

Northern Prawn Fishery Data Summary 2021

Author: Josh Cahill

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NPF Industry Pty Ltd on behalf of the Australian Fisheries Management Authority (AFMA)

Josh Cahill

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AFMA

Level 3

15 Lancaster Place

MAJURA PARK ACT 2609

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STREET ADDRESS

Level 3

15 Lancaster Place

MAJURA PARK ACT 2609

Telephone: (02) 6225 5555

Facsimile: (02) 6225 5500

POSTAL ADDRESS ENQUIRIES

Box 7051

Canberra BC

ACT 2610

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Northern Prawn Fishery Data Summary 2021

Preface

Scope of the Report

This document summarises catch and effort information for the Northern Prawn Fishery (NPF) in 2021, including data relating to interactions with threatened, endangered and protected (TEP) species. The data summary provides an important mechanism for providing feedback to stakeholders on logbook data received by AFMA. In addition, the process of data extraction and analysis assists in identifying data quality issues where they exist and also assists in ensuring that data needs for fisheries management continue to be met.

AFMA has produced data summary reports for the NPF on an annual basis since 1999. As part of the AFMA/NPF co-management arrangements in the NPF, this is the twelfth year NPF Industry Pty Ltd has been responsible for development of the data summary.

Acknowledgements

Production of this report was made possible through the efforts of the skippers, vessel owners and Crew Member Observers of the NPF. Skippers supplied daily logbook information and vessel owners completed Seasonal Landing Returns. Crew Member Observers supplied information on interactions with TEP species and species identified as potentially high-risk. This was done on a voluntary basis while Crew Member Observers were undertaking their daily duties. Thanks to staff from Datafix Canberra for processing of log sheets, elogs and Seasonal Landing Returns. Thanks also to staff from AFMA's Data Management section for their review and assistance with data management activities.

If you have any comments or queries on this, or any other data summaries, please do not hesitate to contact:

Josh Cahill
Projects Manager
NPF Industry Pty Ltd
Phone: 0424 096 355
Email: josh@npfindustry.com.au

Or

Darci Wallis
Manager, Northern Prawn, Torres Strait Prawn & Western Trawl Fisheries
AFMA
Phone: (02) 6225 5351
Email: darci.wallis@afma.gov.au

Also note that this Data Summary is available on AFMA's website at <http://www.afma.gov.au/fisheries/northern-prawn-fishery/data-summaries/>.

Table of Contents

PREFACE	2
Scope of the Report	2
Acknowledgements.....	2
TABLE OF CONTENTS	3
INTRODUCTION	5
DESCRIPTION OF THE NORTHERN PRAWN FISHERY	5
Area of Fishery.....	5
Fishing Methods.....	5
Management Information.....	6
Species.....	7
Data Collection Program	8
METHODS USED FOR PREPARING DATA SUMMARY	8
Banana and Tiger Prawn Fishery Components	8
CATCH AND EFFORT DATA FOR THE NORTHERN PRAWN FISHERY	8
Catch.....	8
Catch by week.....	10
EFFORT	11
Nominal and effective effort.....	11
Catch Rate.....	12
Catch, effort and catch rate by month.....	13
VESSEL AND GEAR INFORMATION.....	14
Vessel length.....	14
Distribution of catch by vessel	14
Average catch per vessel.....	15
Fishing Gear	16
CATCH AND EFFORT BY STATISTICAL AREA IN THE NORTHERN PRAWN FISHERY	17
All areas	17
Weipa	19

Keerweer	21
Edward.....	23
Mitchell.....	25
Bold	27
Sweers	29
Mornington.....	31
Limmen Bight.....	33
Groote	35
Gove	37
Arnhem.....	39
Port Essington	41
Melville	43
Fog Bay	45
Bonaparte	47
INTERACTIONS WITH TEP SPECIES IN THE NORTHERN PRAWN FISHERY	49
Turtle interactions	49
Sea snake interactions	51
Sawfish Interactions.....	52
Syngnathid Interactions	53
CREW MEMBER OBSERVER AND SCIENTIFIC OBSERVER COVERAGE	54
STATE OR TERRITORY SPECIFIC DATA	56
RETAINED BYPRODUCT IN THE NORTHERN PRAWN FISHERY BY STATE OR TERRITORY WATERS	57
REFERENCES	58
APPENDIX 1 HISTORICAL CATCH AND EFFORT BY AREA	59

Introduction

The Northern Prawn Fishery Data Summary 2021 contains catch and effort statistics by prawn species, area, time and fishery. Comprehensive byproduct information is also included for the information of stakeholders and to meet AFMA's obligations under Offshore Constitutional Settlement agreements with Queensland, the Northern Territory and Western Australia. Interactions with Threatened, Endangered and Protected (TEP) species are also reported.

Description of the Northern Prawn Fishery

Area of Fishery

The Northern Prawn Fishery (NPF) is located off Australia's northern coast, and extends from the low water mark to the outer edge of the Australian Fishing Zone (AFZ) in the area between Cape York in Queensland and Cape Londonderry in Western Australia (Figure 1).

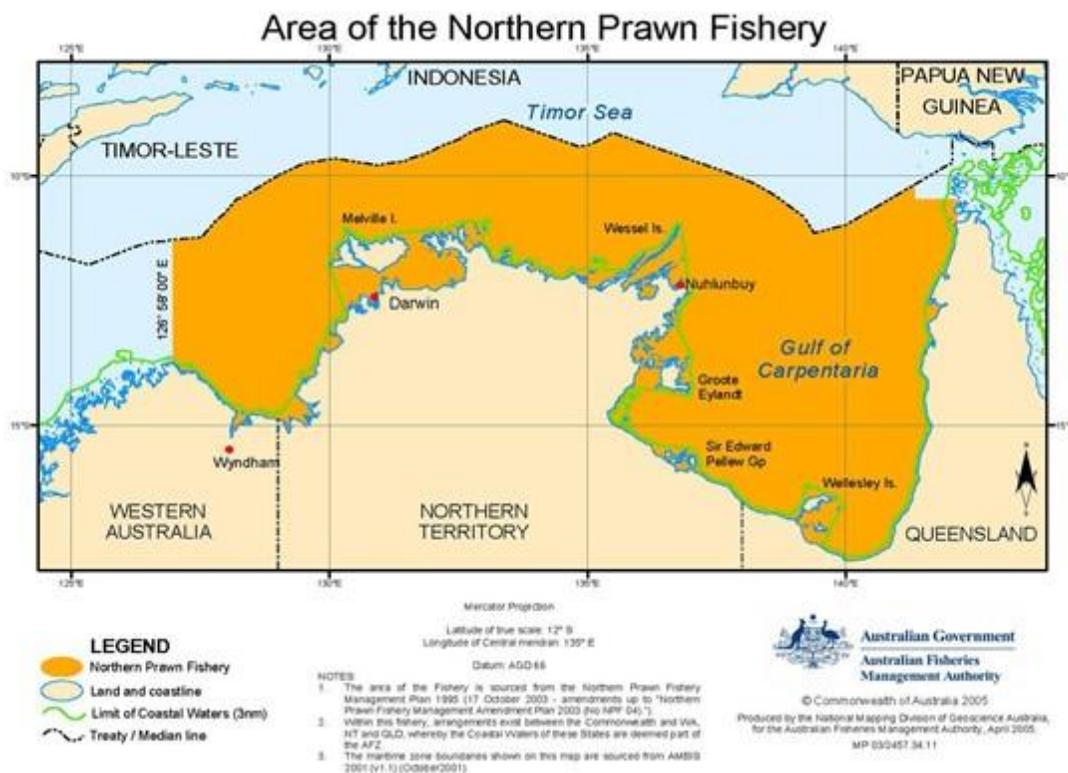


Figure 1: Northern Prawn Fishery Management Area.

Fishing Methods

Prawn trawling is an active fishing method which involves towing a conical-shaped net spread open by two or four steel or timber otter boards over the seabed, commonly called otter trawling. Ground chains are also used on the nets to stimulate prawns into the trawl mouth. Vessels in the NPF may tow a range of nets in a variety of configurations. These are regulated by the *Northern Prawn Fishery Management Plan 1995* (the Management Plan) and relevant Determinations and Directions. In addition to the main nets, a small 'try-net' is also used to test the potential catches for a given area. All trawl nets in the NPF (other than try-nets)

are required to be fitted with approved Turtle Excluder Devices (TEDs) and Bycatch Reduction Devices (BRDs), however TEDs are not required if operators are fishing in waters deeper than 200 m.

Most of the vessels in the NPF are purpose built from steel and range in length from 17 m to 30 m. All NPF boats have modern and sophisticated catch handling, packing and freezing capabilities as well as wet (brine) holding facilities. All vessels use electronic aids such as colour echo sounders, Global Positioning Systems (GPS) and plotters. Satellite phones and fax equipment are used by most vessels and most have introduced on-board computing facilities, electronic logbooks and Wi-Fi. All vessels are required to have a Vessel Monitoring System (VMS) installed.

Management Information

The NPF is managed through a combination of input controls (limited entry, seasonal closures, permanent area closures, gear restrictions and operational controls) that are implemented under the Management Plan.

The Management Plan provides for the granting of fully transferable Statutory Fishing Rights (SFRs) that determine the number of trawlers that may operate (Class B SFRs) and the amount of gear (gear SFRs) used in the Fishery. In 2001, the Management Plan was amended to allow the total gear pool to be set by a Determination. The gear SFR is set as an amount of headrope length, which can be varied depending on the stock status and economic indicators.

In 2002, measures were introduced to reduce effort by 40% on Tiger Prawn stocks. This was achieved by shortening the fishing seasons and a 15% reduction in the value (in centimetres) of a gear SFR. An additional 25% reduction in gear SFR value occurred in 2005, reducing the total number of Class B SFRs to 94.

In 2006/07, 43 Class B SFRs and 18,365 Gear SFRs (approximately 34% of the effective effort) were removed from the NPF through the Commonwealth Government's Structural Adjustment Package. The fishery is now comprised of 52 vessels (Boat SFRs) and 35,479 headrope units (Gear SFRs) - the optimal number estimated by the Australian Bureau of Agricultural and Resource Economics and Science (ABARES) to achieve Maximum Economic Yield (MEY) in the NPF.

In 2007, the industry formed 'NPF Industry Pty Ltd' (NPMI), an industry representative body that incorporates approximately 95% of NPF SFR holders.

An 8% increase in effort was implemented in the 2008 Tiger Prawn season as recommended by the Northern Prawn Fishery Management Advisory Committee (NORMAC) in response to the smaller fleet size. This was effected by increasing the value of NPF gear SFRs from 5.625 cm to 7.481 cm and permitting concession holders to use quad gear (with a 10% penalty applied).

In 2008, NPMI voluntarily introduced catch triggers to determine the closing dates for both the banana and Tiger Prawn seasons. A catch trigger of 500 kg per boat/day and specific weekly reporting periods were put in place for the Banana Prawn season. A total catch limit of 24 tonnes of Tiger Prawns by the end of the fourth fishing week also applied. A catch trigger of 300 kgs per boat/day over a one week reporting period was implemented for the Tiger Prawn season.

In 2009, the Tiger Prawn season was increased by four weeks based on the outputs of the 2008 Tiger Prawn stock assessment, resulting in the season commencing on 25 July and closing on 19 December. This was the first time since the introduction of the mid-year closure in 1987 that the Tiger Prawn season commenced prior to 1 August.

In 2010, NPFI voluntarily increased the banana and Tiger Prawn catch reporting periods to two weeks, and increased the catch trigger for the Tiger Prawn season to 350 kgs per boat/day.

In 2011, the Banana Prawn season was extended by two weeks to enable industry to make optimal use of an expected large available biomass of Banana Prawns resulting from favourable environmental conditions. Due to improvements in the Tiger Prawn stock assessment, it was also agreed that Tiger Prawns could be targeted in the Banana Prawn season from 1 May. An on-going decision rule was put in place to close Banana Prawn fishing west of 138° and to prevent daylight trawling east of this location to protect Banana Prawns if average daily catches did not meet a trigger of 500 kg per boat/day during the two week reporting period.

A Maximum Economic Yield (MEY) Banana Prawn catch trigger was implemented in 2014 as part of the future management regime for the Banana Prawn fishery. The decision rule closes the fishery west of 138°, and prohibits daylight trawling east of 138° if catches fall below the MEY trigger value which is calculated in-season based on catch, cost and price information provided by industry. There is also restriction placed on the trigger value to minimise large change in allowable effort, with a minimum MEY catch trigger of 425 kgs (per boat per day) in any two week catch reporting period.

In 2016, the MEY Banana Prawn catch trigger was not met in the third reporting period of the Banana Prawn season and the fishery was closed west of 138° from 9 June to protect the remaining Banana Prawn stocks. A daylight trawl ban east of 138° was also implemented until 15 June (when the season ended) to allow for night Tiger Prawn fishing. The 2016 Tiger Prawn season operated from 1 August to 20 November, closing early due to lower catches and the early closure decision rule being triggered.

In the 2017 and 2018 Banana Prawn season the MEY catch trigger was exceeded in all reporting periods and the fishery closed on the scheduled date of 15 June. The Tiger Prawn seasons in 2017 and 2018 operated from 1 August to 20 November, closing early due to lower catches and the early closure decision rule being triggered.

In 2019, catch triggers were met during both the Banana Prawn and Tiger Prawn seasons.

In 2020, the MEY Banana Prawn catch trigger was not met in the third reporting period of the Banana Prawn season and the fishery was closed west of 138° from 9 June. The daylight trawl ban east of 138° was then implemented until 15 June (when the season ended, 76 fishing days available) to allow for night Tiger Prawn fishing. The Tiger Prawn season operated from 1 August to 20 November (112 fishing days available), closing early due to lower catches and the early closure decision rule being triggered.

In 2021, the MEY Banana Prawn catch trigger was not met at the end of the third reporting period of the Banana Prawn season and the fishery was closed west of 138° from 9 June 2021, with the season then ending on 15 June 2021. The Tiger Prawn season operated from 1 August to 20 November closing early due to lower catches and the early closure decision rule being triggered.

Species

The NPF targets eight commercial species of prawns including White Banana (*Penaeus merguensis*), Redleg Banana (*P. indicus*), Brown Tiger (*P. esculentus*), Grooved Tiger (*P. semisulcatus*) (Ma *et al.* 2011), Blue Endeavour (*Metapenaeus endeavouri*), Red Endeavour (*M. ensis*), King Prawns (*Melicertus* sp.). Leader Prawns or Black Tiger Prawns (*P. monodon*), Scampi, Squid, Scallops and Bugs are also taken.

Data Collection Program

In 2021, NPF operators completed the 'Northern and Torres Strait Prawn Fisheries Daily Fishing Log' (NP16) paper logbooks or electronic logs (e-logs) on a daily basis with 96% (50 operators) using e-logs in both fishing seasons. Both paper logbook and e-log data is included in this data summary.

Methods Used For Preparing Data Summary

The data used to prepare the Northern Prawn Fishery Data Summary is comprised of logbook information (NP16 and e-log) submitted by NPF skippers and the Seasonal Landing Returns (SLR-T01) completed by SFR holders.

The data used in this summary was extracted during March 2022 after making every effort to reconcile the data provided by skippers with that obtained from vessel owners. This was to ensure that the logbook data and the landings figures approximated each other as closely as possible.

On average, logbook catches of Banana Prawns were underestimated by 1.1% when compared to Seasonal Landing Returns (SLR) for the Banana Prawn season, with the greatest discrepancy being 21% (one vessel) for the Banana Prawn season. On average the Tiger Prawn catches were within 0.87% of catches recorded in the SLR for the Tiger Prawn season, with the greatest discrepancy being a 45% underestimate (one vessel) in the logbook data for the Tiger Prawn season.

The catch and effort estimates in Table 1 and Figure 2 were derived from a combination of logbook and SLR figures. The remainder of the tables and figures in the Summary represent logbook data only. This may cause discrepancies between totals. Minor discrepancies may also occur due to rounding of values. Catch per Unit Effort (CPUE) is calculated by catch per fishing day (as reported by a skipper in the logbook) and does not include searching.

Banana and Tiger Prawn Fishery Components

Fishery statistics have been split into banana and Tiger Prawn fishery components according to the composition of the catch in logbook records. If half or more of a vessel's daily catch was Banana Prawns or there was no prawn catch and the vessel was fishing, the vessel was defined as operating in the Banana Prawn fishery on that day; otherwise it was defined as operating in the Tiger Prawn fishery.

Banana Prawn fishery catch is the catch of all species (all Banana Prawn species + all Tiger Prawn species + all Endeavour Prawn species + King Prawns) when a vessel is defined as fishing in the Banana Prawn fishery. Likewise, Tiger Prawn fishery catch is the catch of all species when a vessel is defined as operating in the Tiger Prawn fishery.

Catch and Effort Data for the Northern Prawn Fishery

Catch

The total NPF prawn catch for 2021 was 5,146 t compared to 4,712 t in 2020 (Table 1). The total catch of Banana Prawns increased from 2,969 t in 2020 to 3,661t in 2021 (Figure 2, Table 1). The total catch of Tiger Prawns decreased from 1,368 t in 2020 to 1,026 t in 2021 (Figure 2, Table 1). Catches of Endeavour Prawns increased from 365 t in 2020 to 444 t in 2021 (Figure 2, Table 1). Catches of King Prawns increased from 10 t in 2020 to 16 t in 2021.

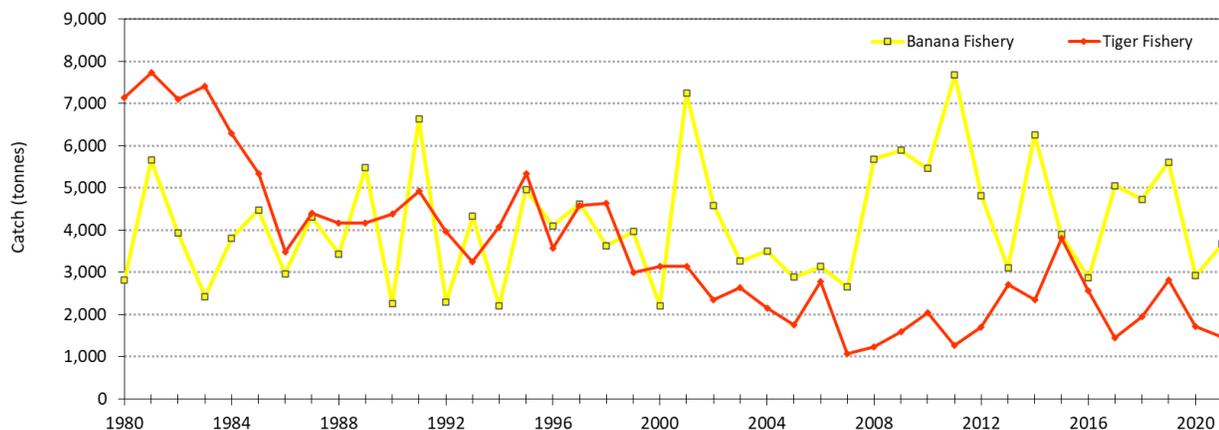


Figure 2: Catch in the banana and Tiger Prawn fisheries between 1980 and 2021.

Table 1: Annual reconciled landings*, effort and vessel number in the NPF from 1970 to 2021.

Year	Banana (t)	Tiger (t)	Endeavour (t)	King (t)	Total Catch (t)	No. of Vessels	Banana Fishery Effort (days)	Tiger Fishery Effort (days)
1970	1,702	1,138	417	0	3,257	191	2,041	5,818
1971	7,364	1,183	400	0	8,948	169	5,571	6,057
1972	4,801	1,380	472	0	6,654	180	4,327	7,380
1973	4,226	1,672	594	0	6,492	217	4,917	7,362
1974	12,711	666	434	4	13,815	196	7,537	3,439
1975	3,160	973	444	6	4,583	107	5,361	6,010
1976	4,519	1,118	675	5	6,319	145	7,238	6,660
1977	6,345	2,900	1,125	28	10,398	193	7,257	11,673
1978	2,535	3,599	1,240	82	7,456	237	5,569	18,749
1979	4,775	4,218	1,213	94	10,300	240	7,328	17,791
1970-'79 average	5,214	1,885	701	22	7,822	188	5,715	9,094
1980	2,835	5,124	1,891	111	9,964	269	8,391	30,594
1981	5,672	5,559	2,073	95	13,400	286	11,524	31,895
1982	3,875	4,891	2,124	144	11,036	271	8,751	32,956
1983	2,382	5,751	1,488	207	9,831	254	6,856	34,551
1984	3,770	4,525	1,714	83	10,095	252	5,932	32,447
1985	4,469	3,592	1,671	77	9,811	231	6,946	26,516
1986	2,935	2,682	748	85	6,451	238	7,132	26,669
1987	4,257	3,617	772	65	8,713	234	7,954	22,478
1988	3,381	3,458	669	81	7,591	222	6,655	26,264
1989	5,466	3,173	909	85	9,636	223	7,439	27,036
1980-'89 average	3,904	4,237	1,406	103	9,653	248	7,758	29,141
1990	2,221	3,550	735	128	6,636	200	5,044	25,525
1991	6,605	3,987	879	81	11,554	172	6,515	20,744
1992	2,254	3,084	880	47	6,267	170	5,132	21,789
1993	4,292	2,515	733	35	7,572	127	6,299	16,019
1994	2,157	3,162	872	72	6,263	128	4,955	18,592
1995	4,961	4,125	1,150	58	10,294	125	4,880	16,834
1996	4,078	2,311	1,235	41	7,665	127	5,525	16,635
1997	4,587	2,694	1,870	51	9,202	129	5,476	15,385
1998	3,569	3,218	1,322	20	8,123	130	5,301	18,003
1999	3,904	2,136	885	21	6,947	129	5,639	12,675
1990-'99 average	3,863	3,078	1,056	55	8,052	144	5,477	18,220
2000	2,195	2,190	958	13	5,335	121	3,697	12,736
2001	7,245	1,983	1,157	4	10,389	118	6,247	10,440
2002	4,577	1,943	411	5	6,936	114	4,148	8,718

Year	Banana (t)	Tiger (t)	Endeavour (t)	King (t)	Total Catch (t)	No. of Vessels	Banana Fishery Effort (days)	Tiger Fishery Effort (days)
2003	3,238	2,222	435	4	5,898	97	4,114	8,503
2004	3,520	1,767	396	3	5,686	96	3,985	7,793
2005	2,901	1,744	281	20	4,946	89	3,364	7,967
2006	3,117	1,802	363	28	5,310	77	3,283	6,983
2007	2,902	1,192	196	20	4,310	51	2,696	4,829
2008	5,816	1,021	213	7	7,058	53	3,347	4,556
2009	5,881	1,250	346	7	7,483	55	3,095	4,889
2000-'09 average	4,139	1,711	476	11	6,335	87	3,798	7,741
2010	5,642	1,628	429	12	7,711	52	3,146	4,898
2011	7,141	749	437	8	8,335	55	3,440	4,143
2012	4,901	1,203	487	11	6,601	52	2,526	5,521
2013	3,050	2,215	508	29	5,802	52	2,005	5,908
2014	6,330	1,708	675	12	8,725	52	3,100	5,045
2015	3,852	3,186	554	38	7,630	52	2,197	6,036
2016	2,904	2,158	374	32	5,468	52	1,980	5,900
2017	5,069	1,087	382	7	6,545	52	2,702	4,716
2018	4,786	1,473	492	12	6,763	52	2,555	5,433
2019	5,741	2,088	667	53	8,549	52	2,343	5,750
2010-'19 average	4,942	1,749	500	21	7,213	52	2,599	5,335
2020	2,969	1,368	365	10	4,712	52	1,886	5,344
2021	3,661	1,026	444	16	5,146	52	2,454	4,654

* Note: Catch data is extracted from Seasonal Landing Returns (SLRs).

Catch by week

Figures 3 (a), (b) and (c) show the catch of banana and Tiger Prawns by week during 2021, 2020 and 2019. Highest Banana Prawn catches were recorded in the first week of 2021 with 1,313 t. Banana Prawn catches in the first fishing season of 2021 ('Banana Prawn season') experienced a steady decline over the 11 weeks, with the exception of a slight increase in week 3. Catches of Tiger Prawns in the second fishing season ('Tiger Prawn season') started low, with Banana prawns making up the majority of catch during the first 5 weeks. Tiger prawn catch in the second season was strongest during weeks 9, 10 and 11 where 77t, 78t, and 80t were caught.

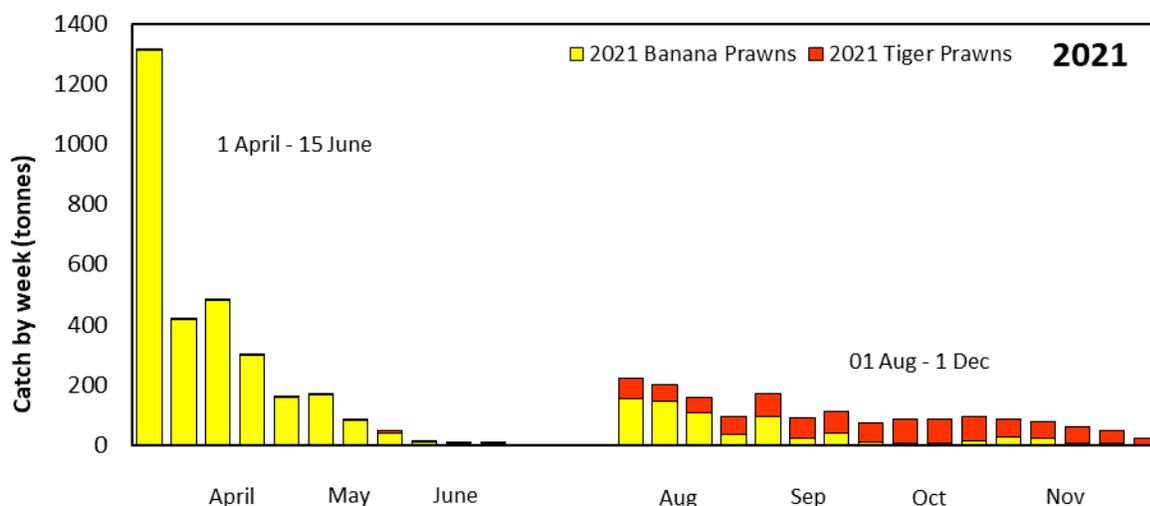


Figure 3a: Weekly catches of banana and Tiger Prawns (t) in the NPF in 2021.

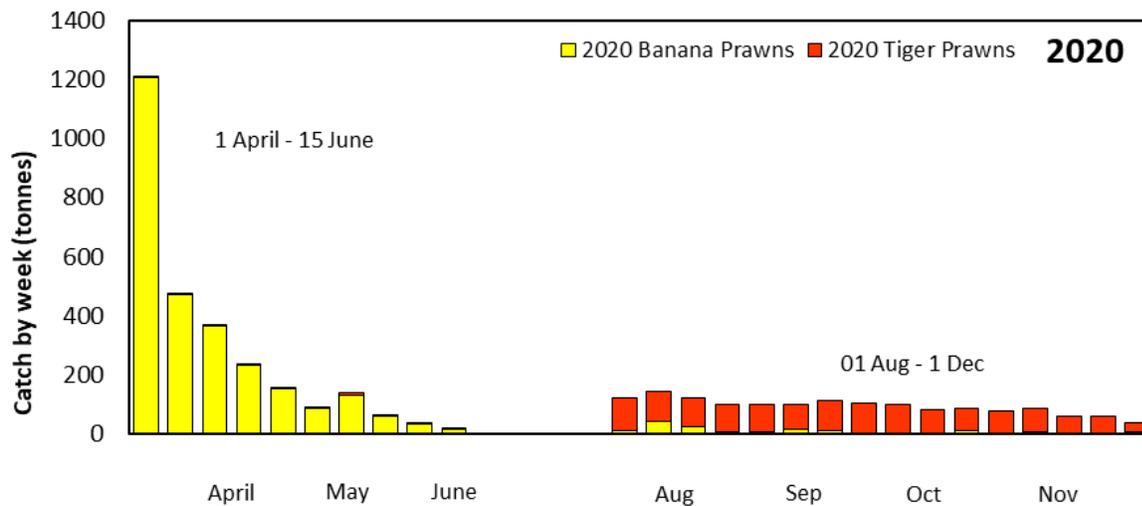


Figure 3b: Weekly catches of banana and Tiger Prawns (t) in the NPF in 2020.

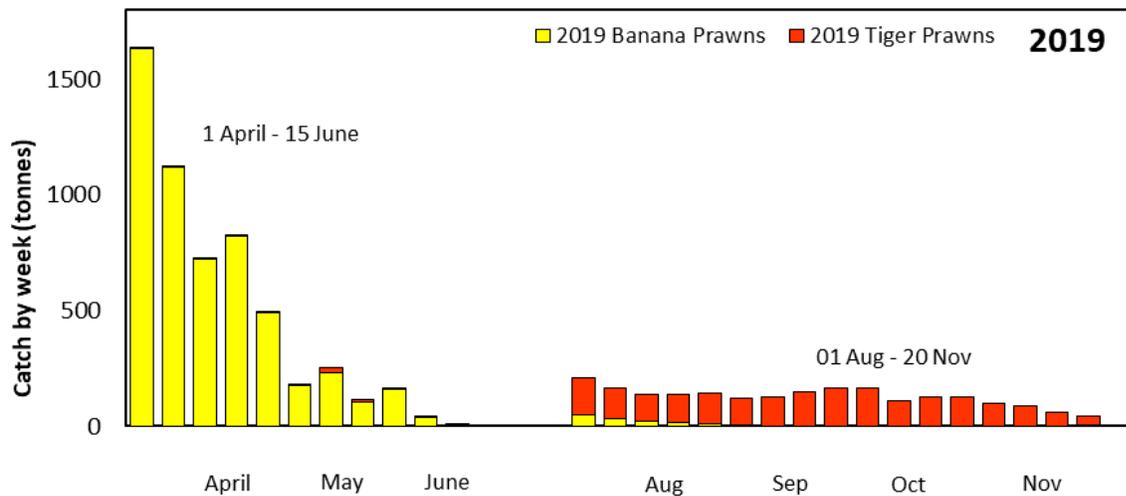


Figure 3c: Weekly catches of banana and Tiger Prawns (t) in the NPF in 2019.

Effort

Nominal and effective effort

Nominal effort is the number of days recorded by skippers in their logbooks. Effective effort applies only to the Tiger Prawn fishery and is based on the assumption that there has been an ‘effort creep’ (an increase in effectiveness of the gear utilised and fishing operations). A number of different approaches are being used by the Northern Prawn Fishery Resource Assessment Group (NPRAG) to account for effort creep, including using an average 5% increase per year on nominal effort to determine effective effort, as well as variable effort creep. As in previous years, for the purpose of preparing this report we have used 5%. Nominal effort in the Banana Prawn fishery increased by 568 days (30%) in 2021 compared to 2020 (Figure 4). In the Tiger Prawn fishery, nominal effort decreased by 690 days (13%) in 2021 compared to 2020. Effective effort in the Tiger Prawn fishery decreased by 1707 days (9%) compared to 2020 (Figure 4).

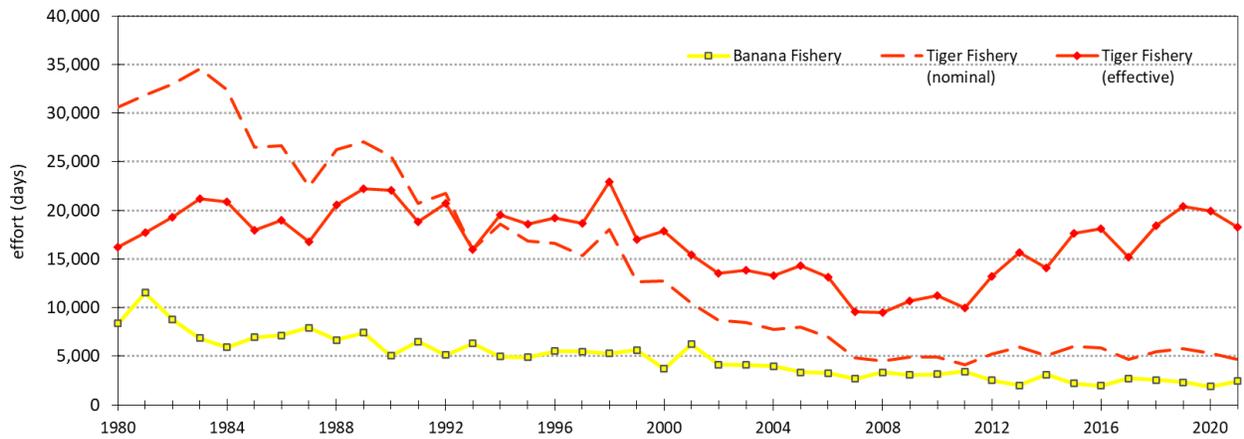


Figure 4: Effort in the banana and Tiger Prawn fisheries in the NPF between 1980 and 2021.

Catch Rate

It is worth noting that there have been a number of changes to headrope length implemented in the NPF over time. A reduction in headrope length of 25% came into effect at the start of the first fishing season in 2005. In 2008, an 8% increase in headrope length was implemented in the Tiger Prawn season. As a result “catch rate”, measured in terms of CPUE (tonnes per fishing day), may be affected. It is also important to note that trends in CPUE do not necessarily reflect trends in stock abundance.

The Banana Prawn fishery CPUE decreased from a daily rate of 1.546 t in 2020 to 1.497 t in 2021 (Figure 5a). The nominal CPUE for the Tiger Prawn fishery decreased from 0.322 t in 2020 to 0.313 t in 2021 and the effective CPUE also decreased from 0.086 t in 2020 to 0.079 t in 2021 (Figure 5b).

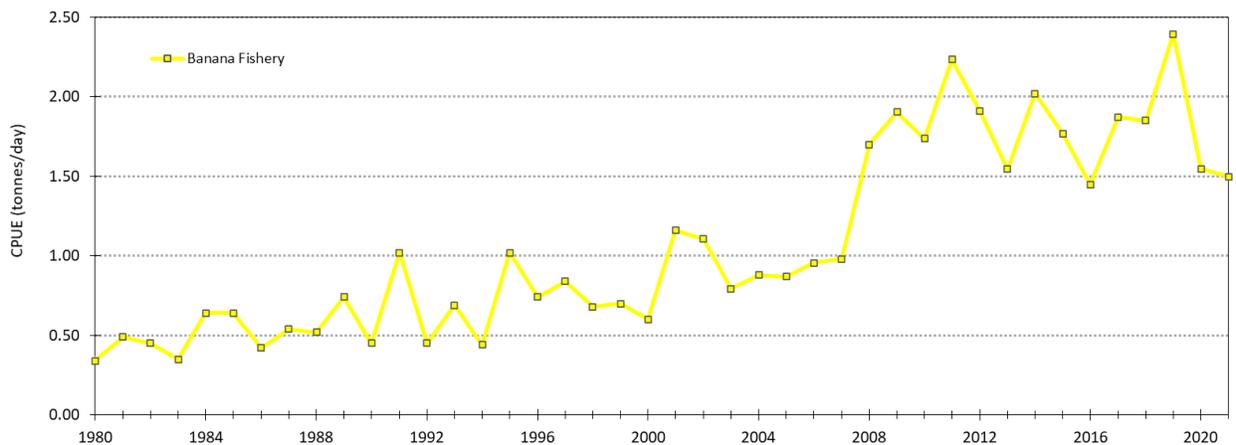


Figure 5a: Catch rate in the Banana Prawn fishery between 1980 and 2021.

