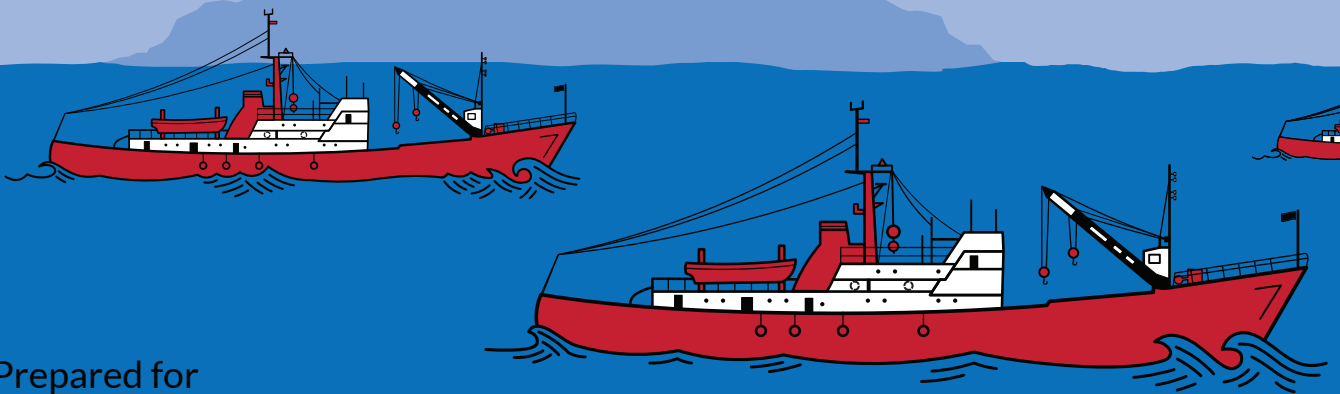


SUPPLEMENTAL DATA

China's Financing and Subsidization of Capture Fisheries

October 2021

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Prepared for

 OCEANA

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China's subsidies financing structure and reporting has changed considerably in the past few years, resulting in decreased transparency. China used to issue a detailed report of its fisheries subsidies programs and amounts in the annual *China Fisheries Yearbook* volume, however in 2016, this detailed reporting ceased. China used to report the total amount of fuel subsidies provided to the industry, including the proportions provided to the domestic versus distant-water fishing fleets, but China stopped reporting the fuel subsidies given to the DWF industry after 2011. Now, instead of reporting funding that directly supports fuel subsidies, the Chinese central government has altered its subsidy programs so that fishing enterprises receive general funding that they can use to support their operations, which includes fuel subsidies. The Chinese central government no longer tracks criteria that determine how much money in fuel subsidies a given vessel is granted—these allocations are now made at subnational levels of government (provincial-level and below). China issued a notification of its subsidies, including agricultural subsidies, to the WTO in 2019, detailing fisheries subsidies programs for 2017 and 2018, but did not include an estimate for fuel subsidies because of these policy changes.

This study relied mostly on primary-source Chinese language materials, including government publications, media reports, and interviews. We examined government laws, regulations, policies, notifications, and analyses and comprehensively cited those that are instrumental to China's fisheries subsidies program. We also drew upon peer-reviewed academic literature and journalistic accounts to complement our analysis. In cases where we had incomplete data, such as incomplete reporting for provincial subsidies, we estimated amounts to account for these information gaps.

A more comprehensive analysis of these findings will be submitted for publication in the peer-reviewed literature by the close of 2021.

Table 1: 2019 Fisheries Development and Vessel Decommissioning Subsidy (Portion for Fishing Vessel Disposal, Renovation and Fisheries Equipment Construction)

