DAR	DAR	
EO 75 on GOL)		Number of ARBs with EP/CLOAs increased (No., cumulative)	2020	154,791	N/A e	N/A <sup>e</sup>	N/A <sup>e</sup>	10,802	53,537	96,272	96,272	DAR Annual report	DAR	DAR	
Parcelization of collective CLOAs		Area of collective CLOAs subdivided increased (ha, cumulative)	2016	1,114,792	1,157,735	1,204,175	1,217,266	1,288,968	2,193,399	2,581,012	2,581,012	DAR Annual report	DAR	DAR	
Support to registered fisherfolk		Number of registered fisherfolk provided with livelihood projects increased (No.)	2016	111,936	227,283	243,193	260,216	278,431	51,889	53,446	1,114,458	BFAR Annual report	DA-BFAR	DA-BFAR	
		Number of group beneficiaries provided with livelihood projects increased (No.)	2018	5,258	N/A <sup>e</sup>	N/A <sup>e</sup>	3,517	1,499	2,212	2,278	9,506	BFAR Annual report	DA-BFAR	DA-BFAR	

<sup>&</sup>lt;sup>e</sup> New indicator proposed in 2019. Targets were committed from 2019 to 2022.

<sup>1</sup> While data for the RM indicator is not disaggregated by sex/stewardship, the required disaggregation for the SDG indicator can be sourced from the same data sets of the responsible agency/reporting entity (DAR).

Objectives/Results	SDG Tier 1	Indicator	Bas	eline			Annual P	lan Targets			End of Plan	Means of	Responsible	Reporting	Assumptions and Risks
Objectives/Results	Indicators		Year	Value	2017	2018	2019	2020	2021	2022	Target <sup>a</sup>	Verification	Agency <sup>b</sup>	Entity <sup>c</sup>	Assumptions and Risks
Support to registered fisherfolk (cont'd)		Number of Fisheries Management Areas (FMA) Board/Body established and functioning (No., Cumulative)	2019	3	N/A <sup>e</sup>	N/A <sup>e</sup>	3	6	12	12	12	FMA Annual report	DA-BFAR	DA-BFAR	
		Number of BFAR and LGU FMA action plans developed (No., Cumulative)	2019	3	N/A <sup>e</sup>	N/A <sup>e</sup>	-	3	6	12	12	FMA Plan	DA-BFAR	DA-BFAR	
Chapter Outcome 2															
Access to markets of small farmers and fisherfolk expanded		Growth in the value of A&F exports increased (% Free On Board value, cumulative)	2016	(0.1)	2.0	5.0	7.0	9.0	9.0	9.0	9.0	PSA	DA	PSA	Strong global demand and international prices remain stable.
Subchapter Outcom	ne 2.1														
Access to digitally supported value chains increased		Number of accredited eKadiwa wholesalers and retailers increased (No.)	2020	45	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	45	55	65		eKadiwa ni Ani at Kita Online Platform	DA	DA	20 percent annual increase based on available historical data of eKadiwa upscaling
		Number of customers served by eKadiwa wholesalers and retailers increased (No.)	2020	728	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	728	1602	3524		eKadiwa ni Ani at Kita Online Platform	DA	DA	and IEC campaign.
		Amount of sales generated by eKadiwa wholesalers and retailers (in PHP)	2020	1,106,022.43	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	1,106,022.43	2,433,249.35	5,353,148.57		eKadiwa ni Ani at Kita Online Platform	DA	DA	
		Share of CDA-registered reporting AFF cooperatives k business processes facilitated through value chain to total registered AFF cooperatives increased (in %)	2018	N/A <sup>i</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	5.0	7.0	9.0	9.0	CDA Assistance Request forms	CDA	CDA	
Aggregate Outputs															
Capacity-building on the use of electronic/digital platforms for		Number of individual beneficiaries provided with trainings on digital/electronic marketing increased (No.)	2019	327	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	800	875	875	Agency Annual report	DA-ATI TESDA CDA	DA-ATI TESDA CDA	
marketing provided		Number of trainings conducted on digital/electronic marketing increased (No.)	2019	7	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	32	35	35	Agency Annual report	DA-ATI TESDA CDA	DA-ATI TESDA CDA	
Technical support services provided to registered cooperatives		Number of CDA-registered reporting AFF cooperatives provided with technical assistance (No.) <sup>m</sup>	2018	1,172	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	59	83	106	106	CDA Assistance Request forms	CDA	CDA	

<sup>&</sup>lt;sup>e</sup> New indicator proposed in 2019. Targets were committed from 2019 to 2022.