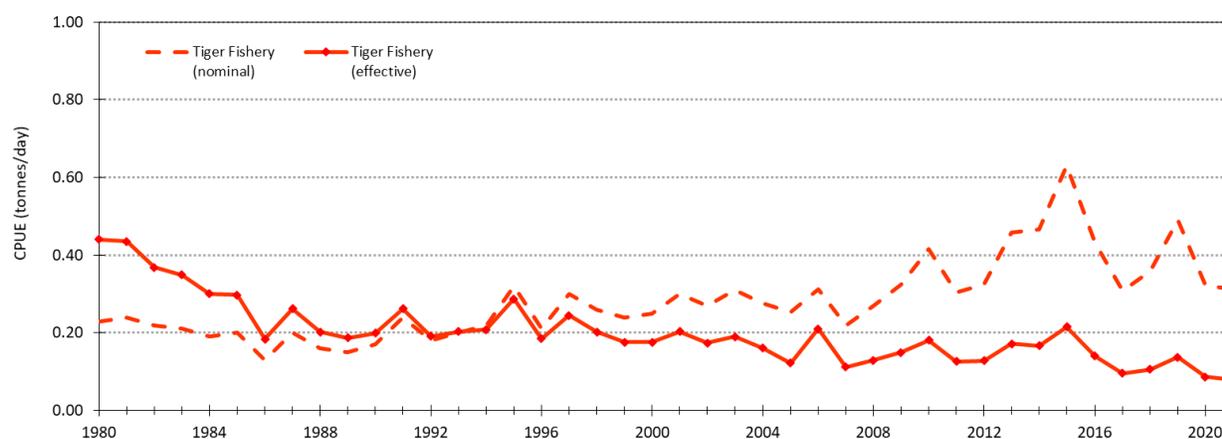


Figure 5b: Nominal and effective catch rate in the Tiger Prawn fishery between 1980 and 2021.

Catch, effort and catch rate by month

The highest total prawn catches during the 2021 Banana Prawn season were obtained during April, while the highest total prawn catches during the 2021 Tiger Prawn season were obtained during August (Table 2).

Table 3 shows effort by month in the banana and Tiger Prawn seasons for 2021. Effort in the Banana Prawn season (1 April to 15 June) was highest in April and lowest in June. Tiger Prawn season (1 August to 20 November) effort was highest in October and lowest in November (Table 3).

Monthly CPUE (tonnes/day) for Banana Prawns was highest in April during the Banana Prawn season (Table 4). Monthly CPUE for both nominal and effective effort for Tiger Prawns was highest in April although this is an outlier not representative of the whole fleet as 6t was caught in 10 days.

Table 2: Monthly catch by species in 2021.

Catch (t)	April	May	June	Aug	Sep	Oct	Nov	Total
Banana	2,538	415	10	482	118	67	8	3,637
Tiger	6	16	5	268	306	308	113	1,023
Endeavour	5	6	2	166	73	119	76	447
King	0	1	0	4	3	1	1	9
Total	2,548	437	17	920	500	494	199	5,116

Table 3: Monthly effort in the banana and Tiger Prawn seasons in 2021.

Effort (days)	April	May	June	Aug	Sep	Oct	Nov	Total
Banana Fishery	1,163	684	18	353	144	78	7	2,447
Tiger Fishery (nominal)	10	95	28	1,062	1,276	1,422	748	4,641
Tiger Fishery (effective)	39	372	110	4,163	5,002	5,574	2,932	18,193
Total	1,212	1,151	156	5,578	6,422	7,074	3,687	25,281

Table 4: Monthly catch rate for all species in the banana and Tiger Prawn seasons in 2021.

CPUE (t/day)	Apr	May	Jun	Aug	Sep	Oct	Nov	Total
Banana Fishery	2.19	0.62	0.53	1.39	0.84	0.90	0.51	6.98
Tiger Fishery (nominal)	0.69	0.16	0.27	0.40	0.30	0.30	0.26	2.38
Tiger Fishery (effective)	0.18	0.04	0.07	0.10	0.08	0.08	0.07	0.61

Vessel and gear information

Vessel length

A maximum of 52 vessels can fish at any one time in the NPF. A total of 52 different vessels fished in 2021. In 2021, as in previous years, the most common NPF vessel length was between 22.0-22.9 m (Figure 6). One new vessel entered the fishery which was over 27m in length which replaced a 23m vessel.

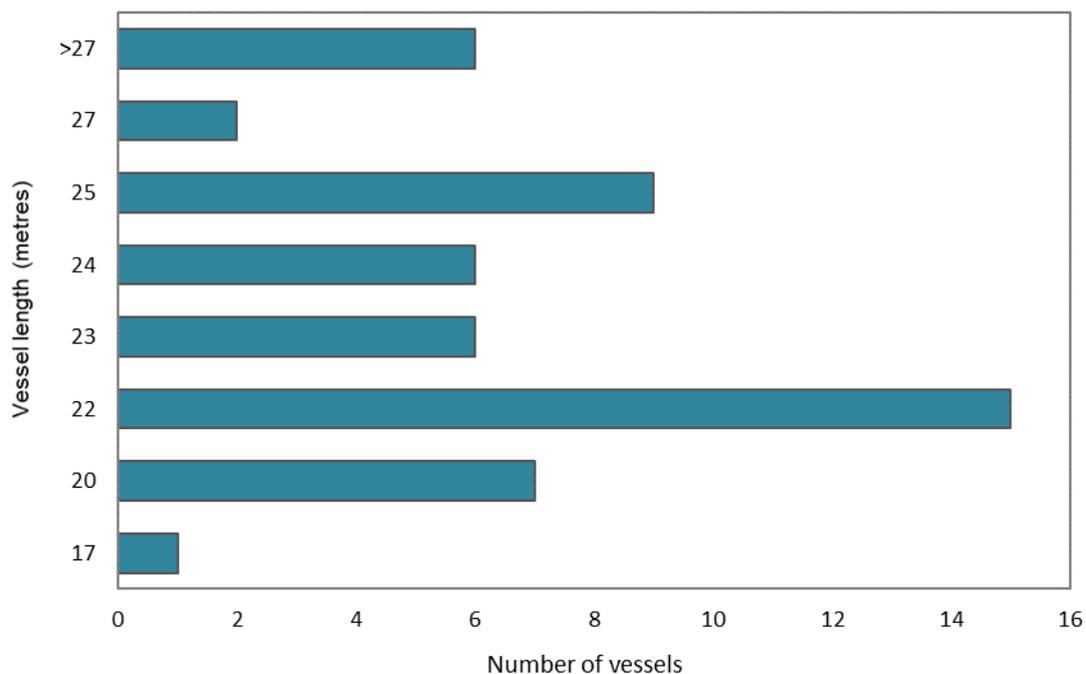


Figure 6: Frequency of vessel lengths in the NPF fleet in 2021.

Distribution of catch by vessel

In the 2021 Banana Prawn season, 24 vessels (46%) caught over 60 t (up from 18 vessels in 2020). Fifteen vessels (29%) caught between 40 and 59 t, 9 vessels (17%) caught between 30-39 t and 4 caught between 20-29 t (8%) (Figure 7a).

In the 2021 Tiger Prawn season, the number of vessels with a total catch over 60 t increased from 2 vessels (4%) to 9 vessels (17%). Thirteen vessels (25%) caught between 40 and 59 t and 25 vessels (48%) caught from 20 to 39 t (Figure 7b). Five vessels (10%) caught under 20t for the 2021 season.

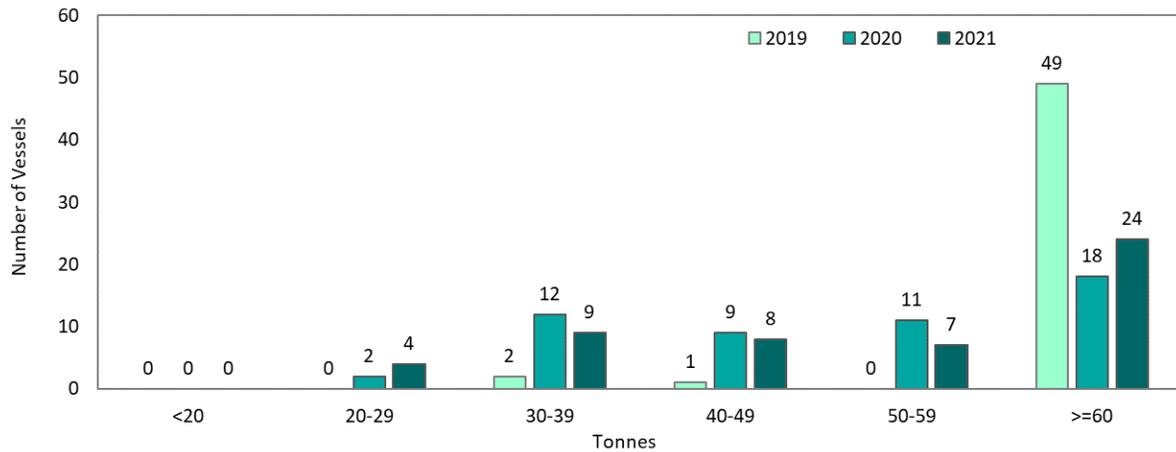


Figure 7a: Distribution of total catch in the Banana Prawn season, 2019 to 2021.

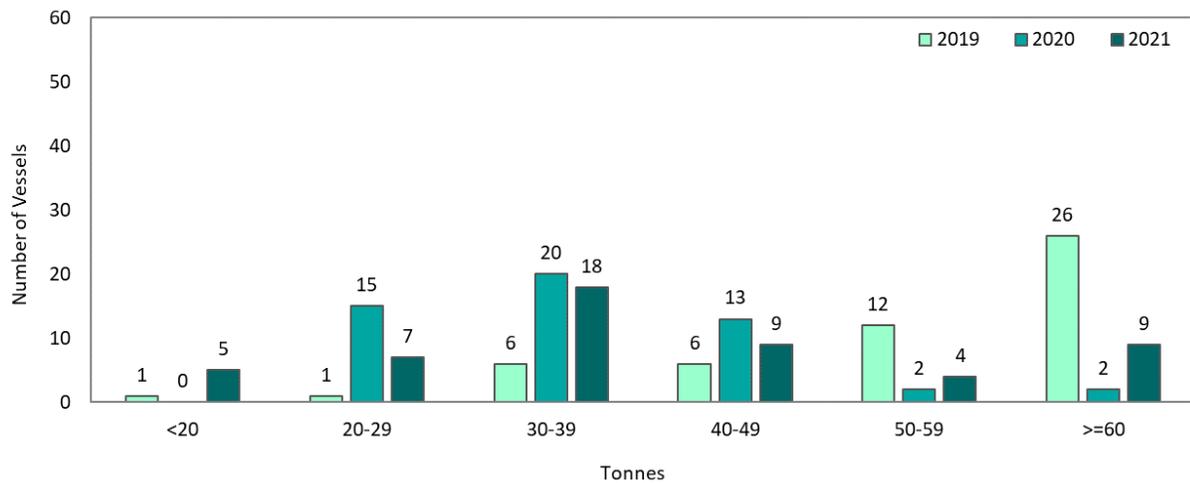


Figure 7b: Distribution of total catch in the Tiger Prawn season, 2019 to 2021.

Average catch per vessel

Average total prawn catch per vessel increased from 89 t per vessel in 2020 to 99 t per vessel in 2021 (Figure 8a). The average catch per vessel for Banana Prawns increased from 56 t per vessel in 2020 to 70 t per vessel in 2021 (Figure 8b). Average catch of Tiger Prawns per vessel decreased from 26 t per vessel in 2020 to 20 t per vessel in 2021 (Figure 8c).

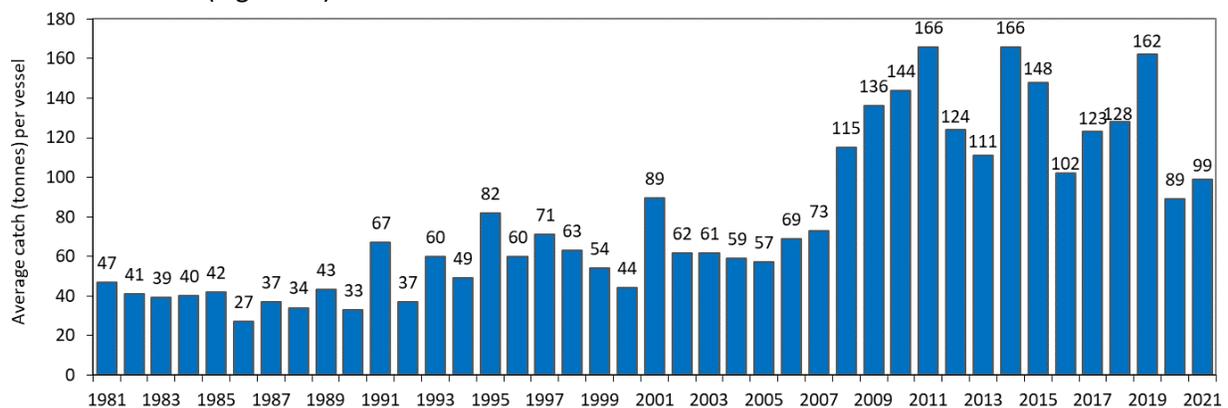


Figure 8a: Average total catch of all prawns per vessel in the NPF from 1981 to 2021.

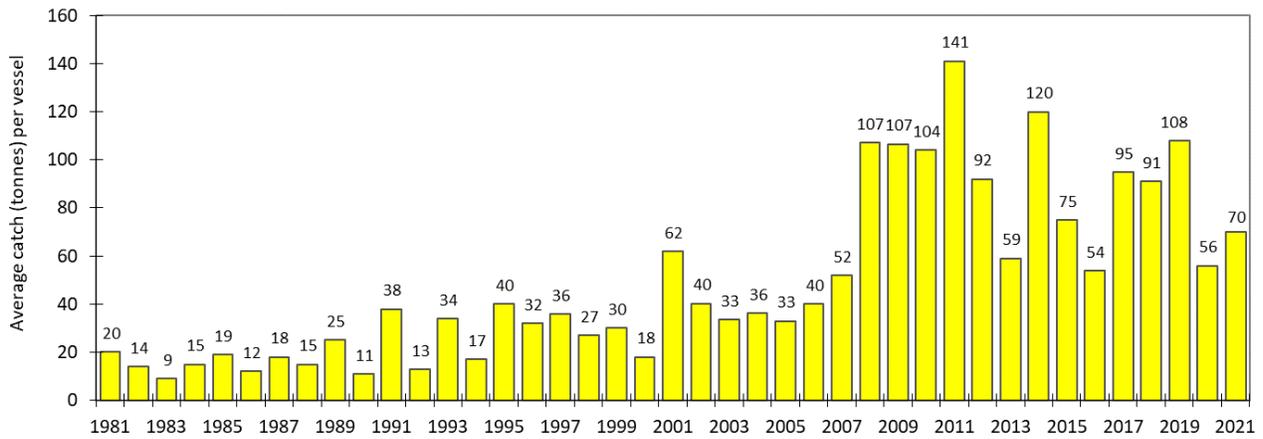


Figure 8b: Average total catch of Banana Prawns per vessel in the NPF from 1981 to 2021.

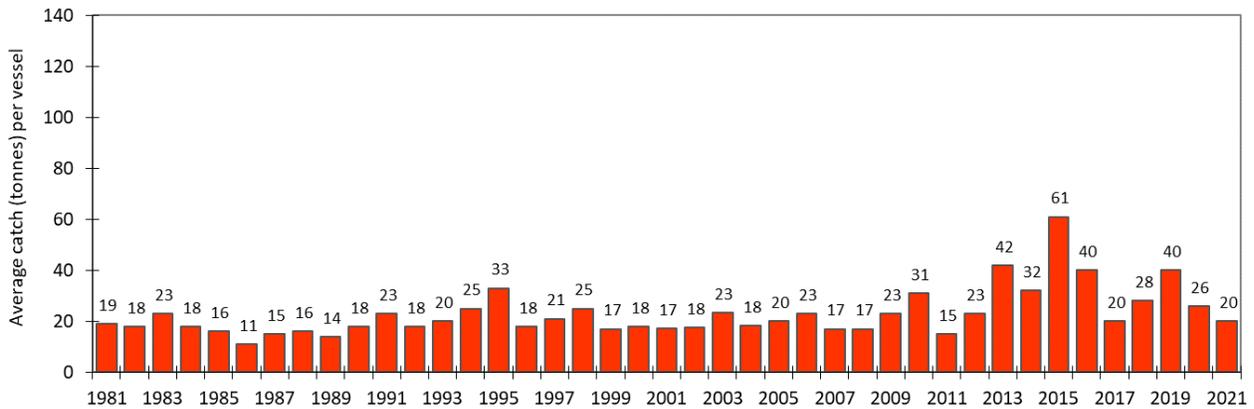


Figure 8c: Average total catch of Tiger Prawns per vessel in the NPF from 1981 to 2021.

Fishing Gear

Total Tiger Prawn headrope decreased slightly from 1536.61 fathoms (2.81 km) in 2020 to 1536.47 (2.809 km) (Figure 9). The mean headrope length in 2021 was 29.55 fathoms (54.04 m), no change from 2020. Again, the most common headrope length in 2021 was 31 fathoms (56.7m) (Figure 10).

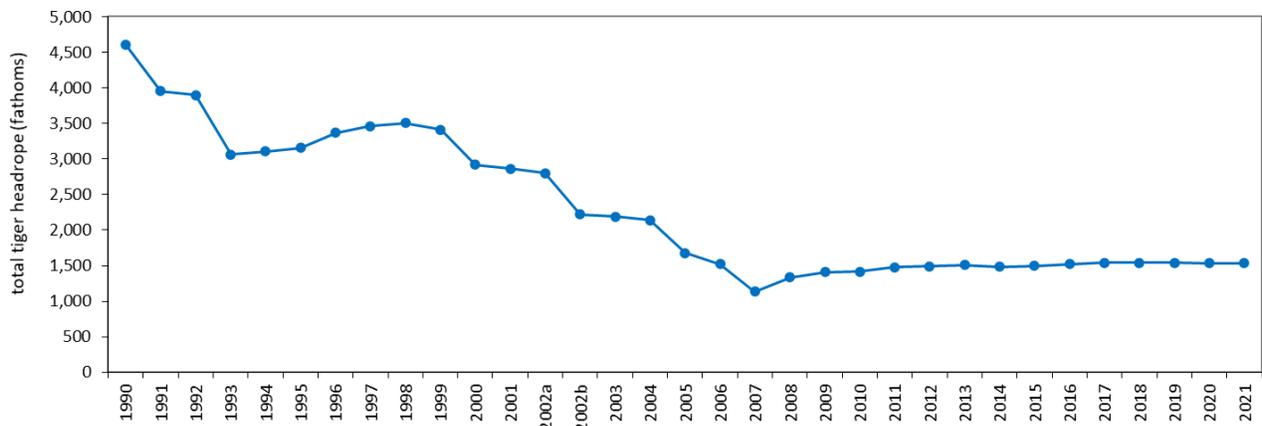


Figure 9: Total Tiger Prawn season headrope length in the NPF from 1990 to 2021.

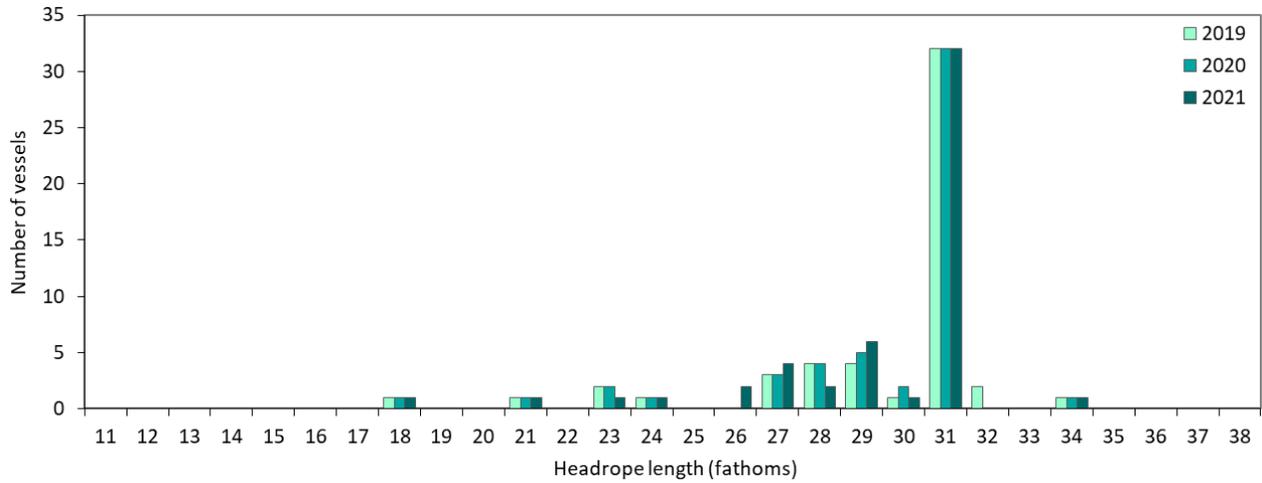


Figure 10: Frequency of headrope length for the Tiger Prawn season in the NPF from 2019 to 2021.

Catch and effort by statistical area in the Northern Prawn Fishery

All areas

Catch and effort has been partitioned into the 15 statistical areas illustrated below (Figure 11) and is detailed on the following pages for the years 2006 – 2021 (for the entire historical catch and effort of each area see Appendix 1). The highest Banana Prawn catches were recorded in the Bold area with 760 t (Figure 12). The highest catches of Tiger Prawns were recorded in the Limmen Bight area with 420 t caught (Figure 13).

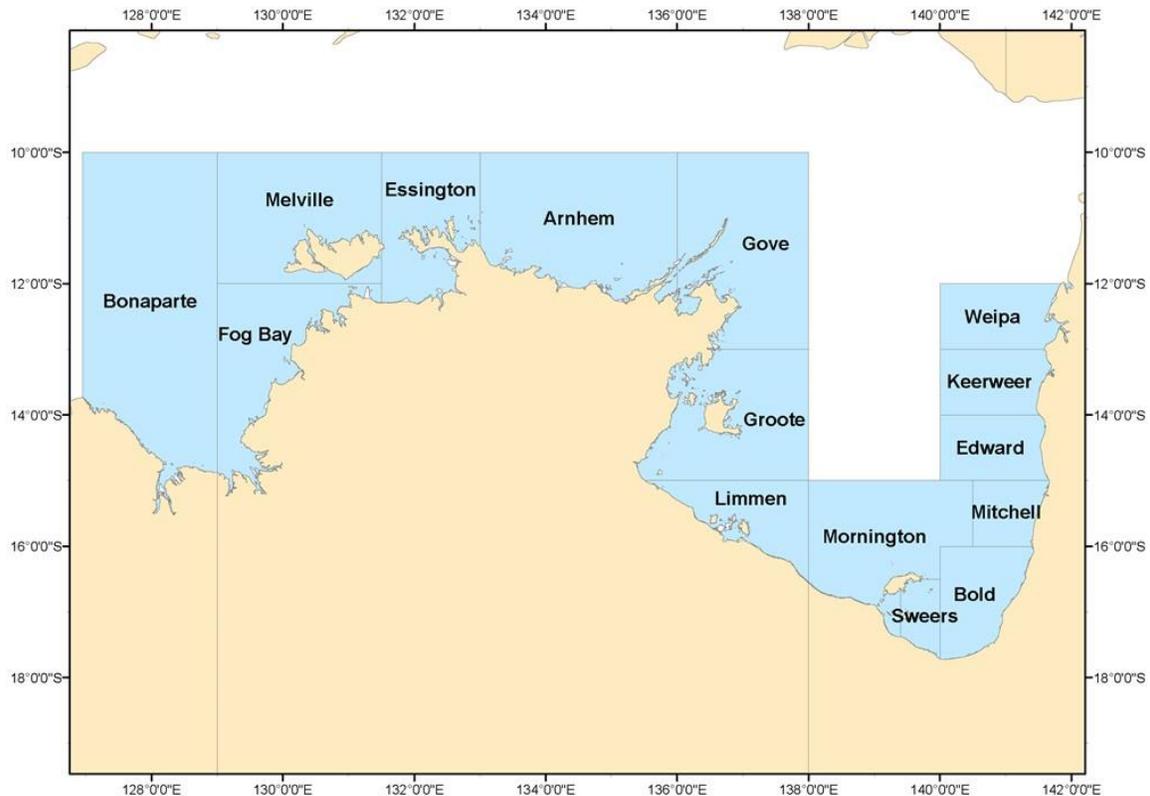


Figure 11: Statistical areas of the NPF.

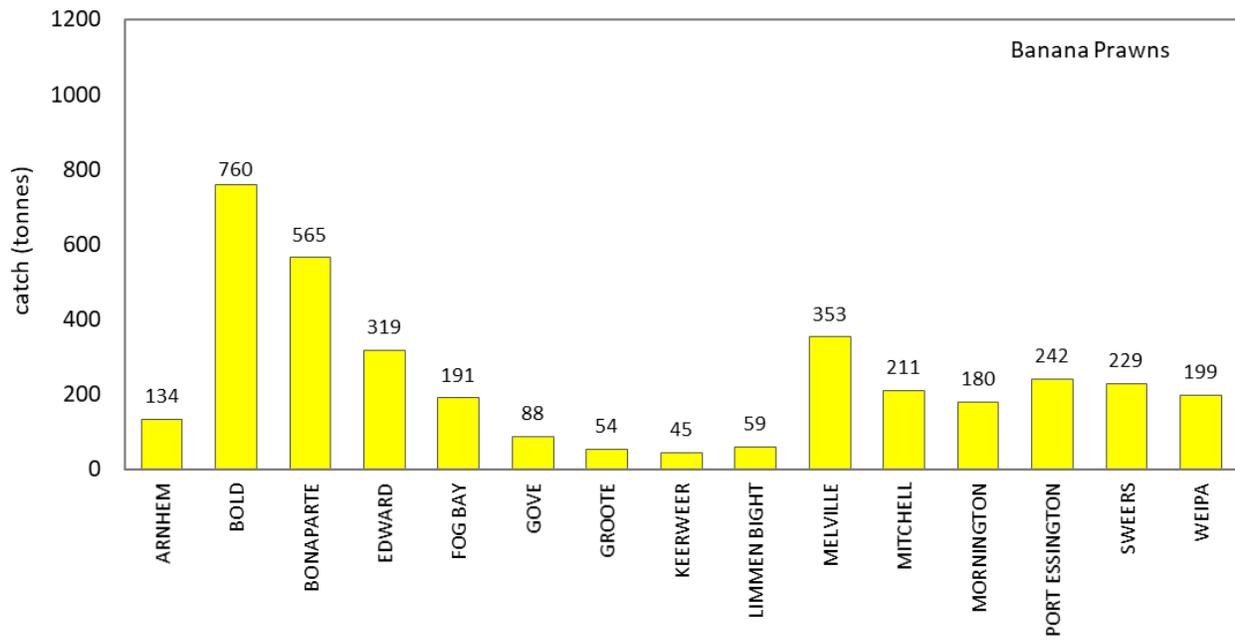


Figure 12: Total catch of Banana Prawns for each statistical area of the NPF in 2021

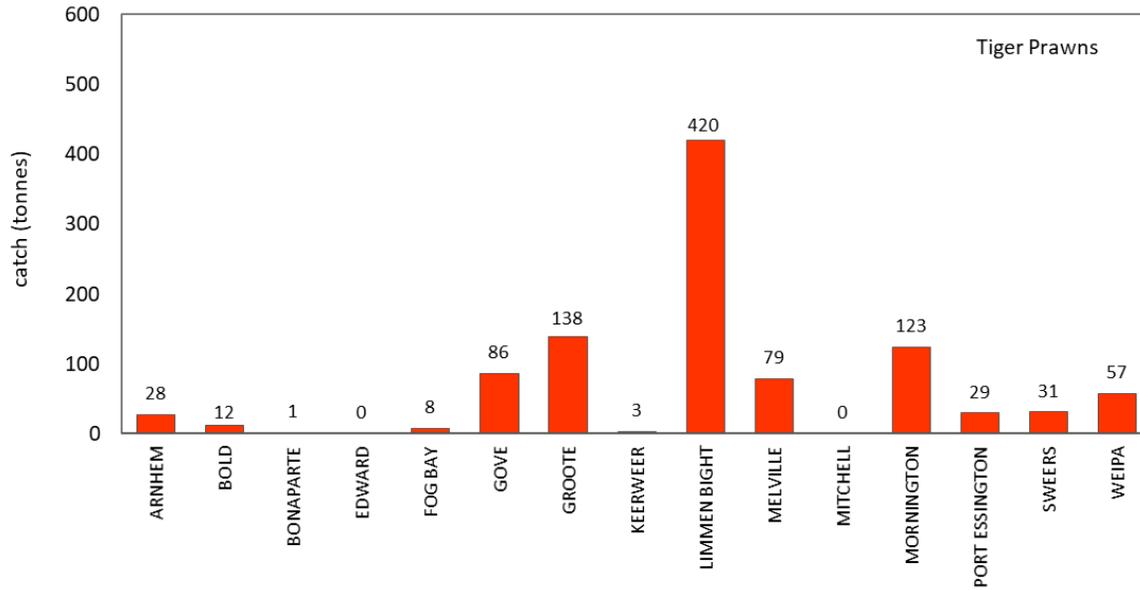


Figure 13: Total catch of Tiger Prawns for each statistical area of the NPF in 2021.

Weipa

Banana Prawn catches in Weipa increased from 170 t in 2020 to 199 t in 2021. Tiger Prawn catches also increased from 49 t in 2020 to 57 t in 2021 and catches of Endeavour Prawns increased from 21 t in 2020 to 37 t in 2021 (Figure 14). Banana Prawns again dominated the catches in Weipa during 2021, comprising 68%, with Tiger Prawns making up 20% and endeavor prawns 13% (Figure 15).

Effort in the Banana Prawn fishery increased from 89 days in 2020 to 123 days in 2021 (Figure 16a). CPUE of Banana Prawns decreased from 1.91 t per day in 2020 to 1.62 t per day in 2021 (Figure 16b). Effort in the Tiger Prawn fishery increased from 280 days in 2020 to 379 days in 2021 (Figure 16a). Nominal CPUE of Tiger Prawns remained at 0.25 t per day, whilst effective CPUE declined slightly from 0.7 t per day in 2020 to 0.6 t per day in 2021 (Figure 16c).

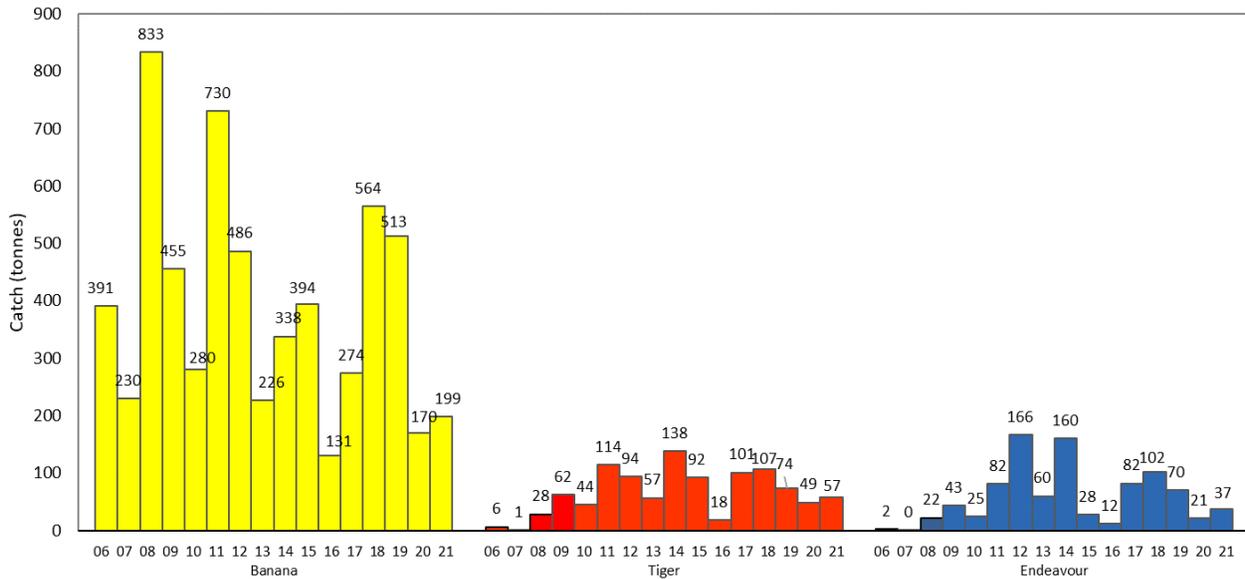


Figure 14: Catch by species in the Weipa area - 2006 to 2021.

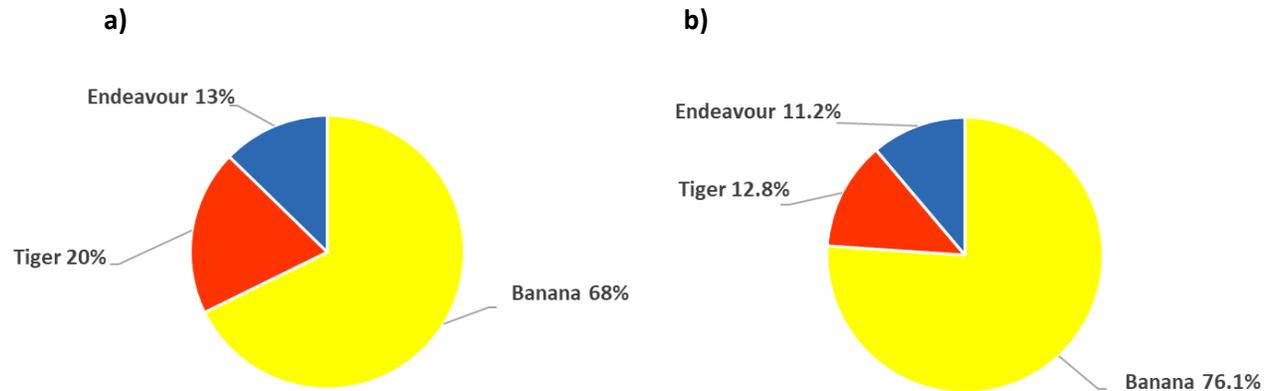


Figure 15: (a) Percentage catch of prawn species in the Weipa area during 2021, and (b) percentage catch of prawn species in the Weipa area – 2006 to 2021.

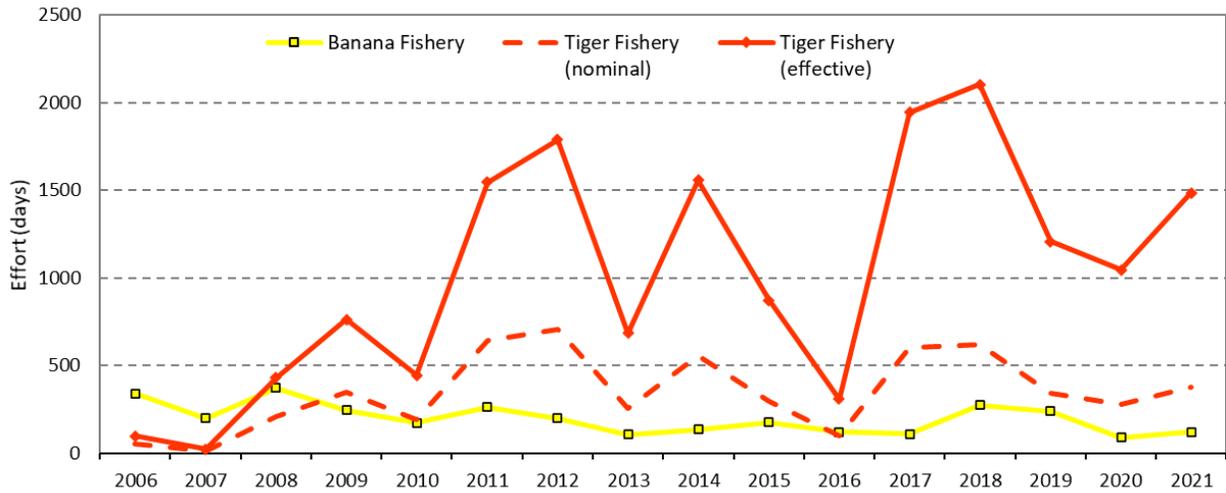


Figure 16a: Effort for the banana and Tiger Prawn fisheries in the Weipa area - 2006 to 2021.

