

## REVIEW OF CATCHES AT FMA 718

As FIP implementers, two industries operate in cobia, wahoo, and mahi-mahi fisheries. The first is PT Intan Jaya which catches in FMA 718, where the main fishery is the demersal fish, especially snapper and grouper. The caught cobia and mahi-mahi are yet to be included as bycatch species, but they can be categorized as secondary species because they are managed. The second company is PT Permata Marindo Jaya which is engaged in catching tuna, where the bycatch is wahoo and mahi-mahi. Tables 1 and 2 show the species composition of the catch based on logbook data.

Table 1. The average catch (in percent) of PT Intan in FMA 718, where Cobia and Mahi-mahi are less than 2 percent, especially shown by Mahi-mahi (Data 2017 – 2022).

Catch category	Average	STD
Demersal	80.11	12.295
Pelagic	5.98	3.561
Sharks	1.85	2.115
Rays	0.00	0.014
Mixed	10.88	14.932
Cobia	<b>1.37</b>	0.930
Mahi-mahi	<b>0.01</b>	0.006

The main catches at FMA 718 are demersal fish from snappers and groupers. Some snapper species caught include the Malabar red snapper, crimson snapper, Golband snapper. Meanwhile, from the grouper group, those that were consistently caught were the dusky tail, dot dash, and greasy grouper. The catch volume for sweetlips and emperors is also quite significant. Other demersal species also caught considerably are fish from the family Ariidae (sea Catfish).

The second group caught from FMA 718 were pelagic fish including the Savalai hairtail, barred queenfish, and barracuda. The catch also shows that in FMA 718 sharks and rays are still being caught. The results of recording these catches are reported to the government for further management. But in the last 2 years, the number of sharks and rays caught has drastically decreased. The composition of mixed fish catches is still high and there are many species. In data collection, it is often difficult to identify because many of the mixed catches are written in local names, which need to be identified carefully.

Based on existing data, it is possible to see trends in catches using the catch-per-unit effort (CPUE) approach. It can be seen that during the five years of fishing, there has been a trend of decreasing catches. However, this is still a trend because the effect of this decline on stock declines will still be further investigated using a risk-based framework approach which is commonly used in fisheries with limited data (Figure 2).

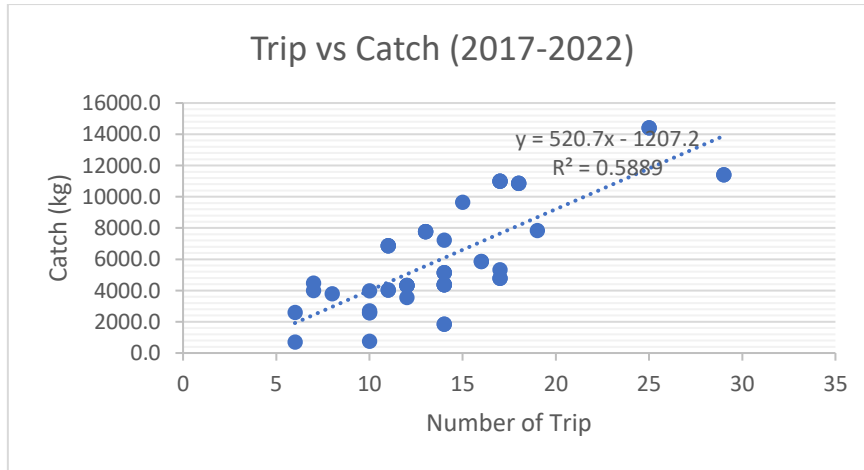


Figure 1. Trip number and catch in cobia fishery operated by PT Intan Jaya (2017-2022)