2019年渔业发展与船舶报废拆解更新补助资金 (渔船报废拆解、更新改造和渔业装备设施建设部分)分配总表 2019 Fisheries Development and Vessel Decommissioning Subsidy (Portion for Fishing Vessel Disposal, Renovation and Fisheries Equipment Construction)				
Unit: RMB				
地区(单位) Area	合计 Total	国内渔业 Domestic	远洋渔业 DWF	DWF as % of Total
北京 Beijing	5,440,000	0	5,440,000	100%
天津 Tianjin	11,600,000	360,000	11,240,000	97%
河北 Hebei	130,520,000	98,640,000	31,880,000	24%
辽宁 Liaoning	206,690,000	121,250,000	85,440,000	41%
大连 Dalian	442,560,000	135,460,000	307,100,000	69%
吉林 Jilin	8,000,000	8,000,000	0	0%
黑龙江 Heilongjiang	8,000,000	8,000,000	0	0%
上海 Shanghai	125,190,000	550,000	124,640,000	100%
江苏 Jiangsu	145,720,000	126,240,000	19,480,000	13%
浙江 Zhejiang	1,259,750,000	184,550,000	1,075,200,000	85%
宁波 Ningbo	121,790,000	82,750,000	39,040,000	32%
福建 Fujian	1,086,090,000	390,580,000	695,510,000	64%
厦门 Xiamen	48,120,000	3,600,000	44,520,000	93%
江西 Jiangxi	16,000,000	16,000,000	0	0%
山东 Shandong	1,077,100,000	358,330,000	718,770,000	67%
青岛 Qingdao	402,370,000	112,280,000	290,090,000	72%
湖南 Hunan	24,000,000	24,000,000	0	0%
广东 Guangdong	542,370,000	494,850,000	47,520,000	9%
深圳 Shenzhen	118,580,000	0	118,580,000	100%
广西 Guangxi	166,740,000	130,770,000	35,970,000	22%
海南 Hainan	174,050,000	174,050,000	0	0%
四川 Sichuan	8,000,000	8,000,000	0	0%
云南 Yunnan	16,000,000	16,000,000	0	0%
陕西 Shaanxi	8,000,000	8,000,000	0	0%
合计 Total	6,152,680,000	2,502,260,000	3,650,420,000	59%

The Ministry of Finance reports that the Fisheries Development and Vessel Decommissioning Subsidy for the subprograms Fishing Vessel Disposal, Renovation, and Fisheries Equipment Construction totaled CNY 6.153 billion in 2019, with CNY 2.5 billion and CNY 3.65 billion for the domestic and DWF sectors, respectively.

Table 2a: Upper Limits for Vessel Renovation and Construction Subsidies per DWF Vessel by Vessel Type
(in Chinese)

序号	船型	主要船型参数 (总吨位, 船长)	补助金额上限 (万元/艘)
1	金枪鱼围网船	1500总吨且船长65米以上	3000
2	金枪鱼延绳 钓船	超低温金枪鱼延绳钓船	500总吨且船长40米以上
3		玻璃钢金枪鱼延绳钓船	250总吨且船长30米以上
4		钢质金枪鱼延绳钓船	400总吨且船长40米以上
5		钢质金枪鱼延绳钓船	200总吨且船长30米以上
6	秋刀鱼捕捞船	1400总吨且船长65米以上	1200
7	专业鱿鱼钓 船	专业鱿鱼钓船	1200总吨且船长65米以上
8		专业鱿鱼钓船	900总吨且船长55米以上
9		专业鱿鱼钓船	500总吨且船长50米以上
10		专业鱿鱼钓船	450总吨且船长45米以上
11	双甲板拖	双甲板拖网渔船	1500总吨且船长55米以上
12	网渔船	双甲板拖网渔船	300总吨且船长30米以上
13	中上层围网渔船 (不含三角虎网)	400总吨且船长45米以上	350
14	其它过洋性渔船	200总吨且船长30米以上	240
15	远洋渔业辅助船	4000总吨且船长100米以上	1800
16		3000总吨且船长85米以上	1200
17		2000总吨且船长70米以上	800
18	专业南极磷虾捕捞加工船 (新建)	7000总吨且船长100米以上	15000
19	专业南极磷虾捕捞加工船 (改造)	4000总吨且船长90米以上	3000

Table 2b: Upper Limits for Vessel Renovation and Construction Subsidies per DWF Vessel by Vessel Type (English Translation)