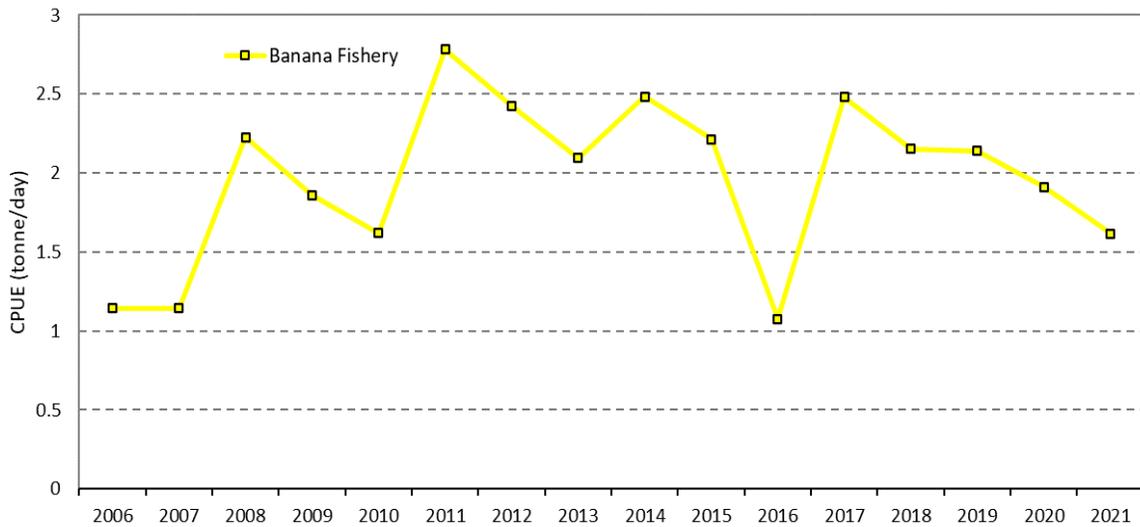


Figure 16b: Catch rate for the Banana Prawn fishery in the Weipa area - 2006 to 2021.

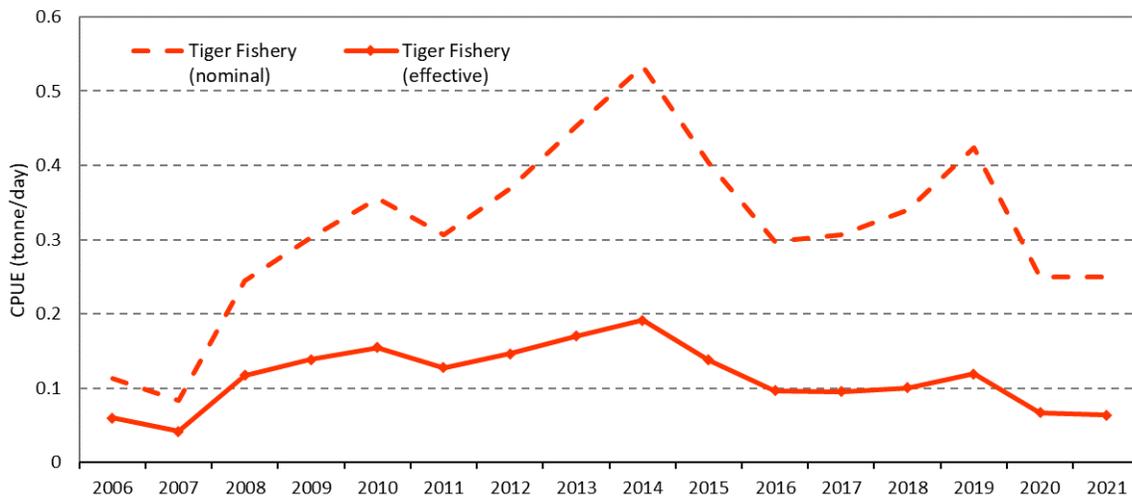


Figure 16c: Nominal and effective catch rate for the Tiger Prawn fishery in the Weipa area - 2006 to 2021.

Keerweer

Banana Prawn catches in the Keerweer region decreased from 87 t in 2020 to 45 t in 2021 (Figure 17). Tiger Prawn catches were less than 3 t and no Endeavour Prawns were caught in the region in 2021 (Figure 17). Banana Prawns comprised 94.48% of the catch in 2021 (Figure 18).

Effort in the Banana Prawn fishery decreased from 66 days in 2020 to 37 days in 2021 (Figure 19a). CPUE for Banana Prawns decreased from 1.32 t per day in 2020 to 1.23 t per day in 2021 (Figure 19b). Effort in the Tiger Prawn fishery increased from 1 day in 2020 to 2 days in 2021 (Figure 19a). Nominal and effective CPUE of Tiger Prawns increased from 0.03 and 0.01 t per day in 2020 to 1.33 and 0.34 t per day in 2021 (Figure 19c).

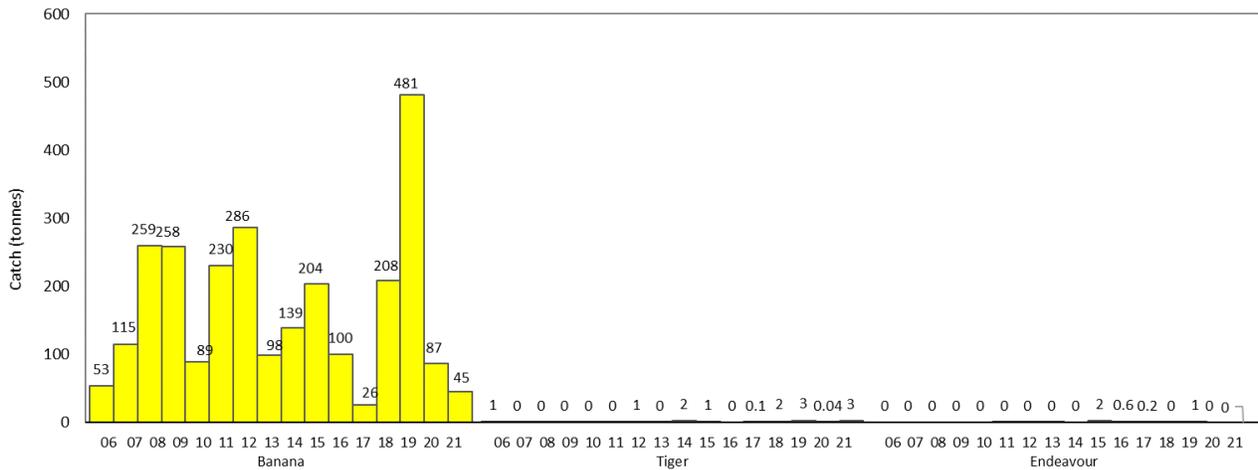


Figure 17: Catch by species in the Keerweer area - 2006 to 2021.

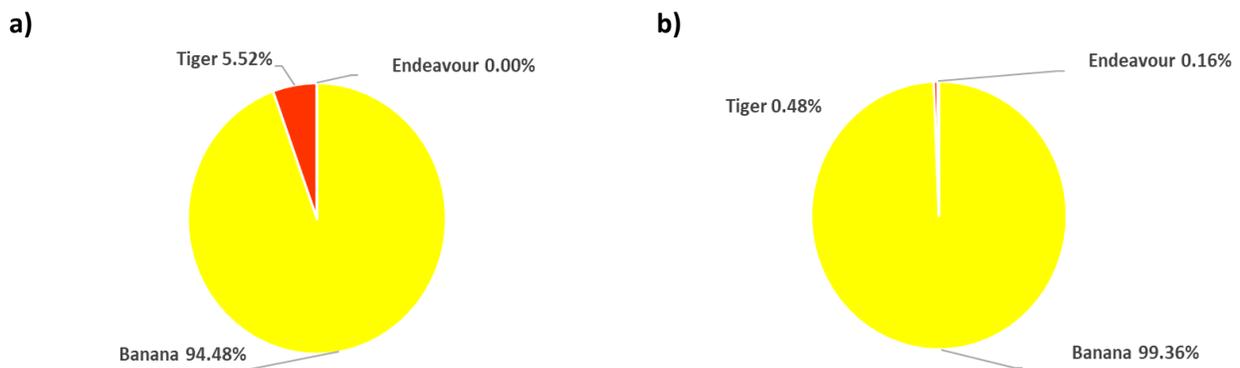


Figure 18: (a) Percentage catch of prawn species in the Keerweer area during 2021 and (b) percentage catch of prawn species in the Keerweer area - 2006 to 2021.

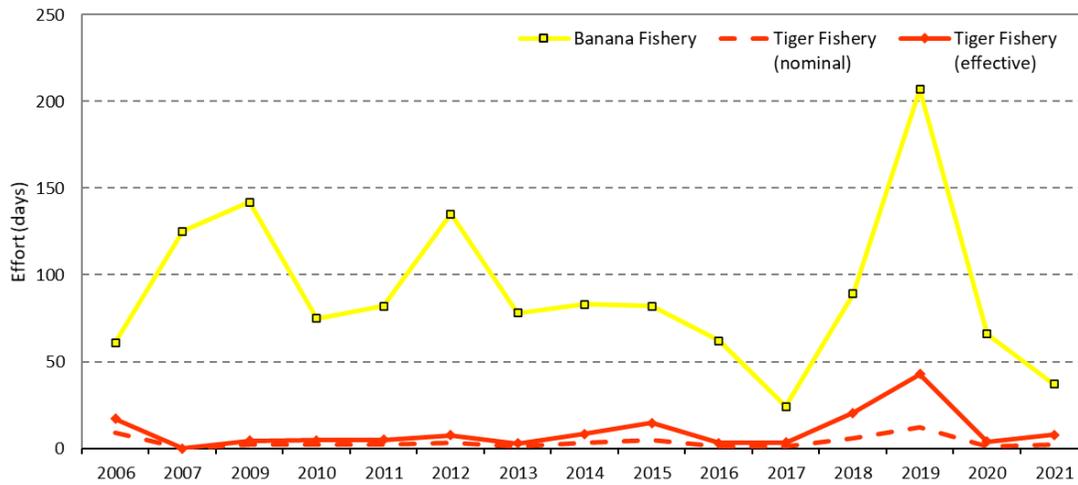


Figure 19a: Effort for the banana and Tiger Prawn fisheries in the Keerweer area – 2006 to 2021.

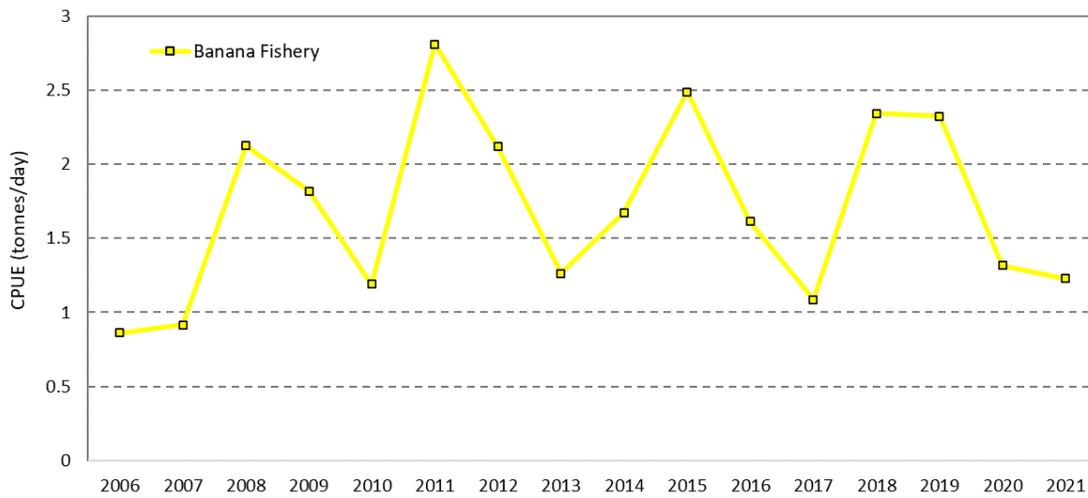


Figure 19b: Catch rate for the Banana Prawn fishery in the Keerweer area - 2006 to 2021.

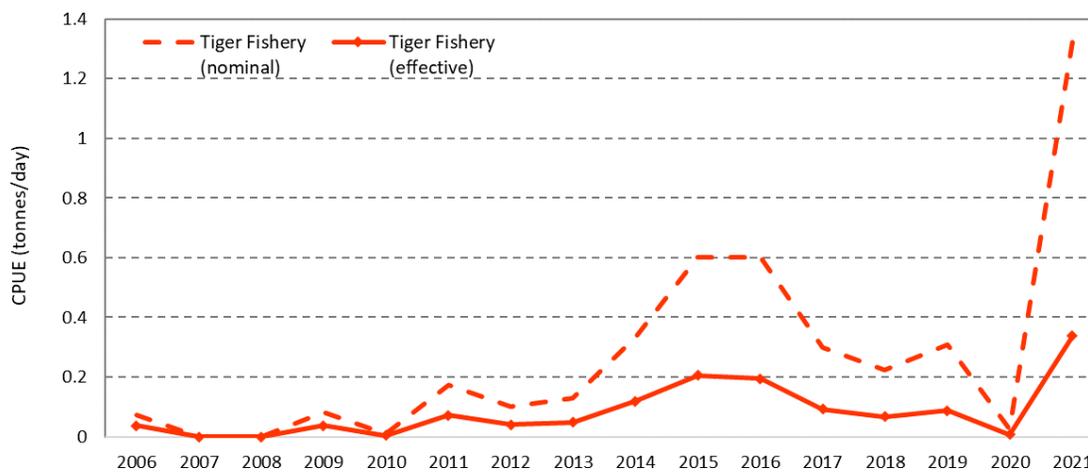


Figure 19c: Nominal and effective catch rate for the Tiger Prawn fishery in the Keerweer area - 2006 to 2021.

Edward

Banana Prawn catches in the Edward area increased from 272 t in 2020 to 318.6t in 2021 (Figure 20). Catches of tiger and Endeavour Prawns were again 1 t or less in 2021. Banana Prawns comprised 99.9% of the catch in 2021 (Figure 21).

Effort in the Banana Prawn fishery decreased from 149 days in 2020 to 139 days in 2021 (Figure 22a). CPUE of Banana Prawns increased from 1.83 t per day in 2020 to 2.29 t per day in 2021 (Figure 22b). Nominal and effective CPUE of Tiger Prawns were both zero for 2021 (Figures 22a & c).

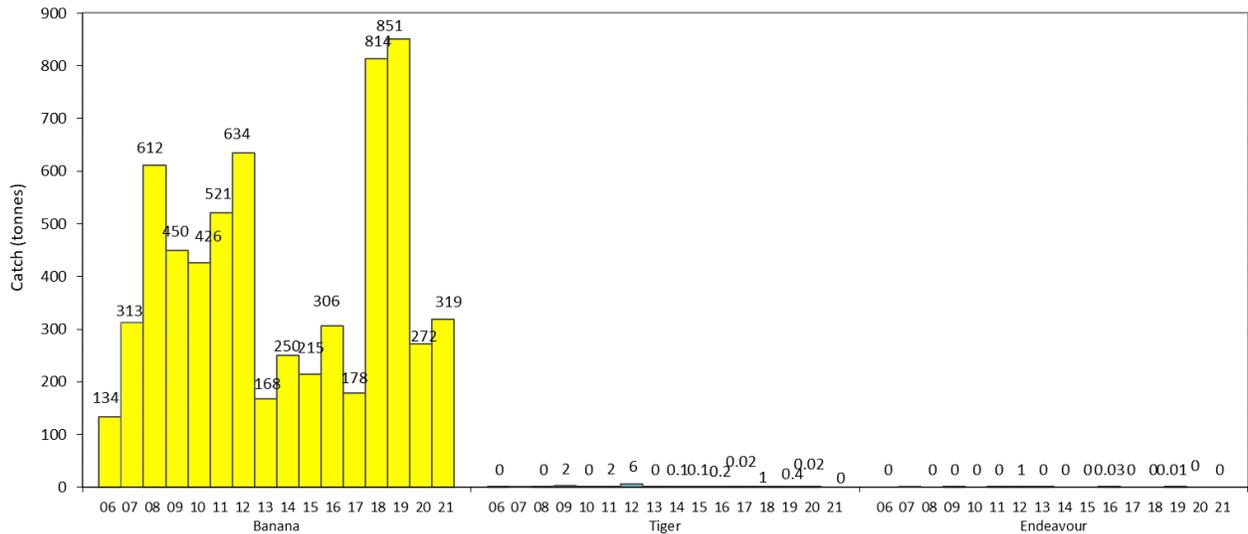


Figure 20: Catch by species in the Edward area - 2006 to 2021.

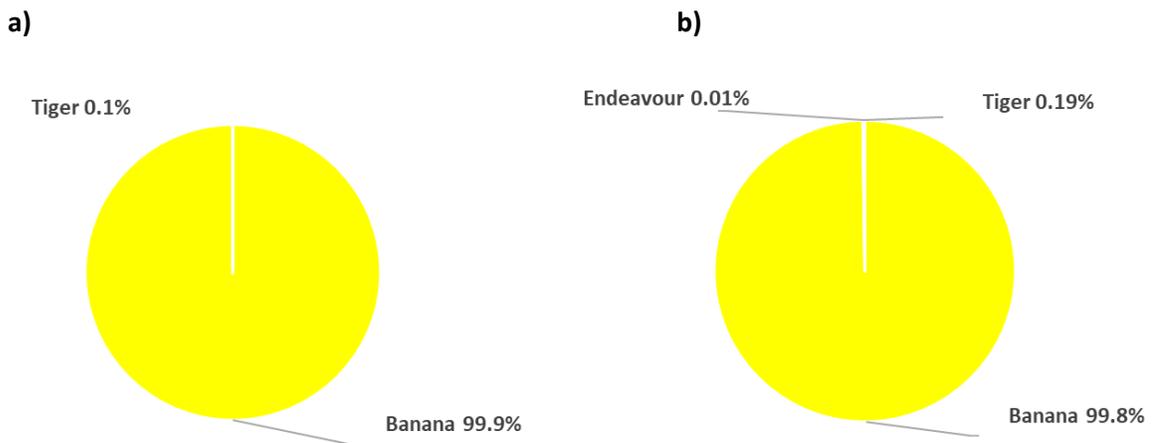


Figure 21: (a) Percentage catch of prawn species in the Edward area during 2021 and (b) percentage catch of prawn species in the Edward area - 2006 to 2021.

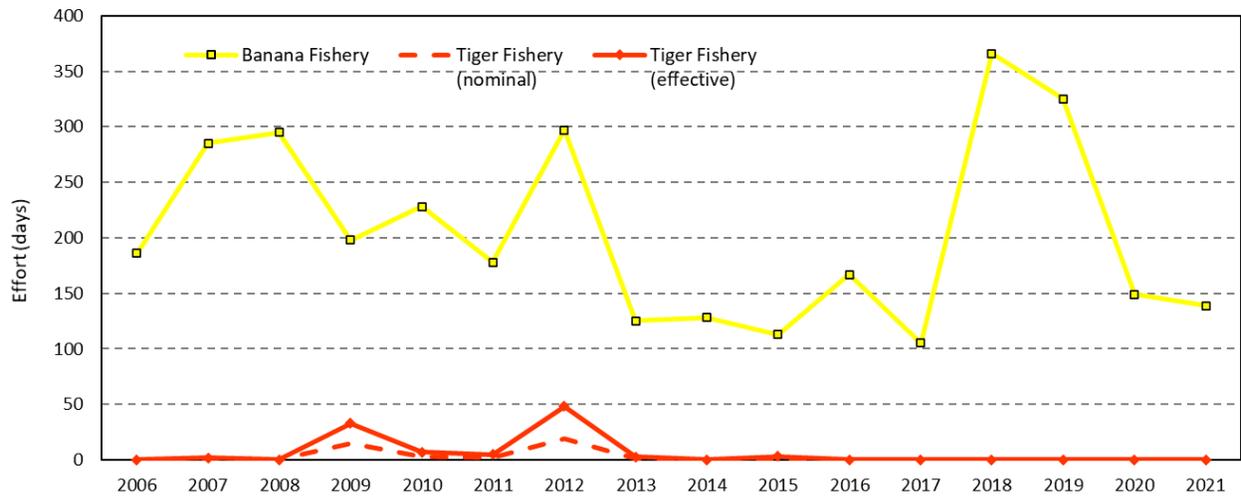


Figure 22a: Effort for the banana and Tiger Prawn fisheries in the Edward area - 2006 to 2021.

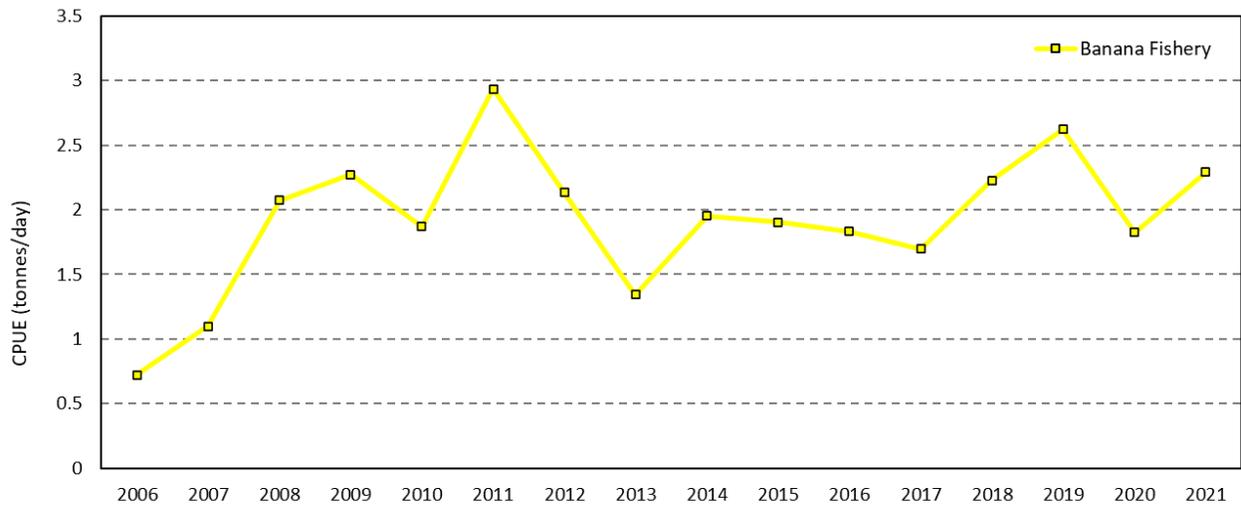


Figure 22b: Catch rate for the Banana Prawn fishery in the Edward area - 2006 to 2021.

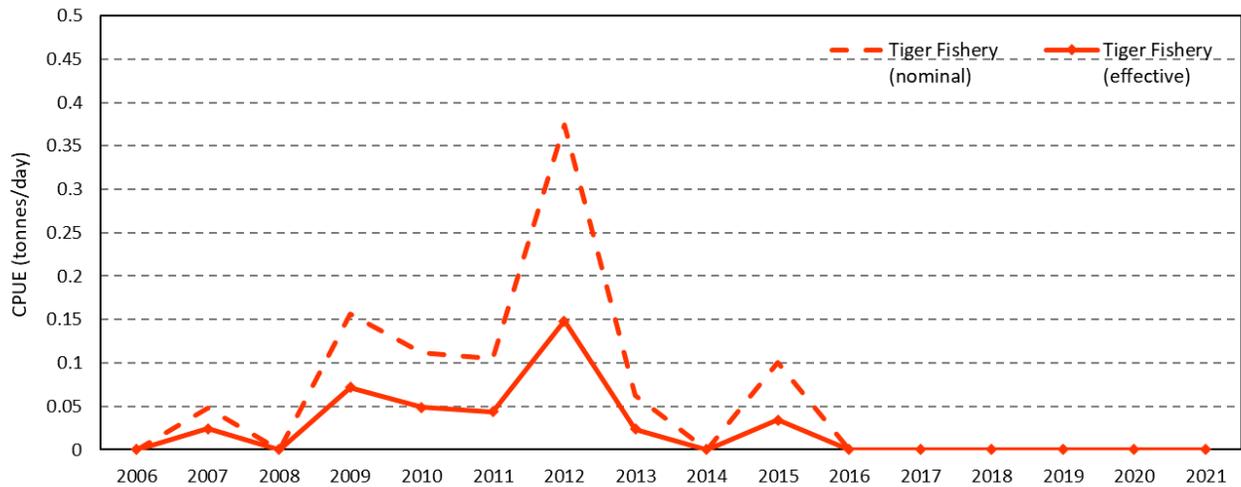


Figure 22c: Nominal and effective catch rate for the Tiger Prawn fishery in the Edward area – 2006 to 2021.

Mitchell

Banana Prawn catches in the Mitchell area decreased from 248 t in 2020 to 210.9 t in 2021 (Figure 23). There was no Tiger Prawns or Endeavour Prawns were caught in the area in 2021. Banana Prawns comprised 100% of the catch 2021 (Figure 24).

Effort in the Banana Prawn fishery increased 110 days in 2020 to 116 days in 2021 (Figure 25a). CPUE of Banana Prawns decreased 2.26 t per day in 2020 to 1.81 t per day in 2021 (Figure 25b). Nominal and effective CPUE of Tiger Prawns remained at zero in 2021 (Figures 25a & c).

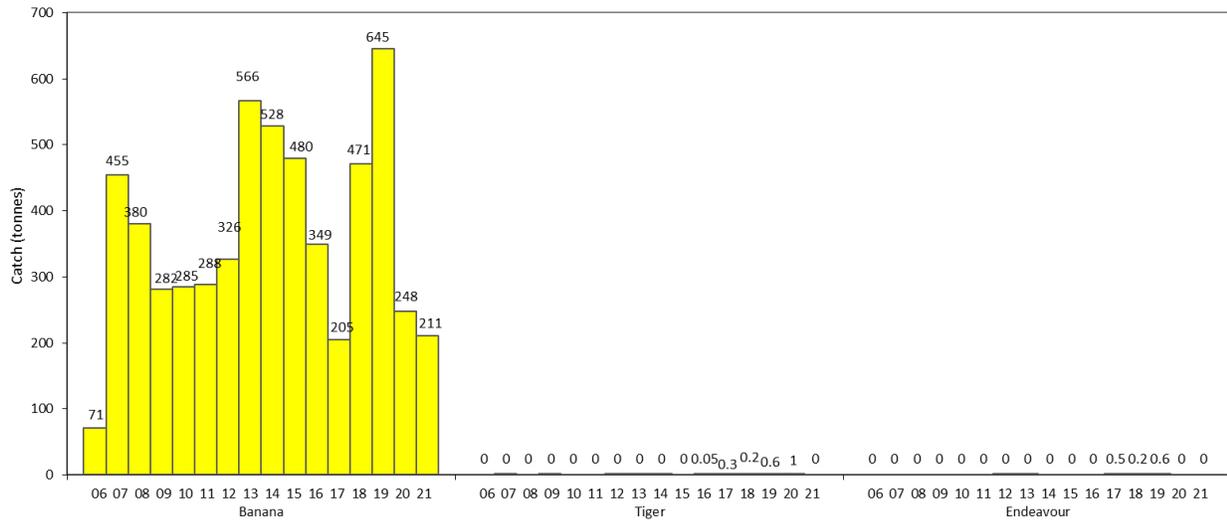


Figure 23: Catch by species in the Mitchell area - 2006 to 2021.

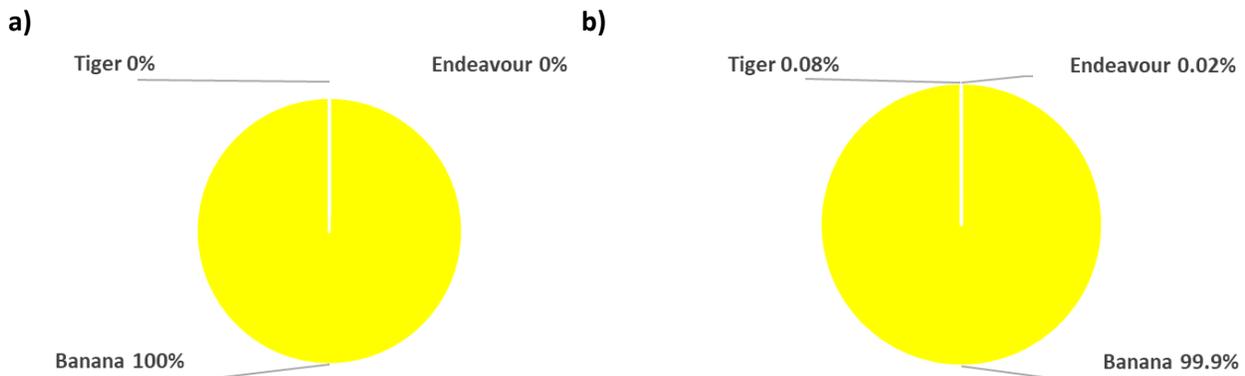


Figure 24: (a) Percentage catch of prawn species in the Mitchell area during 2021 and (b) percentage catch of prawn species in the Mitchell area - 2006 to 2021.

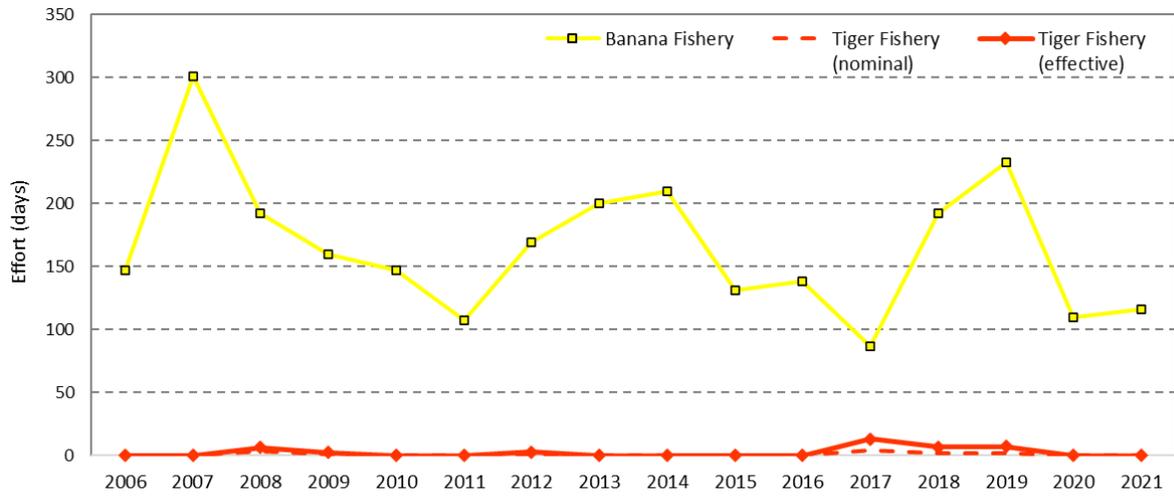


Figure 25a: Effort for the banana and Tiger Prawn fisheries in the Mitchell area - 2006 to 2021.

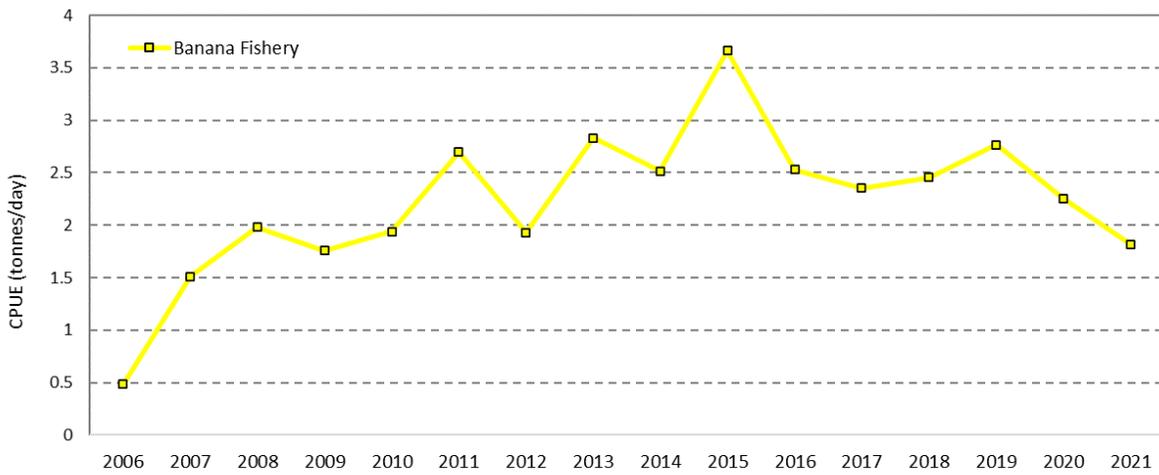


Figure 25b: Catch rate for the Banana Prawn fishery in the Mitchell area - 2006 to 2021.

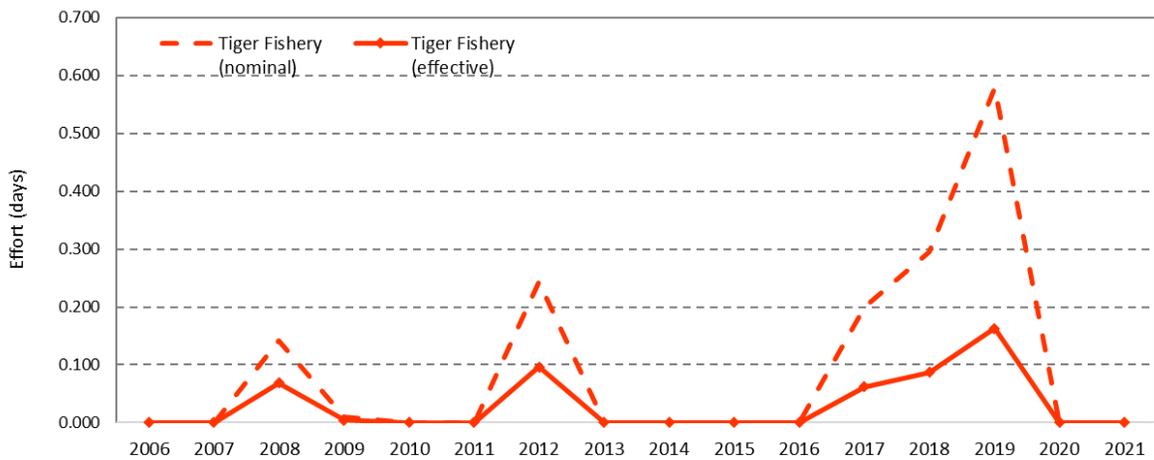


Figure 25c: Nominal and effective catch rate for the Tiger Prawn fishery in the Mitchell area - 2006 to 2021.

Bold

Banana Prawn catches in the Bold area decreased from 855 t in 2020 to 760 t in 2021 (Figure 26). Catches of Tiger Prawns decreased from 18 t in 2020 to 12 t in 2021. Endeavour Prawn catches also decreased from 9 t in 2020 to 6 t in 2021. Banana Prawns dominated the catch in this area in 2021, comprising 97.69% of the catch, with Tiger Prawns (1.56%) and Endeavour Prawns (0.75%) making up the remainder (Figure 27a).