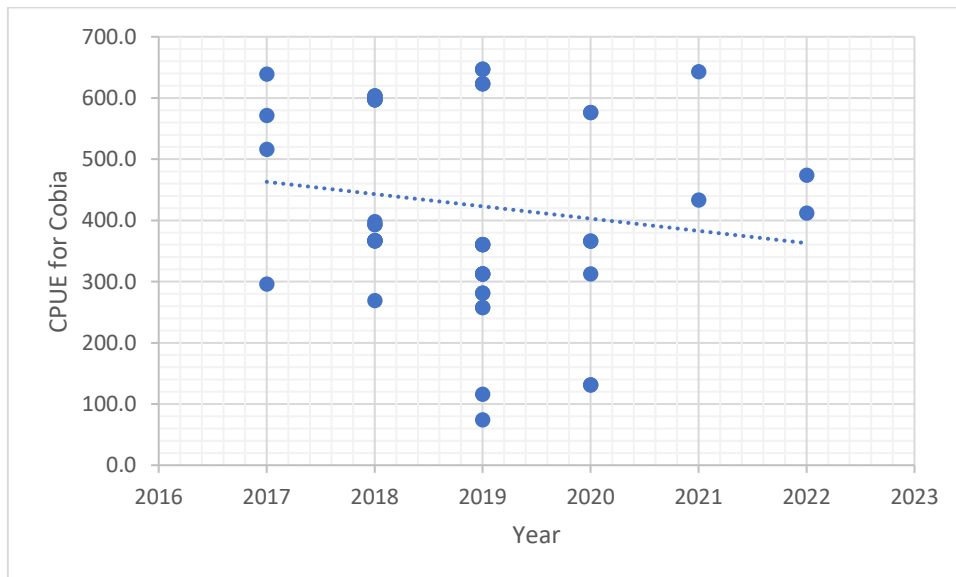


Figure 2. Trend CPUE of Cobia Fishery in FMA 718 operated by PT Intan Jaya (2017-2022)

Table 2 below shows catch records prepared by PT Marindo Jaya at FMA 572 and 573. It can be seen that the primary fishery is tuna, while wahoo and mahi-mahi are secondary species with an average catch percentage of less than 1 percent. Due to too little data, currently, the catch trend cannot be presented.

Table 2. The average catch (in percent) of PT Permata Marindo Jaya in FMA 572 and 573, where Cobia and Mahi-mahi are less than 2 percent

Species	Latin Name	Percentage
Albacore	<i>Thunnus alalunga</i>	37.2904
Yellowfin tuna	<i>Thunnus albacares</i>	26.4112
Oilfish	<i>Ruvettus pretiosus</i>	10.2644
Bigeye tuna	<i>Thunnus obesus</i>	7.1914
Meka	<i>Xiphias gladius</i>	7.0758
Sharks	Carcharhinidae?	6.6928
Marlin	<i>Makaira nigricans</i>	2.4087
Cephalopods	<i>Uroteuthis</i> spp.	0.5916
Longtail tuna	<i>Thunnus tonggol</i>	0.5186
Narrow-barred Spanish mackerel	<i>Scomberomorus commerson</i>	0.4519
Opah	<i>Lampris guttatus</i>	0.3569
Black pomfret (silver pomfret)	<i>Parastromateus niger/Pampus argenteus</i>	0.2143
Giant catfish	<i>Arius thalassinus</i>	0.1645
Tripletail	<i>Lobotes surinamensis</i>	0.1196
Scad	<i>Decapterus</i> spp.	0.0952
<b>Wahoo</b>	<b><i>Acanthocybium solandri</i></b>	<b>0.0537</b>
Bigeye scad	<i>Selar crumenophthalmus</i>	0.0321
Indo-pacific sailfish	<i>Istiophorus platypterus</i>	0.0311
Mackerel	<i>Rastrelliger</i> spp.	0.0222
<b>Mahi-mahi/common dolphinfish</b>	<b><i>Coryphaena hippurus</i></b>	<b>0.0044</b>
Bali sardinella	<i>Sardinella lemuru</i>	0.0042
Torpedo scad	<i>Megalaspis cordyla</i>	0.0040
Dorab wolf herring	<i>Chirocentrus dorab</i>	0.0012