Serial number	Vessel type	Main parameters (Gross tonnage, vessel length)	Maximum allowable amount of subsidies (RMB 10,000 /vessel)
1	Tuna purse seiner	1,500 tons with a length of 65 meters or more	3,000
2	Tuna longliner	Ultra-low temperature tuna longliner	500 tons with a length of 40 meters or more
3		Fiberglass tuna longliner	250 tons with a length of 30 meters or more
4		Steel tuna longliner	400 tons with a length of 40 meters or more
5		Steel tuna longliner	200 tons with a length of 30 meters or more
6	Saury fishing vessel	1,400 tons with a length of 65 meters or more	1,200
7	Professional squid jigging vessel	Professional squid jigging vessel	1,200 tons with a length of 65 meters or more
8		Professional squid jigging vessel	900 tons with a length of 55 meters or more
9		Professional squid jigging vessel	500 tons with a length of 50 meters or more
10		Professional squid jigging vessel	450 tons with a length of 45 meters or more
11	Double-deck trawler	Double-deck trawler	1,500 tons with a length of 55 meters or more
12		Double-deck trawler	300 tons with a length of 30 meters or more
13	Purse seiner (without “triangular tiger seine” ¹) operating for pelagic fish (中上层鱼类)	400 tons with a length of 45 meters or more	350
14	Other fishing vessels in the EEZs of other countries	200 tons with a length of 30 meters or more	240
15	Auxiliary vessels for DWF	4,000 tons with a length of 100 meters or more	1,800
16		3,000 gross tons with a length of 85 meters or more	1,200
17		2,000 tons with a length of 70 meters or more	800

¹ This is the literal translation for “三角虎网”, which is not a formal Chinese term. The formal term is 单船有囊围网, which may be translated as “single-vessel bag seine. 农业部办公厅 [MOA General Office], 关于加强“三角虎网”作业管理工作的通知 [Notice on the Strengthening of “Triangular Tiger Seine” Management Work], 25 August 2014, http://www.moa.gov.cn/govpublic/YYJ/201501/t20150120_4341921.htm.

18	Professional Antarctic krill fishing and processing vessel (newly built)	7,000 tons with a length of 100 meters or more	1,5000
19	Professional Antarctic krill fishing and processing vessel (rebuilt)	4,000 tons with a length of 90 meters or more	3,000

The Ministry of Agriculture mandates that central-government subsidies for vessel renovation and construction should not exceed 30 percent of the total cost of the renovation or construction (after exclusion of costs associated with imported equipment) and should not exceed the upper limit of the subsidy, whichever comes first, with the upper limit per vessel depending on the fishing type, length, and gross tonnage of the vessel, totally 19 categories.

Table 3: 远洋渔船国际渔业资源开发利用补助系数 [Exploitation of International Fisheries Resources DWF Vessel Subsidy Coefficients]

类别 Category	作业类型 Operation Type	补助系数 (每日) Subsidy Coefficient (per day)
	大型拖网加工、公海拖网、金枪鱼围网、超低温及低温金枪鱼延绳钓、鱿鱼钓、秋刀鱼舷提网 Large processing trawlers, high seas trawlers, tuna purse seiners, ultra-low and low temperature tuna long-liners, squid jiggers, saury nets	0.00369
	过洋性拖网、中上层围网、冰鲜金枪鱼延绳钓 EEZ trawlers, pelagic purse seiners, freezer tuna long-liners	0.00328
	过洋性定置网、刺网、钓具 (延绳钓、钩钓、刺钓、杯钓等)、笼壶以及其他未列明作业类型 EEZ fixed net, fishing gear (long-line hooks, hooks, cup hooks, etc), lobster pots and other not listed types	0.00246
	南极磷虾拖网加工 (以进出CCAMLR公约区为界) Antarctic krill processing trawlers (limited to those entering CCAMLR Convention Area)	0.00492

For a given vessel, the product of its engine power x number of days eligible for subsidies x a daily subsidy coefficient provides a “per-vessel subsidy base” (单船补助基数) in tons of fuel consumed. Vessel power is specified on the vessel certificate but within an upper limit. The number of eligible days for subsidies is defined as the monitored number of days in operation or the effective number of days in operation as confirmed by the MOA's DWF program (农业部远洋渔业项目确认的有效天数), whichever is smaller. The subsidy coefficient takes on one of four different values (0.00492, 0.00369, 0.00328, and 0.00246) depending on the type of fishing (see Table 1). These coefficients refer to the amount of fuel consumed in tons over 24 hours per 1 kW of engine power. By multiplying the subsidy base per vessel by a unit subsidy (i.e., subsidy per ton of fuel consumed), one can calculate the subsidies to a single vessel for exploiting international fishery resources. The subsidy per ton of fuel consumed varied by year, which was CNY 1,331 in 2018, CNY 1,331 in 2019, and CNY 1064.6 in 2020.