Effort in the Banana Prawn fishery decreased from 300 days in 2020 to 279 days in 2021 (Figure 28a). CPUE of Banana Prawns decreased from 2.85 t in 2020 to 2.72 t in 2021 (Figure 28b). Effort in the Tiger Prawn fishery decreased 86 days in 2020 to 76 days in 2021 (Figure 28a). Nominal and effective CPUE of Tiger Prawns decreased from 0.32 and 0.09 t per day in 2020 to 0.24 and 0.06 t per day in 2021 (Figure 28c).

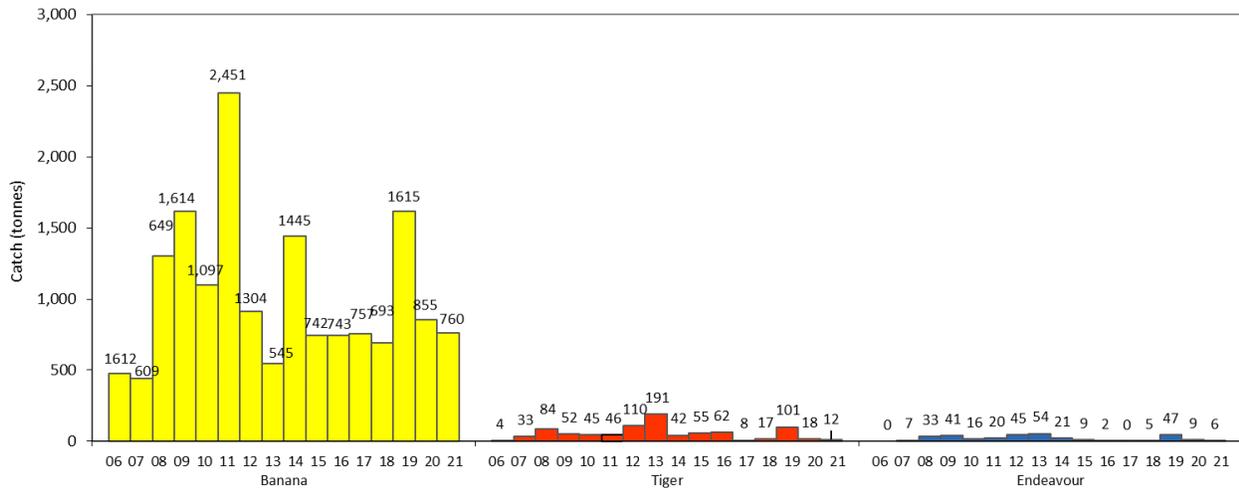


Figure 26: Catch by species in the Bold area – 2006 to 2021.

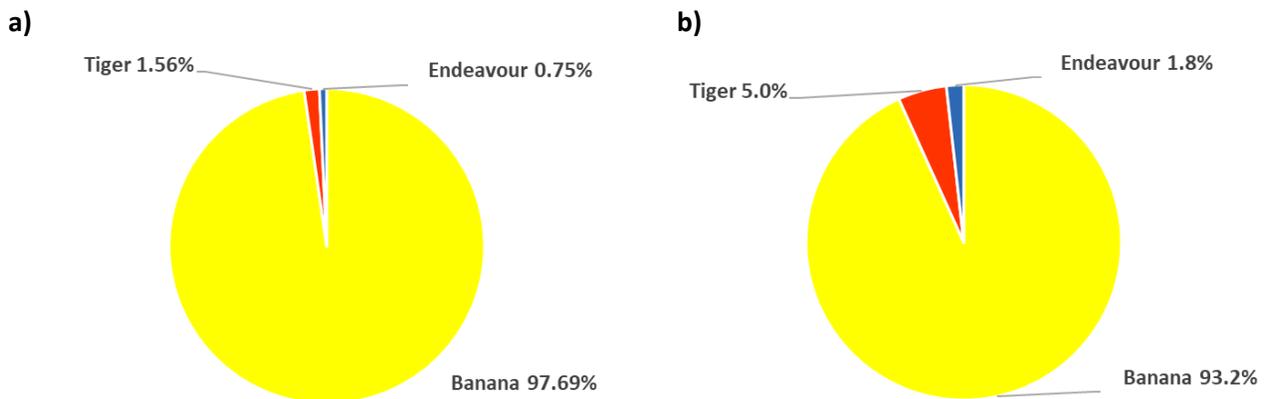


Figure 27: (a) Percentage catch of prawn species in the Bold area during 2021 and (b) catch of prawn species in the Bold area - 2006 to 2021.

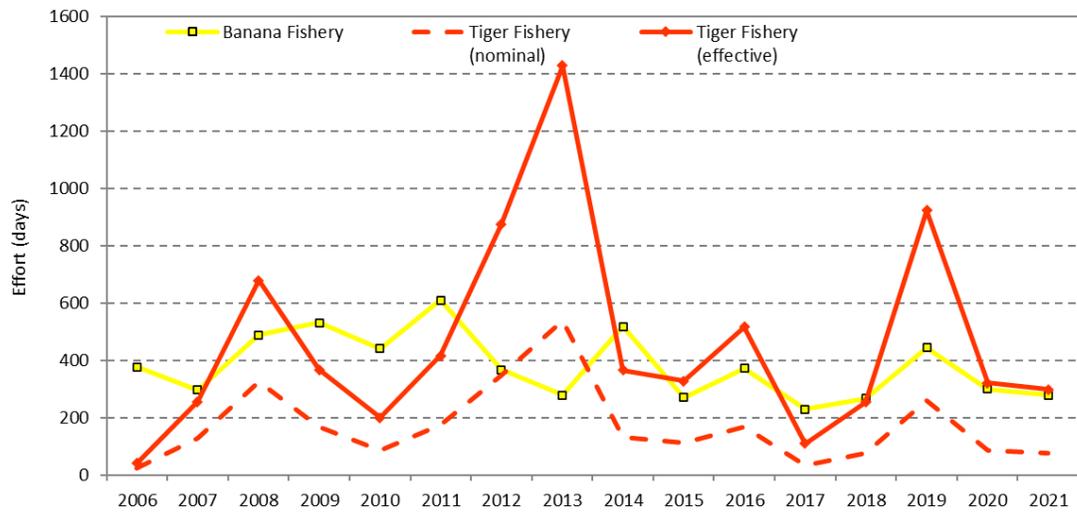


Figure 28a: Effort for the banana and Tiger Prawn fisheries in the Bold area - 2006 to 2021.

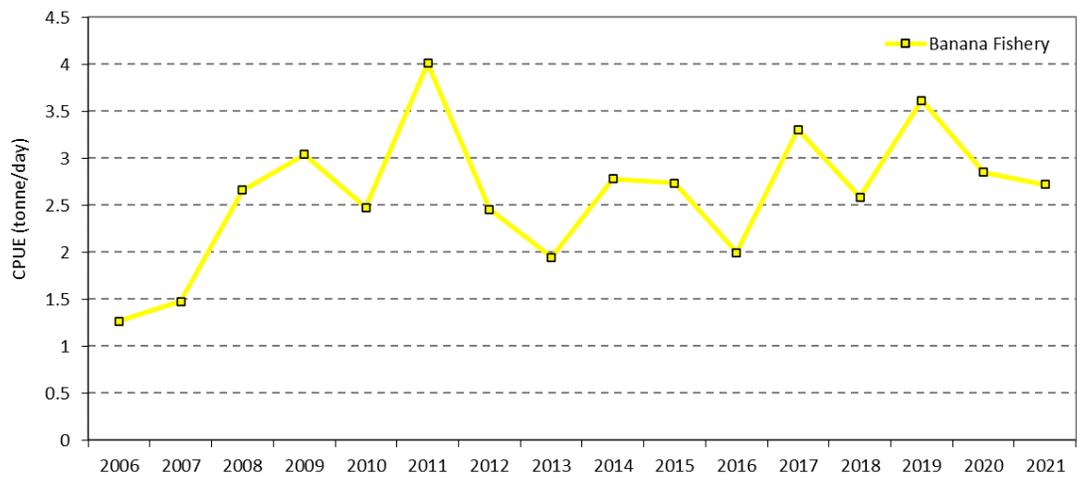


Figure 28b: Catch rate for the Banana Prawn fishery in the Bold area - 2006 to 2021.

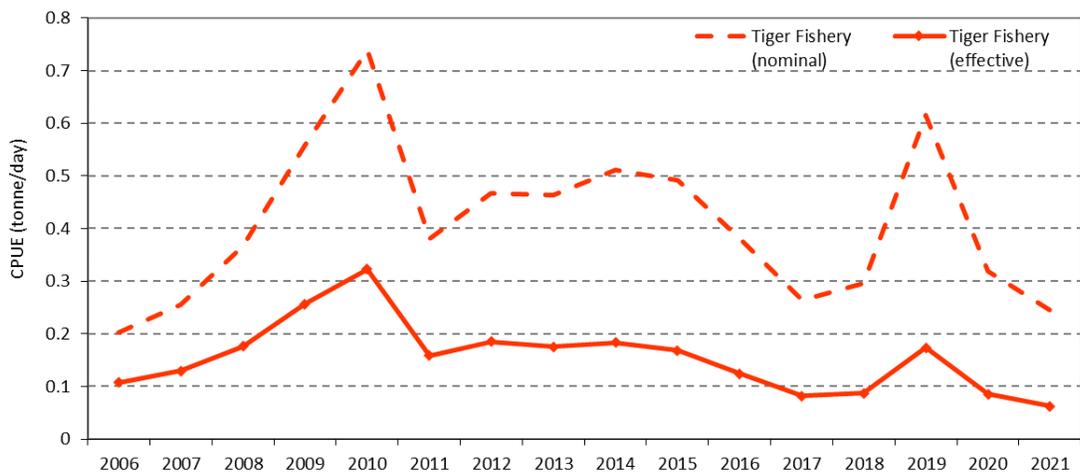


Figure 28c: Nominal and effective catch rate for the Tiger Prawn fishery in the Bold area - 2006 to 2021.

Sweers

Banana Prawn catches in the Sweers area decreased from 264 t in 2020 to 229 t in 2021 (Figure 29). Catches of Tiger Prawns increased from 25 t in 2020 to 31 t in 2021. Endeavour Prawns also increased from 19 t in 2020 to 27 t in 2021. Banana Prawns comprised 79.7% of the catch in 2021. Tiger and Endeavour Prawns comprised 10.8% and 9.5% of the catch, respectively, in 2021 (Figure 30a).

Effort in the Banana Prawn fishery decreased from 147 days in 2020 to 79 days in 2021 (Figure 31a). CPUE of Banana Prawns increased from 1.80 t per day in 2020 to 2.89 t per day in 2021 (Figure 31b). Effort in the Tiger Prawn fishery increased from 99 days in 2020 to 127 days in 2021 (Figure 31a). Nominal and effective CPUE of Tiger Prawns increased from 0.44 and 0.119 t per day in 2020 to 0.47 and 0.120 t per day in 2021 (Figure 31c).

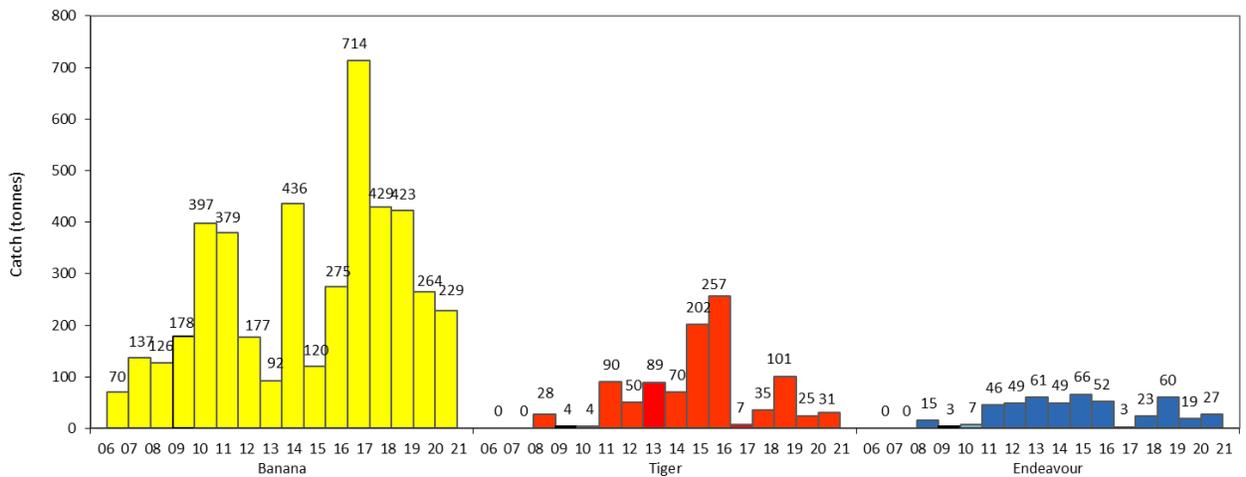
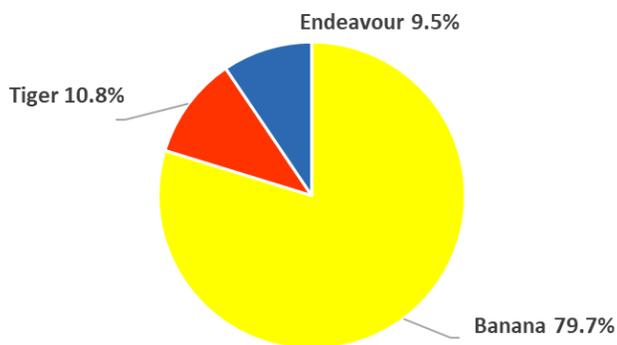


Figure 29: Catch by species in the Sweers area - 2006 to 2021.

a)



b)

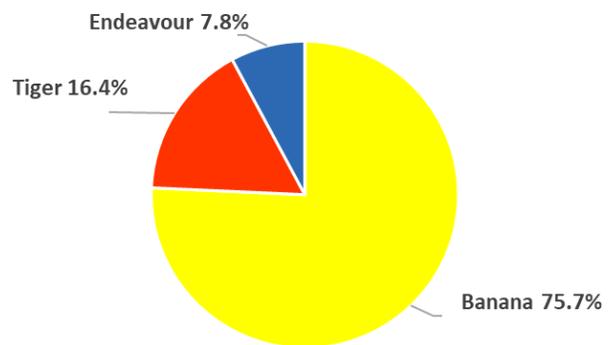


Figure 30: (a) Percentage catch of prawn species in the Sweers area during 2021, and (b) percentage catch of prawn species in the Sweers area - 2006 to 2021.

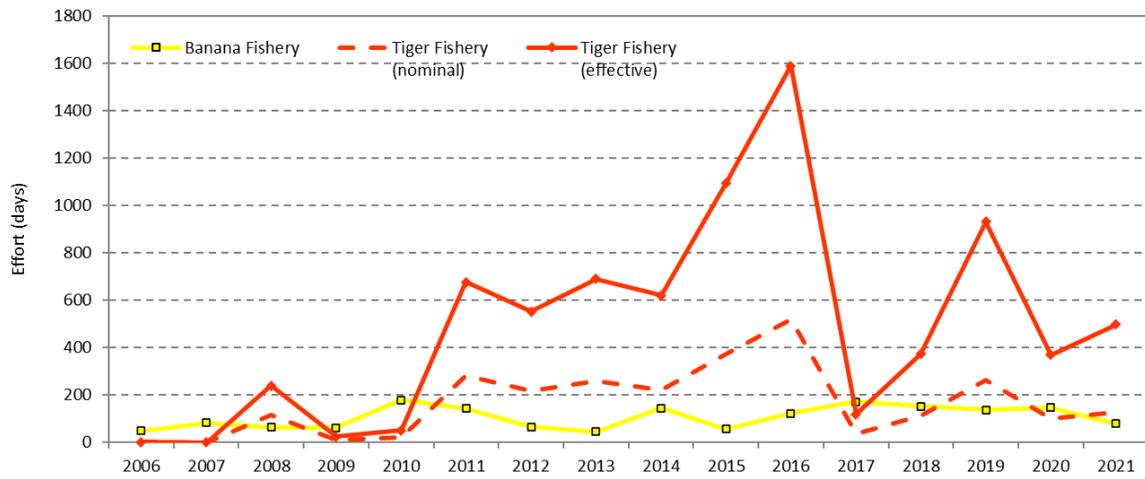


Figure 31a: Effort for the banana and Tiger Prawn fisheries in the Sweers area - 2006 to 2021.

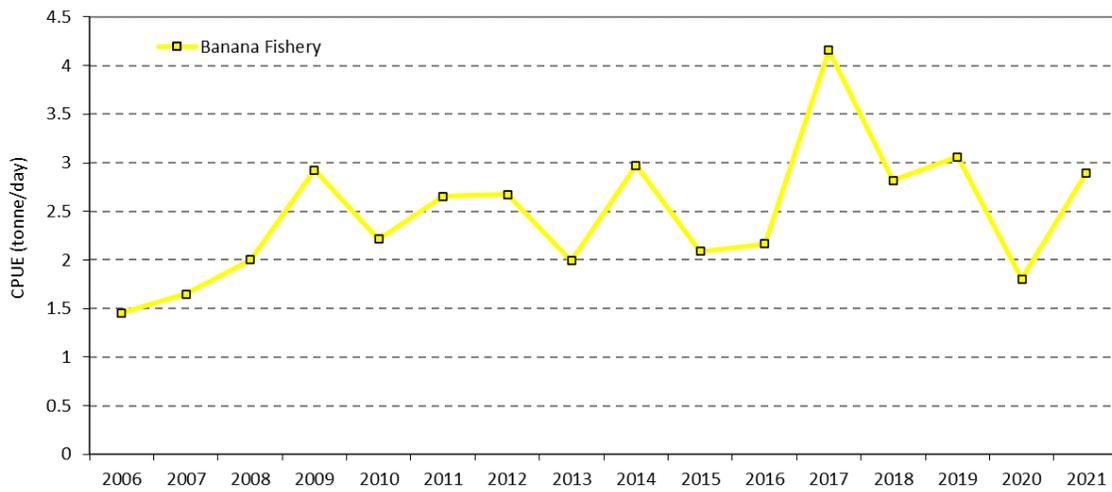


Figure 31b: Catch rate for the Banana Prawn fishery in the Sweers area - 2006 to 2021.

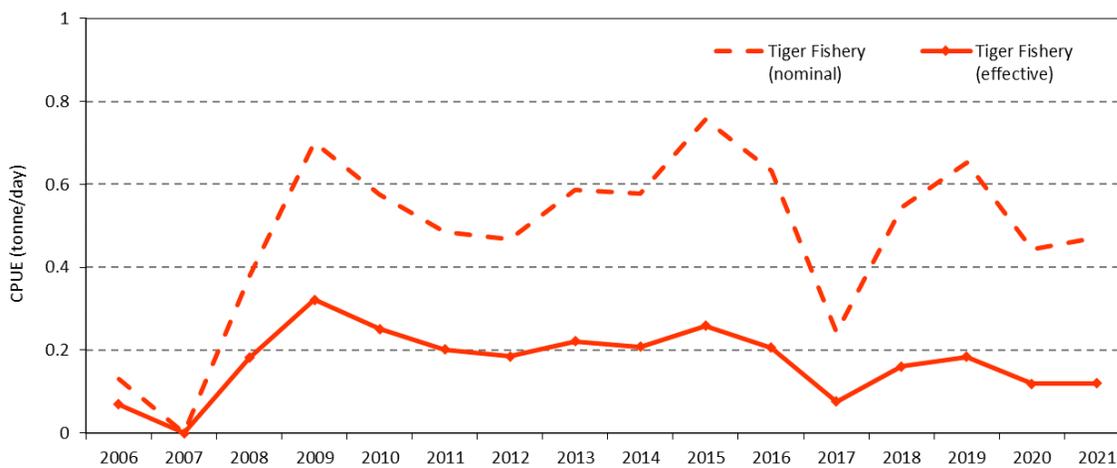


Figure 31c: Nominal and effective catch rate for the Tiger Prawn fishery in the Sweers area - 2006 to 2021.

Mornington

Banana Prawn catches in the Mornington area increased from 107 t in 2020 to 180 t in 2021 (Figure 32). Catches of Tiger Prawns increased slightly from 122 t in 2020 to 123 t in 2021. Endeavour Prawn catches remained at 24t for 2021. In 2021 Banana Prawns comprised 55% of the catch. Tiger and Endeavour Prawns contributed 37.8% and 7.2% to the total catch, respectively, in 2021 (Figure 33a).

Effort in the Banana Prawn fishery increased 59 days in 2020 to 91 days in 2021 (Figure 34a). CPUE of Banana Prawns increased from 1.77 t per day in 2020 to 1.96 t per day in 2021 (Figure 34b). Effort in the Tiger Prawn fishery increased from 554 days in 2020 to 565 days in 2021 (Figure 34a). Nominal and effective CPUE of Tiger Prawns decreased from 0.27 and 0.07 t per day in 2020 to 0.26 and 0.06 t per day respectively in 2021 (Figure 34c).

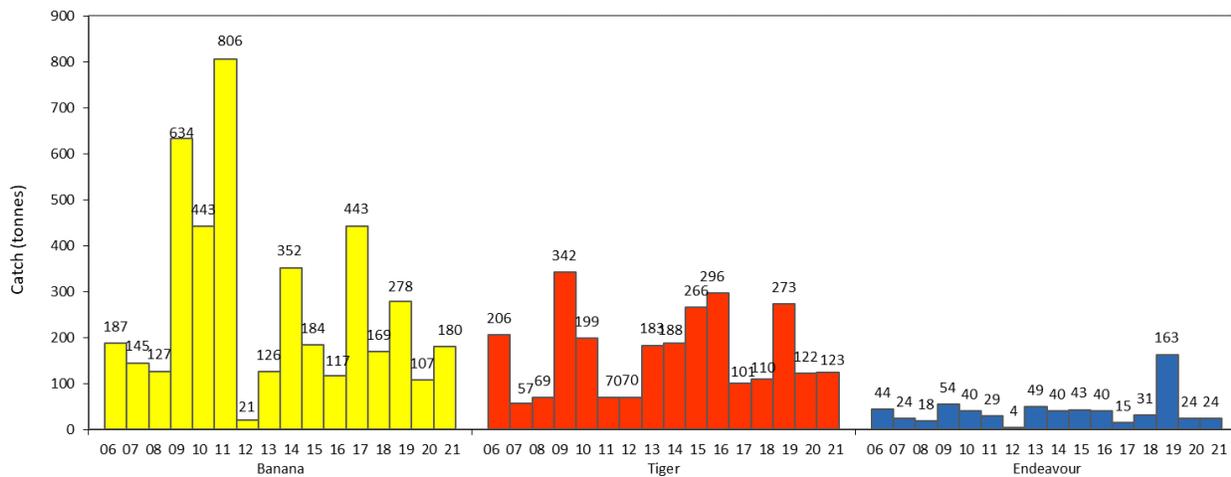


Figure 32: Catch by species in the Mornington area - 2006 to 2021.

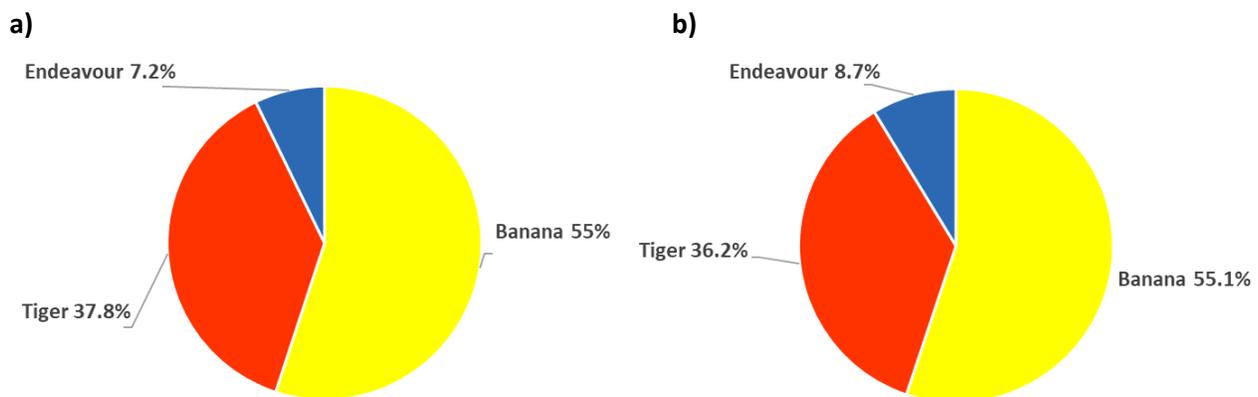


Figure 33: (a) Percentage catch of prawn species in the Mornington area during 2021 and (b) percentage catch of prawn species in the Mornington area – 2006 to 2021.

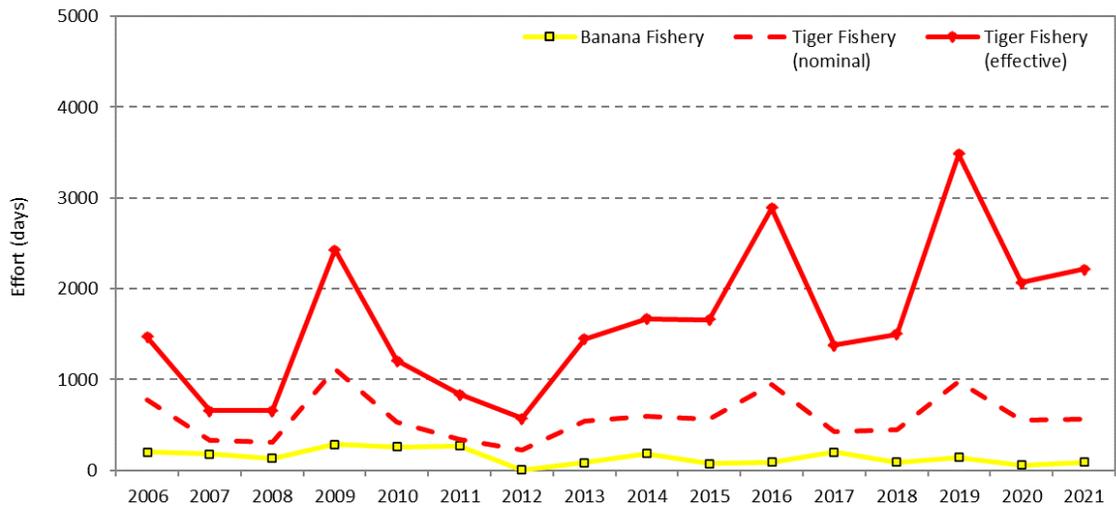


Figure 34a: Effort for the banana and Tiger Prawn fisheries in the Mornington area - 2006 to 2021.

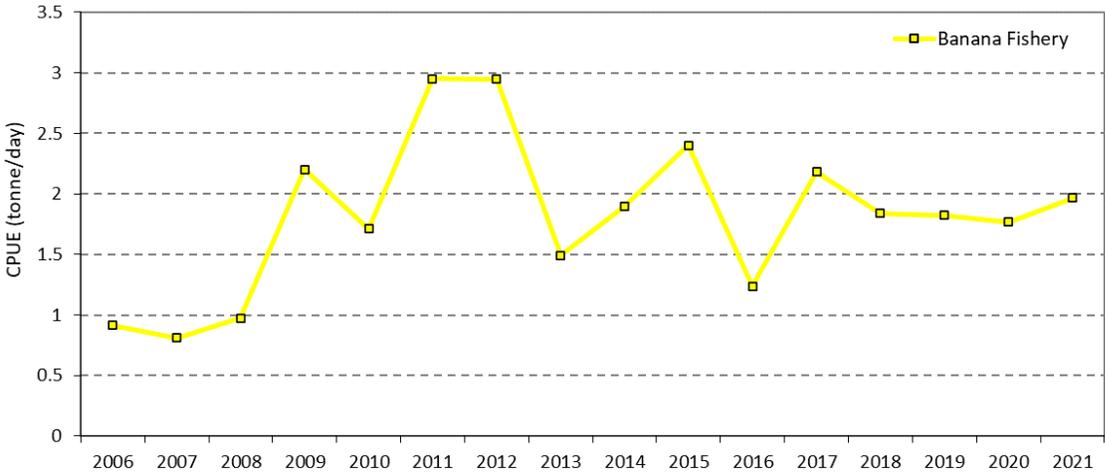


Figure 34b: Catch rate for the Banana Prawn fishery in the Mornington area - 2006 to 2021.

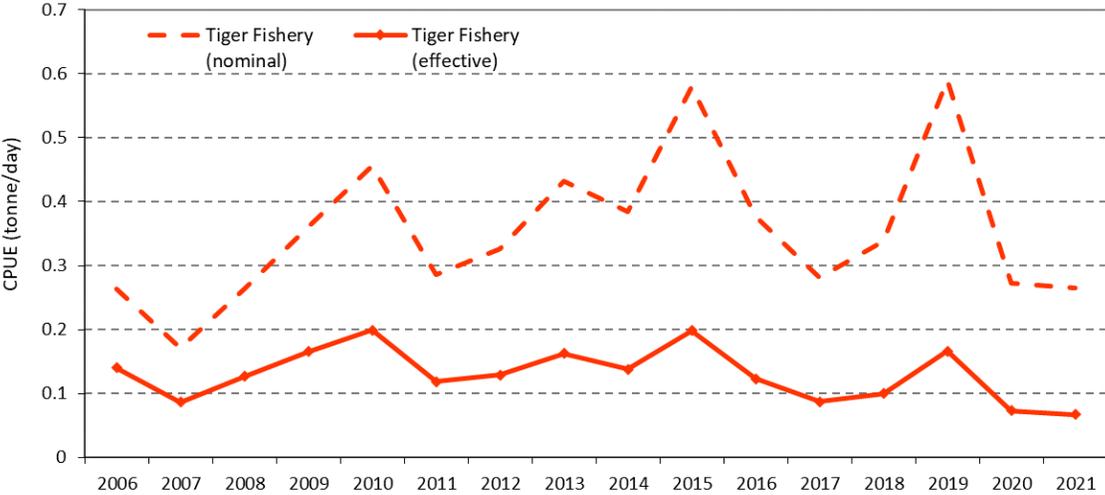


Figure 34c: Nominal and effective catch rate for the Tiger Prawn fishery in the Mornington area - 2006 to 2021.

Limmen Bight

Banana Prawn catches in the Limmen Bight area increased 21 t in 2020 to 59 t in 2021 (Figure 35). Catches of Tiger Prawns increased from 257 t in 2020 to 420 t in 2021. Endeavour Prawn catches increased from 53 t in 2020 to 99 t in 2021. Tiger Prawns dominated catches for 2021 in this area, comprising 72.6% of the total catch. Banana and Endeavour Prawns contributed 10.2% and 17.2%, respectively in 2021 (Figure 36).

Effort in the Banana Prawn fishery increased from 24 days in 2020 to 47 days in 2021 (Figure 37a). CPUE of Banana Prawns increased from 0.82 t per day in 2020 to 1.25 t in 2021 (Figure 37b). Effort in the Tiger Prawn fishery increased from 1058 days in 2020 to 1736 days in 2021 (Figure 37a). Nominal and effective CPUE of Tiger Prawns remained similar with 0.30 and 0.08 t per day in 2020 compared to 0.30 and 0.07 t per day in 2021 (Figure 37c).

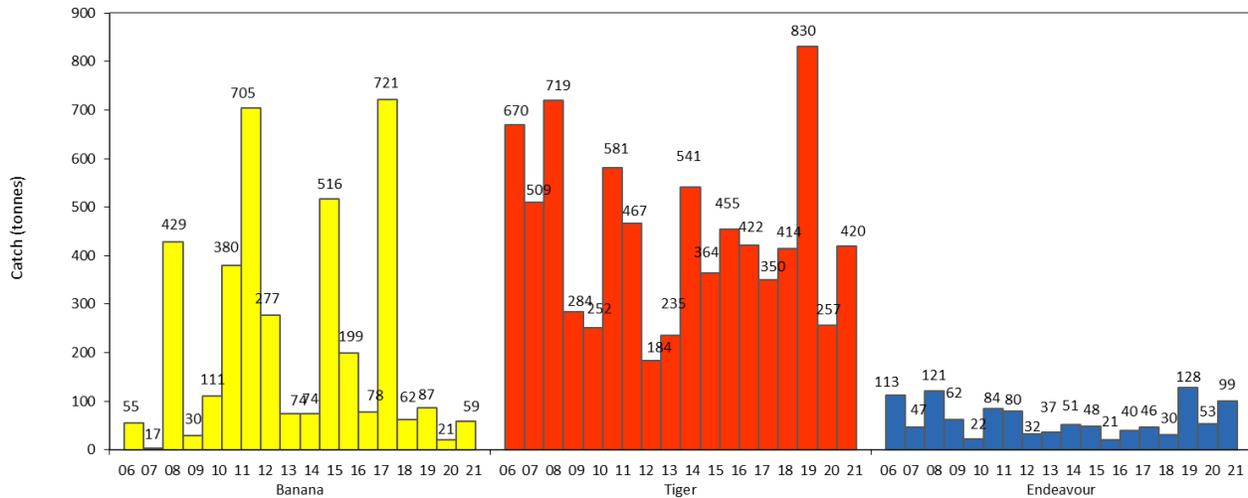


Figure 35: Catch by species in the Limmen Bight area – 2006 to 2021.

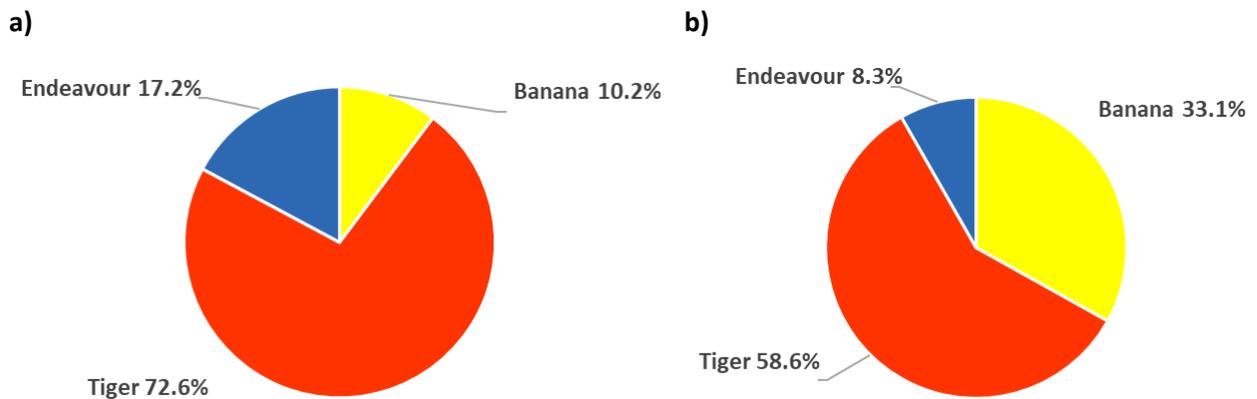


Figure 36: (a) Percentage catch of prawn species in the Limmen Bight area during 2020 and (b) percentage catch of prawn species in the Limmen Bight area – 2006 to 2021.