Formula: Number of CDA-Registered Reporting AFF coops provided by CDA w/ tech assistance

Total Number of CDA-Registered Reporting AFF Cooperatives

<sup>&</sup>lt;sup>1</sup> No baseline value or accomplishment as data for the new indicator was not regularly monitored/maintained prior to its inclusion in the RM.

<sup>&</sup>lt;sup>k</sup> Consists of agriculture, producer, agrarian reform, fisherman, and dairy cooperatives.

The indicator pertains to the cooperative business process that were linked to certain segments of the value chain through business matching and market facilitation.

m Endorsement for the provision of technical assistance (i.e., Governance), award of Shared Service Facilitices.

New indicator proposed in 2019. Targets were committed from 2019 to 2022.

<sup>9</sup> No annual accomplishment/target to be reported as the source of data for the indicator is based on a study that is not regularly published by agencies.

h Aggregate Output Indicators pertaining to program areas, number of assisted enterprises and beneficiaries, either groups or individuals, may not be a unique area or enterprises/beneficiaries, as an area/enterprises/group/individual may receive different and/or more than one machinery/equipment, technical support services, and livelihood projects

Objectives/Results	SDG Tier 1	Indicator	Bas	eline			Annual P	an Targets			End of Plan	Means of	Responsible	Reporting	Assumptions and Risks
Objectives/Results	Indicators	indicator	Year	Value	2017	2018	2019	2020	2021	2022	Target <sup>a</sup>	Verification	Agency <sup>b</sup>	Entity <sup>c</sup>	Assumptions and Risks
Innovative financing and guarantee coverage provided to small		Number of beneficiaries provided with credit under ACPC-adminstered credit programs (No.)	2019	77,587.0	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	23,701.0	109,367.0	109,367.0	109,367.0	ACPC Annual report	DA-ACPC	DA-ACPC	
farmer/fisherfolk		- SFFs	2019	77,576.0	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	23,667.0	109,333.0	109,333.0	109,333.0		DA-ACPC	DA-ACPC	
individuals and		- AFF-based MSMEs	2019	11.0	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	34.0	34.0	34.0	34.0		DA-ACPC	DA-ACPC	
organizations (cont'd)		Amount/Volume of loans covered by guarantee increased (in PHP billions)	2019	6.3	N/A <sup>e</sup>	N/A <sup>e</sup>	N/A <sup>e</sup>	4.2 <sup>n</sup>	4.4	4.6	4.6	PGC Annual report	DOF-PGC	DOF-PGC	Reduction in the amount of AGFP seed fund affects PGC's capacity to expand
		Number of loan borrower accounts of lending institutions/Microfinance Insitutions (MFIs) covered by guarantee increased (No.)	2019	66,583	N/A °	N/A °	N/A°	39,000 <sup>n</sup>	41,000	43,000	43,000	PGC Annual report	DOF-PGC	DOF-PGC	agricultural guarantee coverage
Chapter Outcome 3	•														
Access of		Prevalence of moderate or severe		n the population be	ased on the Food	Insecurity Experie	ence Scale (See C								
to nutritious,	(Prevalence of moderate	Severely Food Insecure	2019	5.1	N/A <sup>9</sup>	N/A <sup>9</sup>	N/A <sup>9</sup>	N/A <sup>g</sup>	N/A <sup>g</sup>	0.0	0.0	Expanded National Nutrition Survey	Force on Zero	DOST-FNRI	
affordable, and safe food improved <sup>o</sup>	or severe food insecurity in the population, based on the Food Insecurity Experience Scale [FIES])	Moderately Food Insecure	2019	39.1	N/A <sup>g</sup>	N/A <sup>g</sup>	N/A <sup>9</sup>	N/A <sup>9</sup>	N/A <sup>9</sup>	25.8	25.8	Expanded National Nutrition Survey	Hunger DA, DSWD, DTI, DOTr, DOH, DepEd, NNC		

 $<sup>^{\</sup>rm e}$  New indicator proposed in 2019. Targets were committed from 2019 to 2022.

<sup>9</sup> No annual accomplishment/target to be reported as the source of data for the indicator is based on a study that is not regularly published by agencies.

<sup>&</sup>lt;sup>n</sup> 2020 targets based on the reduced AGFP seed fund, which took effect on September 1, 2019 pursuant to Executive Order No. 58, when administration of the AGFP was transferred to the PGC.

<sup>°</sup> Subchapter Outcome 2.1: Access to digitally supported value chains increased also contributes to the attainment of Chapter Outcome 3.