Table 4: China Fisheries Subsidies, 2019

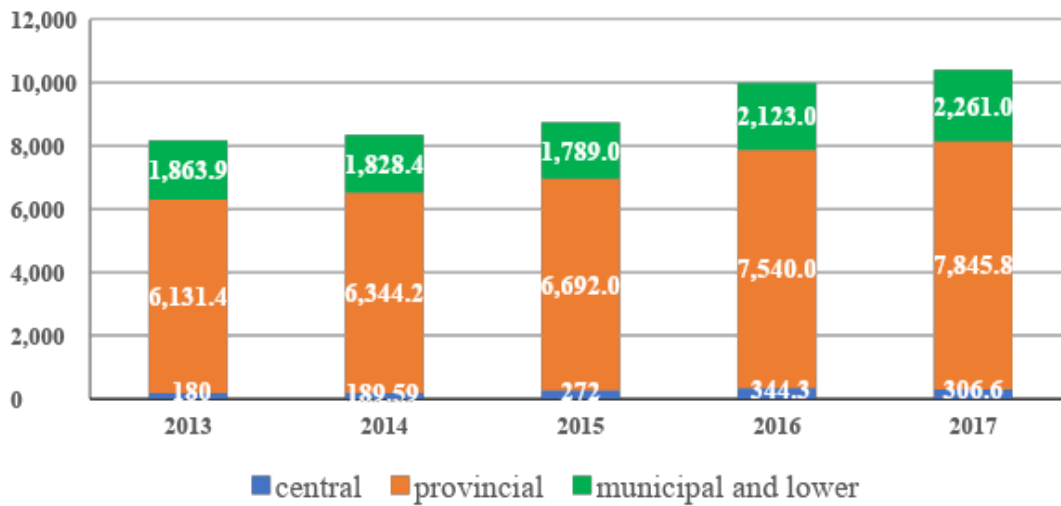
Year: 2019 Unit: RMB Expenditure			Beneficial	Ambiguous	
			Harmful	Aquaculture	
	Totals	Breakdown	Breakdown	Breakdown	Breakdown
Direct Subsidies	21,307,956,728				
Central Government Subsidies (中央政府对渔业的财政投入)		20,267,956,728			
General Transfer Payments (GTP, 中央下放到省级的一般性转移支付资金)			11,662,580,000		
Spent at Central Level				349,000,000	
Spent at Provincial and Municipal Levels				11,313,580,000	
Production Cost Subsidies to Fishermen (渔民的生产成本补贴) / Fuel Subsidies (渔船柴油涨价补贴)					9,200,000,000
Fishing Ports and Navigation Beacons 渔港和航标建设					580,000,000
Fishery and Fishery Administration Informatization Construction 渔业渔政信息化建设					200,000,000
Fishing Vessel Reduction and Industry Transition 减船转产					300,000,000
Fisheries Resource Conservation / Stock Enhancement 渔业资源养护/增殖放流					1,000,000,000
Fishing Moratorium Subsidy 休禁渔补贴					33,580,000

Aquaculture: Pond Standardization, Water Re-circulation Construction, and Other Infrastructures 池塘标准化和工厂化循环用水改造等水产养殖基础设施建设					7,100,000,000
Special Transfer Payments (STPs; 中央财政转移地方专项资金)			8,605,376,728		
Vessel Decommissioning and Renovation 渔船报废拆解、更新改造				1,460,246,483	
Domestic Vessel Decommissioning and Renovation					687,260,000
DWF Vessel Decommissioning and Renovation					772,986,483
Fisheries Development 渔业发展				5,645,130,245	
Construction of Fisheries Equipment and Facilities 渔业装备设施建设					
Inland Fishing Ports (Domestic) 内陆渔港					1,210,000,000
Marine Ranching 海洋牧场 (Domestic)					605,000,000
DWF Bases 远洋渔业基地					2,877,433,517
Utilization of International Fisheries Resources (DWF) 国际渔业资源开发利用					952,696,728
Fishing Vessel Reduction and Industry Transition 减船转产				1,500,000,000	
Provincial Government Subsidies		1,040,000,000			
Insurance Premiums			1,000,000,000		
DWF Catch Transport			40,000,000		