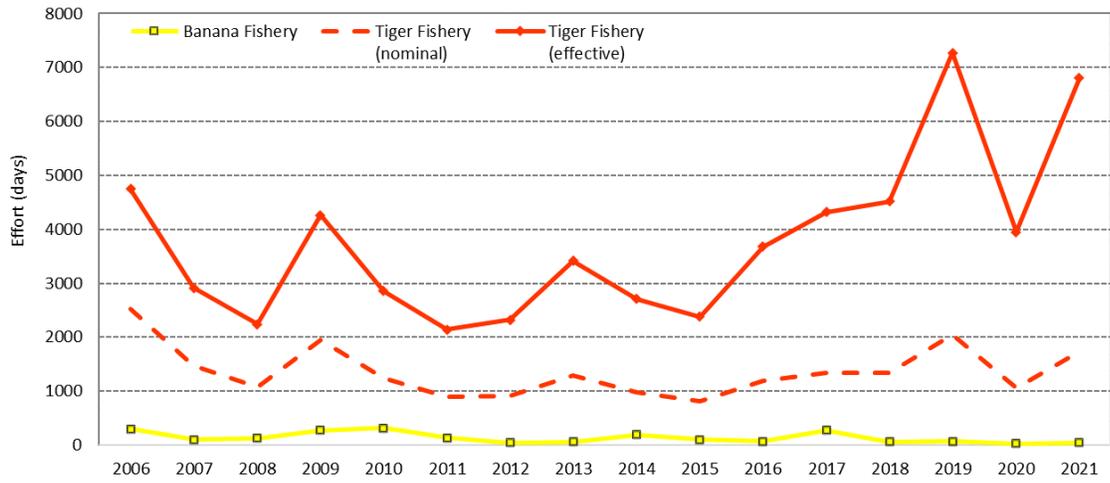


Figure 37a: Effort for the banana and Tiger Prawn fisheries in the Limmen Bight area - 2006 to 2021.

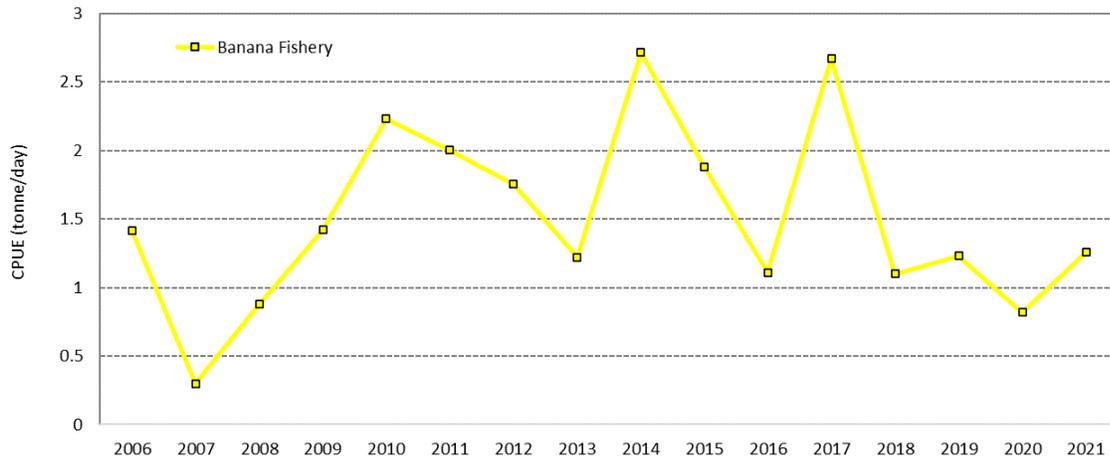


Figure 37b: Catch rate for the Banana Prawn fishery in the Limmen Bight area – 2006 to 2021.

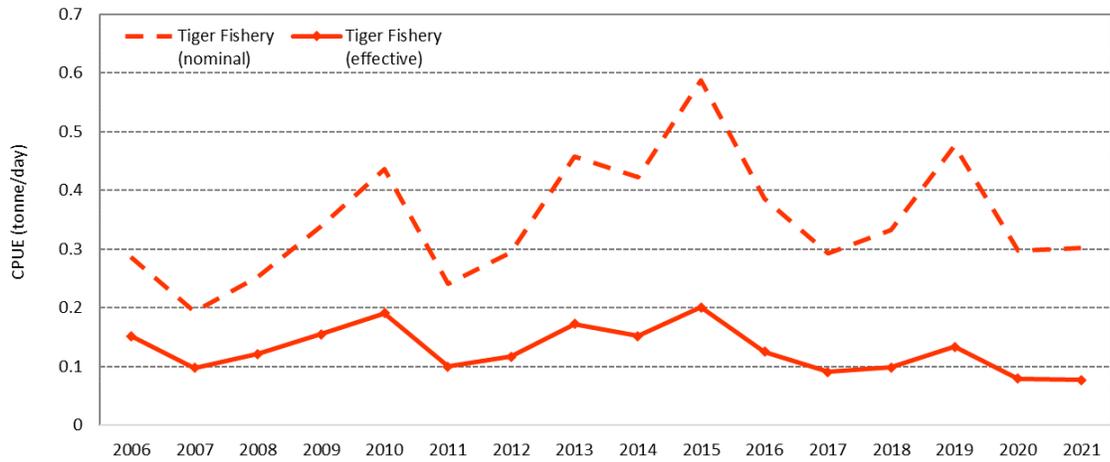


Figure 37c: Nominal and effective catch rate for the Tiger Prawn fishery in the Limmen Bight area - 2006 to 2021.

Groote

Banana Prawn catches in the Groote area increased from 20 t in 2020 to 54 t in 2021 (Figure 38). Catches of Tiger Prawns decreased from 345 t in 2020 to 138 t in 2021. Endeavour Prawn catches decreased from 77 t in 2020 to 74 t in 2021. Tiger Prawns dominated the catch in the area, comprising 52%. Banana and Endeavour Prawns contributed 20% and 28%, respectively, in 2021 (Figure 39).

Effort in the Banana Prawn fishery increased from 34 days in 2020 to 48 days in 2021 (Figure 40a). CPUE of Banana Prawns increased 0.56 t per day in 2020 to 1.09 t per day in 2021 (Figure 40b). Effort in the Tiger Prawn fishery decreased from 1,430 days in 2020 to 667 days in 2021 (Figure 40a). Nominal and effective CPUE of Tiger Prawns increased very slightly from 0.30 and 0.08 t per day in 2020 to 0.32 and 0.08 t per day in 2021 (Figure 40c).

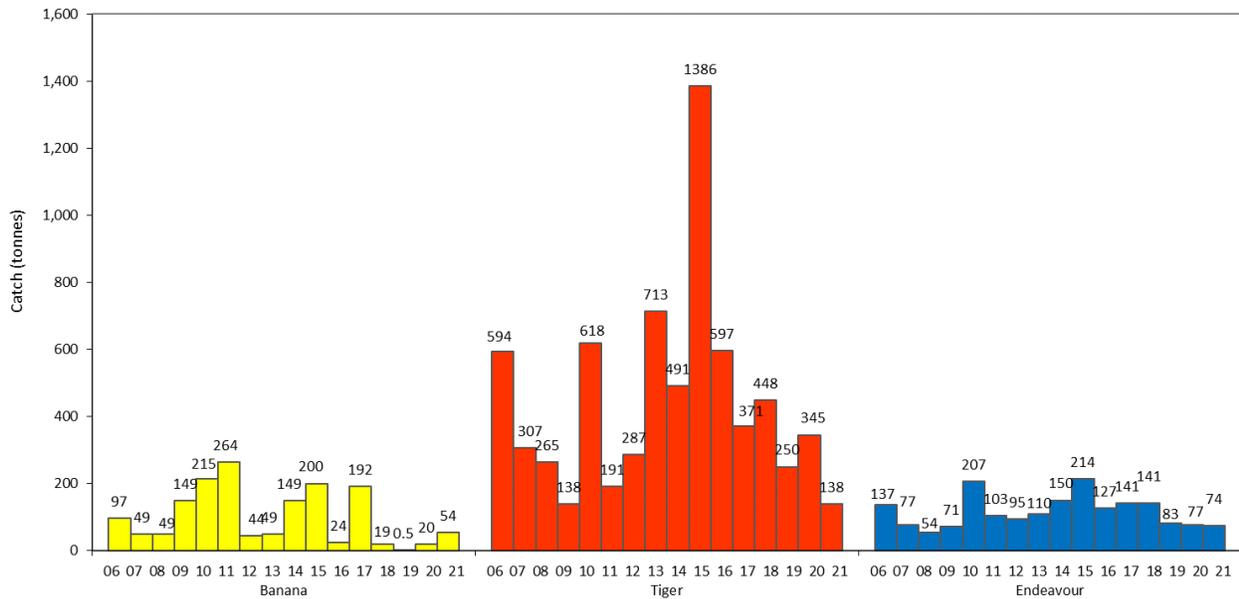


Figure 38: Catch by species in the Groote area - 2006 to 2021.

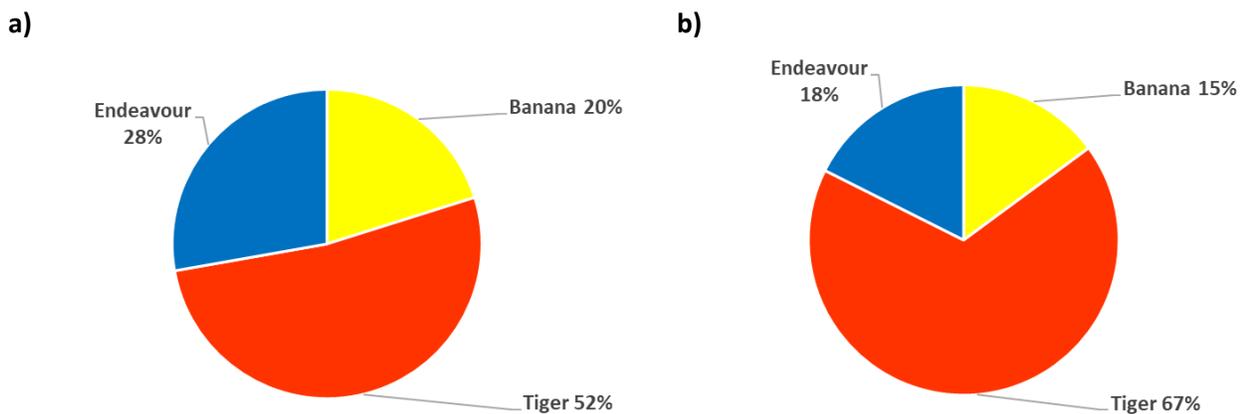


Figure 39: (a) Percentage catch of prawn species in the Groote area during 2021 and (b) percentage catch of prawn species in the Groote area - 2006 to 2021.

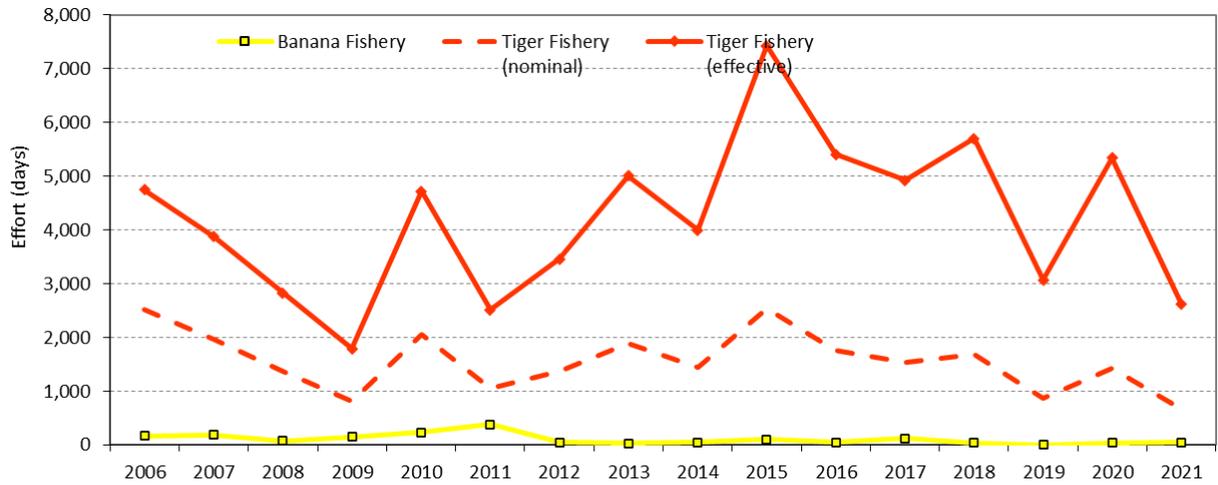


Figure 40a: Effort for the banana and Tiger Prawn fisheries in the Groote area - 2006 to 2021.

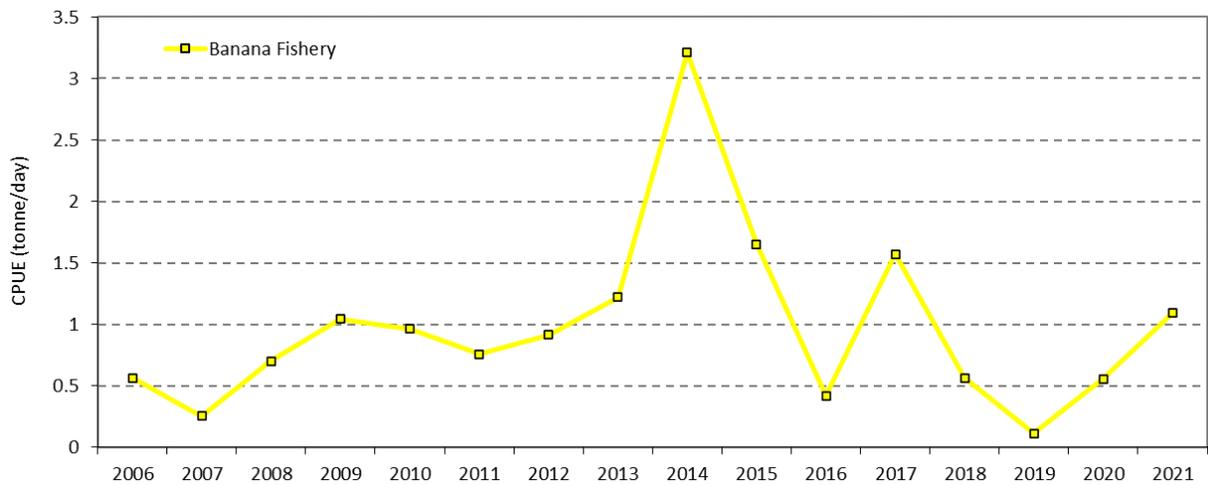


Figure 40b: Catch rate for the Banana Prawn fishery in the Groote area – 2006 to 2021.

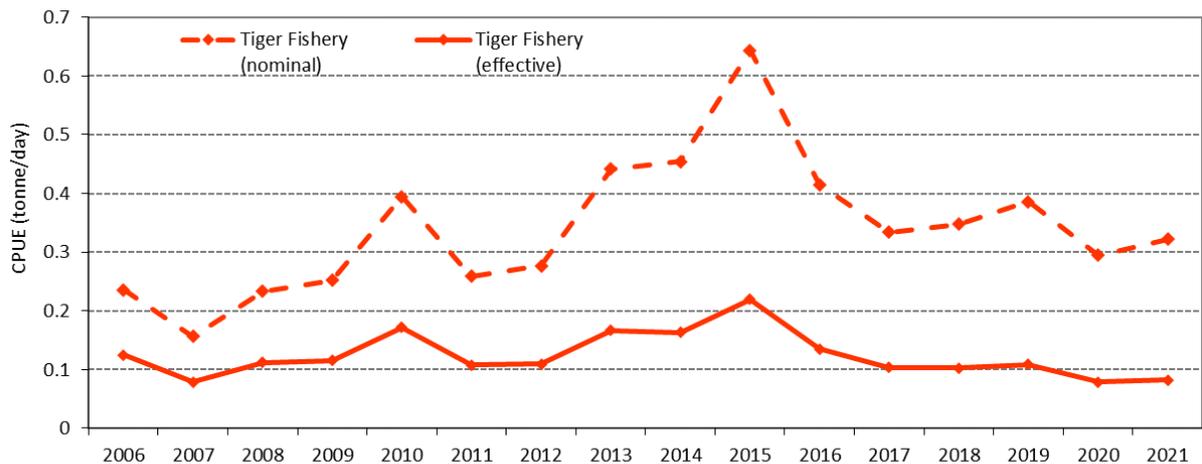


Figure 40c: Nominal and effective catch rate for the Tiger Prawn fishery in the Groote area - 2006 to 2021.

Gove

Banana Prawn catches in the Gove area increased from 55 t in 2020 to 88 t in 2021 (Figure 41). Catches of Tiger Prawns decreased from 180 t in 2020 to 86 t in 2021. Endeavour Prawn catches decreased from 16t in 2020 to 15 t in 2021. Banana Prawns comprised 46% of the catch for this area followed by 45% Tiger Prawns and 8% Endeavour Prawns (Figure 42).

Effort in the Banana Prawn fishery increased from 55 days in 2020 to 96 days in 2021 (Figure 43a). CPUE of Banana Prawns decreased from 1.00 t per day in 2020 to 0.9 t per day in 2021 (Figure 43b). Effort in the Tiger Prawn fishery decreased from 675 days in 2020 to 362 days in 2021 (Figure 43a). Nominal and effective CPUE for Tiger Prawns decreased slightly from 0.29 and 0.08 t per day in 2020 to 0.28 and 0.07 t per day in 2021 (Figure 43c).

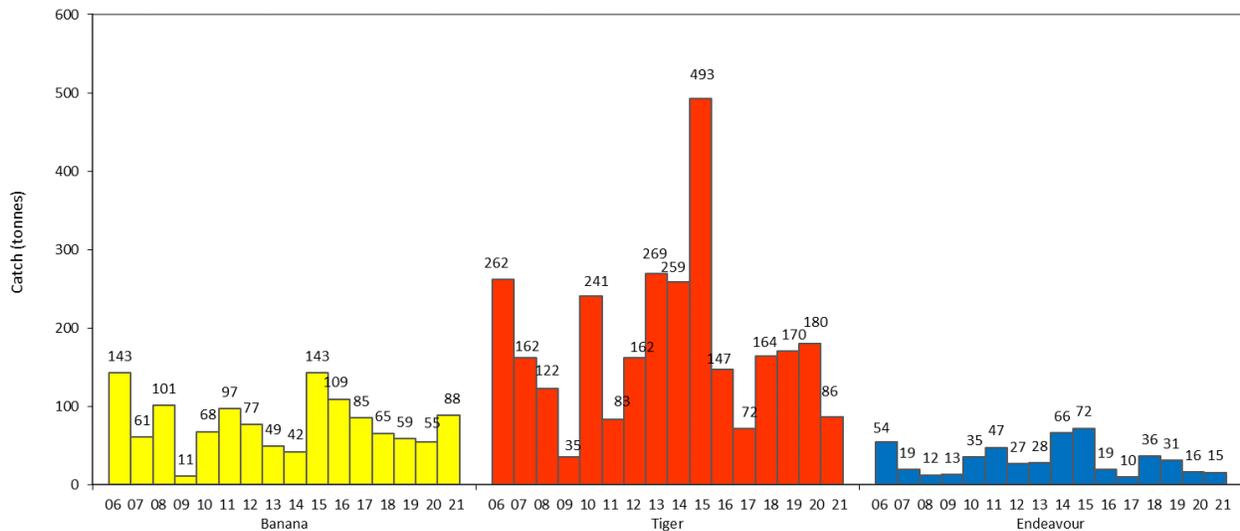


Figure 41: Catch by species in the Gove area - 2006 to 2021.

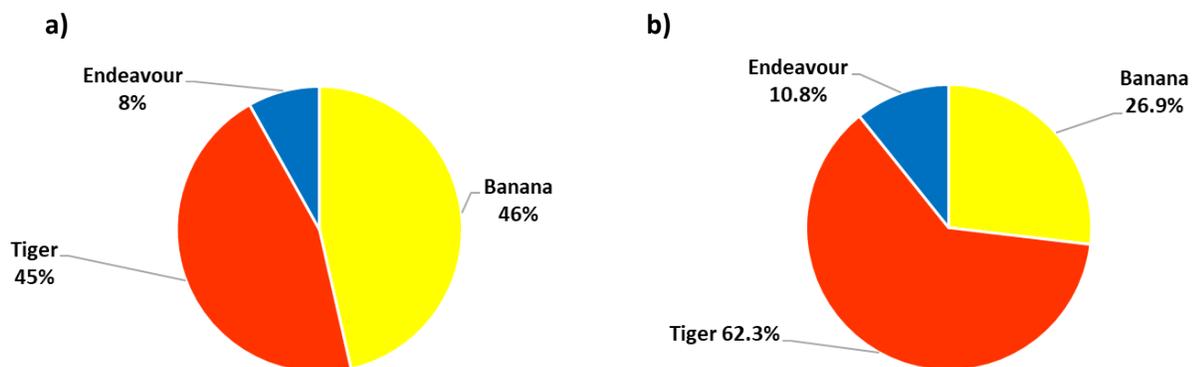


Figure 42: (a) Percentage catch of prawn species in the Gove area during 2021 and (b) percentage catch of prawn species in the Gove area - 2006 to 2021.

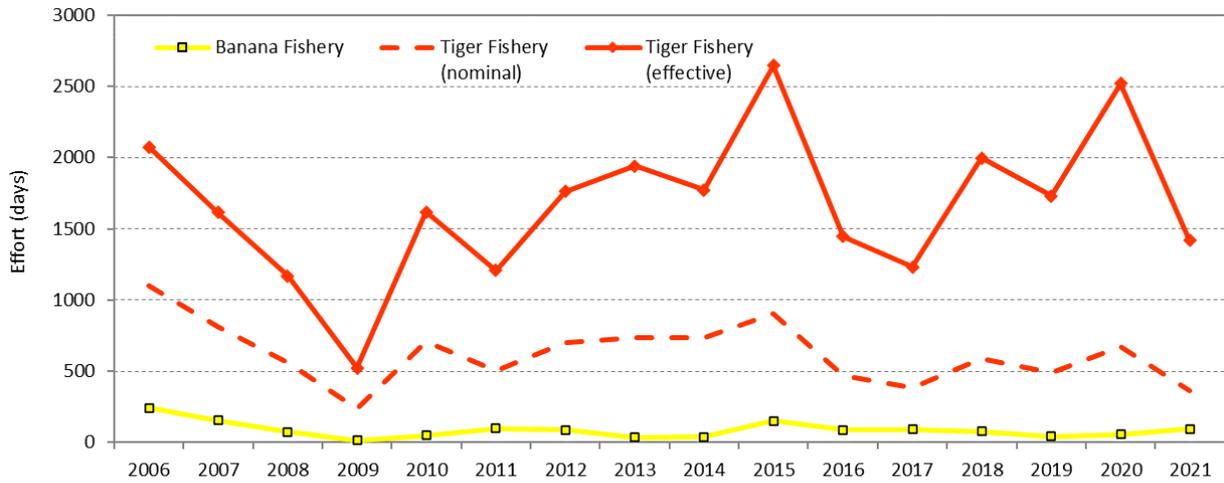


Figure 43a: Effort for the banana and Tiger Prawn fisheries in the Gove area - 2006 to 2021.

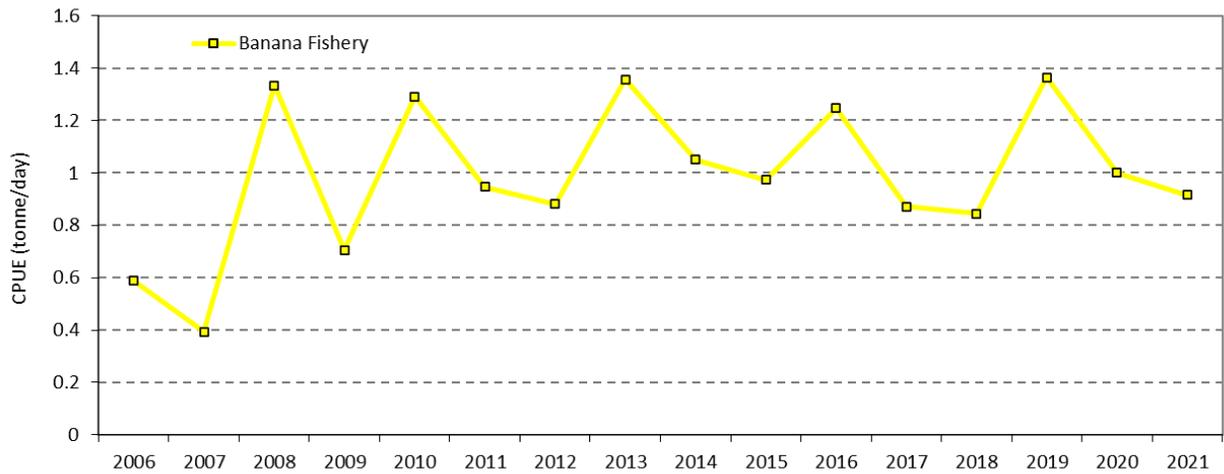


Figure 43b: Catch rate for the Banana Prawn fishery in the Gove area - 2006 to 2021.

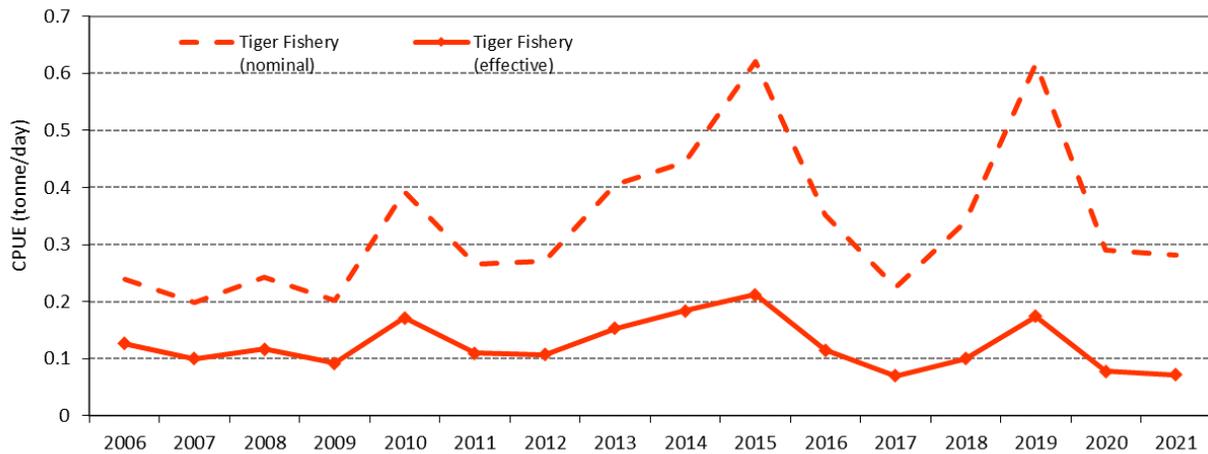


Figure 43c: Nominal and effective catch rate for the Tiger Prawn fishery in the Gove area - 2006 to 2021.

Arnhem

Banana Prawn catches in the Arnhem area increased from 42 t in 2020 to 134 t in 2021. Catches of Tiger Prawns decreased from 80 t in 2020 to 28 t in 2021. Catch of Endeavour Prawns remained at 8t for 2021 (Figure 44). Banana Prawns dominated the catch in this area in 2021, comprising 78.8% (Figure 45). The remaining catch comprised 16.2% Tiger Prawns and 4.9% Endeavour Prawns.

Effort in the Banana Prawn fishery increased from 37 days in 2020 to 111 days in 2021 (Figure 46a). CPUE of Banana Prawns also increased from 1.19 t per day in 2020 to 1.21 t per day in 2021 (Figure 46b). Effort in the Tiger Prawn fishery decreased from 240 days in 2020 to 121 days in 2021 (Figure 46a). Nominal and effective CPUE of Tiger Prawns decreased 0.36 and 0.10 t per day in 2020 to 0.29 and 0.07 t per day for 2021 (Figure 46c).

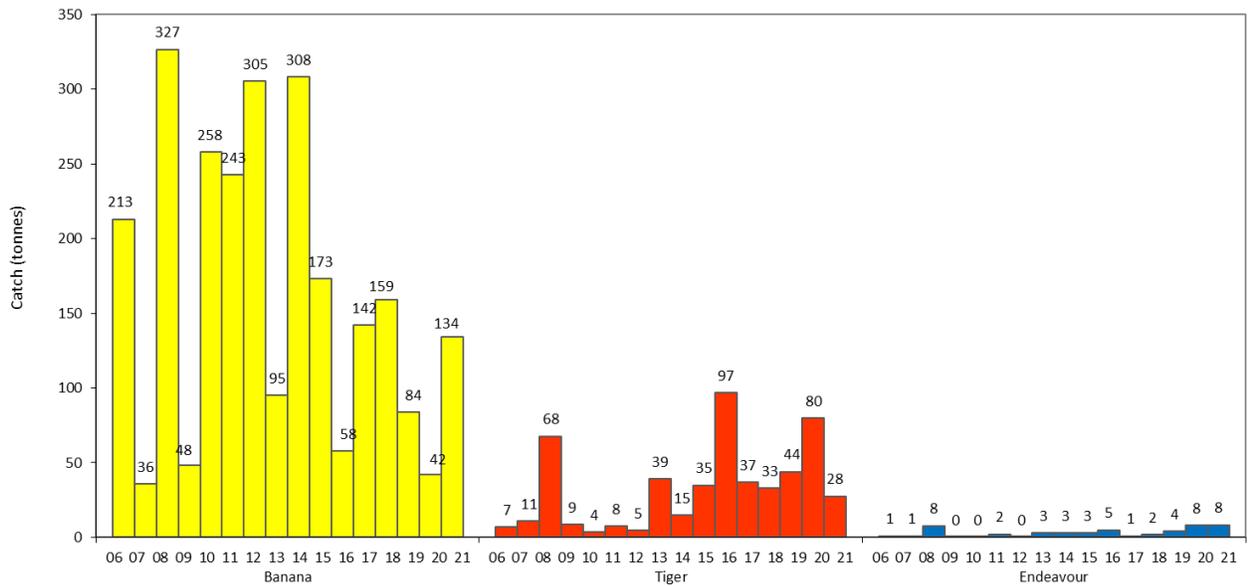


Figure 44: Catch by species in the Arnhem area - 2006 to 2021.

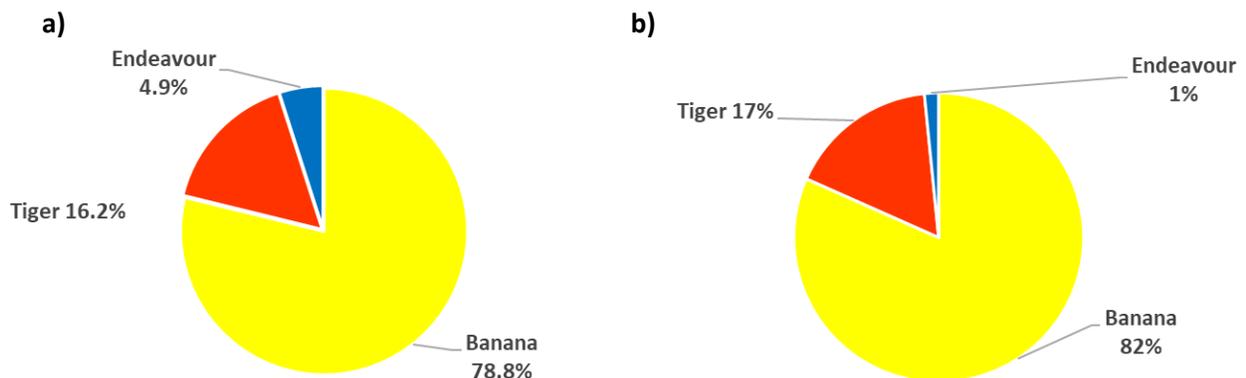


Figure 45: (a) Percentage catch of prawn species in the Arnhem area during 2021 and (b) percentage catch of prawn species in the Arnhem area - 2006 to 2021.

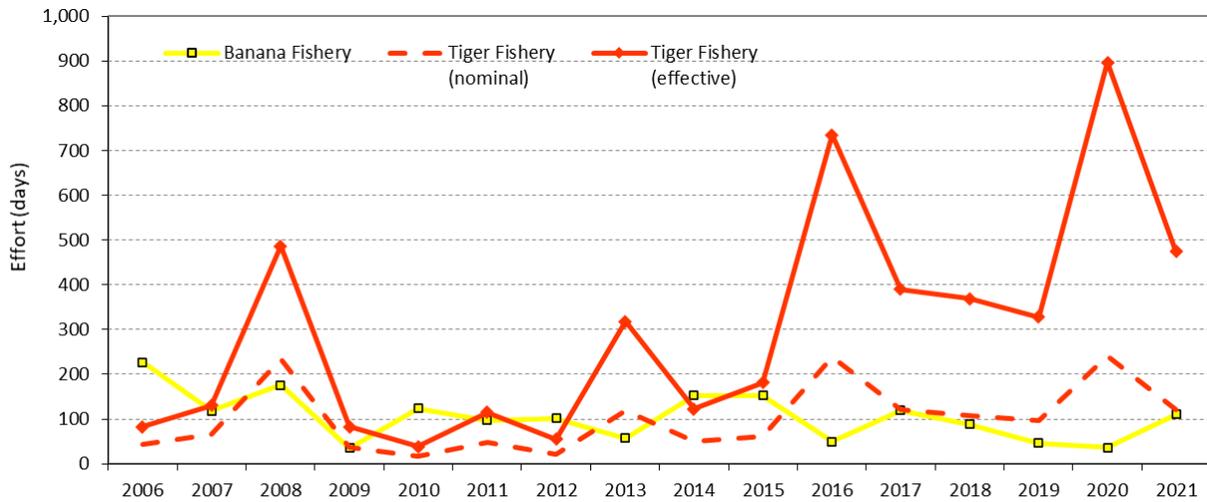


Figure 46a: Effort for the banana and Tiger Prawn fisheries in the Arnhem area - 2006 to 2021.

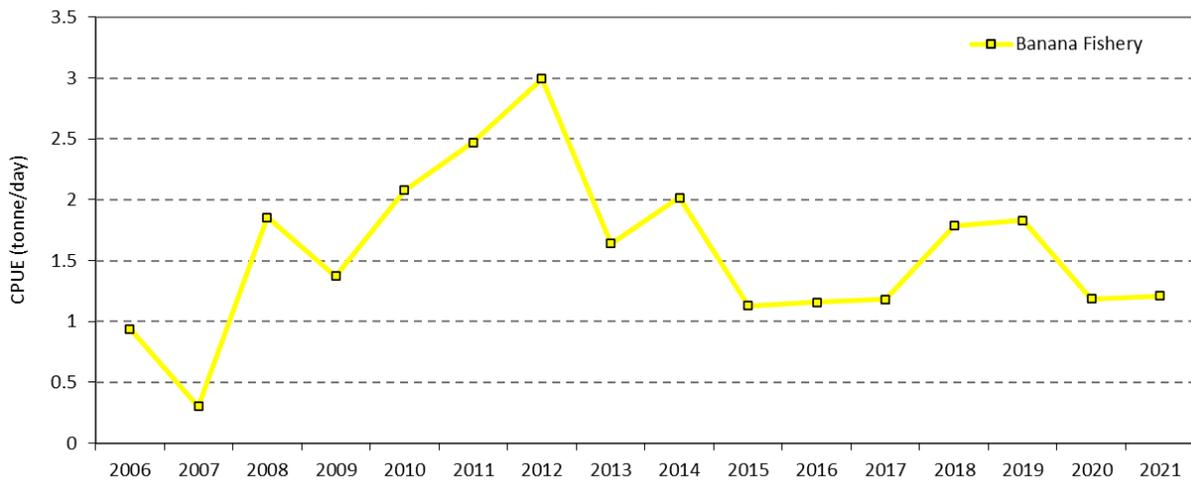


Figure 46b: Catch rate for the Banana Prawn fishery in the Arnhem area - 2006 to 2021.

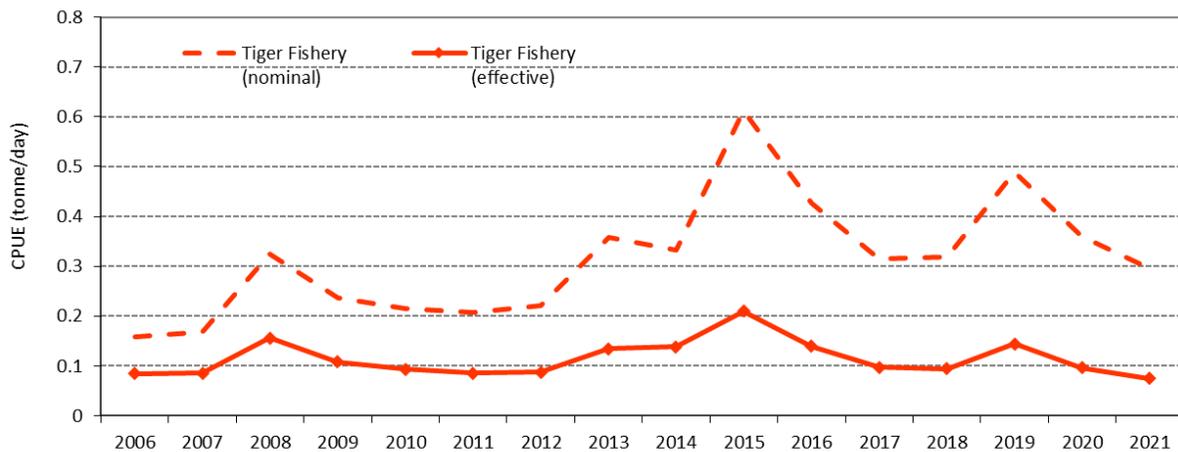


Figure 46c: Nominal and effective catch rate for the Tiger Prawn fishery in the Arnhem area - 2006 to 2021.

Port Essington

Banana Prawn catches in the Port Essington area increased from 161 t in 2020 to 242 t in 2021 (Figure 47). Tiger Prawn catches decreased from 149 t in 2020 to 29 t in 2021. Endeavour Prawn catches also decreased from 48 t in 2020 to 32 t in 2021. Banana Prawns comprised 79.7% of the catch in this area in 2021. Tiger Prawns made up 9.7% and Endeavour Prawns 10.6% (Figure 48).

Effort in the Banana Prawn fishery increased from 175 days in 2020 to 291 in 2021 (Figure 49a). CPUE of Banana Prawns decreased from 0.91 t per day in 2020 to 0.83 in 2021 (Figure 49b). Effort in the Tiger Prawn fishery decreased from 425 days in 2020 to 168 days in 2021 (Figure 49a). Nominal and effective CPUE of Tiger Prawns decreased from 0.47 and 0.12 t per day in 2020 to 0.36 and 0.09 t in 2021 (Figure 49c).

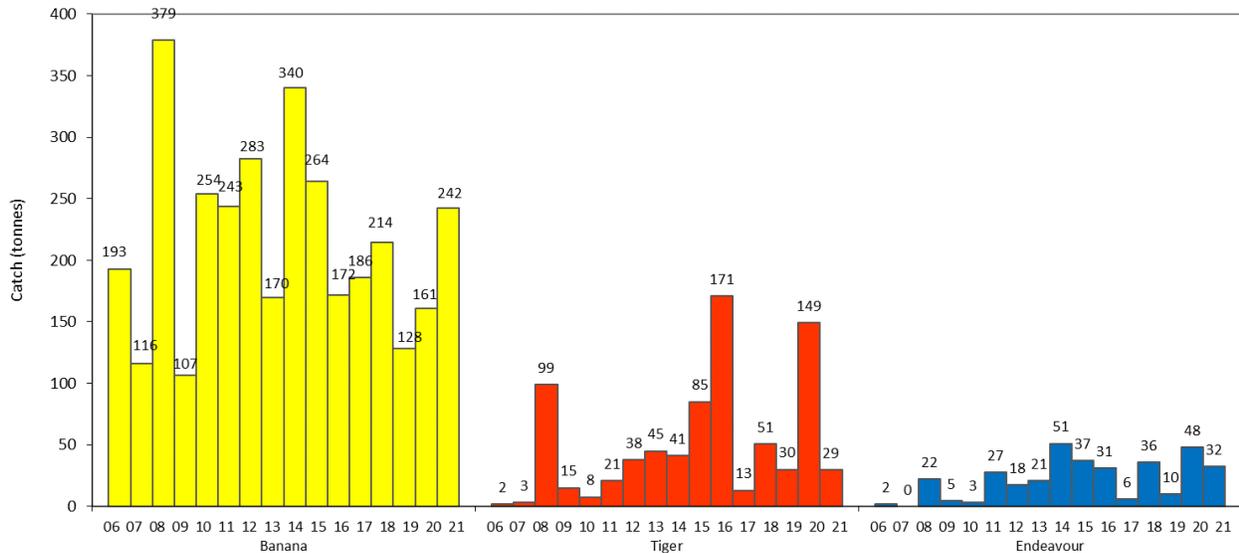


Figure 47: Catch by species in the Port Essington area - 2006 to 2021.

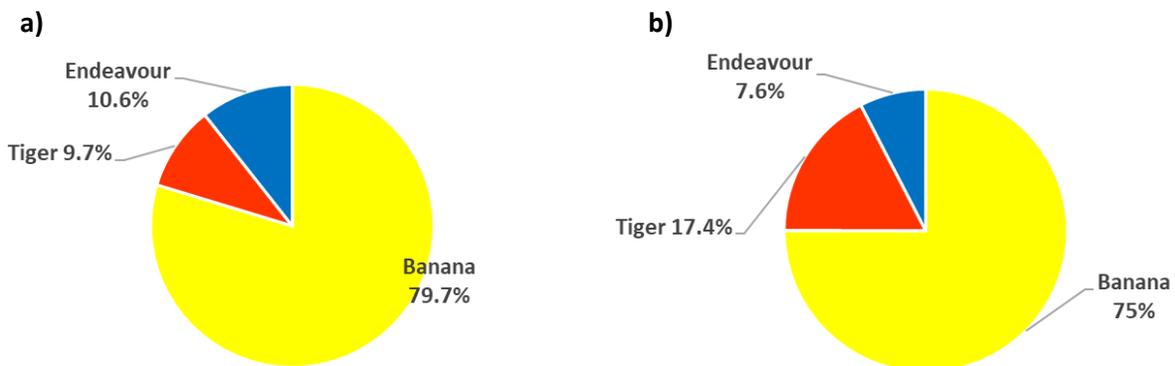


Figure 48: (a) Percentage catch of prawn species in the Port Essington area during 2021, and (b) percentage catch of prawn species in the Port Essington area - 2006 to 2021.

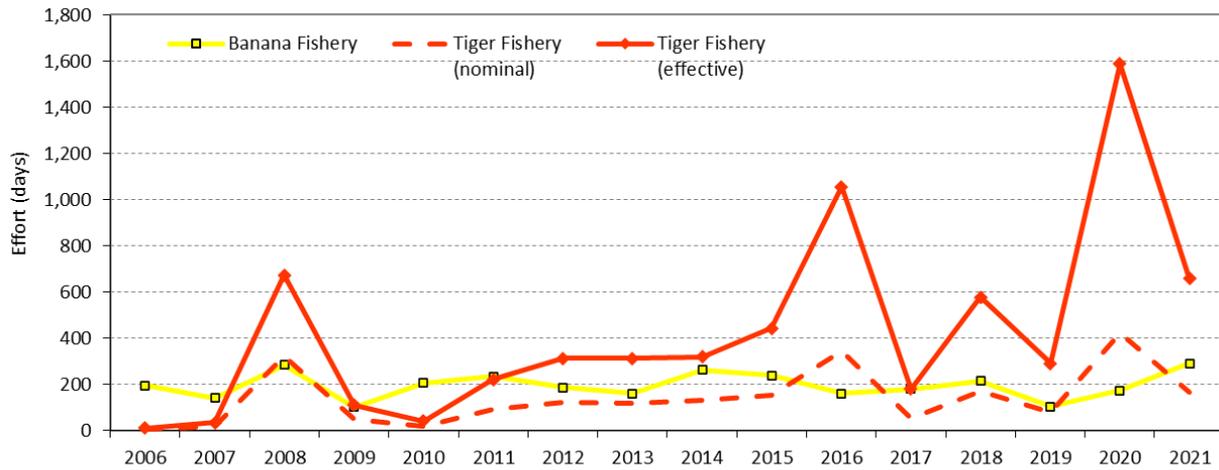


Figure 49a: Effort for the banana and Tiger Prawn fisheries in the Port Essington area - 2006 to 2021.

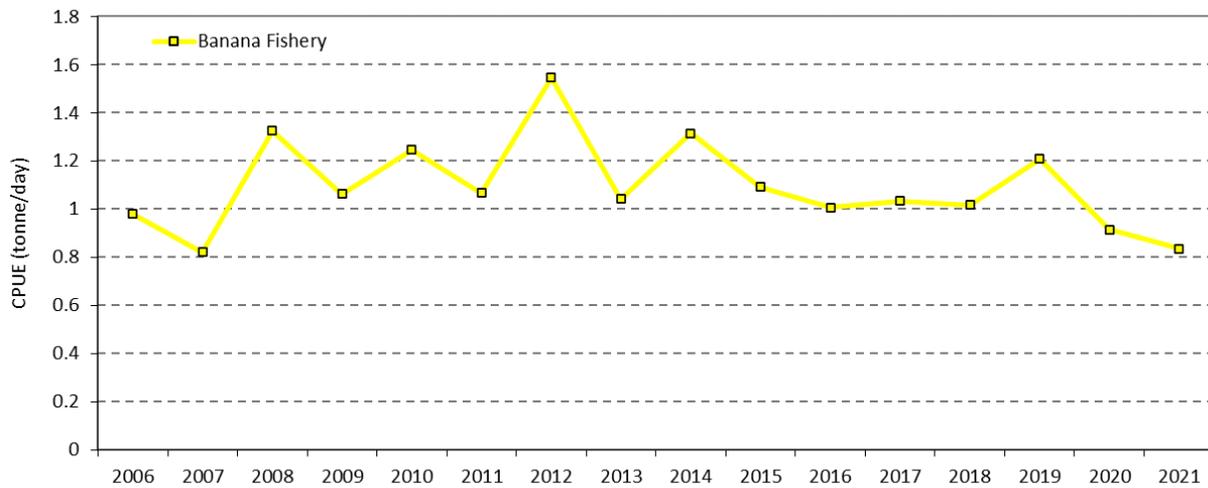


Figure 49b: Catch rate for the Banana Prawn fishery in the Port Essington area - 2006 to 2021.

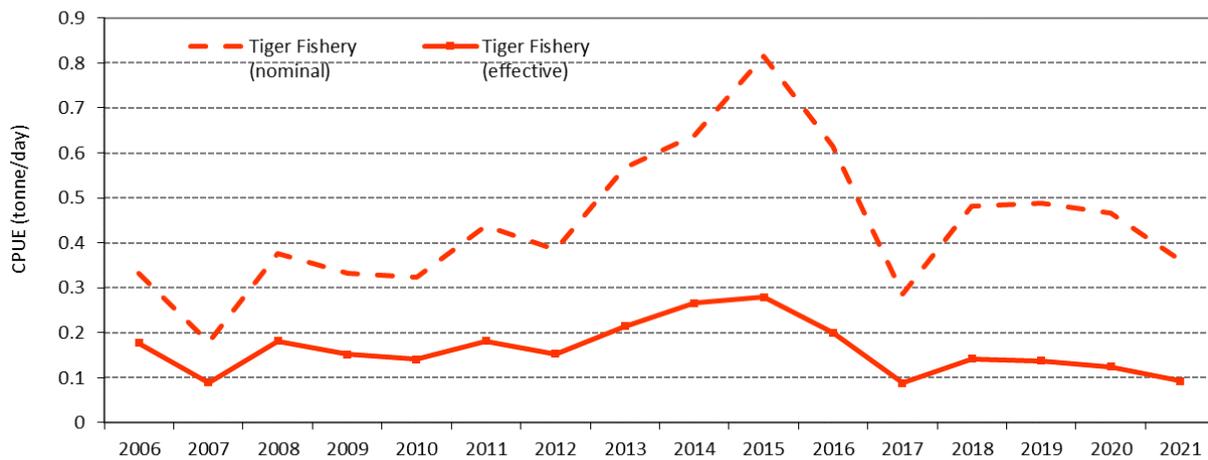


Figure 49c: Nominal and effective catch rate for the Tiger Prawn fishery in the Port Essington area - 2006 to 2021.

Melville

Banana Prawn catches in the Melville area increased from 239 t in 2020 to 353 t in 2021 (Figure 50). Catches of Tiger Prawns decreased from 124 t in 2020 to 79 t in 2021. Endeavour Prawn catches increased from 80 t in 2020 to 99 t in 2021. Banana Prawns comprised 66.5% of the catch in 2021, with Tiger Prawns comprising 14.4% of the catch and Endeavour Prawns 18.7% (Figure 51).

Effort in the Banana Prawn fishery increased from 266 days in 2020 to 353 days in 2021 (Figure 52a). CPUE for Banana Prawns increased from 0.94 t in 2020 to 1.02 t per day in 2021 (Figure 52b). Effort in the Tiger Prawn fishery decreased from 419 days in 2020 to 358 days in 2021 (Figure 52a). Nominal and effective CPUE for Tiger Prawns increased slightly from 0.46 and 0.12 t per day in 2020 to 0.47 t and 0.12 t per day in 2021 (Figure 52c).

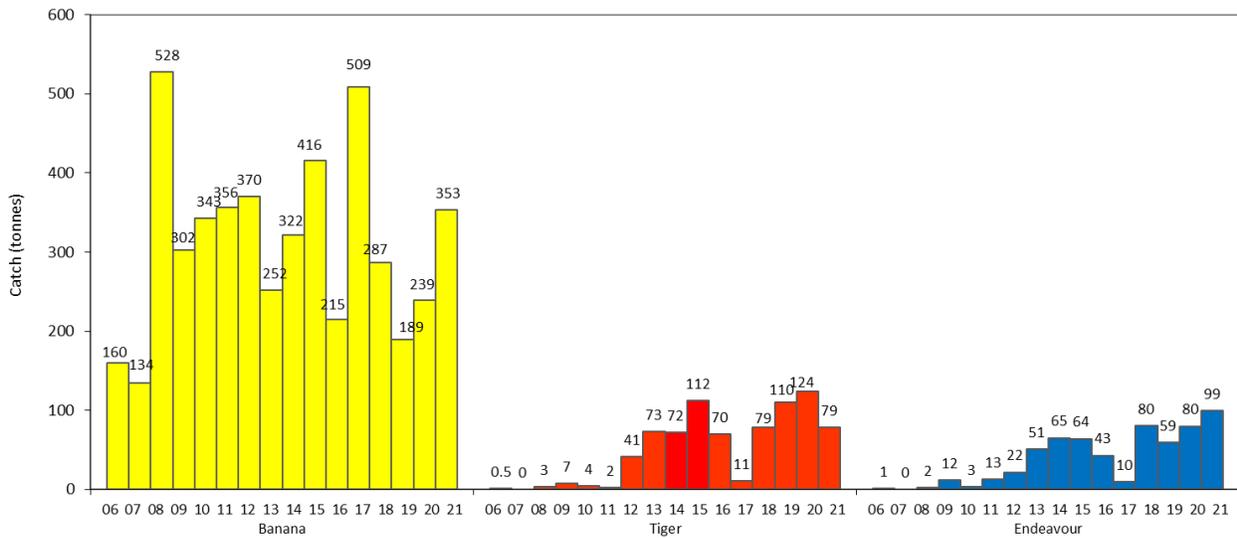


Figure 50: Catch by species in the Melville area - 2006 to 2021.

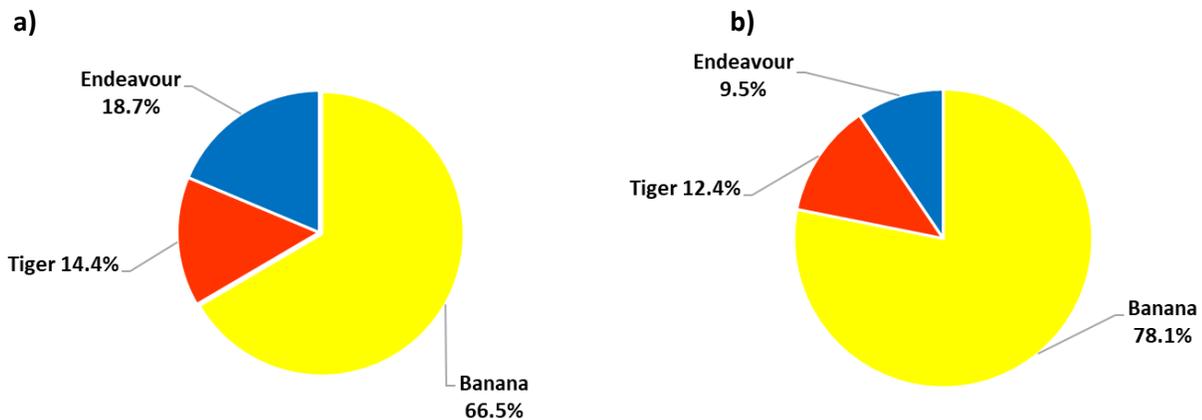


Figure 51: (a) Percentage catch of prawn species in the Melville area during 2020 and (b) percentage catch of prawn species in the Melville area - 2006 to 2021.

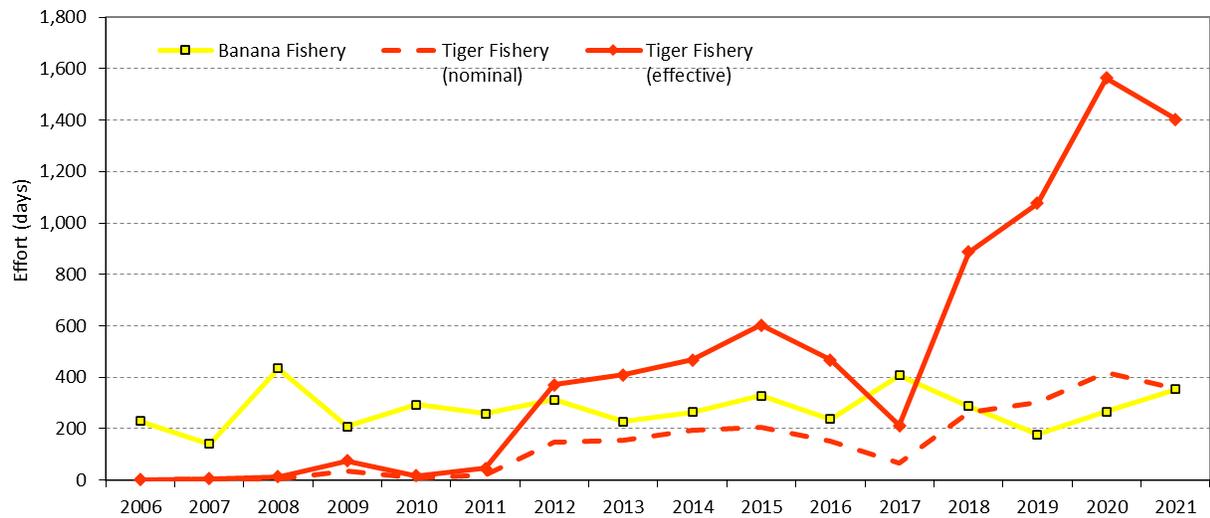


Figure 52a: Effort for the banana and Tiger Prawn fisheries in the Melville area - 2006 to 2021.

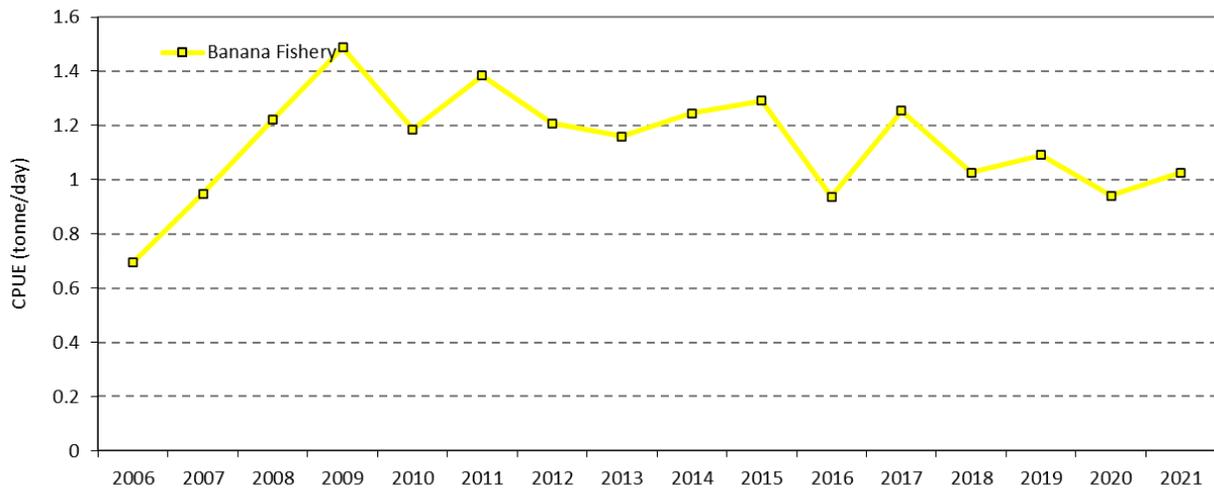


Figure 52b: Catch rate for the Banana Prawn fishery in the Melville area - 2006 to 2021.

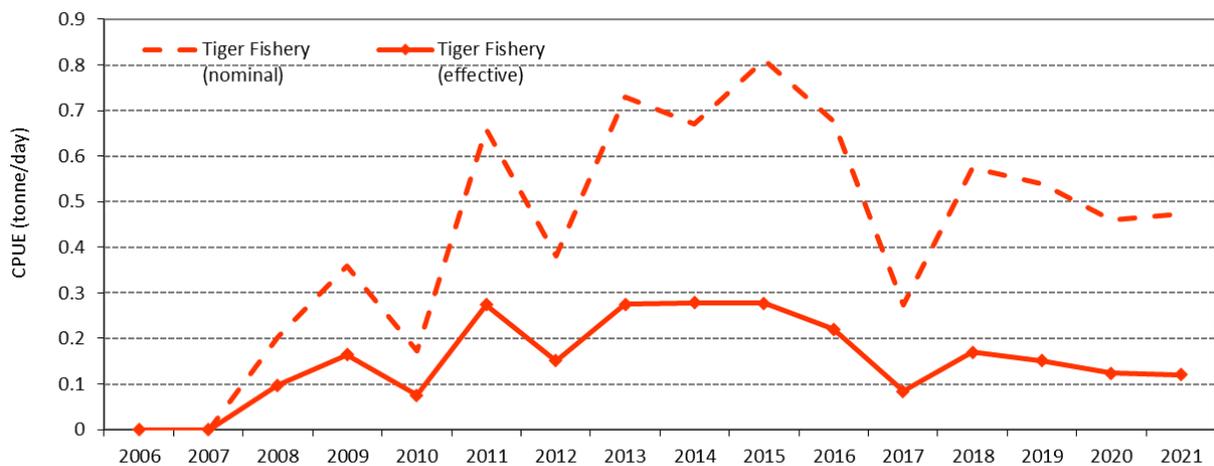


Figure 52c: Nominal and effective catch rate for the Tiger Prawn fishery in the Melville area - 2006 to 2021.

Fog Bay

Banana Prawn catches in the Fog Bay area decreased from 226 t in 2020 to 191 t in 2021 (Figure 53). Catches of Tiger Prawns decreased from 16 t in 2020 to 8 t in 2021, and Endeavour Prawn catch increased from 3 t in 2020 to 5 t in 2021. Banana Prawns comprised 93.9% of the catch taken during 2021 in this area, with the remainder comprising 3.7% Tiger Prawns and 2.4% Endeavour Prawns (Figure 54).

Effort in the Banana Prawn fishery decreased from 177 days in 2020 to 157 days in 2021 (Figure 55a). CPUE for Banana Prawns decreased from 1.27 t per day in 2020 to 1.20 t per day in 2021 (Figure 55b). Effort in the Tiger Prawn fishery in this area increased from 51 days in 2020 to 68 days in 2021 (Figure 55a). Nominal and effective CPUE for Tiger Prawns decreased from 0.39 and 0.11 t per day in 2020 to 0.21 and 0.05 t per day in 2021 (Figure 55c).

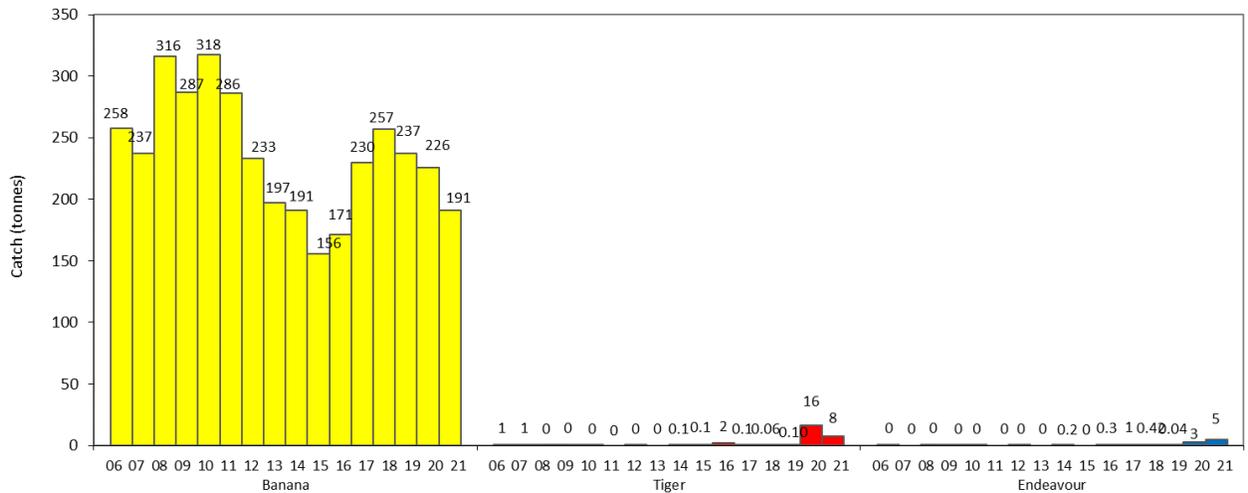


Figure 53: Catch by species in the Fog Bay area - 2006 to 2021.

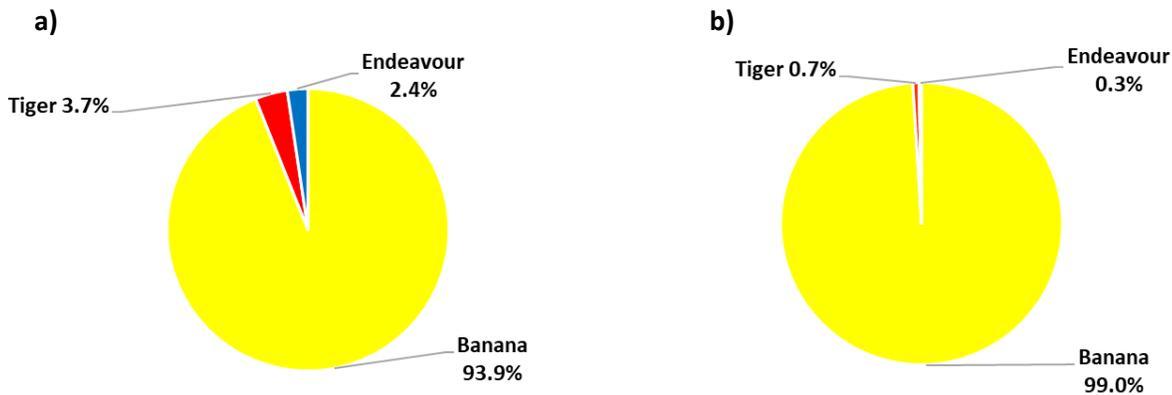


Figure 54: (a) Percentage catch of prawn species in the Fog Bay area during 2021 and (b) percentage catch of prawn species in the Fog Bay area - 2006 to 2021.

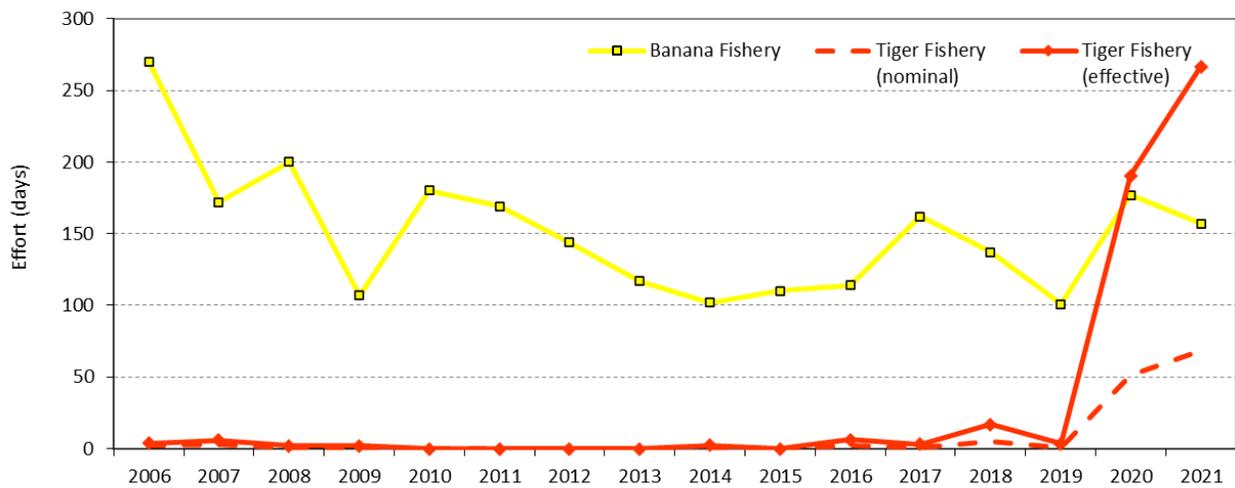


Figure 55a: Effort for the banana and Tiger Prawn fisheries in the Fog Bay area - 2006 to 2021.

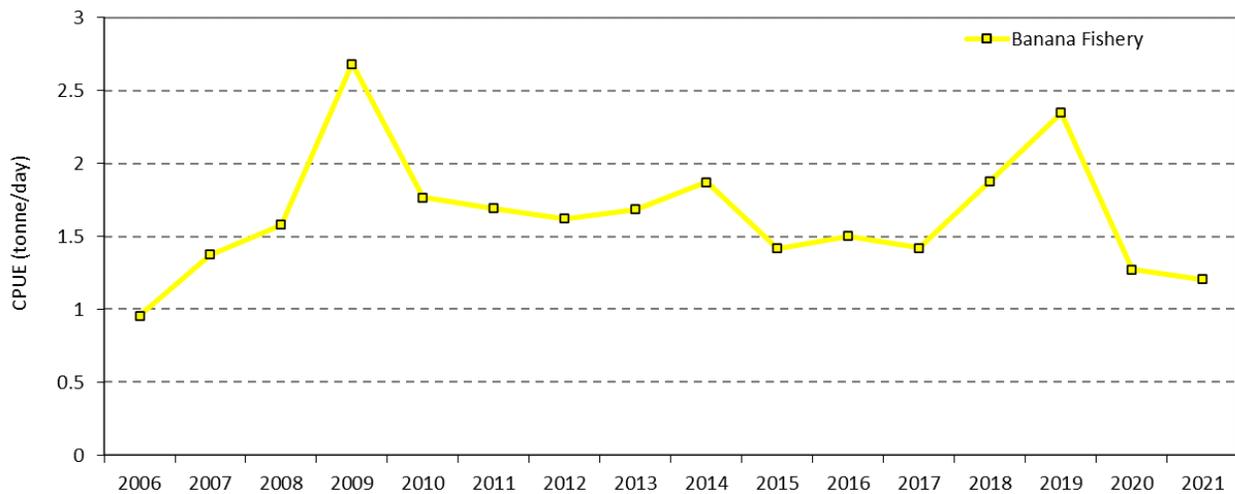


Figure 55b: Catch rate for the Banana Prawn fishery in the Fog Bay area - 2006 to 2021.

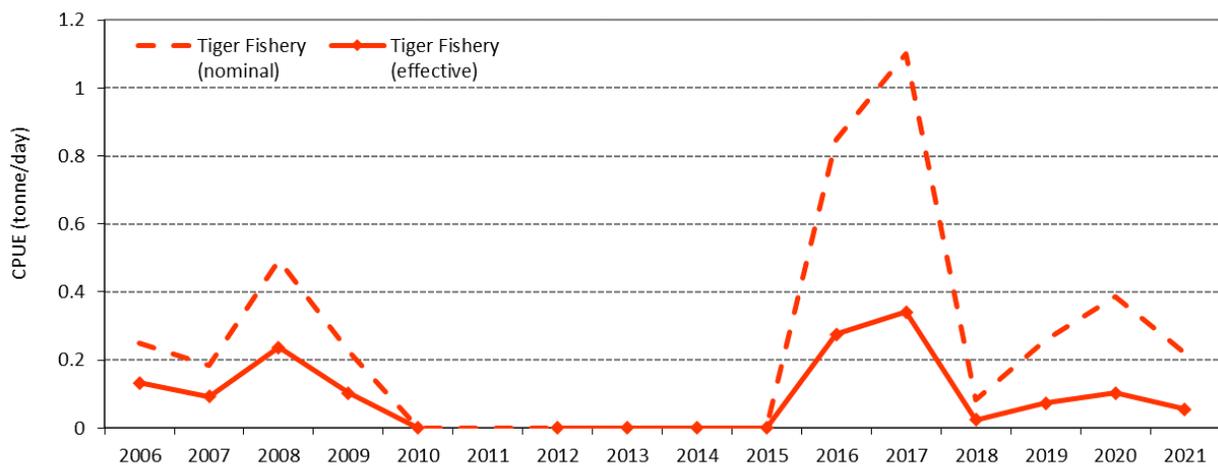


Figure 55c: Nominal and effective catch rate for the Tiger Prawn fishery in the Fog Bay area - 2006 to 2021.

Bonaparte

Banana Prawn catches in the Bonaparte area increased from 139 t in 2020 to 565 t in 2021 (Figure 56). Tiger Prawn catches decreased from 2 t taken in 2020 to 1 t in 2021. Endeavour Prawn catches increased from 2 t in 2020 to 17 t in 2021. Banana Prawns made up 96.9% of the catch for 2021 with Tiger Prawns making up 0.2% and Endeavour Prawns 2.9% (Figure 57).

Effort in the Banana Prawn fishery increased from 192 days in 2020 to 457 days in 2021 (Figure 58a). CPUE of Banana Prawns increased from 0.74 t per day in 2020 to 1.27 t per day in 2021 (Figure 58b). Effort in the Tiger Prawn fishery increased from 25 days in 2020 to 27 days in 2021 (Figure 58a). Nominal and effective CPUE of Tiger Prawns increased from 0.04 and 0.01 t per day in 2020 to 0.06 and 0.016 t per day in 2021 (Figure 58c).