Indirect Subsidies	6,883,500,000				
Tax Exemptions			6,336,000,000		
Catch Import Tax Exemption				2,805,000,000	
Gear Import Tax Exemption				0	
Income Tax Exemption				3,531,000,000	
Policy Bank Loan Interest Savings			547,500,000		
Subtotal Direct	21,307,956,728				
Direct in US\$	3,278,147,189				
Subtotal Indirect	6,883,500,000				
Indirect in US\$	1,059,000,000				
Total	28,191,456,728				
US\$	4,337,147,189				

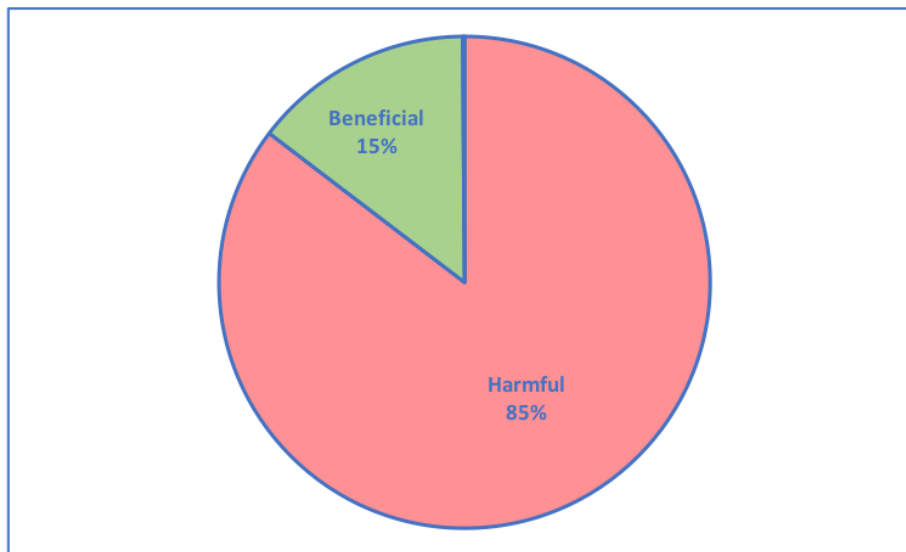
Data placed in tabular format and marine capture programs categorized into beneficial, ambiguous, or harmful to sustainability.

Figure 1: Zhejiang Fisheries Mutual Insurance Subsidies (in RMB 10,000), 2013–2017²



Zhejiang Province provides some data on the amounts of insurance premium subsidies categorized by central-, provincial- and lower-level governments, with the total sum increasing from 81.75 to 104.13 million from 2013 to 2017, and the provincial government subsidies accounted for the dominant fraction. Zhejiang’s sub-central insurance subsidies were on average 28 to 44 times higher than central-level subsidies for this five-year period.

Figure 2: Proportions of Harmful and Beneficial Marine Capture Subsidies



Using data from table 5 provides that for marine capture subsidies, 15 percent were beneficial, less than 1 percent were ambiguous, and 85 percent were harmful to sustainability.

² Zhejiang Province Yearbook [浙江年鉴], <https://cyfd.cnki.com.cn/Article/N2019050085000603.htm>. Data from other years are not disclosed. (The Almanac of Zhejiang by the publisher.)