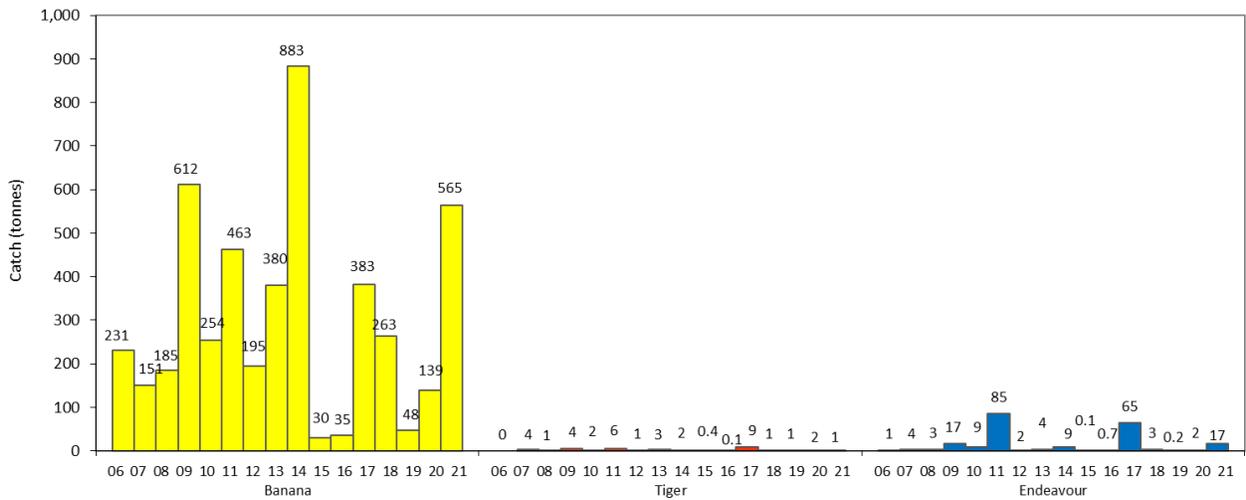


Figure 56: Catch by species in the Bonaparte area - 2006 to 2021.

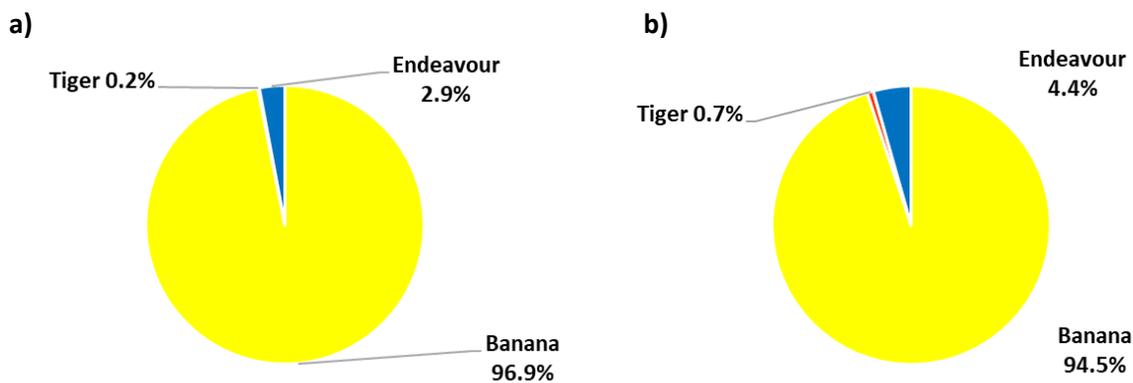


Figure 57: (a) Percentage catch of prawn species in the Bonaparte area during 2021, and (b) percentage catch of prawn species in the Bonaparte area - 2006 to 2021.

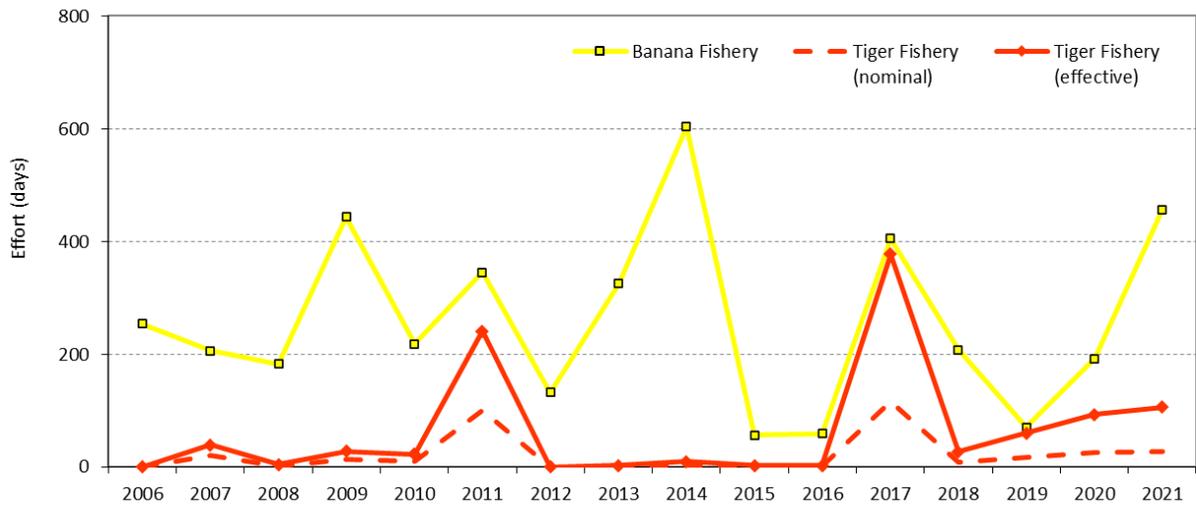


Figure 58a: Effort for the banana and Tiger Prawn fisheries in the Bonaparte area - 2006 to 2021.

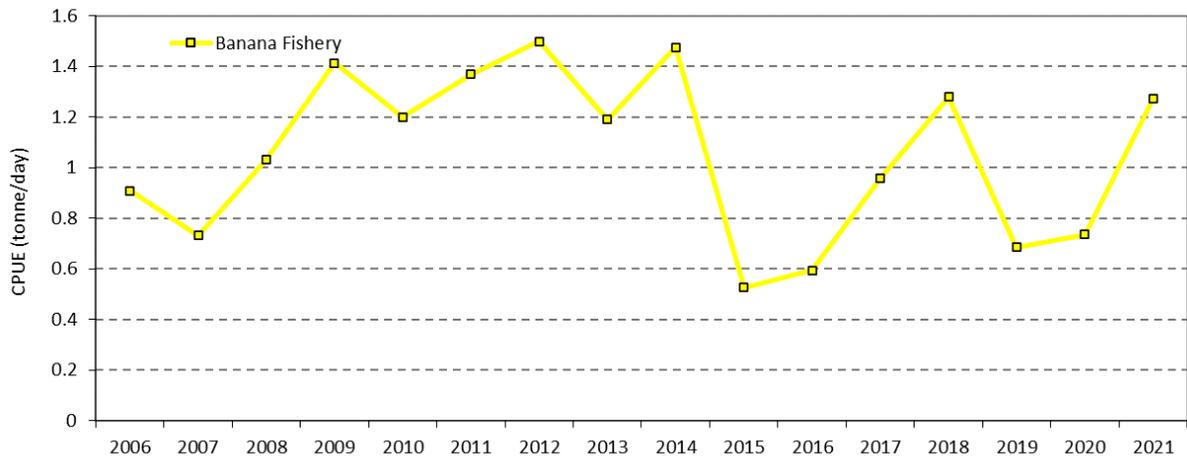


Figure 58b: Catch rate for the Banana Prawn fishery in the Bonaparte area - 2006 to 2021.

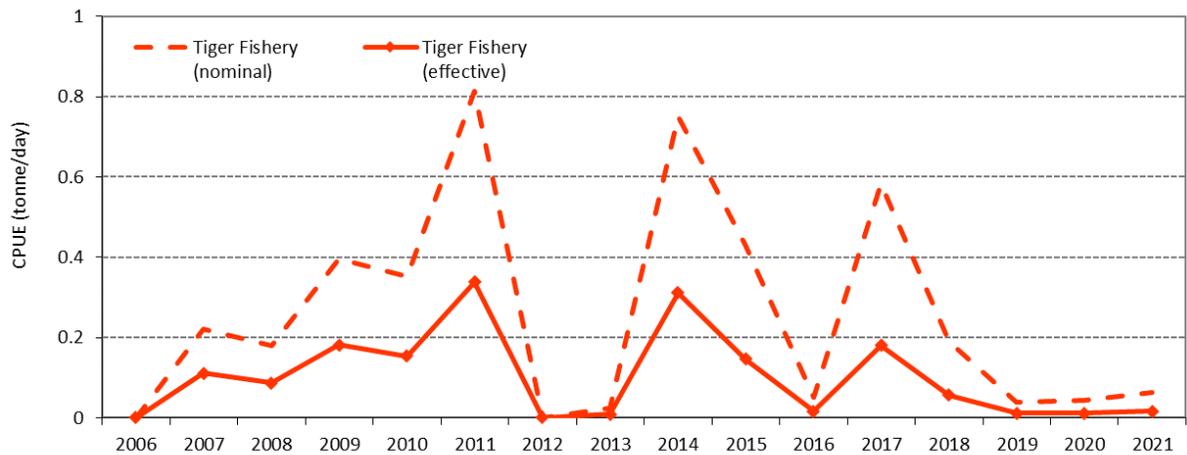


Figure 58c: Nominal and effective catch rate for the Tiger Prawn fishery in the Bonaparte area - 2006 to 2021.

Interactions with TEP species in the Northern Prawn Fishery

Turtle interactions

A total of 176 turtle interactions were reported in the NPF during 2021 (Table 5), an increase from 107 interactions in 2020. Green Turtles were the most numerous with 68 in 2021. The remaining interactions were with Turtles of unidentified species (49), Flatback Turtles (34), Loggerhead (9), Hawksbill (8), Olive Ridley (6) and Leatherback (2) (Figure 59). Of these, 176 turtles, 168 (95%) were released alive, 1 Flatback and 2 Unidentified turtles perished. Four unidentified turtles were released life status unknown as was 1 Green Turtle. Turtle interactions were highest in the Limmen Bight region (45) followed by the Groote and Sweers which both had 21 interactions recorded. Limmen Bight and Groote regions also experienced the most fishing effort during 2021 (Figure 60).

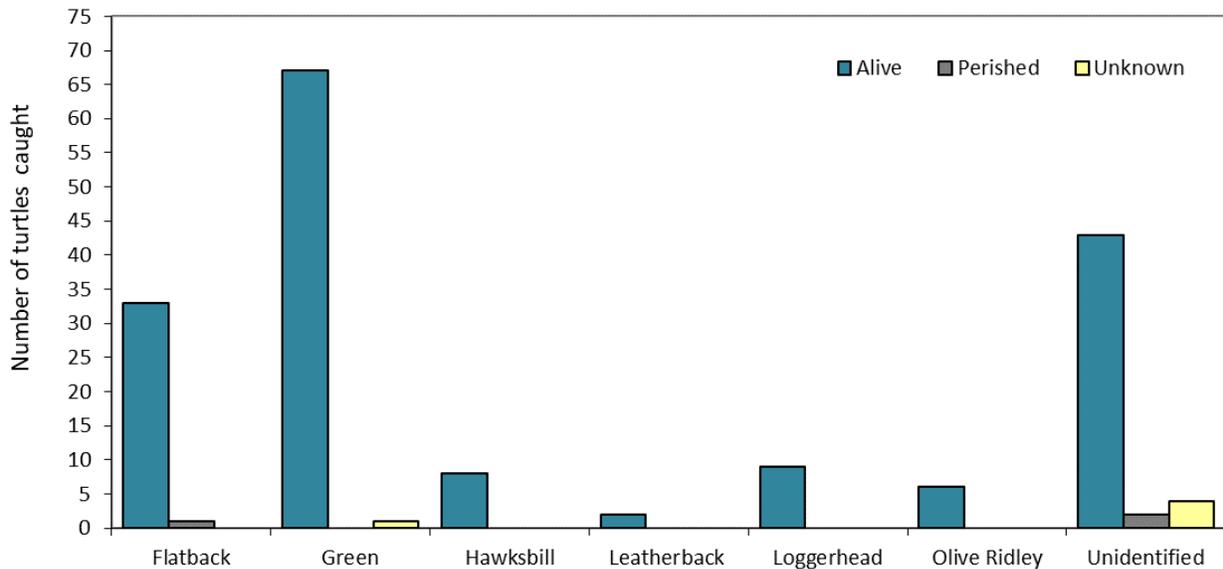


Figure 59: Turtle interactions by species and life status on release in the NPF in 2021.

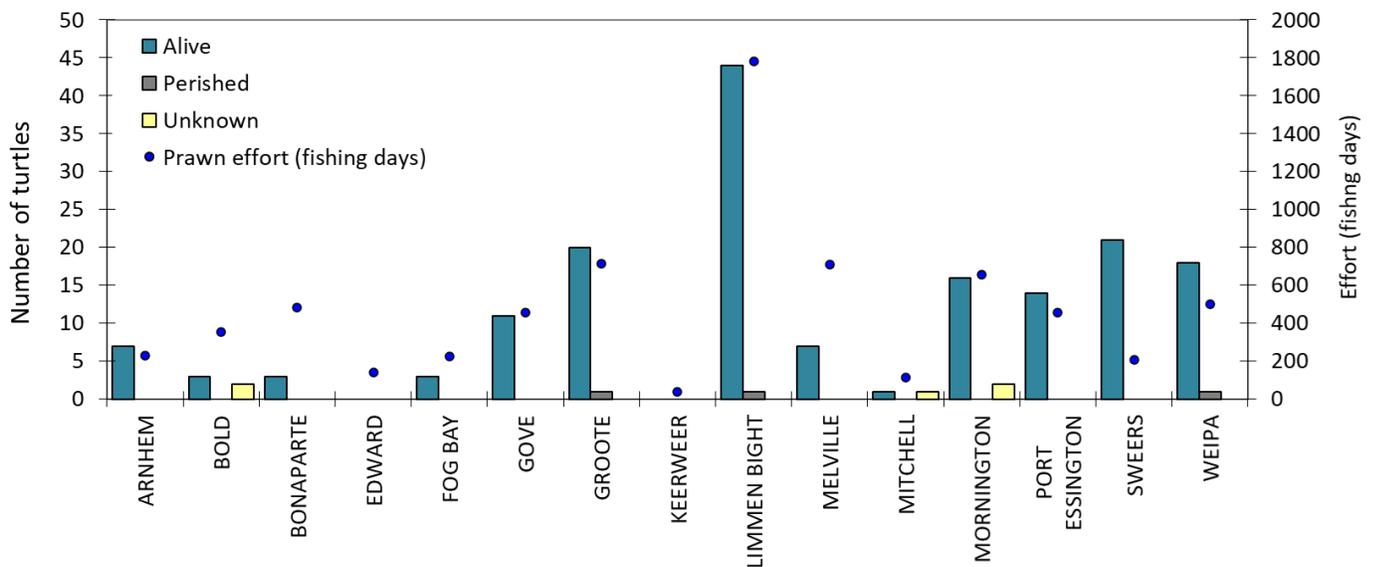


Figure 60: Turtle interactions by species, life status on release and total fishing effort by area in the NPF in 2021.

Table 5: Turtle interactions by species, for each area between 2017 and 2021.

Statistical Area	Turtle Species	Released Alive					Perished					Condition Unknown				
		17	18	19	20	21	17	18	19	20	21	17	18	19	20	21
ARNHEM	Flatback					2				1						
	Green			3	2	3										
	Hawksbill															
	Leatherback															
	Loggerhead					1					1					
	Pacific Ridley															
BOLD	Unidentified sp.		1		7	1										
	Flatback															
	Green			1		1										
	Hawksbill															
	Leatherback															
	Loggerhead															
BONAPARTE	Pacific Ridley															
	Unidentified sp.		1	2	2	2										2
	Flatback															
	Green					3										
	Hawksbill															
	Leatherback															
EDWARD	Loggerhead				1											
	Pacific Ridley															
	Unidentified sp.		2		1			1								
	Flatback															
	Green		1													
	Hawksbill															
FOG BAY	Leatherback															
	Loggerhead															
	Pacific Ridley															
	Unidentified sp.		1	1	4											
	Flatback					1										
	Green					1										
GOVE	Hawksbill					1										
	Leatherback															
	Loggerhead															
	Pacific Ridley					3										
	Unidentified sp.			1	14	5										
	Green		1		2	3										
GROOTE	Hawksbill															
	Leatherback															
	Loggerhead					1					1					
	Pacific Ridley					3										
	Unidentified sp.		13	17	8	16	6	2			1					
	Flatback		1		3	2										
LIMMEN BIGHT	Green			4	3	1					9					
	Hawksbill			1							2					
	Leatherback			1												
	Loggerhead			1							1					
	Pacific Ridley			2		1										
	Unidentified sp.		13	17	8	16	6	2			1					
LIMMEN BIGHT	Flatback			2							5				2	
	Green				6	3					24					
	Hawksbill															
	Leatherback															
	Loggerhead			1							4					
	Pacific Ridley		2	1	3	3	4									
LIMMEN BIGHT	Unidentified sp.		8	11	11	15	7	1								

Statistical Area	Turtle species	Released Alive					Perished					Condition Unknown				
		17	18	19	20	21	17	18	19	20	21	17	18	19	20	21
MELVILLE	Flatback					2										
	Green	2			2	2										
	Hawksbill															
	Leatherback															
	Loggerhead															
	Pacific Ridley															
	Unidentified sp	3	3	1	3	3										
MITCHELL	Flatback															
	Green		1			1										1
	Hawksbill															
	Leatherback															
	Loggerhead		1													
	Pacific Ridley															
	Unidentified sp			1					1							
MORNINGTON	Flatback	1	1			2										
	Green		2	6		4										
	Hawksbill					1										
	Leatherback															
	Loggerhead		1													
	Pacific Ridley	2			1	2										
	Unidentified sp	2	5	6	5	7		1								2
PORT ESSINGTON	Flatback					1										
	Green	1			2	6										
	Hawksbill			1												
	Leatherback					2										
	Loggerhead					2										
	Pacific Ridley															
	Unidentified sp	7	1		1	3										
SWEERS	Flatback				1	8										
	Green			1	5	6										
	Hawksbill					3										
	Leatherback															
	Loggerhead															
	Pacific Ridley															
	Unidentified sp		6	4	5	4										
WEIPA	Flatback		4	1		8										
	Green	1				4										
	Hawksbill															
	Leatherback															
	Loggerhead					1										
	Pacific Ridley			3												
	Unidentified sp	2	10	9		5			1		1					
TOTAL ALL AREAS	Flatback	2	7	1	5	33				1	1	2				
	Green	9	7	18	16	67										1
	Hawksbill	1		1		8										
	Leatherback	1				2										
	Loggerhead	2	2	1	1	9										
	Pacific Ridley	6	1	6	8	6										
	Unidentified species	39	57	44	76	43	1	4	2		2					4
GRAND TOTAL	ALL SPECIES	60	78	71	106	168	1	4	2	1	3	2	0	0	0	5

Sea snake interactions

A total of 13,862 sea snake interactions were recorded during 2021, an increase from 13,217 in 2020. The majority of sea snakes (11,356 individuals, representing 81.9% of the total) were released alive. 2,407 (17.3%) perished, and 44 were released injured (0.31%) (Table 6). Sea snake interactions were highest in the Limmen Bight (2,922 individuals), and lowest in the Keerweer area (20 individuals).

Table 6: Sea snake interactions and life status on release by area in the NPF in 2021.

Statistical area	Released alive	Perished	Released injured	Condition unknown	Total
ARNHEM	225	30			255
BOLD	539	62		1	602
BONAPARTE	833	176	2	9	1,020
EDWARD	249	34		2	285
FOG BAY	242	34		2	278
GOVE	316	102	5	7	430
GROOTE	2,040	252	6	17	2,315
KEERWEER	20	3			23
LIMMEN BIGHT	2,922	456	5	5	3,388
MELVILLE	1,948	810	6	1	2,765
MITCHELL	137	14			151
MORNINGTON	490	84			574
PORT ESSINGTON	627	131	20	1	779
SWEERS	291	36		5	332
WEIPA	477	183		5	665
Total	11,356	2,407	44	55	13,862

Sawfish Interactions

Reporting by NPF skippers of any interactions with sawfish has been steadily increasing over the past seven years (Figure 61). In 2021, reporting by NPF skippers increased overall, with 80% of skippers reporting interactions during Banana Prawn Season, and 88% of skippers reporting interactions during Tiger Prawn season.

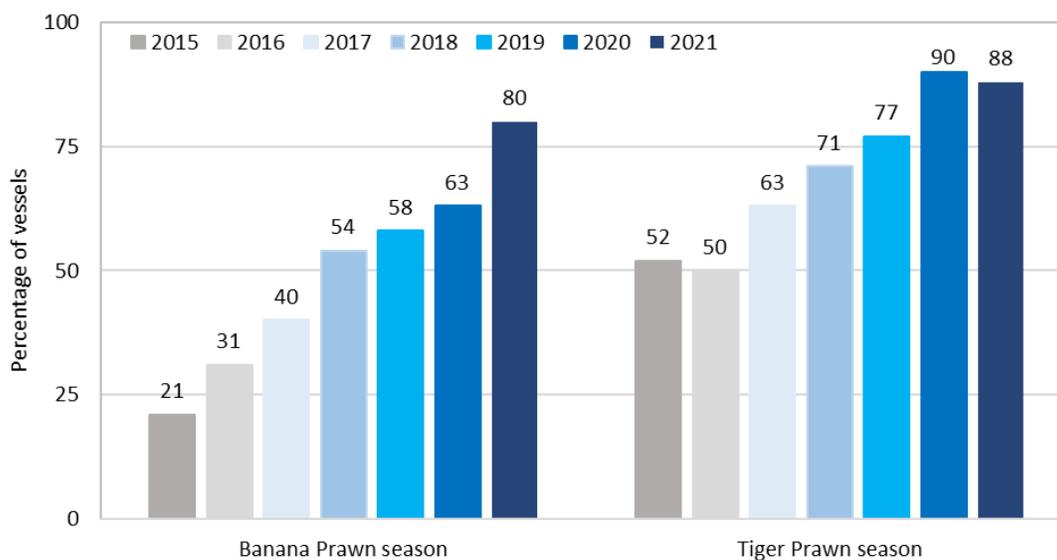


Figure 61: Percentage of NPF skippers reporting sawfish interactions from 2015 to 2021.

A total of 1,336 sawfish interactions were recorded during 2021, an increase from 1,234 in 2020 (Figure 62). There were 988 interactions with Narrow Sawfish, representing 73.9% of the total interactions. Unidentified interactions reduced significantly from 798 in 2020 to 185 (13.8%) in 2021. There were 81 Green Sawfish interactions (6.1%), 65 Freshwater Sawfish interactions (4.9%) and 17 Green Sawfish interactions (1.3%). Of the 1,336 animals caught in 2021, 779 individuals (58%) were released alive.

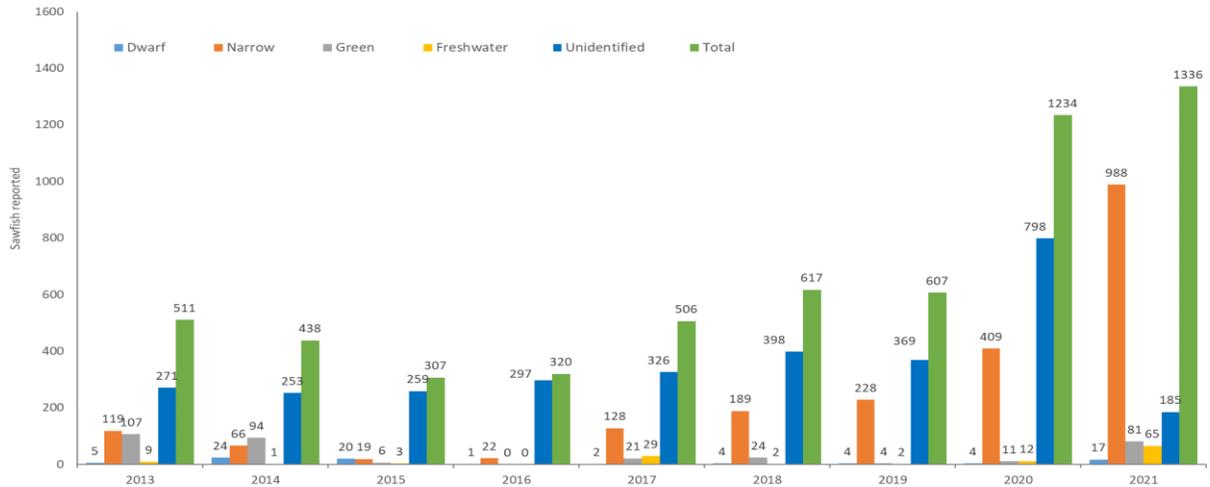


Figure 62: Sawfish interactions in the NPF by species from 2013 to 2021.

Sawfish interactions were highest in the Melville area (317 individuals) (Figure 63). The Sweeters area had the lowest number of interactions, with 8.

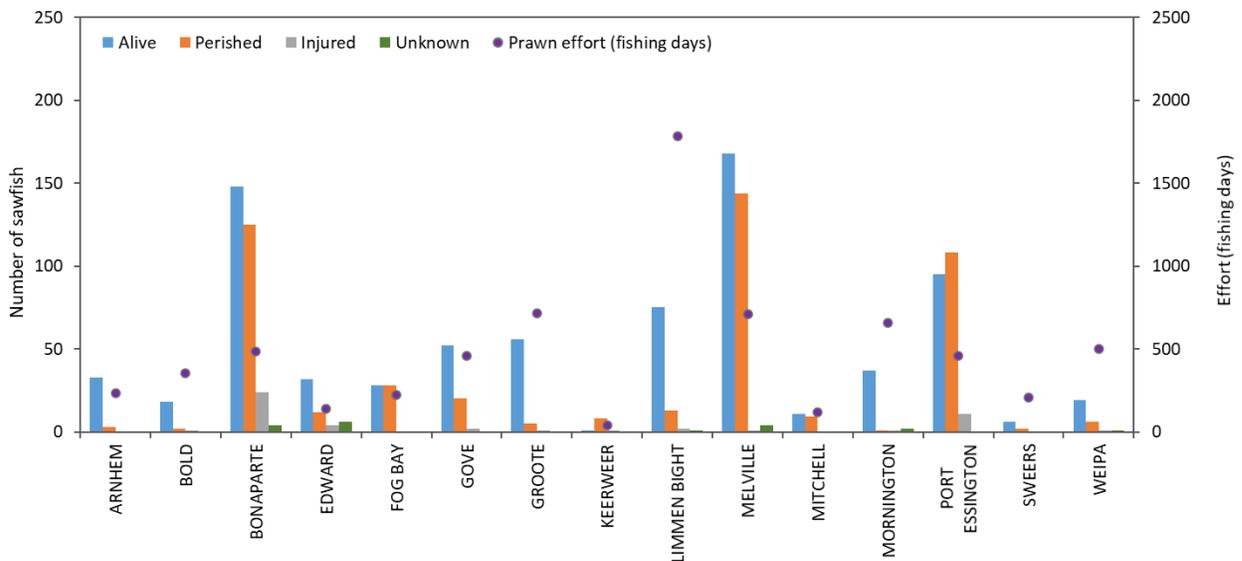


Figure 63: Sawfish interactions, life status on release and total fishing effort in the NPF by area in 2021.

Syngnathid Interactions

A total of 10 Syngnathid (seahorse and pipefish) interactions were recorded during 2021 (Table 7). Of these, 4 (40%) were released alive and 6 (60%) perished. Syngnathid interactions were highest in the Port Essington area with 6 interactions recorded.

Table 7: Syngnathid interactions by area in the NPF in 2021.

Statistical area	Released alive	Perished	Released injured	Condition unknown	Total
ARNHEM					
BOLD		1			1
BONAPARTE					
EDWARD					
FOG BAY					
GOVE					
GROOTE					
KEERWEER					
LIMMEN BIGHT					
MELVILLE		1			1
MITCHELL					
MORNINGTON					
PORT ESSINGTON	2	4			6
SWEERS	1				1
WEIPA	1				1
Total	4	6			10

Crew Member Observer and Scientific Observer coverage

Threatened, Endangered and Protected (TEP) species interaction data is collected through three main sources in the Northern Prawn Fishery, those being: 1) Fishery Logbooks TEP Interaction sheets; 2) Crew Member Observer records; and 3) AFMA Scientific Observer programs. All of these programs form an integrated approach to understanding the fishery interactions with TEP species. Fishery Logbook reporting is mandatory and data is collected from every boat throughout the whole season, i.e. wide spatial and temporal coverage. In comparison, the Crew Member Observer reporting has a coverage of 15-20% and AFMA scientific observer has coverage of < 3%. The time and position of the coverage of these methods can differ considerably. Their advantage, however, is that there is likely to be better identification of species and the circumstances of the interactions that may not be captured in the logbook data. Subject to operational deployment issues, the fishing regions, time within fishing seasons and trip durations of Crew Member Observer and AFMA Scientific Observer trips can vary considerably. The implications of this is that unstandardised evaluation of TEP interactions may not be comparable between the three different methods of monitoring.

Tables 8 and 9 and Figure 63 provide a comparison of recorded interactions with TEP species within the Crew Member Observer (CMO), Scientific Observer (SO) and logbook datasets and the level of monitoring between the CMO and SO programs.

The number of fishing days from logbook returns decreased from 7,230 in 2020 to 7,108 (Table 8). The number of days observed by CMOs increased from 1,028 in 2020 to 1,099 in 2021. which was 15.4% of the fishing days in 2021 (Figure 64). The number of days observed by Scientific Observers remained the same at 83 which is 1.1% of the fishing days in 2021 (Figures 63 and 64).

Table 8: Comparison of TEP species interactions reported by Scientific Observers, CMOs and in logbooks in the NPF in 2021.

	Vessel Returns	Fishing Days*	Total Sawfish	Total Turtles	Total Sea Snakes	Total Syngnathids	Dolphins	Birds
Logbook Returns	52	7,108	1336	176	13,897	10	2	0
Crew Member Observers	12	1,099	235	33	1,797	118	0	0
Scientific Observers**	3	83	21	1	247	4	1	1

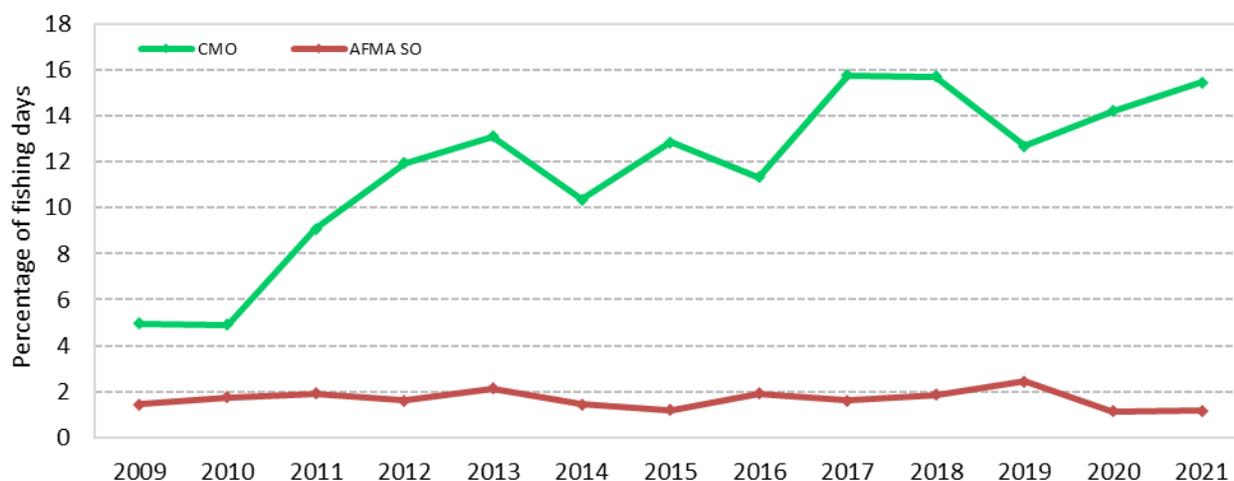


Figure 64: Percentage of fishing days monitored by Scientific Observers and Crew Member Observers in the NPF – 2009 to 2021.

The frequency of sawfish interactions in 2021 was slightly higher in the Scientific Observer dataset (0.253) than in the CMO dataset (0.214) followed by the logbook dataset (0.188) (Table 9). Turtles were reported more frequently in the CMO dataset (0.030) followed by the logbook dataset (0.025) then Scientific Observers (0.012). The frequency of sea snake interactions per fishing day was highest in the Observer dataset (2.976) compared to the logbook dataset (1.955) and the CMO dataset (1.635). The frequency of syngnathid interactions was also highest in the CMO dataset (0.107) compared to the Scientific Observer dataset (0.048) and logbook dataset (0.001) (Table 9).

Table 9: Comparison of TEP species interactions reported by Scientific Observers, CMOs and in logbooks per boat day during 2021 in the NPF.

Monitoring Program	Sawfish per Fishing Day	Turtles per Fishing Day	Sea Snakes per Fishing Day	Syngnathids per Fishing Day
Logbook Returns	0.188	0.025	1.955	0.001
Crew Member Observers	0.214	0.030	1.635	0.107
Scientific Observers*	0.253	0.012	2.976	0.048

State or Territory specific data

Total prawn catch in Queensland (QLD) waters of the NPF decreased from 3,043 t in 2019/20 to 2,095 t in 2020/21 (Table 10a). In the Northern Territory (NT), prawn catches increased from 2,501 t in 2019/20 to 2,557 t in 2020/21 (Table 10b). Total prawn catch in Western Australia (WA) decreased from 110 t in 2019/20 to 39 t in 2020/21 (Table 10c).

Banana Prawn catch decreased in QLD from 2,051 t in 2019/20 to 1,825 t in 2020/21. Banana Prawn catch increased in the NT from 730 t in 2019/20 to 1,119 t in 2020/21 (Table 10). Banana Prawn catch decreased in WA from 108 t in 2019/20 to 37 t in 2020/21.

Tiger Prawn catches decreased in QLD from 621 t in 2019/20 to 196 t in 2020/21. Tiger Prawn catches in the NT decreased from 1,442 t in 2019/20 to 1,146 t in 2020/21. There was 1 t of Tiger Prawns caught in WA in 2019/20 and 2020/21.

Catches of Endeavour Prawns decreased in QLD from 341 t in 2019/20 to 69 t in 2020/21 and also decreased in NT from 315 t in 2019/20 to 288 t in 2020/21. In WA, Endeavour Prawn catch remained at 1t for 2020/21.

King Prawn catches decreased in QLD from 30 t in 2019/20 to 4t in 2020/21. In the NT catches reduced from 15 t in 2019/20 to 4 t in 2020/21. No King Prawn was caught in WA.

Table 10: Prawn catch for a) Queensland, b) Northern Territory and c) Western Australia for the 2006/07 to 2020/21 financial years.

a) Queensland

Financial Year	Banana (t)	Tiger (t)	Endeavour (t)	King (t)	Total Catch (t)
2006/07	1,839	195	47	8	2,089
2007/08	3,587	126	32	8	3,753
2008/09	3,917	202	88	0	4,207
2009/10	2,968	473	143	0	3,584
2010/11	5,454	279	88	1	5,822
2011/12	3,198	368	179	1	3,746
2012/13	1,867	575	299	3	2,744
2013/14	3,454	347	216	0	4,017
2014/15	2,372	495	258	6	3,131
2015/16	2,010	696	143	30	2,878
2016/17	2,604	503	105	22	3,234
2017/18	3,386	220	103	4	3,712
2018/19	4,765	293	163	6	5,227
2019/20	2,051	621	341	30	3,043
2020/21	1,825	196	69	4	2,095

b) Northern Territory

<i>Financial Year</i>	<i>Banana (t)</i>	<i>Tiger (t)</i>	<i>Endeavour (t)</i>	<i>King (t)</i>	<i>Total Catch (t)</i>
2006/07	783	1,635	308	20	2,746
2007/08	1,550	1,100	164	12	2,826
2008/09	1,288	809	121	0	2,218
2009/10	2,229	788	189	0	3,207
2010/11	1,738	1,337	325	0	3,401
2011/12	1,544	490	228	0	1,230
2012/13	867	775	199	0	1,841
2013/14	1,792	1,676	266	0	3,734
2014/15	1,664	1,204	384	3	3,255
2015/16	839	2,556	398	3	3,796
2016/17	2,070	1,496	263	3	3,832
2017/18	1,107	858	220	2	2,187
2018/19	782	1,185	322	3	2,292
2019/20	730	1,442	315	15	2,501
2020/21	1,119	1,146	288	4	2,557

c) Western Australia

<i>Financial Year</i>	<i>Banana (t)</i>	<i>Tiger (t)</i>	<i>Endeavour (t)</i>	<i>King (t)</i>	<i>Total Catch (t)</i>
2006/07	108	0	1	0	109
2007/08	151	5	4	0	160
2008/09	287	1	3	0	291
2009/10	616	10	19	0	645
2010/11	371	2	9	0	383
2011/12	4,426	52	5	0	4,484
2012/13	420	3	3	0	426
2013/14	526	1	4	0	531
2014/15	519	1	8	0	528
2015/16	23	1	1	0	25
2016/17	83	0	1	0	84
2017/18	461	9	65	0	535
2018/19	163	1	3	0	167
2019/20	108	1	1	0	110
2020/21	37	1	1	0	39

Retained Byproduct in the Northern Prawn Fishery by State or Territory waters

Total byproduct retained in the NPF by State or Territory in 2021 was 304,359 kg (Table 11). The highest retained byproduct level was observed in NT waters (179,028 kg) and the lowest in WA waters (457 kg). Squid was the largest component of byproduct catches, with 233,984 kg retained. (Table 11). The reported Scampi catch is for calendar year. A 30t catch limit applies from 1 December to 30 November each year.