Figure 3: Domestic and DWF Shares of Capture Fisheries Subsidies

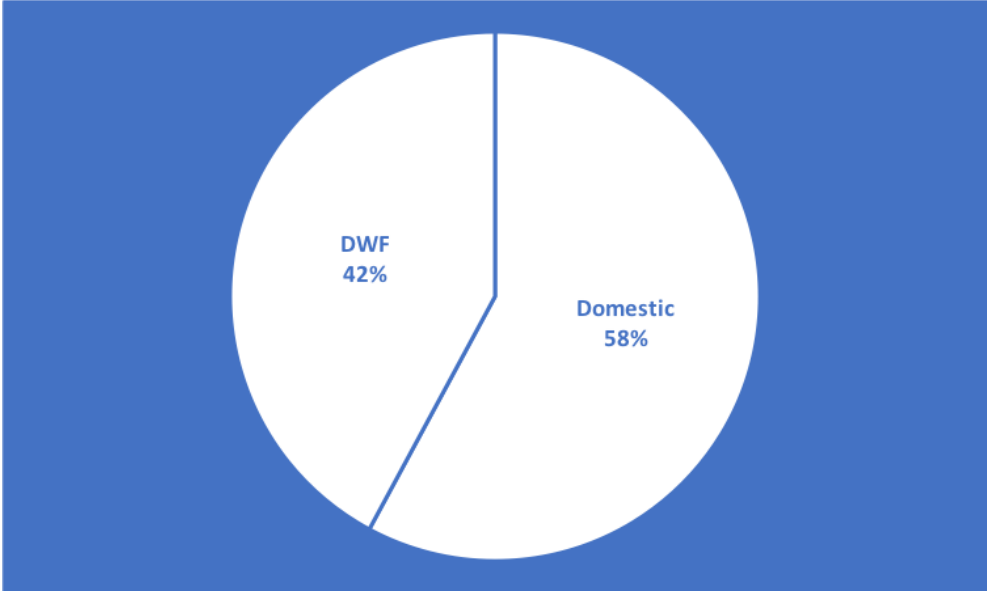


Figure 4: Domestic and DWF Shares of Capture Fisheries Subsidies, with Breakdown of Direct and Indirect Subsidies

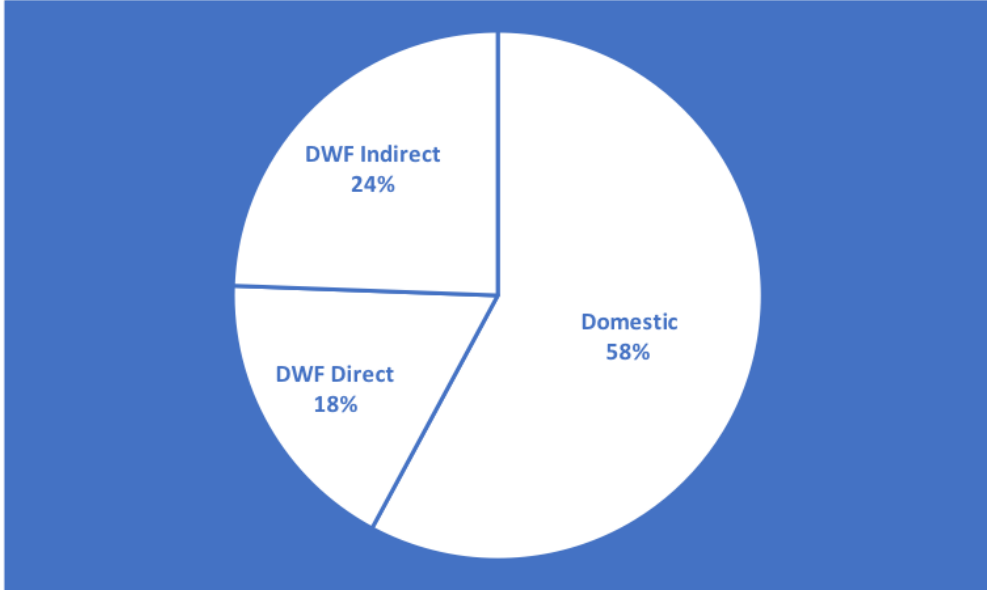


Table 5: Chinese Central Government Expenditures on Fisheries and Aquaculture in 2014

Year: 2014	Source: 2015 China Fisheries Yearbook		
Expenditure	Totals	Unit: RMB	
Central Government Expenditures (中央政府对渔业的财政投入)			
Basic Infrastructure (基本建设项目)	2,036,640,000	Breakdown	
Aquatic breeding farms (其中包括水产原(良)种场建设)		100,000,000	
Epidemiology stations (县级水生动物防疫站)			
Fisheries administration (including fisheries enforcement vessels) (渔政工程) ⁴		400,000,000	
Fishing harbors (渔港) ⁵		400,000,000	
Protected areas/reserves (水生动物保护区) ⁶		36,620,000	
Administrative capacity building (加强直属单位自身能力)		81,020,000	
Comprehensive agriculture development (农业综合开发项目) ⁷		45,200,000	
Fishing vessel renovation (海洋渔船更新改造)		473,800,000	
Converting boats to homes (以船为家渔民上岸安居工程) ⁸		500,000,000	
Specialized financing programs (财政项目)	988,490,000	Breakdown	

³ For the construction of 44 breeding farms and 4 genetic breeding centers.

⁴ For the creation of 737 fisheries enforcement vessels, 7 fisheries resource survey vessels, and 2 fisheries enforcement wharfs.

⁵ For the new construction of one central harbor and three top-tier harbors, and the continued construction of six central harbors and four top-tier harbors.

⁶ For the establishment of 11 new projects.

⁷ For the creation of 35 new programs.

⁸ For nine provinces to build 23,836 homes and renovate 3,102 homes.

Ministry of Agriculture (农业部)		388,490,000	Breakdown
Ecological protection (such as fishing reduction) (渔业资源保护)			2,860,000
Statistics (渔业统计)			19,040,000
International communication and cooperation (国际交流与合作)			1,800,000
Wildlife species protection expenses (水生野生动物资源保护费)			4,000,000
Disease monitoring and defense expenses (动物疫情监测与防治经费)			5,000,000
Quality control systems (农产品质量安全监管)			32,500,000
Fisheries administrative management (渔政管理)			98,890,000
Fisheries production loss assistance (渔业生产损失救助)			43,000,000
Pilot projects on fisheries insurance (渔业政策性保险试点)			10,000,000
Fisheries assessment and exploratory catch (海洋渔业资源调查与深扑捕)			72,100,000
Fisheries breeding quality protection (渔业种质资源保护)			99,300,000
Central Government Budget Transfers (中央财政转移地方专项资金)		600,000,000	Breakdown
Seeding (渔业资源增殖放流)			309,000,000
Building ranching areas (海洋牧场建设)			91,000,000
Standardization of healthy aquaculture production (渔业标准化健康养殖)			200,000,000
Subtotal Central	3,025,130,000		
Fuel Subsidies (渔船柴油涨价补贴) ⁹	24,200,000,000		
Total Central	27,225,130,000		

⁹ This figure was not included in the yearbook, but came from 财政部 [Ministry of Finance] 财政部、农业部联合部署渔业油价补贴政策调整工作 [Ministry of Finance and Ministry of Agriculture Jointly Carry Out Fisheries Fuel Subsidy Adjustment Work], 9 July 2015, http://www.mof.gov.cn/zhengwuxinxi/caizhengxinwen/201507/t20150709_1273697.html.

Table 6: Chinese Central Government Expenditures on Fisheries and Aquaculture in 2016

Year: 2016	Source: 2017 China Fisheries Yearbook		
Expenditure	Totals	Unit: RMB	
Central Government Expenditures (中央政府对渔业的财政投入)			
Basic Infrastructure (基本建设项目)	1,650,000,000	Breakdown	
Aquatic breeding farms (其中包括水产原(良)种场建设)			
Epidemiology stations (县级水生动物防疫站)			
Fisheries administration (including fisheries enforcement vessels) (渔政工程)			
Fishing harbors (渔港)			
Protected areas/reserves (水生动物保护区)			
Administrative capacity building (加强直属单位自身能力)			
Comprehensive agriculture development (农业综合开发项目)			
Fishing vessel renovation (海洋渔船更新改造)			
Converting boats to homes (以船为家渔民上岸安居工程)			
Rice fish integrated cultivation project (稻渔综合种养工程)			48,000,000
Specialized financing programs (财政项目)	1,107,000,000	Breakdown	
Ministry of Agriculture (农业部)			Breakdown
Ecological protection (such as fishing reduction) (渔业资源保护)			

Statistics (渔业统计)			
International communication and cooperation (国际交流与合作)			
Wildlife species protection expenses (水生野生动物资源保护费)			
Disease monitoring and defense expenses (动物疫情监测与防治经费)			
Quality control systems (农产品质量安全监管)			
Fisheries administrative management (渔政管理)			
Fisheries production loss assistance (渔业生产损失救助)			
Pilot projects on fisheries insurance (渔业政策性保险试点)			850,000,000
Fisheries assessment and exploratory catch (海洋渔业资源调查与深扑捕)			
Fisheries breeding quality protection (渔业种质资源保护)			
Central Government Budget Transfers (中央财政转移地方专项资金)			Breakdown
Seeding (渔业资源增殖放流)			400,000,000
Building ranching areas (海洋牧场建设)			
Standardization of healthy aquaculture production (渔业标准化健康养殖)			
Subtotal Central	2,757,000,000		
Fuel Subsidies (渔船柴油涨价补贴)	7,998,000,000		
Total Central	10,755,000,000		

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