Table 11: Retained byproduct in the NPF by State/Territory in 2021 (kilograms).

Species	NT	QLD	WA	Total
Scampi	19,260			19,260
Bugs - Shovel nosed and slipper lobsters	1,266	1,996		3,262
Champagne lobster - Spear lobster	760			760
Cuttlefishes	4,366	1,256	250	5,872
Goldband snappers	45			45
Moreton Bay bugs	26,110	14,448	92	40,650
Octopuses		74		74
Pomfret	169	156		325
Scallops	9			9
Spiny lobsters - Mixed crayfish	18		100	118
Squids	127,025	106,944	15	233,984
Grand Total	179,028	124,874	457	304,359

References

Ma, K. Y., Chan, T. -Y & Chu, K. H. (2011). *Refuting the six-genus classification of Penaeus s.l. (Dendrobranchiata, Penaeidae): a combined analysis of mitochondrial and nuclear genes.* — Zoologica Scripta, 40, 498–508.

Appendix 1 Historical Catch and Effort by Area

Table 12: Weipa

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana Fishery	Tiger Fishery	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)
1994	208	201	49	230	228	455	1164	1222	0.504	0.196	0.187
1995	596	198	174	591	377	443	1396	1539	1.335	0.270	0.245
1996	1073	137	207	1072	345	676	1830	2118	1.585	0.188	0.163
1997	696	252	273	699	523	519	1844	2241	1.346	0.284	0.233
1998	165	46	13	165	59	233	388	495	0.709	0.151	0.119
1999	359	25	5	359	30	268	237	318	1.341	0.126	0.094
2000	36	154	147	37	301	170	1134	1596	0.218	0.265	0.188
2001	63	48	61	64	111	105	475	702	0.606	0.234	0.158
2002	42	12	12	42	24	64	127	197	0.661	0.186	0.120
2003	3	0	0	3	0	28	6	10	0.100	0.081	0.050
2004	138	0	0	138	0	120	3	5	1.147	0.024	0.014
2005	29	1	0	30	0	75	5	9	0.395	0.025	0.014
2006	391	6	2	391	6	342	53	100	1.143	0.113	0.060
2007	230	1	0	230	1	201	12	24	1.144	0.083	0.042
2008	833	28	22	833	51	374	208	432	2.226	0.244	0.117
2009	455	62	43	455	106	245	350	764	1.859	0.302	0.138
2010	280	44	25	280	69	173	194	445	1.619	0.355	0.155
2011	730	114	82	729	197	262	642	1545	2.784	0.306	0.127
2012	486	94	166	485	261	200	708	1789	2.426	0.369	0.146
2013	226	57	60	226	117	108	258	685	2.096	0.452	0.170
2014	338	138	160	338	298	136	559	1557	2.485	0.533	0.201
2015	394	92	28	394	120	178	298	872	2.213	0.403	0.138
2016	131	18	12	131	30	122	101	310	1.077	0.297	0.097
2017	274	101	82	273	185	110	603	1945	2.480	0.306	0.095
2018	594	107	102	592	211	275	621	2103	2.154	0.340	0.100
2019	513	74	70	514	144	240	340	1209	2.140	0.423	0.119
2020	170	49	21	170	70	89	280	1045	1.910	0.250	0.067
2021	199	57	37	199	95	123	379	1486	1.615	0.250	0.064

Table 13: Keerweer

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana Fishery	Tiger Fishery	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)
1994	76	3	0	76	3	202	23	24	0.376	0.134	0.127
1995	107	2	0	108	1	123	8	9	0.874	0.100	0.090
1996	184	162	115	177	285	297	1097	1270	0.595	0.260	0.225
1997	123	88	18	119	113	164	463	563	0.726	0.244	0.201
1998	107	1	0	107	2	145	15	19	0.740	0.103	0.081
1999	114	6	1	114	7	150	40	54	0.761	0.176	0.131
2000	18	0	0	18	0	65	2	3	0.281	0.146	0.103
2001	77	0	0	77	0	88	2	3	0.878	0.075	0.050
2002	311	0	0	311	0	229	5	8	1.356	0.067	0.043
2003	6	0	0	6	0	35	3	5	0.168	0.042	0.026
2004	77	0	0	77	0	125	0	0	0.616	0.000	0.000
2005	78	0	0	78	0	85	1	2	0.917	0.010	0.006
2006	53	1	0	53	1	61	9	17	0.862	0.072	0.038
2007	115	0	0	115	0	125	0	0	0.916	0.000	0.000
2008	259	0	0	259	0	122	0	0	2.124	0.000	0.000
2009	258	0	0	258	0	142	2	4	1.818	0.082	0.038
2010	89	0	0	89	0	75	2	5	1.190	0.010	0.004
2011	230	0	0	230	0	82	2	5	2.811	0.175	0.073
2012	286	1	0	286	0	135	3	8	2.119	0.102	0.040
2013	98	0	0	99	0	78	1	3	1.263	0.130	0.049
2014	139	2	0	139	1	83	3	8	1.675	0.333	0.126
2015	204	1	2	204	3	82	5	15	2.488	0.600	0.226
2016	100	0	1	100	1	62	1	3	1.612	0.590	0.192
2017	26	0.1	0.2	26	0.3	24	1	3	1.085	0.300	0.093
2018	208	2	0	209	1	89	6	20	2.343	0.225	0.067
2019	481	3	1	481	4	207	12	43	2.323	0.310	0.087
2020	87	0	0	87	0	66	1	4	1.318	0.027	0.007
2021	45	3	0	45	3	37	2	8	1.228	1.326	0.338

Table 14: Edward

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana Fishery	Tiger Fishery	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)
1994	161	1	0	161	1	335	6	6	0.481	0.134	0.127
1995	245	0	0	245	0	179	3	3	1.369	0.070	0.063
1996	248	1	0	248	1	253	4	5	0.979	0.179	0.154
1997	148	0	0	148		178	0	0	0.833	0.000	0.000
1998	317	0	0	317	0	276	4	5	1.148	0.032	0.025
1999	412	0	0	412		403	0	0	1.022	0.000	0.000
2000	27	0	0	27		117	0	0	0.233	0.000	0.000
2001	120	0	0	121	0	129	1	1	0.936	0.066	0.045
2002	399	0	0	399		244	0	0	1.635	0.000	0.000
2003	142	0	0	142		182	0	0	0.779	0.000	0.000
2004	151	0	0	151	0	162	0	0	0.932	0.000	0.000
2005	411	0	0	411	0	330	0	0	1.244	0.000	0.000
2006	134	0	0	134	0	186	0	0	0.721	0.000	0.000
2007	313	0	0	313	0	285	1	2	1.098	0.048	0.024
2008	612	0	0	612	0	295	0	0	2.074	0.000	0.000
2009	450	2	0	450	2	198	15	33	2.274	0.156	0.071
2010	426	0	0	426	0	228	3	7	1.869	0.112	0.049
2011	521	2	0	523	0	178	2	5	2.935	0.105	0.044
2012	634	6	1	634	7	297	19	48	2.135	0.374	0.148
2013	168	0	0	168	0	125	1	3	1.344	0.062	0.023
2014	250	0	0	250	0	128	0	0	1.953	0.000	0.000
2015	215	0	0	215	0	113	1	3	1.903	0.100	0.034
2016	306	0	0	306	0	167	0	0	1.833	0	0
2017	178	0.02	0	178	0.02	105	0	0	1.698	0	0
2018	814	1	0	815	0	366	0	0	2.227	0	0
2019	851	0.36	0	852	0	325	0	0	2.623	0	0
2020	272	0.02	0	272	0	149	0	0	1.826	0	0
2021	319	0.00	0	319	0	139	0	0	2.292	0	0

Table 15: Mitchell

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana Fishery	Tiger Fishery	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)
1994	180	2	0	180	2	406	3	3	0.442	0.708	0.675
1995	433	0	0	433	0	308	0	0	1.406	0.000	0.000
1996	433	0	0	433	0	468	1	1	0.926	0.135	0.117
1997	274	0	0	274	0	289	0	0	0.949	0.000	0.000
1998	188	2	0	188	2	244	7	9	0.772	0.305	0.239
1999	246	0	0	246	0	268	0	0	0.918	0.000	0.000
2000	100	0	0	100	0	178	1	1	0.563	0.090	0.064
2001	256	0	0	257	0	300	0	0	0.856	0.000	0.000
2002	601	1	0	601	1	363	7	11	1.657	0.131	0.084
2003	325	0	0	325	0	377	0	0	0.862	0.000	0.000
2004	455	0	0	455	0	500	1	2	0.911	0.077	0.045
2005	306	0	0	306	0	296	0	0	1.034	0.000	0.000
2006	71	0	0	71	0	147	0	0	0.483	0.000	0.000
2007	455	0	0	455	0	301	0	0	1.512	0.000	0.000
2008	380	0	0	380	0	192	3	6	1.980	0.142	0.068
2009	282	0	0	282	0	160	1	2	1.761	0.010	0.005
2010	285	0	0	285	0	147	0	0	1.940	0.000	0.000
2011	288	0	0	288	0	107	0	0	2.695	0.000	0.000
2012	326	0	0	326	0	169	1	3	1.932	0.243	0.096
2013	566	0	0	567	0	200	0	0	2.833	0.000	0.000
2014	528	0	0	528	0	210	0	0	2.514	0.000	0.000
2015	480	0	0	480	0	131	0	0	3.664	0.000	0.000
2016	349	0	0	349	0	138	0	0	2.532	0	0
2017	205	0.3	0.5	205	1	87	4	13	2.353	199	0.062
2018	471	0	0	471	1	192	2	7	2.454	0	0
2019	645	1	1	645	1	233	2	7	2.768	0	0
2020	248	1	0	248	0	110	0	0	2.258	0	0
2021	211	0	0	211	0	116	0	0	1.818	0	0

Table 16: Bold

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana Fishery	Tiger Fishery	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)
	1994	244	115	22	241	143	542	553	581	0.444	0.258
1995	646	416	89	643	516	571	1187	1309	1.127	0.435	0.394
1996	393	86	24	393	112	429	457	529	0.917	0.246	0.212
1997	570	53	49	570	102	332	274	333	1.716	0.373	0.307
1998	574	104	22	579	125	628	460	587	0.922	0.271	0.213
1999	325	35	12	324	48	413	227	304	0.786	0.213	0.159
2000	289	20	1	287	23	349	161	227	0.823	0.145	0.103
2001	1736	11	16	1739	26	912	91	134	1.907	0.286	0.193
2002	1612	32	2	1614	32	788	172	267	2.048	0.183	0.118
2003	609	5	0	610	5	480	37	60	1.271	0.141	0.087
2004	649	2	0	649	3	392	15	26	1.654	0.183	0.107
2005	643	15	2	643	15	417	79	142	1.542	0.186	0.104
2006	479	4	0	479	4	378	22	41	1.268	0.202	0.107
2007	439	33	7	439	33	297	129	255	1.477	0.256	0.129
2008	1304	84	33	1302	120	489	327	680	2.662	0.366	0.176
2009	1614	52	41	1614	94	531	168	367	3.040	0.559	0.256
2010	1097	45	16	1094	64	442	87	199	2.475	0.739	0.323
2011	2451	46	20	2451	66	611	173	416	4.011	0.381	0.158
2012	912	110	45	905	162	368	347	877	2.459	0.466	0.185
2013	545	191	54	541	250	278	539	1430	1.946	0.464	0.175
2014	1445	42	21	1442	67	518	131	365	2.784	0.511	0.184
2015	742	55	9	742	55	271	112	328	2.738	0.491	0.168
2016	743	62	2	744	64	373	168	516	1.994	0.384	0.125
2017	757	8	0.4	757	9	229	34	110	3.306	0.265	0.082
2018	693	17	5	693	22	268	75	254	2.587	0.295	0.087
2019	1615	101	47	1606	160	444	260	924	3.616	0.616	0.173
2020	855	18	9	855	27	300	86	321	2.849	0.320	0.086
2021	760	12	6	760	19	279	76	298	2.724	0.245	0.062

Table 17: Sweers

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana Fishery	Tiger Fishery	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)
	1994	16	49	33	17	82	95	288	302	0.178	0.286
1995	336	357	126	331	498	213	1249	1377	1.553	0.398	0.361
1996	162	167	146	161	316	147	980	1134	1.097	0.323	0.279
1997	127	145	104	127	251	101	713	867	1.257	0.352	0.290
1998	473	41	60	486	88	532	305	389	0.914	0.290	0.227
1999	0	1	0	0	1	56	10	13	0.004	0.147	0.110
2000	61	3	2	60	5	98	22	31	0.612	0.221	0.157
2001	494	4	3	494	9	330	34	50	1.498	0.258	0.174
2002	225	2	1	225	3	204	19	29	1.105	0.146	0.094
2003	125	0	0	125	0	150	2	3	0.836	0.096	0.059
2004	127	0	0	127	0	106	1	2	1.198	0.230	0.134
2005	146	4	7	146	4	87	65	117	1.678	0.062	0.034
2006	70	0	0	70	0	48	1	2	1.454	0.130	0.069
2007	137	0	0	137	0	83	0	0	1.649	0.000	0.000
2008	126	28	15	126	43	63	115	239	2.001	0.378	0.182
2009	178	4	3	178	8	61	11	24	2.924	0.702	0.322
2010	397	4	7	396	13	179	22	50	2.213	0.576	0.251
2011	379	90	46	379	136	143	281	676	2.653	0.485	0.201
2012	177	50	49	174	103	65	219	553	2.673	0.468	0.185
2013	92	89	61	90	153	45	260	690	1.990	0.587	0.221
2014	436	70	49	428	129	144	223	621	2.972	0.578	0.208
2015	120	202	66	117	283	56	374	1094	2.089	0.757	0.259
2016	275	257	52	264	328	122	518	1591	2.166	0.633	0.206
2017	714	7	3	715	9	172	37	119	4.157	0.243	0.075
2018	429	35	23	429	60	152	110	372	2.821	0.545	0.161
2019	423	101	60	419	171	137	262	932	3.060	0.651	0.183
2020	264	25	19	265	44	147	99	370	1.803	0.444	0.119
2021	229	31	27	228	60	79	127	498	2.891	0.472	0.120

Table 18: Morningson

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana Fishery	Tiger Fishery	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)
1994	4	760	306	2	1085	50	4813	5054	0.036	0.225	0.215
1995	126	1531	283	110	1840	141	5243	5780	0.779	0.351	0.318
1996	105	640	405	104	1052	148	4571	5292	0.702	0.230	0.199
1997	62	690	347	62	1046	72	3867	4700	0.857	0.271	0.223
1998	233	919	464	226	1394	323	4795	6120	0.699	0.291	0.228
1999	9	445	219	9	665	72	2474	3315	0.123	0.269	0.201
2000	110	473	306	110	780	147	3445	4847	0.752	0.226	0.161
2001	928	392	184	926	578	827	2157	3187	1.120	0.268	0.182
2002	65	85	53	65	139	177	680	1055	0.365	0.204	0.132
2003	102	163	32	101	197	127	645	1051	0.798	0.305	0.187
2004	37	47	7	37	54	82	205	351	0.446	0.265	0.155
2005	91	280	64	91	280	113	1281	2300	0.807	0.219	0.122
2006	187	206	44	187	206	204	780	1471	0.915	0.264	0.140
2007	145	57	24	145	57	179	333	659	0.810	0.171	0.086
2008	127	69	18	131	83	134	315	655	0.975	0.264	0.127
2009	634	342	54	630	401	286	1111	2425	2.202	0.361	0.165
2010	443	199	40	441	241	258	528	1210	1.711	0.456	0.199
2011	806	70	29	806	99	273	347	835	2.952	0.285	0.119
2012	21	70	4	21	74	7	227	574	2.945	0.326	0.129
2013	126	183	49	124	236	83	546	1449	1.492	0.432	0.163
2014	352	188	40	353	230	186	599	1669	1.898	0.384	0.138
2015	184	266	43	180	329	75	567	1659	2.400	0.580	0.198
2016	117	296	40	114	355	92	941	2890	1.235	0.377	0.123
2017	443	101	15	441	120	202	427	1377	2.183	0.281	0.087
2018	169	110	31	166	150	90	443	1500	1.841	0.338	0.100
2019	278	373	163	257	578	141	979	3481	1.824	0.591	0.166
2020	107	122	24	104	151	59	554	2068	1.769	0.272	0.073
2021	180	123	24	179	149	91	565	2215	1.968	0.264	0.067

Table 19: Limmen Bight

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana Fishery	Tiger Fishery	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)
1994	9	716	107	5	842	68	3515	3691	0.073	0.240	0.228
1995	326	448	68	330	515	327	1856	2046	1.009	0.277	0.252
1996	201	555	174	201	737	252	3175	3675	0.797	0.232	0.200
1997	28	472	115	28	593	91	2100	2553	0.311	0.282	0.232
1998	273	748	122	274	870	307	3003	3833	0.891	0.290	0.227
1999	78	610	155	79	773	183	2933	3931	0.429	0.264	0.197
2000	229	558	179	232	737	348	2725	3834	0.666	0.270	0.192
2001	1732	584	250	1744	825	1440	2594	3833	1.211	0.318	0.215
2002	17	306	73	14	381	37	1373	2130	0.381	0.278	0.179
2003	420	848	132	420	981	449	2749	4478	0.935	0.357	0.219
2004	55	670	113	55	784	173	2607	4459	0.319	0.301	0.176
2005	3	509	47	3	509	25	2103	3777	0.120	0.242	0.135
2006	429	719	121	429	719	303	2516	4744	1.416	0.286	0.152
2007	30	284	62	30	284	101	1470	2910	0.299	0.193	0.098
2008	111	252	22	112	273	128	1079	2243	0.878	0.253	0.121
2009	380	581	85	386	659	272	1951	4259	1.419	0.338	0.155
2010	705	467	80	708	544	317	1245	2854	2.232	0.437	0.191
2011	277	184	32	278	215	139	891	2144	2.003	0.241	0.100
2012	74	235	37	75	271	43	919	2322	1.756	0.294	0.117
2013	74	541	51	77	589	63	1288	3417	1.222	0.457	0.172
2014	516	364	48	519	411	191	972	2708	2.717	0.423	0.152
2015	199	455	21	199	478	106	814	2381	1.877	0.587	0.201
2016	78	422	40	80	461	72	1197	3677	1.112	0.385	0.125
2017	721	350	46	724	393	271	1340	4322	2.672	0.293	0.091
2018	62	414	30	64	444	58	1334	4517	1.101	0.333	0.098
2019	87	830	128	84	974	68	2045	7271	1.231	0.476	0.134
2020	21	257	53	20	314	24	1058	3950	0.820	0.297	0.080
2021	59	420	99	59	523	47	1736	6805	1.256	0.301	0.077

Table 20: Groote

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana Fishery	Tiger Fishery	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)
1994	26	930	243	25	1176	49	5669	5952	0.503	0.207	0.198
1995	60	722	202	56	930	81	3554	3918	0.686	0.262	0.237
1996	62	418	131	61	550	109	3134	3628	0.560	0.175	0.152
1997	74	662	186	72	849	129	3279	3986	0.559	0.259	0.213
1998	75	951	449	73	1404	147	6051	7723	0.494	0.232	0.182
1999	471	803	313	509	1079	795	4810	6446	0.640	0.224	0.167
2000	217	780	233	222	1008	412	3870	5445	0.539	0.260	0.185
2001	358	662	371	363	1030	469	3387	5004	0.774	0.304	0.206
2002	30	1035	180	29	1216	63	4152	6441	0.457	0.293	0.189
2003	126	900	194	119	1100	121	3459	5634	0.984	0.318	0.195
2004	111	699	191	112	889	214	3363	5752	0.522	0.264	0.155
2005	3	576	95	3	576	25	2811	5048	0.120	0.205	0.114
2006	97	594	137	97	594	171	2516	4744	0.566	0.236	0.125
2007	49	307	77	49	307	190	1958	3877	0.257	0.157	0.079
2008	49	265	54	50	318	71	1361	2829	0.702	0.234	0.112
2009	149	138	71	152	206	146	818	1786	1.044	0.252	0.116
2010	215	618	207	227	813	235	2059	4719	0.965	0.395	0.172
2011	264	191	103	288	270	380	1045	2515	0.759	0.259	0.108
2012	44	287	95	47	379	51	1369	3459	0.915	0.277	0.110
2013	49	713	110	38	834	31	1888	5009	1.221	0.442	0.167
2014	149	491	150	138	652	43	1435	3807	3.209	0.454	0.171
2015	200	1386	214	167	1634	101	2538	7424	1.653	0.644	0.220
2016	24	597	127	19	730	45	1759	5401	0.422	0.415	0.135
2017	192	371	141	195	510	124	1527	4925	1.573	0.334	0.104
2018	19	448	141	22	586	39	1685	5706	0.566	0.348	0.103
2019	1	250	83	0	333	3	863	3069	0.113	0.386	0.109
2020	20	345	77	19	422	34	1430	5339	0.559	0.295	0.079
2021	54	138	74	53	215	48	667	2615	1.095	0.322	0.082

Table 21: Gove

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana Fishery	Tiger Fishery	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)
1994	42	225	71	43	296	116	1439	1511	0.370	0.206	0.196
1995	47	345	53	48	398	125	1522	1678	0.383	0.261	0.237
1996	18	111	21	18	133	131	775	897	0.140	0.171	0.148
1997	45	228	54	47	281	136	1032	1254	0.346	0.272	0.224
1998	39	266	113	37	383	98	1769	2258	0.374	0.216	0.170
1999	80	203	95	83	296	216	1423	1907	0.384	0.208	0.155
2000	23	164	47	23	212	122	939	1321	0.188	0.226	0.161
2001	37	179	101	37	281	99	911	1346	0.374	0.309	0.209
2002	77	322	47	74	374	119	1426	2212	0.624	0.262	0.169
2003	84	205	46	85	251	127	893	1455	0.669	0.281	0.172
2004	71	282	42	72	324	161	1234	2111	0.446	0.262	0.153
2005	72	288	39	72	288	145	1370	2460	0.497	0.210	0.117
2006	143	262	54	143	262	243	1099	2072	0.588	0.238	0.126
2007	61	162	19	61	162	156	816	1616	0.393	0.199	0.100
2008	101	122	12	100	136	75	562	1168	1.335	0.242	0.116
2009	11	35	13	11	48	15	240	524	0.706	0.201	0.092
2010	68	241	35	66	278	51	706	1618	1.292	0.393	0.172
2011	97	83	47	95	133	100	501	1206	0.947	0.265	0.110
2012	77	162	27	77	189	87	697	1761	0.881	0.271	0.107
2013	49	269	28	49	297	36	732	1942	1.356	0.406	0.153
2014	42	259	66	41	327	39	737	1774	1.051	0.444	0.184
2015	143	493	72	146	562	150	905	2647	0.973	0.621	0.212
2016	109	147	19	111	166	89	471	1447	1.247	0.352	0.115
2017	85	72	10	81	86	93	382	1232	0.871	0.225	0.070
2018	65	164	36	66	200	78	590	1998	0.844	0.340	0.100
2019	59	170	31	60	201	44	487	1732	1.356	0.412	0.116
2020	55	180	16	55	196	55	675	2520	1.000	0.290	0.078
2021	88	86	15	88	102	96	362	1419	0.915	0.282	0.072

Table 22: Arnhem

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana Fishery	Tiger Fishery	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)
1994	42	90	11	44	100	178	526	552	0.245	0.190	0.181
1995	160	19	1	160	21	132	109	120	1.211	0.188	0.171
1996	90	37	3	90	40	210	252	292	0.430	0.158	0.137
1997	87	17	2	87	18	178	105	128	0.490	0.174	0.143
1998	94	49	2	95	52	225	231	295	0.422	0.223	0.175
1999	176	8	1	176	8	253	74	99	0.695	0.113	0.085
2000	50	21	2	50	22	181	148	208	0.278	0.149	0.106
2001	127	32	2	128	35	135	142	210	0.950	0.245	0.166
2002	64	57	1	63	59	147	193	299	0.432	0.304	0.196
2003	165	11	0	166	10	183	43	70	0.908	0.237	0.145
2004	264	6	0	265	5	303	39	67	0.873	0.129	0.076
2005	112	15	0	112	15	186	70	126	0.603	0.217	0.121
2006	213	7	1	213	7	227	44	83	0.938	0.159	0.084
2007	36	11	1	36	11	118	66	131	0.302	0.168	0.085
2008	327	68	8	326	76	176	234	486	1.854	0.324	0.156
2009	48	9	0	48	9	35	38	83	1.374	0.236	0.108
2010	258	4	0	258	4	124	17	39	2.079	0.215	0.094
2011	243	8	2	242	10	98	48	116	2.473	0.207	0.086
2012	305	5	0	305	5	102	22	56	2.994	0.221	0.087
2013	95	39	3	95	43	58	120	318	1.641	0.358	0.135
2014	308	15	3	309	17	153	51	123	2.020	0.333	0.139
2015	173	35	3	173	38	153	62	181	1.131	0.613	0.210
2016	58	97	5	58	102	50	239	734	1.160	0.427	0.139
2017	142	37	1	142	38	120	121	390	1.183	0.314	0.097
2018	159	33	2	159	35	89	109	369	1.785	0.319	0.094
2019	84	44	3	84	47	46	97	328	1.832	0.489	0.144
2020	42	80	8	44	86	37	240	896	1.187	0.360	0.096
2021	134	28	8	135	36	111	121	474	1.212	0.295	0.075

Table 23: Port Essington

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana Fishery	Tiger Fishery	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)
1994	132	26	9	136	31	378	176	185	0.361	0.176	0.167
1995	257	63	57	253	124	363	359	396	0.697	0.344	0.312
1996	177	14	4	180	15	332	96	111	0.543	0.154	0.133
1997	302	16	54	302	69	478	186	226	0.632	0.372	0.306
1998	175	74	34	173	109	358	415	530	0.485	0.262	0.205
1999	195	8	18	196	25	343	98	131	0.570	0.259	0.193
2000	180	39	25	180	65	288	216	304	0.624	0.301	0.214
2001	280	63	142	258	227	345	395	584	0.749	0.576	0.390
2002	213	86	25	212	113	339	273	424	0.624	0.414	0.267
2003	212	12	6	219	11	367	47	77	0.595	0.236	0.145
2004	193	17	7	195	22	241	92	157	0.810	0.235	0.137
2005	236	15	6	236	15	403	47	84	0.586	0.327	0.182
2006	193	2	2	193	2	197	6	11	0.980	0.333	0.177
2007	116	3	0	116	3	141	18	36	0.820	0.178	0.090
2008	379	99	22	378	122	285	324	674	1.326	0.377	0.181
2009	107	15	5	109	17	103	51	111	1.062	0.332	0.152
2010	254	8	3	259	6	208	18	41	1.246	0.323	0.141
2011	243	21	27	252	40	236	92	221	1.066	0.437	0.182
2012	283	38	18	291	48	188	124	313	1.546	0.385	0.152
2013	170	45	21	169	67	162	118	313	1.042	0.568	0.214
2014	340	41	51	347	85	264	133	320	1.314	0.639	0.266
2015	264	85	37	262	124	240	152	445	1.092	0.816	0.279
2016	171	171	31	162	212	161	344	1057	1.006	0.617	0.201
2017	186	13	6	188	16	182	56	181	1.033	0.286	0.089
2018	214	51	36	219	82	215	171	579	1.018	0.481	0.142
2019	128	30	10	128	40	106	82	292	1.210	0.489	0.137
2020	161	149	48	160	198	175	425	1587	0.914	0.466	0.125
2021	242	29	32	243	61	291	168	659	0.836	0.362	0.092

Table 24: Melville

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana Fishery	Tiger Fishery	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)
1994	168	14	12	169	26	453	131	138	0.373	0.196	0.187
1995	493	20	56	502	67	628	186	205	0.799	0.361	0.327
1996	289	7	27	294	29	557	126	146	0.529	0.228	0.197
1997	554	41	111	574	132	842	312	379	0.682	0.424	0.349
1998	235	46	49	237	93	519	312	398	0.457	0.298	0.233
1999	527	8	14	531	17	667	76	102	0.796	0.229	0.171
2000	189	2	2	191	2	380	13	18	0.502	0.126	0.089
2001	351	5	18	358	17	439	63	93	0.816	0.273	0.185
2002	286	29	18	295	38	468	118	183	0.630	0.321	0.207
2003	253	14	13	267	13	432	51	83	0.618	0.249	0.153
2004	455	0	0	455	0	500	1	2	0.911	0.077	0.045
2005	306	0	0	306	0	530	44	79	0.577	0.000	0.000
2006	160	1	1	160	0	230	1	2	0.696	0.000	0.000
2007	134	0	0	134	0	141	3	6	0.947	0.000	0.000
2008	528	3	2	532	1	435	6	12	1.223	0.203	0.097
2009	302	7	12	309	12	208	34	74	1.488	0.358	0.164
2010	343	4	3	349	1	294	7	16	1.186	0.173	0.075
2011	356	2	13	359	13	259	19	46	1.384	0.660	0.274
2012	370	41	22	377	56	312	147	371	1.209	0.381	0.151
2013	252	73	51	263	113	227	154	409	1.160	0.731	0.275
2014	322	72	65	330	130	265	194	467	1.245	0.670	0.278
2015	416	112	64	425	167	329	206	603	1.292	0.811	0.277
2016	215	67	43	222	103	237	152	467	0.937	0.675	0.220
2017	509	11	10	512	18	408	66	213	1.255	0.273	0.085
2018	287	79	80	296	150	288	262	887	1.027	0.574	0.170
2019	189	110	59	194	163	178	303	1077	1.092	0.538	0.151
2020	239	124	80	250	193	266	419	1564	0.941	0.460	0.123
2021	353	79	99	362	169	353	358	1403	1.025	0.473	0.121

Table 25: Fog Bay

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana Fishery	Tiger Fishery	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)
1994	210	6	2	211	8	393	76	80	0.536	0.101	0.096
1995	251	5	1	251	6	346	40	44	0.726	0.144	0.130
1996	147	4	0	147	4	227	43	50	0.648	0.096	0.083
1997	448	10	3	452	10	464	61	74	0.974	0.158	0.130
1998	307	11	10	308	22	420	118	151	0.733	0.184	0.144
1999	254	1	1	254	2	308	17	23	0.824	0.137	0.103
2000	221	1	0	221	1	271	15	21	0.817	0.074	0.053
2001	307	0	0	308	0	271	1	1	1.136	0.202	0.137
2002	208	0	0	208	1	295	9	14	0.704	0.135	0.087
2003	259	0	0	259	1	324	2	3	0.798	0.255	0.157
2004	332	0	0	332	0	261	1	2	1.271	0.270	0.158
2005	123	0	0	123	0	181	1	2	0.679	0.110	0.061
2006	258	1	0	258	1	270	2	4	0.956	0.250	0.133
2007	237	1	0	237	1	172	3	6	1.375	0.183	0.093
2008	316	0	0	316	0	200	1	2	1.580	0.494	0.238
2009	287	0	0	287	0	107	1	2	2.682	0.225	0.103
2010	318	0	0	318	0	180	0	0	1.765	0.000	0.000
2011	286	0	0	286	0	169	0	0	1.692	0.000	0.000
2012	233	0	0	233	0	144	0	0	1.621	0.000	0.000
2013	197	0	0	197	0	117	0	0	1.685	0.000	0.000
2014	191	0	0	191	0	102	1	2	1.873	0.000	0.000
2015	156	0	0	156	0	110	0	0	1.418	0.000	0.000
2016	171	2	0	171	2	114	2	6	1.500	0.848	0.276
2017	230	0	1	230	1	162	1	3	1.420	1.100	0.341
2018	257	0	0	257	0	137	5	17	1.879	0.083	0.025
2019	237	0	0	237	0	101	1	4	2.349	0.259	0.073
2020	226	16	3	225	20	177	51	181	1.272	0.387	0.109
2021	191	8	5	189	15	157	68	267	1.206	0.219	0.056

Table 26: Bonaparte

Year	Catch (tonnes)					Effort (days)			CPUE (tonnes/day)		
	Banana	Tiger	Endeavour	Banana	Tiger	Banana Fishery	Tiger Fishery (nominal)	Tiger Fishery (effective)	Banana	Tiger Fishery	Tiger Fishery
				Fishery	Fishery				Fishery	(nominal)	(effective)
1994	590	4	21	610	5	1125	28	29	0.542	0.182	0.173
1995	736	11	64	763	49	900	129	142	0.848	0.380	0.345
1996	546	10	36	569	23	1284	93	108	0.443	0.242	0.209
1997	1000	30	623	1010	643	1502	1147	1394	0.673	0.561	0.461
1998	262	25	7	265	29	846	125	160	0.313	0.230	0.180
1999	619	16	50	630	54	1235	246	330	0.511	0.221	0.165
2000	397	1	19	404	14	554	32	45	0.729	0.423	0.300
2001	292	25	29	303	49	358	187	276	0.847	0.259	0.176
2002	435	28	10	441	32	610	164	254	0.723	0.196	0.126
2003	411	103	12	422	105	732	566	922	0.576	0.185	0.113
2004	477	33	38	495	53	720	198	339	0.688	0.266	0.155
2005	318	15	5	318	15	445	64	115	0.715	0.230	0.128
2006	231	0	1	231	0	254	0	0	0.909	0.000	0.000
2007	151	4	4	151	4	206	20	40	0.732	0.220	0.111
2008	185	1	3	189	0	183	2	4	1.031	0.179	0.086
2009	612	4	17	628	5	444	13	28	1.415	0.397	0.182
2010	254	2	9	261	4	218	10	23	1.199	0.353	0.154
2011	463	6	85	472	81	345	100	241	1.369	0.815	0.338
2012	195	1	2	198		132	0	0	1.499	0.000	0.000
2013	380	3	4	387	0	325	1	3	1.191	0.025	0.009
2014	883	2	9	891	3	604	4	10	1.475	0.750	0.312
2015	30	0	0	30	0	57	1	3	0.526	0.429	0.147
2016	35	0	1	35	0	59	1	3	0.600	0.045	0.015
2017	383	9	65	388	68	405	117	377	0.959	0.583	0.181
2018	263	1	3	266	2	208	8	27	1.279	0.190	0.056
2019	48	1	0	49	1	71	17	60	0.686	0.039	0.011
2020	139	2	2	141	1	192	25	93	0.735	0.044	0.012
2021	565	1	17	581	2	457	27	106	1.272	0.064	0.016